HYTRONIK®

SENSORS & LIGHTING CONTROL

2022-2023

FULL PRODUCT GUIDE

Global Headquarter - - - Hytronik International Ltd

Who are we ?

Hytronik has always been the industry leader in Sensors & Lighting Control since 2007, with integrated Marketing, Sales, R&D and Manufacturing.

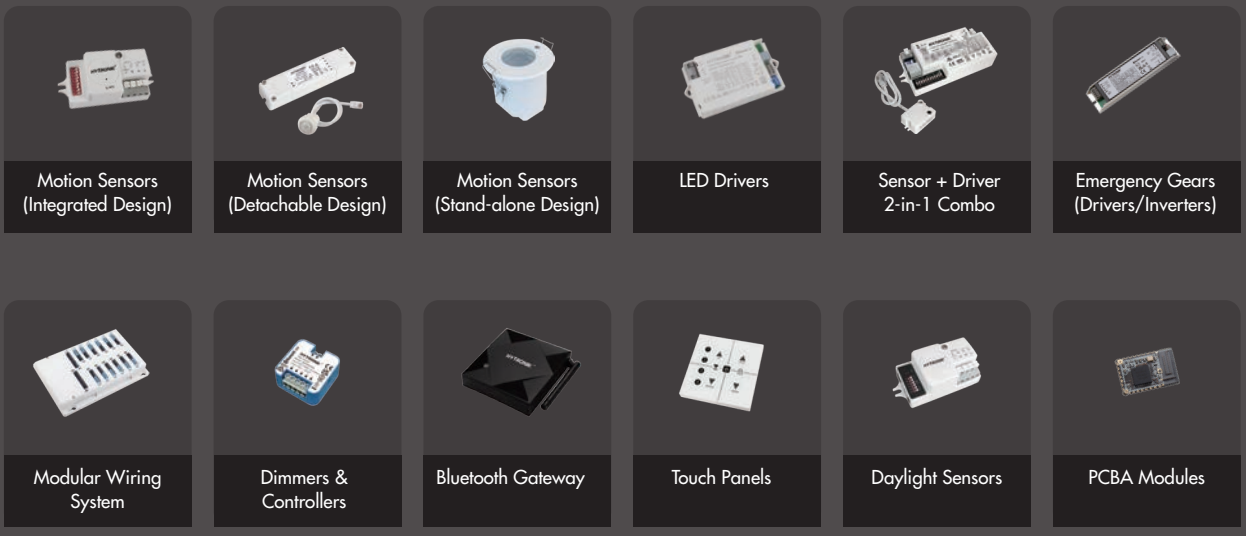
HYTRONIK®

ENTERPRISE PROFILE

Hytronik Research & Development Center

What do we do ?

Product Portfolios



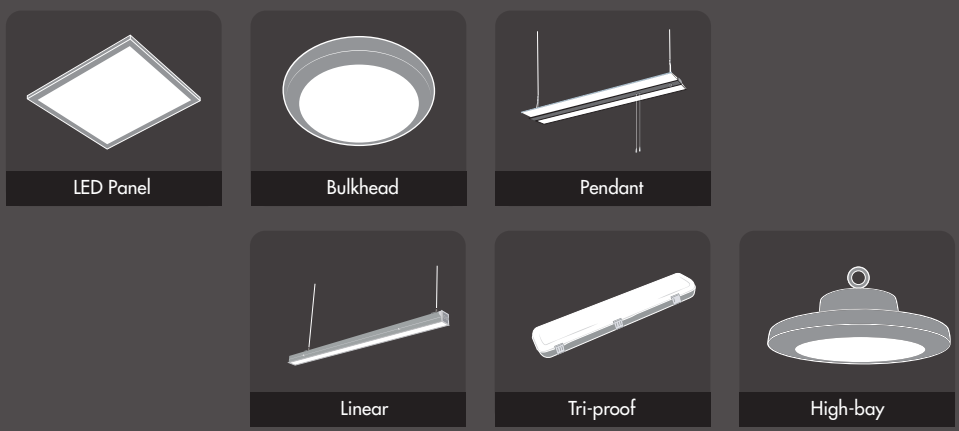
High-end Technologies

NEW!

Advanced Product Features

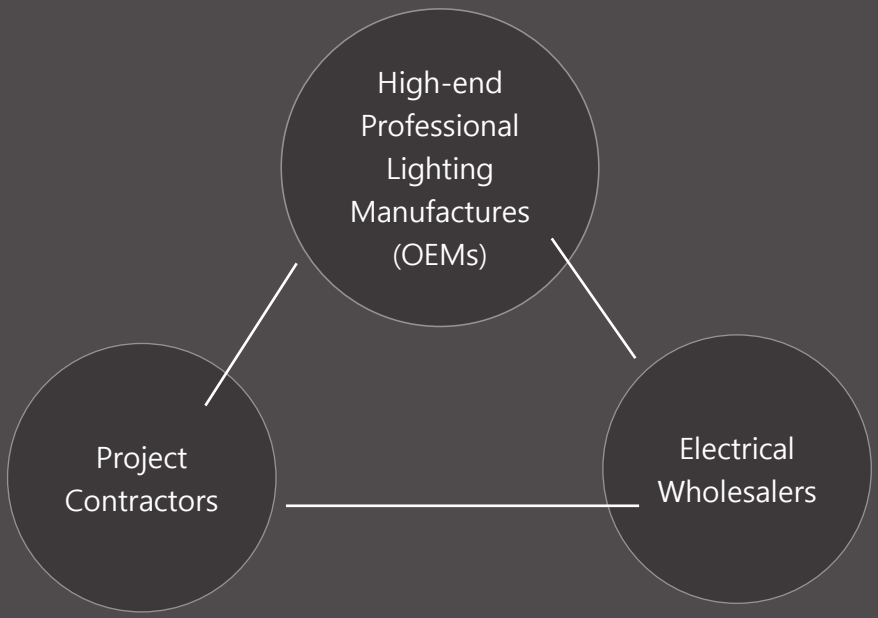
Typical Applications

For OEM Fixtures



For Applications & Projects

Who do we serve for ?

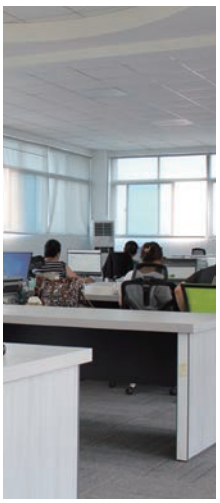


Our value to customers:

- Headquarter located in UK
- Energy saving & Product, Solution and Service Provider
- 15 Years profession in lighting control industry
- Server & Cloud based in Europe
- 24H online trouble-shooting & after-sale services
- High R&D competence
- Flexible & quick tailor-made design and production
- Comprehensive Bluetooth 5.0 SIG mesh eco-system
- One-stop solution for complete Modular Wiring System
- Full local technical support
- High performance vs. cost
- High innovation rate
- Fast response speed
- Environment & Installation friendly
- 5-Year warranty

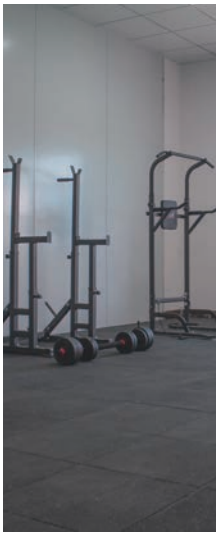
5. SMT

4. Manufacturing



3. Office

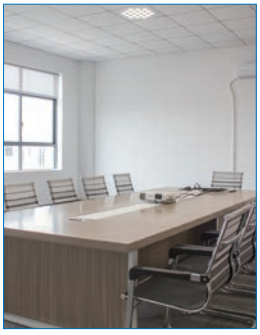
2. Gym Room



1. Yoga Room

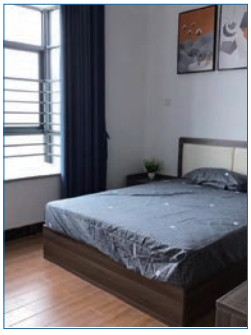
6. Reception

7. Meeting Room



8. Equipments

9. Dormitory



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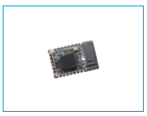

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Bluetooth® 5.0 SIG Mesh Eco-system

Hytronik is the market leader for motion sensor technology in the professional lighting industry. We deliver high quality controls to the high-end professional lighting manufactures worldwide. With our strong R&D competence, we are now gearing towards Bluetooth lighting control solutions and building up a complete ecosystem of Bluetooth products.

Our eco-system consists of motion sensors, LED drivers, emergency control gear, dimmers, gateway and other components such as touch panel and quick connection box. We also cooperate with Koolmesh, Casambi, Silvair and Enocean to provide a wider range of Bluetooth lighting solutions.

Partnerships

- Koolmesh™
- CASAMBI
- SILVAIR
- EnOcean

Partnerships

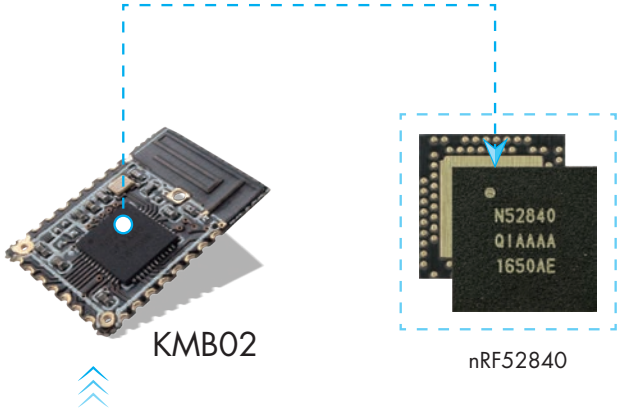
- Zhaga
- Wirepas
- INGY
- tuya

With server based in Europe, our cloud service supports remote control via gateway, emergency report generation, remote monitoring, and IoT features etc. Meanwhile, we are open for all kinds of customization possibilities at affordable prices, including the product, app, cloud and server.

With dedicated phone/tablet app and web platform, Hytronik Bluetooth solution caters for small-scale installations such as residential and large-scale installation in commercial and industrial applications. For new projects, or retrofit upgrade projects, the Bluetooth products have significantly reduced the labor cost for wiring thanks to the wireless mesh networking. Besides, not only does our powerful solution fulfill the challenging requirements in real application, what's more, the whole setup and commissioning process has been simplified with synergy of intuitive user interface and strong technical support from Hytronik team. Meanwhile, future maintenance and on-site troubleshooting has never been so quick, simple, and flexible!

Koolmesh's Bluetooth Chip –nRF52840

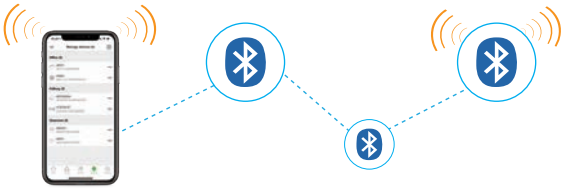
Koolmesh's Bluetooth system is built on our in-house developed module KMB02, in which the chip core is Nordic nRF52840. With the adoption of nRF52840, Koolmesh's system allows for powerful features such as:



KMB02

nRF52840

Bluetooth 5.0 long range (30m in-door, 50m in open air)



Product Features

- 32-bit ARM Cortex-M4F @ 64MHz
- Programmable output power from +8dBm to -20dBm
- 19 pins for general-purpose input/output
- Wide supply-voltage range (1.7V to 3.6V)
- 1MB Flash with cache program memory
- 256kB RAM

OTA via Mesh/Gateway level (Batch OTA upgrade remotely)

NEW!

Over-the-air upgrade

All DALI output devices comply with DALI-2 standards

NEW!

DALI 2

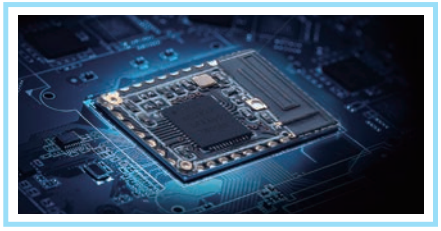
A firmware management platform (Easy for partner-level cooperation R&D)

NEW!

Bigger memory storage (flash & RAM) for more advanced features…

NEW!

Future-proof!

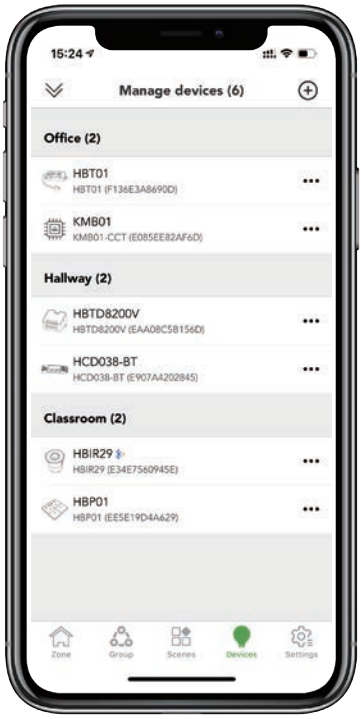


Data backup & recovery based on date/time

NEW!

Key Features & Capabilities

- NEW! Quick setup mode & advanced setup mode
- NEW! Web app/platform for project deployment & data analysis
- NEW! Koolmesh Pro app on iPad for on-site configuration
- NEW! Floorplan feature to simplify project planning
- NEW! Emergency report generation and diagnosis
- NEW! DALI-2 and D4i supported
- NEW! One-key device replacement
- NEW! Device social relations check
- NEW! Staircase function for quick primary & secondary setup
- NEW! Remote control via gateway support HBGW01
- NEW! Heat map
- NEW! Dynamic daylight harvest auto-adaptation
- Grouping luminaires via mesh network
- Scenes
- Dusk/Dawn photocell (Twilight function)
- Tri-level control
- Daylight harvest
- Circadian rhythm (Human centric lighting)
- Push switch configuration
- Detailed motion sensor settings
- Schedule
- Astro timer (sunrise and sunset)
- Power-on status (memory against power loss)
- Offline commissioning
- Bulk commissioning (copy and paste settings)
- Different permission levels via authority management
- Network sharing via QR code or keycode
- Interoperability with Hytronik Bluetooth product portfolio
- Compatible with EnOcean BLE switches
- Internet-of-Things (IoT) featured
- Device firmware update over-the-air (OTA)
- Continuous development in progress…



Bluetooth 5.0 SIG mesh

HYTRONIK Koolmesh

iOS

Android

for iOS

for Android

Smartphone app for both iOS & Android platform

for iPad

Koolmesh Pro app for iPad

Web

for Web

Web app/platform: www.iot.koolmesh.com

EnOcean
Self-powered IoT

Fully support EnOcean self-powered switch module PTM215B (HBES01/W & HBES01/B)

Take a Closer Look into the Powerful Bluetooth Features

1.

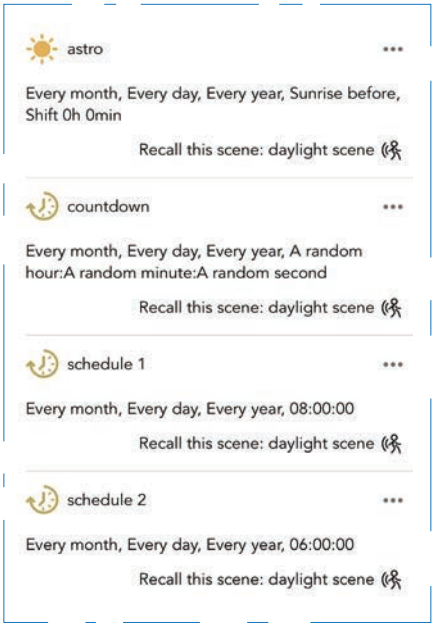
Wireless mesh-network grouping enables synchronized control with minimized labor hours and no hard-wiring hassles.

Batch commissioning significantly saves labor hours – Once and for all!

2.

Schedules & Astro-timer

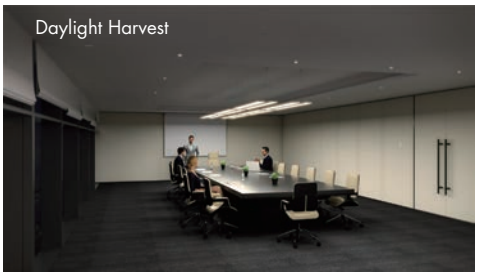
- Support multiple timers
- Count-down timers
- Sunset & Sunrise timers

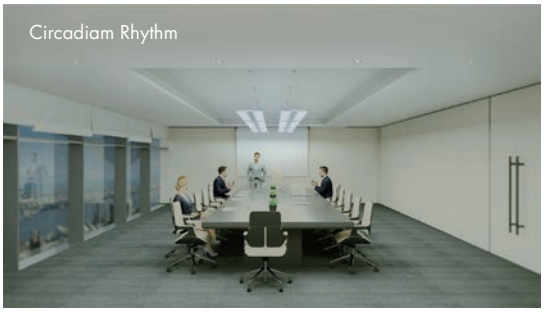


3.

Scenes setup and recall

- Recall by schedule
- Recall by sensor trigger
- Recall by PUSH switch
- Static & Dynamic scene

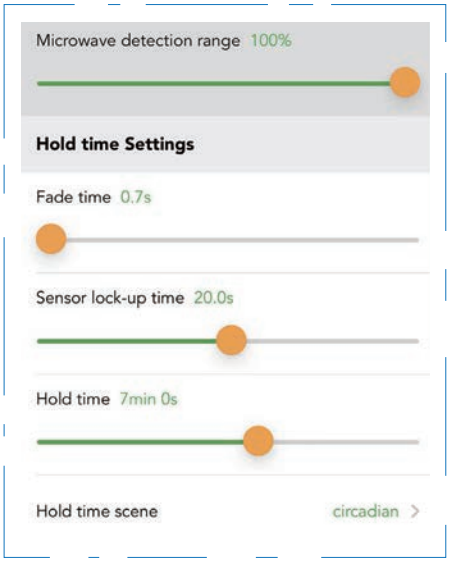




4.

Floorplan with emergency report generation

- Design layout on floorplan map
- Emergency management system
- Run emergency tests with automatic report generation

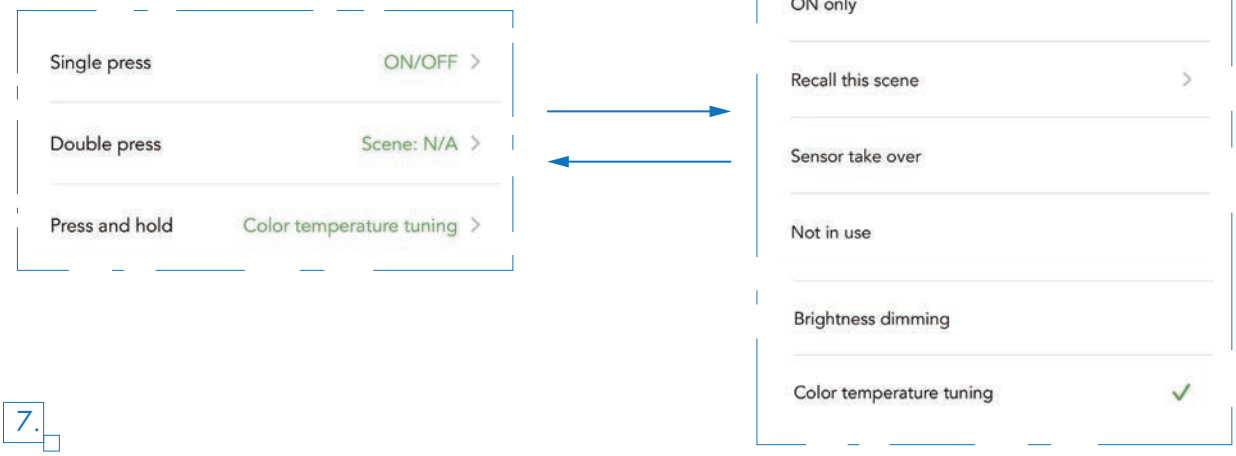


5. Professional motion sensor settings

- Sensitivity setting
- Lux threshold setting
- Hold-time and Stand-by time setting
- Auto mode (Presence) / Semi-auto mode (Absence)
- Fade time (soft-start & soft-off) setup
- Daylight control prior to motion control

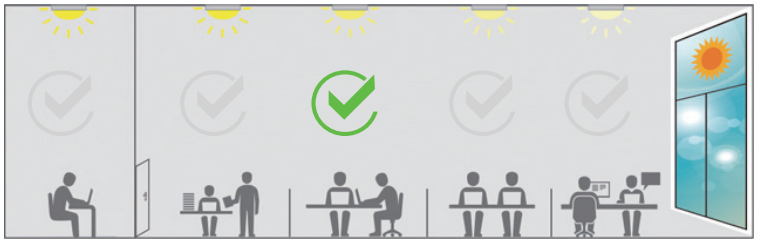
6. Re-define PUSH/retractive switch functionalities!

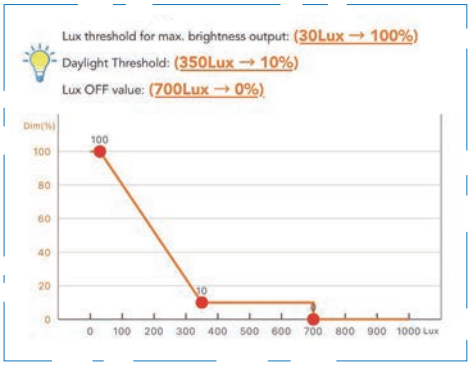
Assign functionalities to different buttons according to different actions:



7. Enhanced daylight harvest/interaction experience

- Visualized daylight setup
- Open loop & Closed loop
- Drag and play!

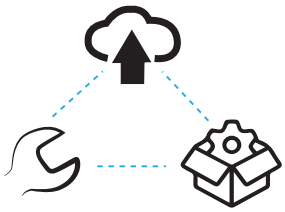




8.

Super intuitive circadiam rhythm (Human Centric Lighting) control

- Visualized 24h Dim & CCT level arrangement
- Personalized adjustment on Dim & CCT curves
- Combined with motion sensor and lux control
- Drag and play!



10.

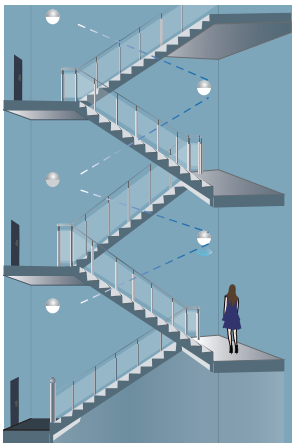
Future-proof OTA firmware upgrade

- Easy trouble-shooting on-site
- Quick project upgrade
- Easy project site maintanence

9.

Staircase function

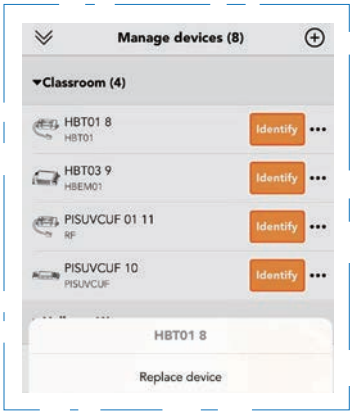
- Simplified staricase setup
- Perfect replacement for RF grouping



11.

One-key device replacement

- Automatically obtain the parameters from the previous device
- Reduce operation & maintenance response time



12.

Authrority & Permission management

- Different permission levels for different roles
- Network sharing through QR code / redeem code
- Ownership transfer from installer to project manager

Installer

Transfer ownership

Owner

Authorize

Sub-users

13.

Remote monitoring & data analysis via gateway

- Remote accessibility
- Energy consumption management
- Internet-of-Things (IoT) featured

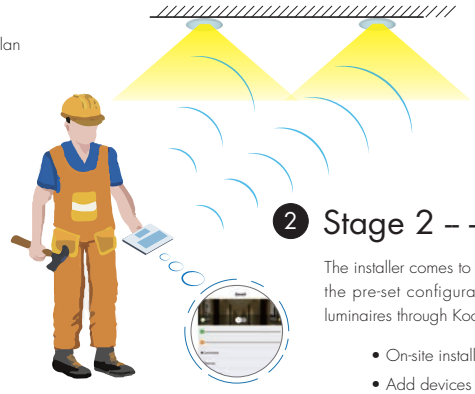
Gateway HBGW01

Workflow for New Projects

1 Stage 1 – – Design

The project designer applies layouts to floorplan at home through web app platform.

- Create projects & networks
- Insert floorplan map layout
- Pre-set zones
- Assign configuration profiles to the zones



2 Stage 2 – – Installation

The installer comes to the project site, and uploads the pre-set configuration profiles directly to the luminaires through Koolmesh Pro app on iPad.

- On-site installation
- Add devices to the pre-set zones
- The pre-set onfiguration profiles will automatically sync to devices

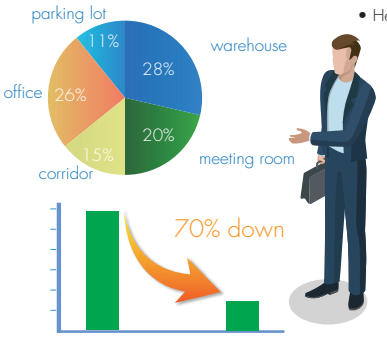
3 Stage 3 – – Management

Commissioning done!

a) All data & analysis can be viewed and managed by the project manager/owner through web app platform.

b) The end users can be given different permisison levels and have their own preference/personalized settings through smartphone app.

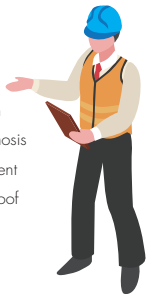
- Automatic report generation
- Energy consumption management
- Sub-users permission management
- Scheduled emergency tests
- Heat map



4 Stage 4 – – Maintenance

Future maintenance is very simple and explicit!

- Device usage analysis
- Automatic fault notification
- Detailed report with diagnosis
- One-key device replacement
- OTA upgrade for future-proof



System Architecture

Bluetooth 5.0 mesh network

Server & Cloud

Gateway HBGW01

Commissioning Tools

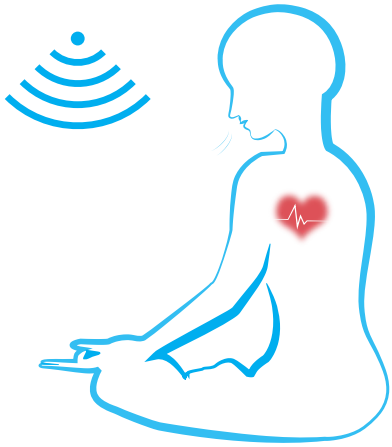
- Quick and easy trouble-shooting
- Internet-of-Things (IoT) featured
- Enables remote access/monitoring

- Europe based server & cloud
- Automatic report generation
- Data analysis & diagnosis

- Data transmission between Mesh network & Ethernet
- Support for wired and wireless connections to Ethernet
- Network real-time synchronization

True Presence/Absence Detection Technology

In some applications such as office/meeting areas, users require a "true" presence motion detector. Traditional HF/PIR motion sensor cannot meet this requirement because the detection mechanism requires objects to move around to trigger, which is not favorable when people need to stand/sit statically for a period. There have been some so-called presence detection HF/PIR sensors in the market, but these so-called HF/PIR presence detection sensors are not "true" presence detectors, as these sensors detection mechanism is still based on minor-movements. When the person hardly moves the lights will turn off again after time-out, and in this case the person will need to move intentionally to keep refreshing the hold-time delay to avoid light suddenly switching off.



Hytronik has been seeking for a "true" presence technology that aims to bring the best experience for users. And we are glad to announce that thanks to the strong R&D capabilities, Hytronik launched our "PRO" series HF motion sensors, loaded with the latest developed TRUE detection technology. Our True Presence Detection "PRO" series HF sensor works to detect human breathing. No matter if the person sit/stand statically or turns their back to the sensor. The "PRO" series can accurately recognize presence and keeps the lights on all the time.

The "PRO" series are not only precisely accurate and sensitive, in the meanwhile the "PRO" series also behaves excellently in filtering interferences. Different kinds of false triggering sources in daily life (such as small animals, hidden waterpipes, tree leaf etc.) can be recognized and filtered by the sophisticated algorithm, with the aim of reducing false trigger chances as much as possible. Also, the " PRO" series are designed with robust antenna design which has strong resistance against all sorts of wireless interferences. 5G routers, GSM tower, RF etc. can all be coped with no trouble. The "PRO" series complies with latest RED standards.

DALI-2 Compliance

Hytronik's DALI-2 product portfolio includes HF/PIR motion sensor, LED driver, dimmer, touch panel etc. These DALI-2 products comply with IEC62386_101, 102, 103, 207, 209, 301, 303, 304... and Zhaga D4i. All Hytronik's DALI-2 products are tested, and the test reports are listed on DIIA website.

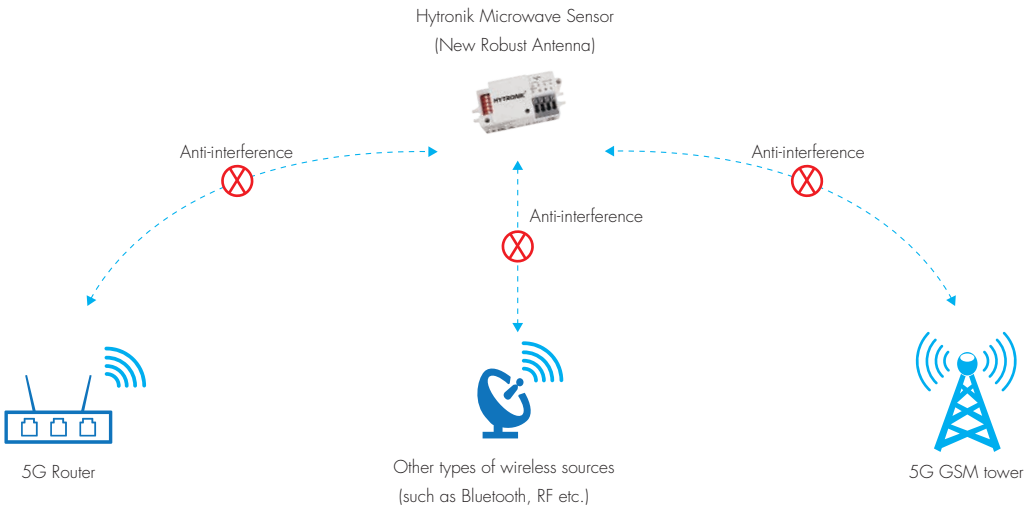
Meanwhile, DALI-2 supports downward compatibility to old version DALI, so Hytronik's DALI-2 products can also be used in previous/retrofit DALI projects as well.

Robust HF Sensors Design --- Anti-interference Technology

Robust HF Antenna

Hytronik's microwave motion sensor uses 5.8GHz high frequency (HF) antenna in the product design. With the increasing density of wireless environments such as 5G GSM tower and 5G Wi-Fi coverage, this has created extra challenges for sensor's operation because the air is shared by all kinds of wireless signals, and transmissions from any device at the similar frequency could potentially cause interference. The effects of interference which can be noticed by users are usually false triggering of sensors (turning on/off erratically), or lights staying on even after hold time etc.

To get around such tough environment, Hytronik has developed a new series of robust HF modules, designed to be loaded with our own special sophiscated software algorithms. These robust HF modules can withstand different types of wireless interferences in the real application. We believe this is the ultimate solution towards demanding installation environments in the future.



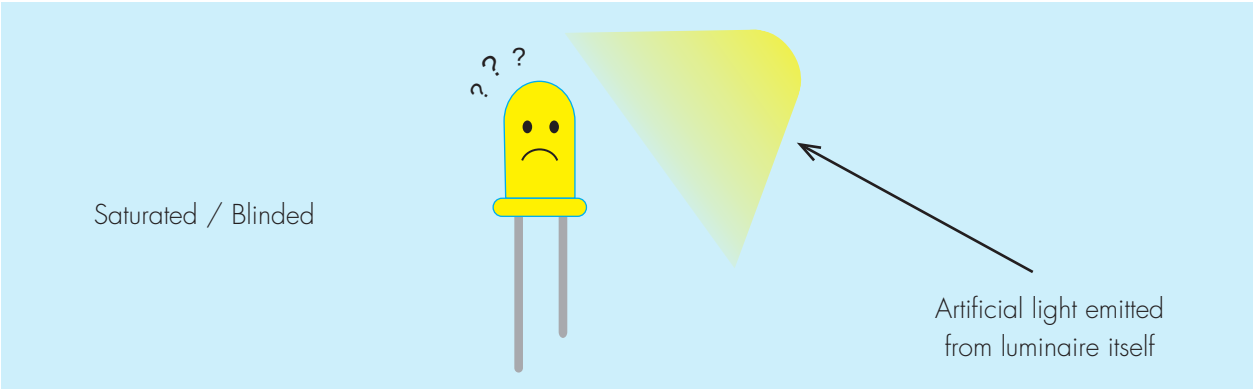
Thanks to the improved resistance against wireless interference, the robust HF module is compliant to the latest RED standards.

With this powerful antenna adapted in our microwave sensors, it ensures stable and accurate performance even when installed in tough wireless environments.

	5G Wi-Fi Interference	5G GSM Tower Interference	Bluetooth Interference	RF Interference
Hytronik's new robust HF sensors NEW!	High resistance	High resistance	High resistance	High resistance
Hytronik's new robust Dual-Sense™ sensors NEW!	High resistance	High resistance	High resistance	High resistance
Traditional normal HF sensors	Low resistance	Low resistance	Low resistance	Low resistance

Photocell Advance™ (Pro-active Lux Switching & Pro-active Daylight Harvesting)

Background information: For built-in type motion sensor, for a long time lux control has been a headache for OEM manufactures, because the artificial light emitted by the luminaire itself can affect the photocell/photodiode measurement, and as a result the lux reading from photocell/photodiode can be very far away from the real ambient lux level (actually in most cases, the artificial light feedback from the luminaire itself is so strong that the photocell/photodiode reaches to a saturated/blinded status and cannot perform at all).

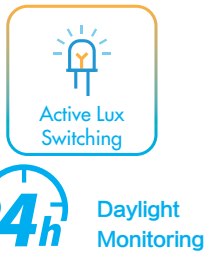


Traditional solution requires OEM designer to drill a hole on the luminaire so that the photocell/photo diode can be exposed outside

For the photocell to read ambient lux level normally, the common practice requires OEM designer to drill a hole on the luminaire so that the photocell/photodiode can be exposed outside to reduce the effect from the artificial light emitted by the luminaire itself. However, this practice can be very troublesome and limited in real applications, because it obvisouly compromises on the aesthetics of luminaire design, and at the same time demands OEM manufactures to have very good control over mass production and QC process. This is not easy in real life, costing great amount of time and money in the end. Hence, many OEM manufactures are forced to take Passive Lux Switching solution, and old technology which allows the photocell/photodiode to only measure ambient lux level when the fixture is in OFF status. If the fixture is ON then the photocell/photodiode does not make any lux measurements to prevent false reading.

Obviously this is not an ideal solution, an example would be that – From dawn to morning, if there is constant movement beneath the sensor then the sensor will stay on all the time and the photocell/photodiode simply does not have a chance to check the ambient lux level. Even if the sun rises and the real ambient lux level is way above the preset lux threshold value, the sensor has no chance to switch the light off. This will cause excessive energy waste, and the user experience is not friendly.

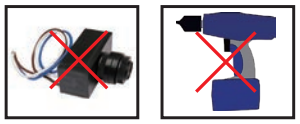
Aiming to solve this "headache" and maximize on the energy saving, previously Hytronik have developed a new solution called Active Lux Switching (or 24h Daylight Monitoring), which is widely accepted and adopted by the industry. With such technology the photocell/photodiode can check ambient lux level on the moment the fixture transits from hold-time level into stand-by level, so that sensor can determine if the fixture goes to stand-by level or switches off. Also, during the stand-by level period the photocell/photodiode can still check ambient lux level at intervals, to determine if the fixture continues stand-by level or swtiches off.



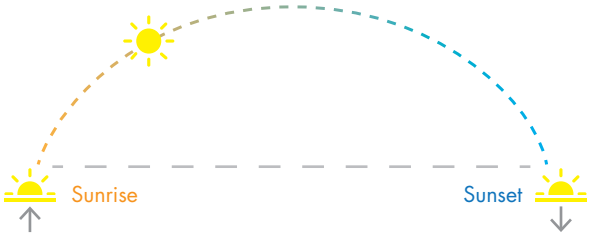
Photocell Advance™ (Pro-active Lux Switching & Pro-active Daylight Harvesting)

Based on Active Lux Switching technology, Hytronik proudly announces good news to the market and formally introduces a brand-new technology called Photocell Advance™ (also as we call "Pro-active Lux Switching" technology). Thanks to the latest Photocell Advance™ (or "Pro-active Lux Switching") technology, Hytronik has become the leading standard in the lighting control industry by enabling intelligent light fixtures to achieve:

1 Photocell/Photodiode can work perfectly when completely placed inside luminaire cover, without needing to drill a hole on the luminaire cover.

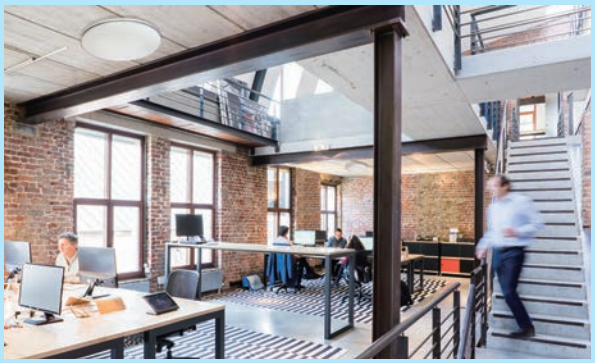


No extra components
No drilling required



2 Dusk/Dawn Photocell – With the advanced Pro-active Lux Switching technology, Hytronik's motion sensors are also able to achieve that luminaire be automatically switched on at dusk and be automatically switched off at dawn, even without movement triggering.

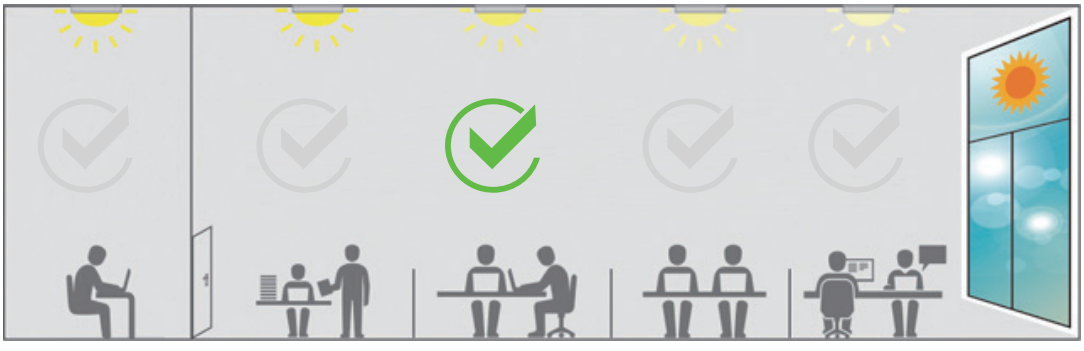
3 Daylight Prior to Motion – At any time, as long as the ambient lux level exceeds the preset lux threshold setting, Hytronik's sensor will be able to switch off the luminaire even when the fixture is in ON status. During the whole process, the ambient lux measurement will not be affected by the artificial light emitted from the fixture itself.



4 Pro-active Daylight Harvesting – With the help of the powerful Pro-active Lux Switching technology, Hytronik has now made it possible for luminaires with built-in sensors to perform Daylight Harvesting (also widely referred to as "Daylight Interaction" or "Daylight Regulation"). Hytronik's HF sensors and PIR sensors that are Pro-active Daylight Harvesting featured have been widely accepted by the leading OEM manufactures globally, and has become the industry standard typically in UK, Scandinavia Region, Dach region, Benelux region, and Australia.

Additionally, Hytronik's Bluetooth App control has provided powerful tools to unlock potential functionalities surrounding the Pro-active Daylight Harvesting feature. One of it is called Daylight Harvest Quick Setup where a user is able to simply tick the checkbox to represent the luminaire's location against the window position, so that the daylight harvest setup is easily done without any complicated commissioning (in the past, daylight harvesting is a very professional application meant for lighting specialists only and not quite accessible by public users). Hytronik has patented this Daylight Harvest Quick Setup App feature globally and has made daylight harvesting unprecedentedly intuitive and convenient.

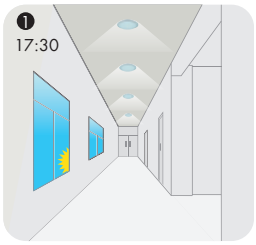
Hytronik's Patented App Feature: Daylight Harvest Quick Setup



Application Example ①: Corridor

- ☑ Dusk/Dawn Photocell
- ☑ Daylight Prior to Motion

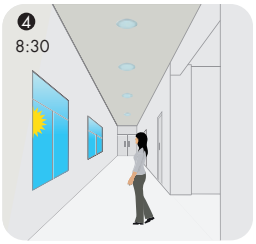
Hold time: 10min;
Daylight Threshold: 50lux;
Standby Dimming Level: 10%;
Standby period: Infinity



At sunset, the Dusk/Dawn Photocell feature starts to work. When the ambient lux level is below the preset lux value, sensor will automatically turn on the light to dim level 10%, even if there is no movement around.

Between 17:30 to 19:00, when there is no movement around, light will stay at dim level 10% until people come at 19:00 and trigger the lights to 100% brightness level.

After 21:30, when all the people left, the sensor will automatically go back and stay at dim level 10% with the expiration of hold-time 10min.

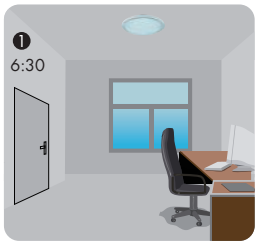


In the early morning, the Dusk/Dawn Photocell feature starts to work again. When the ambient lux level becomes above the preset lux value, sensor will automatically switch off the light. Thanks to the Daylight Prior to Motion feature, even if there is constant movement around during the process, the sensor will switch off the light accurately without any trouble.

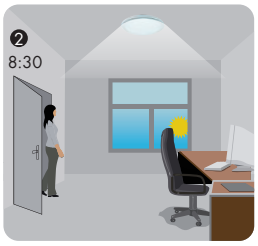
Application Example ②: Office

- ☑ Pro-active Daylight Harvesting
- ☑ Daylight Prior to Motion

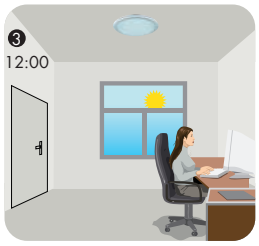
Hold time: 30min;
Daylight Threshold: 300lux;
Standby Dimming Level: 10%;
Stand-by time: 30min



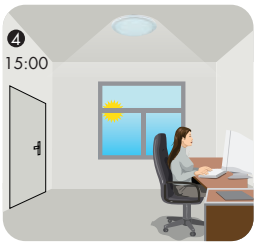
Before working hours, due to no movement around the light will stay off.



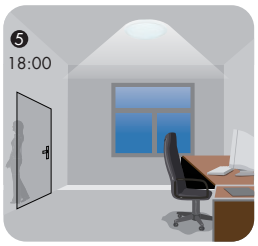
People starts to work. At this moment the ambient lux level is below the preset 300lux value, and movement will trigger the light on. The light will perform Pro-active Daylight Harvesting, so that the light will adjust its output according to the ambient lux level.



Between 8:30 to 12:00, there is constant movement in the office. Due to the Pro-active Daylight Harvesting feature the light output will gradually dim down, and the sensor will eventually switch the light off when the ambient lux level becomes above the preset lux value. Thanks to Daylight Prior to Motion feature, even if there is constant movement around during the process, the sensor will switch off the light accurately without any trouble.



Between 12:00 to 15:00, the ambient lux level is continuously above 300lux so the light will stay off all the time (even with people moving around), and the sensor will automatically switch the light on again when the ambient lux level drops below 300lux preset value. The light will perform Pro-active Daylight Harvesting, so that the light will adjust its output according to the ambient lux value.



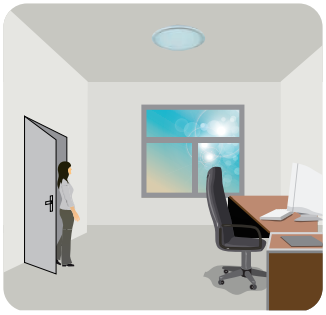
Between 15:00 to 18:00, there is constant movement in the office. Due to the Pro-active Daylight Harvesting feature the light output will gradually dim up, and the sensor will eventually dim the light all the way up to 100% full brightness along with the decreasing ambient lux level.

At night, when there is completely no motion, the sensor will turn off the light after the expiration of hold-time and stand-by time.

Other Advanced Product Features

1. On/Off Control

These sensors provide simple switching of the light based upon occupancy. A daylight sensor is also built-in to prevent the light switching on when there is sufficient natural light.



With sufficient natural light, the light does not switch on when presence detected.

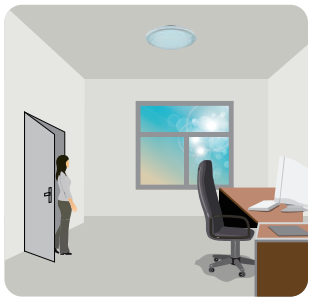
With insufficient natural light, the sensor switches on the light automatically when person enters the room.

The sensor switches off the light automatically after the hold-time when there is no motion detected.

2. Tri-level Control

Hytronik's tri-level dimming products offer 3 levels of light control: 100% → dimmed light → off, with settable time periods between each phase, as well dimming level and daylight threshold.

*All Hytronik's tri-level dimming products can also be configured as **bi-level** control (by setting the stand-by period to infinity), so that the light always remains in the dimmed mode in absence for areas where there are safety, security or enhanced comfort requirements.



With sufficient natural light, the light does not switch on when presence detected.

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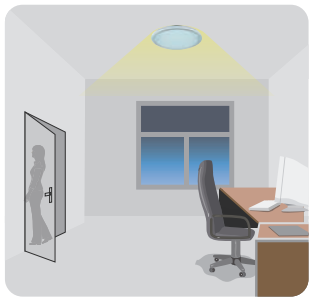


After hold-time, the light dims to stand-by level.

The light switches off automatically after the stand-by period elapsed.

3. Daylight Harvest

Right time, right place and the right amount of light! **Daylight harvest** (Also known as **daylight regulating** or **daylight interaction)** is a must in the future lighting norms. The daylight sensor measures the available surrounding natural light and calculates how much artificial light is needed to reach the target lux level. The control output is passed to the drivers by DALI or 0/1-10V signals which then deliver the needed amount of light .

Now with Photocell Advance™ technology, daylight harvest can be performed behind the cover!

The light will not switch on when natural light is sufficient, even with motion detected.

The light switches on automatically with presence when natural light is insufficient.

The light turns on at full or dims to maintain the lux level. The light output regulates according to the level of natural light available.

The light will be switched off when the ambient natural light is sufficient.

The light dims to stand-by brightness after hold-time and stays on the selected minimum dimming level.

The light switches off automatically after the stand-by period.

In the old days, to configure a daylight harvest application is not simple in real life, as it usually involves professional installers or lighting specialists with good lighting industry background and needs special equipment on site, which is not quite accessible by public users.

Aiming to simplify the daylight harvesting setup and make life easier for users, Hytronik has developed intuitive features that revolutionizes the commissioning processes --- Users can now easily commission daylight harvesting quickly and effortlessly!

Hytronik Special Feature 1:

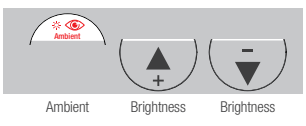
Built-in type sensors and stand-alone sensors have different working logics when it comes to daylight harvesting. Built-in type motion sensors require "**open loop**" daylight harvesting to work properly, and stand-alone type motion sensors require " **closed loop**" daylight harvesting to work properly. Based on different product types, Hytronik has prepared the appropriate open loop/closed loop program before leaving factory so user does not need to worry about whether he should set up open loop or closed loop.

Open-loop

Closed-loop

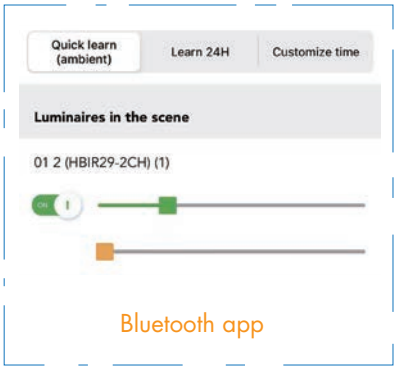
Hytronik Special Feature 2:

Hytronik sensor can **record** its **ambient** lux level as the new daylight harvesting target lux level. This is extremely useful because user can adjust the luminaire's output by himself until he found a comfortable/ideal lux value on the table/ground, then the user can record this lux value via remote controller or Bluetooth app, so that the daylight harvest is done!

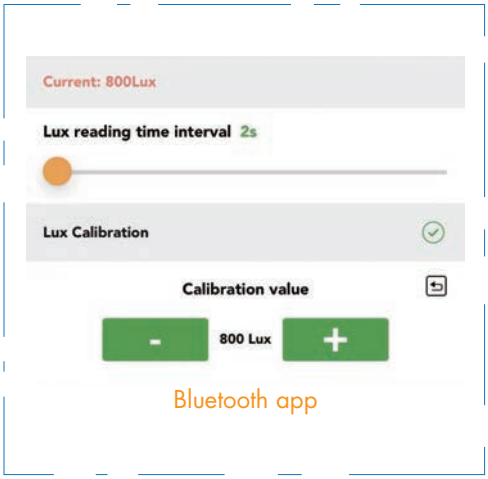


HRC-11

Remote Controller



Bluetooth app



Hytronik Special Feature 3:

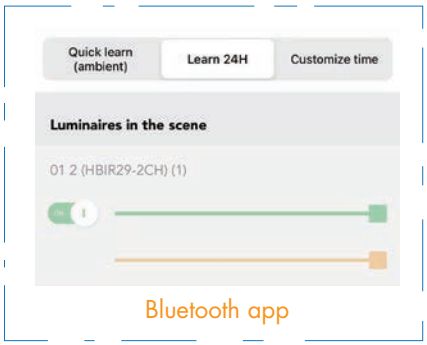
The lux reading from sensor are based on the surrounding lux value around the physical location of the sensor product, rather than the lux value on the table/ground. However, in real applications, user's experience is based on the table/ground most of the time. To solve this problem, Hytronik provides **"calibration"** feature in the Bluetooth app. Before calibration, the target daylight harvest lux value reflects the lighting on ceiling level. But after the calibration, the target daylight harvest lux level will be close to the true experience on the table/ground level. This greatly enhances user experiences, while no complicated commissioning/knowledge will be needed – just done in the app with one touch on "calibration" button!

Hytronik Special Feature 4:

The daylight harvest lux value setup requires user to have a clear target in mind (for example, 500lux as target daylight harvest lux). But not all the users know what lux value should be set as target. To solve this problem, Hytronik provides two solutions to help with the setup.

a) "Daylight Harvest 24h Auto-config" feature:

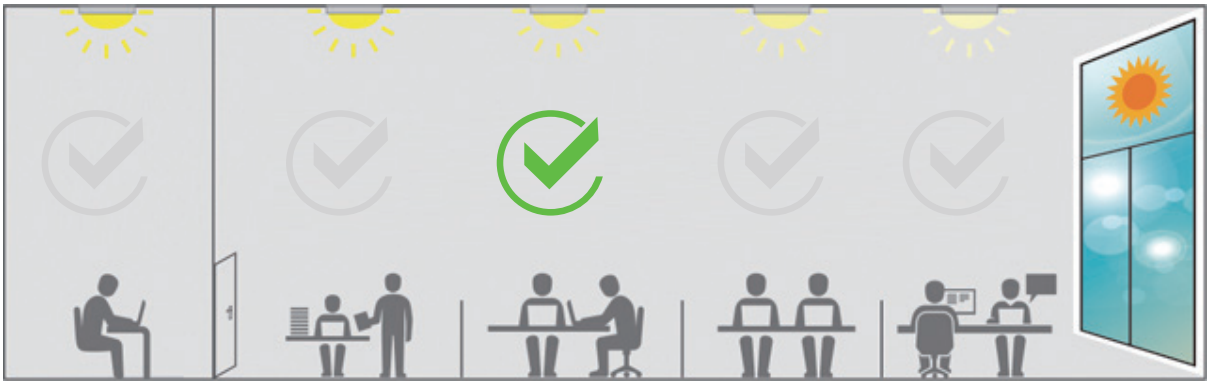
Sometimes, user may find it difficult/troublesome to set daylight harvesting target lux level after installing a daylight harvest control sensor. This feature is on remote controller HRC-11 key botton or Bluetooth app, where users can select different time period options (we suggest to select 24h), and once the sensor receives the learning command the sensor will keep the light constantly on during the entire period. After the period expires, the sensor will **automatically set the optimal target lux level** according to its installation location and ambient lux environment, and user does not need to do any operations during the process!

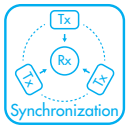


b) "Daylight Harvest Quick Setup" feature:

This is a Hytronik's patented feature in Bluetooth app, where a user is able to **simply tick the check box** to represent the luminaire's location against the window position, so that the daylight harvest is simply done without any complicated commissioning! This super intuitive user interface has made daylight harvesting unprecedentedly easy and convenient!

Hytronik's Patented App Feature: Daylight Harvest Quick Setup



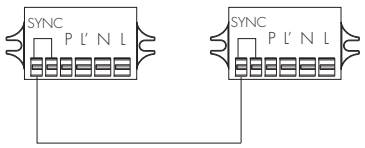


4. Synchronization Control

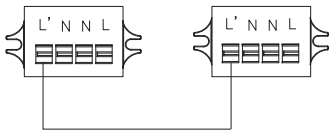
In many cases, several sensors are connected together to control the same fixtures. This requirement places extra demand on the reliability and noise handling capability of such sensors. Hytronik offers this feature with specially designed hardware & software to ignore such interferences and ensure stable operation.

Wired

1) High-voltage Sync Terminal



2) Connecting L' in Parallel

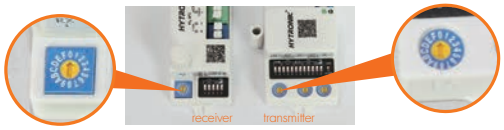


* For this type of usage, there are certain limitations. Please kindly check the precautions in advance with Hytronik team or on the website.

Wireless

1) Bluetooth Mesh Networking

2) RF 433MHz/868MHz FSK

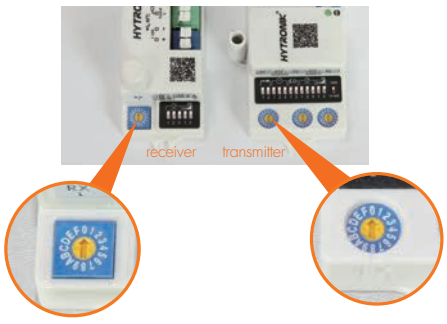


5. RF (Primary & Secondary Control)

This is a combination of motion sensor and RF radio wave wireless transmission, which is a perfect solution for retrofit projects or in areas where wiring for controls is very limited, such as car parks. The motion detected by the transmitter unit can be passed onto other pre-defined receiver units through RF transmission. The RF signal can transmit up to 30 meters indoor and 100 meters in open areas.

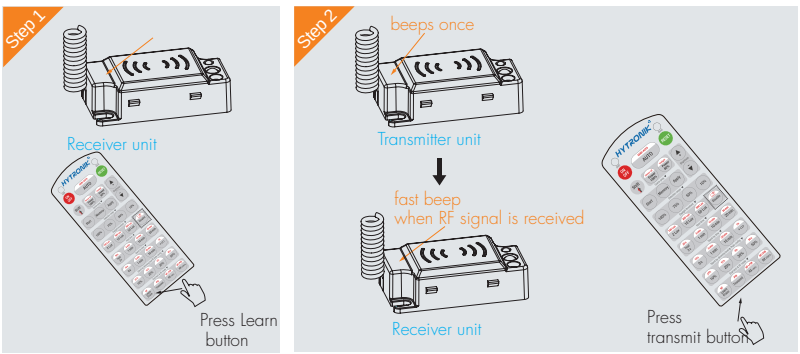
1) Two styles of RF commissioning methods:

RF grouping (Rotary Switch Commissioning)



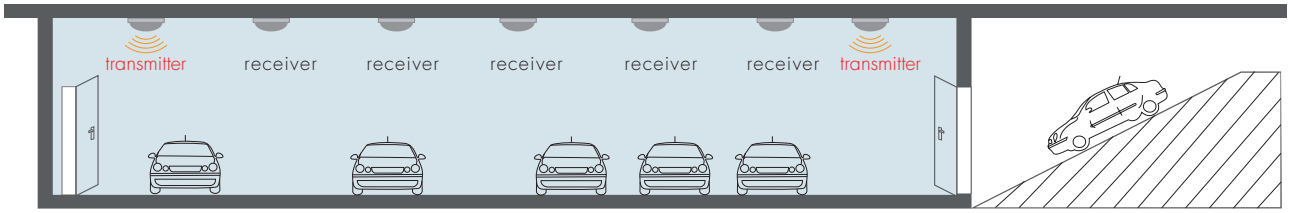
For smaller projects (up to 16 groups within the same transmission range) we offer a rotary switch group selector which allows commissioning by simply selecting the same number on all the units required to talk to each other.

RF grouping (Teach and Learn Commissioning)

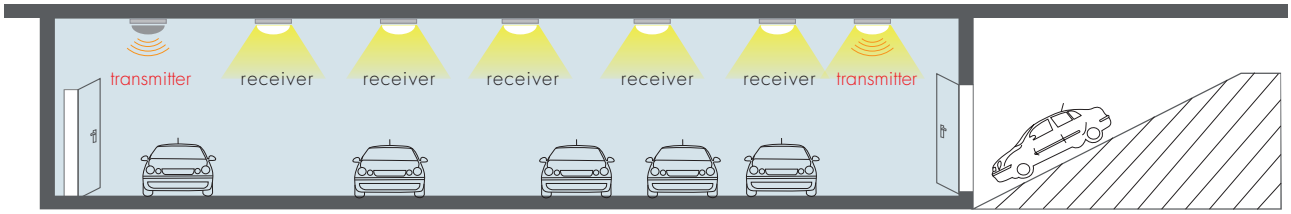


For Larger projects or where more flexibility is required, we employ a "teach and learn" system where commissioning is carried out by use of a remote-control handset. In this system the number of groups is not limited.

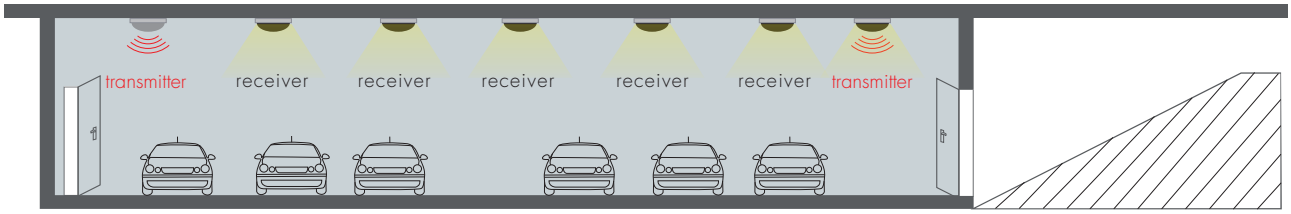
2) Typical Applications for Car Park:



With sufficient natural light, the sensor is not triggered by motion.

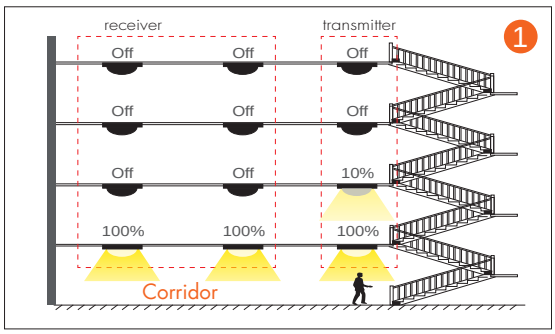


With insufficient natural light, the sensor is triggered by motion, the transmitter switches on the light and send RF signal to all salves.

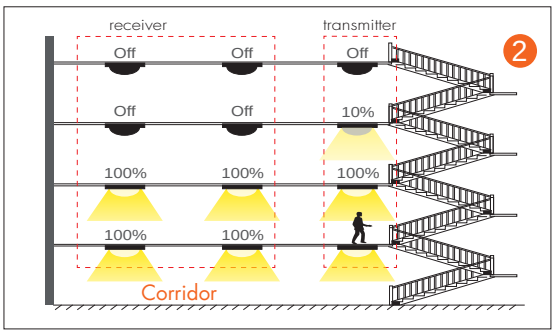


After the hold-time, the whole group of lamps dim to pre-defined dimming level when no movement detected.

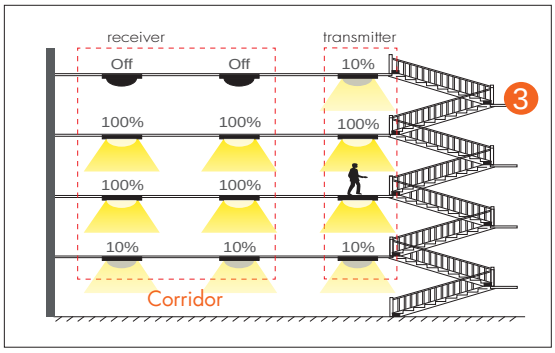
Application: HC018V/RF as transmitter and HC023RF / HC024RF as receiver; or SAM8 / SAM11/I with HC038V / HCD038 as transmitter, HC034RF as receiver.
Note: the lights go off directly after hold-time when controlled by HC023RF.



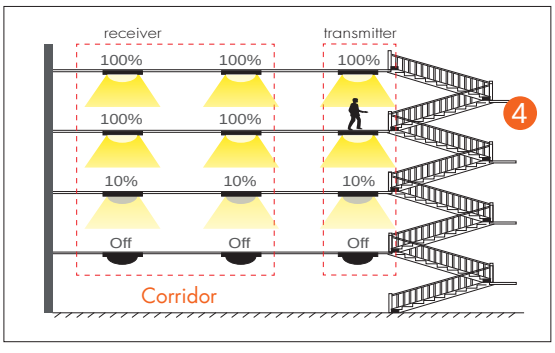
While the 1st sensor detects motion on the 1st floor, it switches the light on 100% and sends signal to all receiver units. All HC024RF on the 1st floor turn on 100% and the HC028V/RF on the 2nd floor goes to stand-by level.



The person walks to the 2nd floor, the 2nd HC028V/RF switches the light on 100%. All HC024RF on the 2nd floor turn the light on 100% and the HC028V/RF on the 3rd floor goes to stand-by level.



When walks to the 3rd floor, the 3rd HC028V/RF switches the light on 100%. All HC024RF on the 3rd floor turn the light on 100% and the HC028V/RF on the 4th floor goes to stand-by level. Meanwhile, the lights on the 1st floor are dimmed to stand-by level after hold-time.



The person walks to the 4th floor, the 4th HC028V/RF switches the light on 100%. All HC024RF on the 4th floor turn the light on 100% and the next HC028V/RF goes to stand-by level. Meanwhile, all sensors on the 1st floor turn the light off after stand-by period, and all lights on the 2nd floor dim to stand-by level after hold-time.

Application: HC028V/RF as both transmitter and receiver, HC023RF / HC024RF as receiver; or SAM8/ SAM11/I as both transmitter and receiver in the staircase, HC034RF as receiver in the corridor.
Note: the lights in the corridor go off directly after hold-time when controlled by HC023RF.

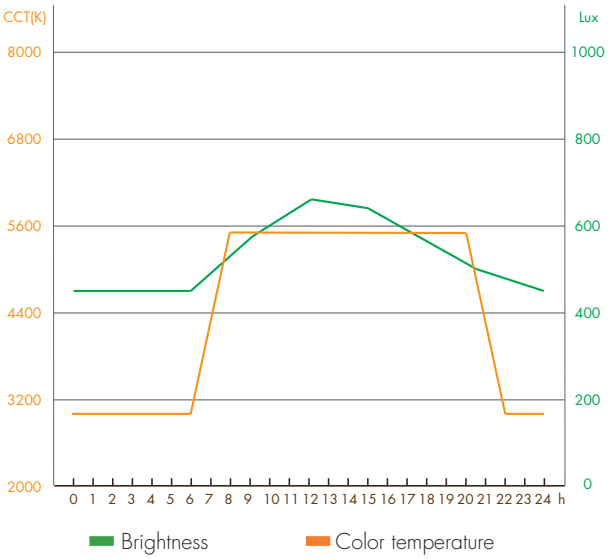
Human Centric Lighting

6. Circadian Rhythm Control (Human Centric Lighting)

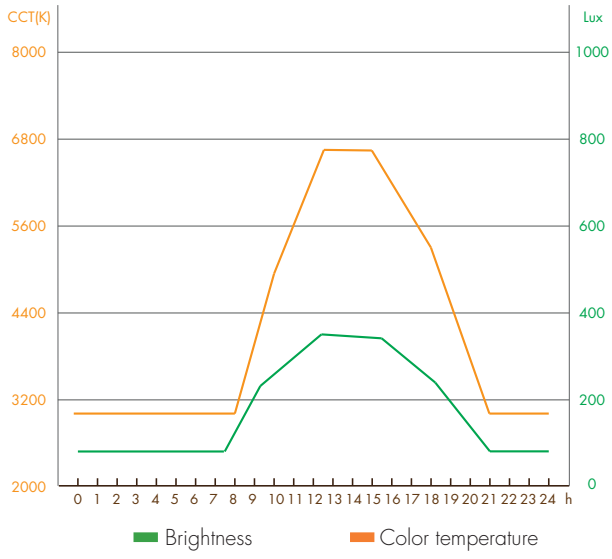
Different from other complex lighting systems, Hytronik offers a simple de-centralized human centric lighting solution for offices, schools and hospitals with the tunable white feature. The solution is based on Bluetooth together with an intuitive and portable app, and does not require any complicated PC tools to set up and configure.

The controlled light output can enhance a user's day-to-day mood, wellbeing, productivity and attention levels. Users can simply choose our pre-programmed curves in the app, or create a new curve with color temperature (CCT) and brightness automatically changing according to the time of day.

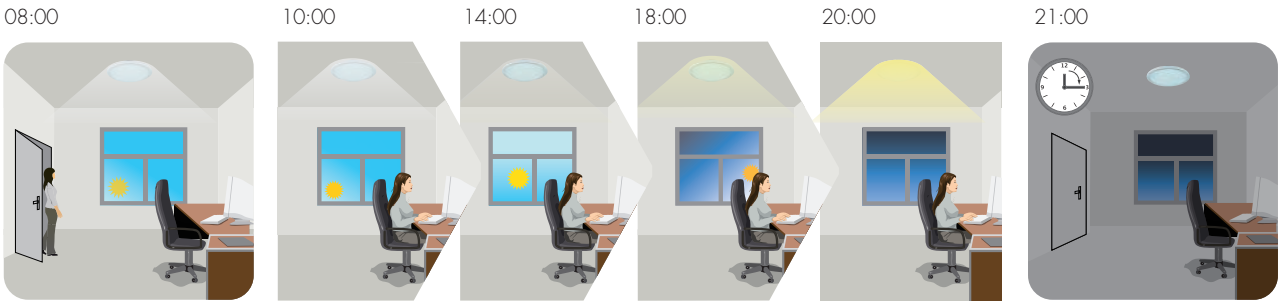
* System default profile for office



* System default profile for healthcare



Office Application

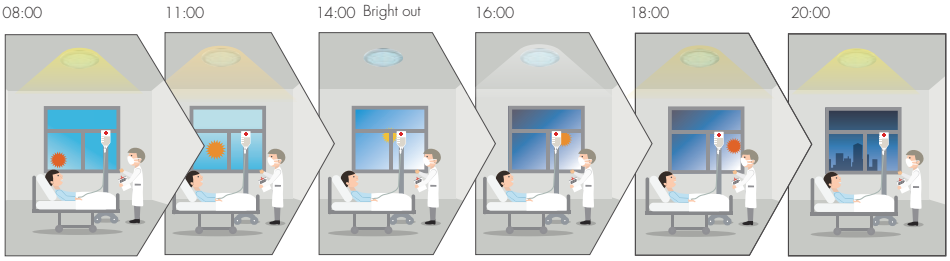


The light switches on automatically with presence when natural light is insufficient.

The light turns on at full or dims to maintain the lux level. The light output regulates accroding to the level of natural light available.

The light switches off completely after stand-by time when there is no movement detected.

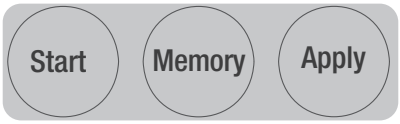
Health Care Application



7. One-key Commissioning

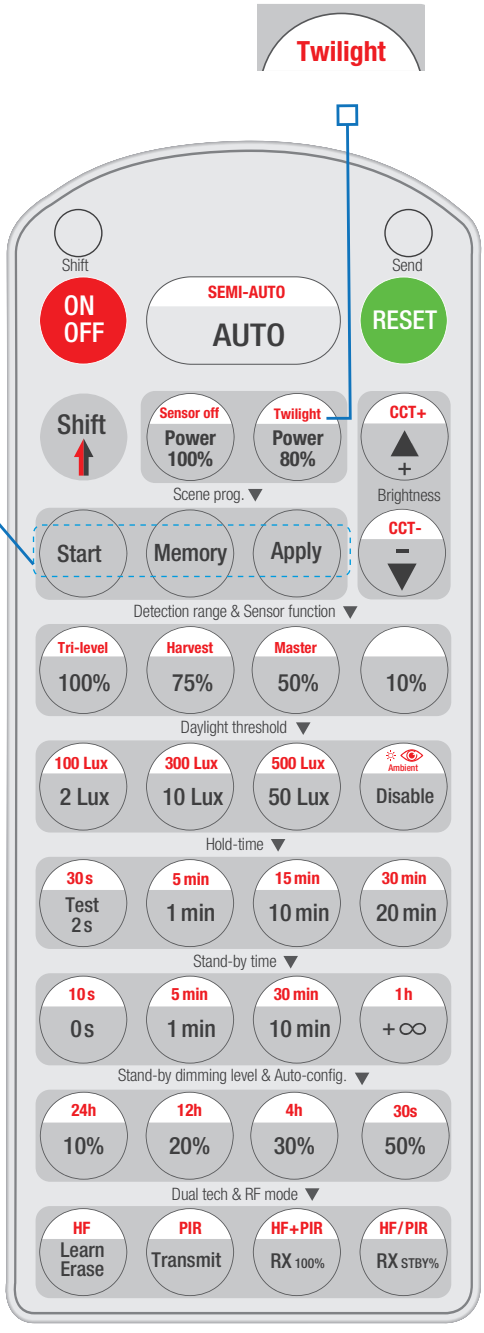
In real-life applications, most of the time all sensor parameters within a same area are needed to have identical sensor parameter setups, for example, same hold-time setp, same stand-by period setup, same daylight sensor setup etc. The use of one-key commissioning feature would save significant time and work for installer and prevent from having to do the same settings to every sensor one by one.

Press "Start" button on the remote controller HRC-11 to program, and then select one parameter setting from "Detection range", "Daylight threshold", "Hold-time", "Stand-by time", "Stand-by dimming level" and press "Memory" button to save this set of parameter settings programmed in the remote controller HRC-11. Then the user will only need to press button "Apply" to set the settings to each sensor unit(s). One-key commissioning is quick, simple, user-friendly, and flexible!



8. Twi-light Mode

There are occasions when the application does not require motion sensor detection and just wants the motion sensor to act as a daylight sensor only. Twi-light is the right feature to serve for such purposes! A press on the "Twi-light" button on the remote controller HRC-11 would disable the motion sensor function, while the function of the photocell is still working and able to perform dusk/dawn switching & daylight harvesting (where applicable).



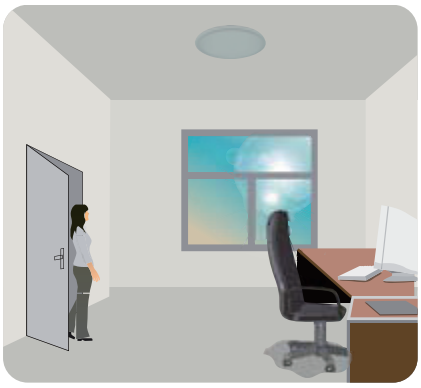
HRC-11

Semi-auto/
Presence Mode

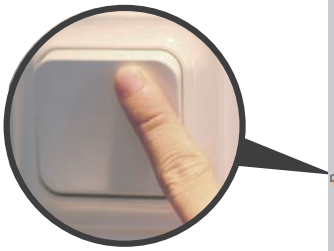
9. Semi-auto Mode (Absence Detection)

It is easy to forget to switch off the light, in office, corridor, even at home. And in many other cases, people do not want to have a sensor to switch on the light automatically, for example, when people just quickly pass-by, there is no need to have the light on. The solution is to apply this "absence detector": motion sensor is employed, but only activated on the maunal press of the push switch, the light keeps being ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

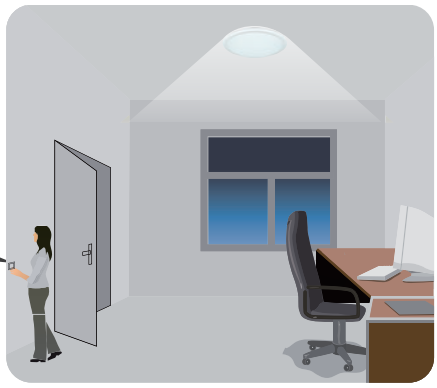
This is a good combination of sensor automation and maunal override control, to have the maximum energy saving, and at the same time, to keep efficient and comfortable lighting.



The light does not switch on when there is presence being detected.

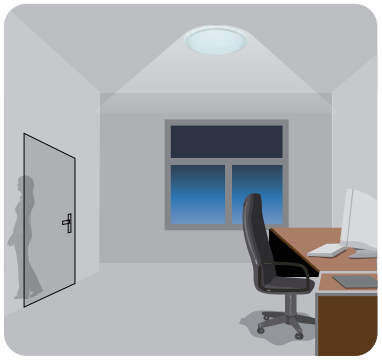


Short push to activate the sensor and switch on the light



The light turns on full, and the sensor stays in sensor mode.

The light keeps being ON during the presence.



People left, the light dims to stand-by level after the hold-time.

The light switches off automatically after the stand-by period elapses.

Manual Override:

The sensor reserves the access of manual override function for end-user to switch on/off, or adjust the target lux level by push-switch, which makes the product more user-friendly and offers more options to fit some extra-ordinary demands:

*** Short Push (<1s): on/off function;**
On → Off: the light turns off immediately and cannot be triggered ON by motion until the expiration of pre-set hold-time. After this period, the sensor goes back to normal sensor mode.
Off → On: the light turns on and goes to sensor mode, no matter if ambient Lux level exceeds the daylight threshold or not.
*** Long Push (>1s):** adjust the target lux level by turning the light up or down. Both the adjustment on App/RC and push switch can overwrite each other, the last adjustment remains in memory.

Note: if end-user do not want this manual override function, just leave the "push" terminal unconnected to any wire.

Note: end-user can choose either absence detection (semi-auto mode) or manual override for application. Default function is manual override.

10. Dual-Sense™ Technology

Microwave (HF) and PIR are the most commonly adapted detection technologies in the lighting control industry. However both detection technologies have their own advantages and disadvantages.

The aim of Hytronik's Dual-Sense™ technology is to make use of the advantages and bypass the disadvantages.

Advantages:

* Sensitive to minor motion;
* Does not require any drillings on the fixture;
* Can be reflected by objects and hence covering big detection area;
* Resilient to heat source, smoke and air conditioner.

Disadvantages:

* Penetrate walls, pick up motions outside of the office area;
* Back wave detection, false trigger by motion from ceiling behind;
* Can be false triggered by ventilation fans, elevators etc. in industrial application.

Advantages:

* No penetration, confined detection area;
* Sensitive to tangential movement;
* Resilient to motion object which has no heat radiation.

Disadvantages:

* Can be false triggered by air conditioner, smoke and other types of heat sources;
* The performance is highly dependent on ambient temperature and different seasons.

Dual-Sense™ technology combines both HF and PIR together, which provides 4 optional detection modes via DIP switch or remote controller:

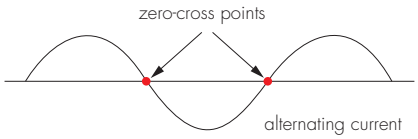
1) HF only
2) PIR only
3) Either HF or PIR – When either detector is triggered, the motion is considered valid and the light will turn on. This is for maximizing the detection capability.
4) Both HF & PIR – Only when both detectors are triggered, the motion is considered valid and the light will turn on. This is for maximizing the detection accuracy and decreasing the detection capability to prevent the sensor from false trigger by heat source, air conditioner, ventilation vans, elevators etc.

This **Dual-Sense™** technology gives installers the flexibility to adjust the sensor on the project, an easy way to trouble shoot onsite. Dual-sense is the ultimate and powerful solution to meet every practical need in real life.

11. Highlight Firmware Features

Zero-cross Relay Operation

Our intelligent software design means our sensors switch the load right at the zero-cross point to minimise inrush current passing through the relay contact point. This enables the maximum load and life-time of the relay to be achieved.



Memory Against Loss of Power

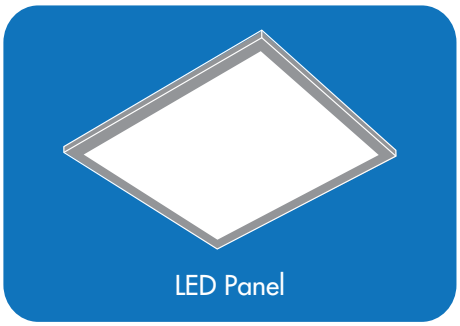
Even if there is unexpected power failure, all the sensor's parameter settings are still memorized inside the chip. When DIP switches and remote controller are used at the same time. The chip remembers the last setting before the loss of power.

Soft-on & Soft-off

Hard on/off switching of the light can be uncomfortable to the eyes. Our built-in soft-on & soft-off feature offers easy-on-the-eye operation of the light fixtures and gives a more elegant feel to the lit environment normally associated with high-end lighting controls. Soft-on & Soft-off also gives less damages to LED driver and help to expand the LED driver's lifespan.

Typical Recommended Applications

Component selection is part of the skill and creativity of the luminaire design engineer, however the illustrations below serve as a guide to the typical applications to which the featured product may be suited, and appear next to relevant products through this brochure.

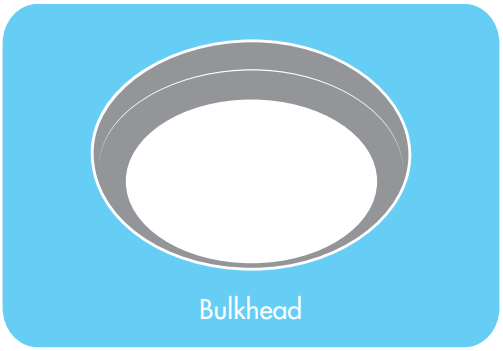


LED Panels or 'Troffers'

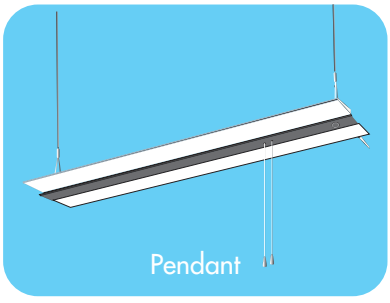
Recessed luminaires for false ceilings typically require control gear products with insulated terminals and cord restraint for safe installation in the ceiling void. Antenna integrations are possible, but usually require comprise with complicated assembly. Hytronik offer discrete flush mount sensors which can be neatly and easily situated next to the luminaire. Further information on our suited product ranges can be found on our website or stand-alone brochure.

Utility Luminaires or Bulkheads

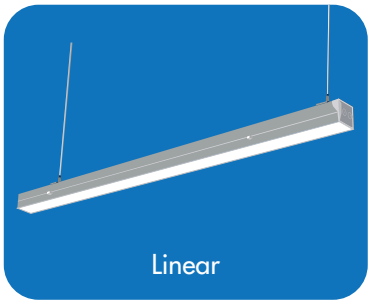
These products usually have restricted space and/or demanding thermal requirements. There are usually also many variants to cover in a given product range whilst trying to remain within a competitive budget. Hytronik serves this customer base and many clients already benefit from our integrated control gear, occupancy sensing and daylight sensing solutions.



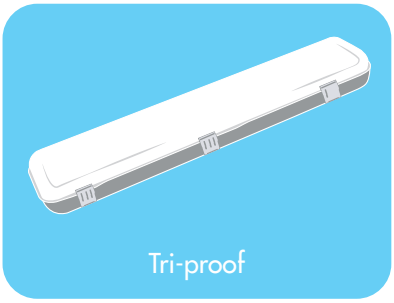
Pendant



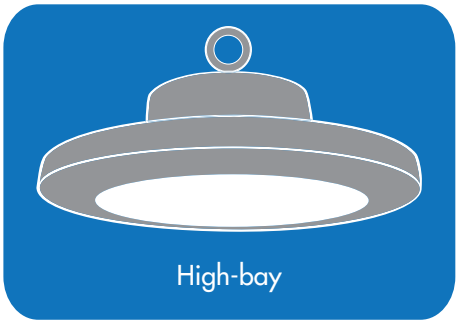
Linear Fixtures



Tri-proof Fixtures



This style represents a wide range of luminaire styles from vapor proof/tri-rated/IP-65 style to utility low-bay batten fixtures and high end architectural suspended fixtures. In terms of control gear the requirements and demands are similar: low profile and thermally robust.



High Power Flood Lights & High Bay Fixtures

These fixtures usually demand a long range sensor in a small space or a means of external mount in an IP54/65 rated package. This brochure covers sensors meant for internal mounting and IP20 'bolt-on' style. For sensors which are IP54/IP65 rated and suitable for externally mounting to the fixture, please refer to our website or stand-alone brochure.

Industrial Lighting

Industrial applications include: warehouse, equipment plant, factory plant etc.

Industrial luminaires mounting infrastructure and wiring limitations demand sensors with innovative and flexible mounting options. Hytronik's solutions provide the designer with freedom to select and implement lighting controls in the most convenient and cost effective manner.

Commercial Lighting

Commercial applications include: car park, hospital, healthcare center, school, shops, hotel, office, meeting room, staircase, corridor etc.

Commercial luminaires present interesting engineering challenges when adding occupancy and lighting controls, with wiring restrictions usually constricting the budgets to provide a reasonable solution. Hytronik's range of sensor selections provide the perfect solution for cost effective functionality and accuracy.

Domestic Lighting

Domestic applications include: residential areas such as private apartment, private house etc.

Great things come in small packages, and the Hytronik's dimmer series is no exception. Whether used for new build, retrofit projects or for lighting manufactures to add intelligent control to standard lighting fixtures. With the synergy of Bluetooth mesh technology and gateway & app support, our extremely versatile range of products does it all!

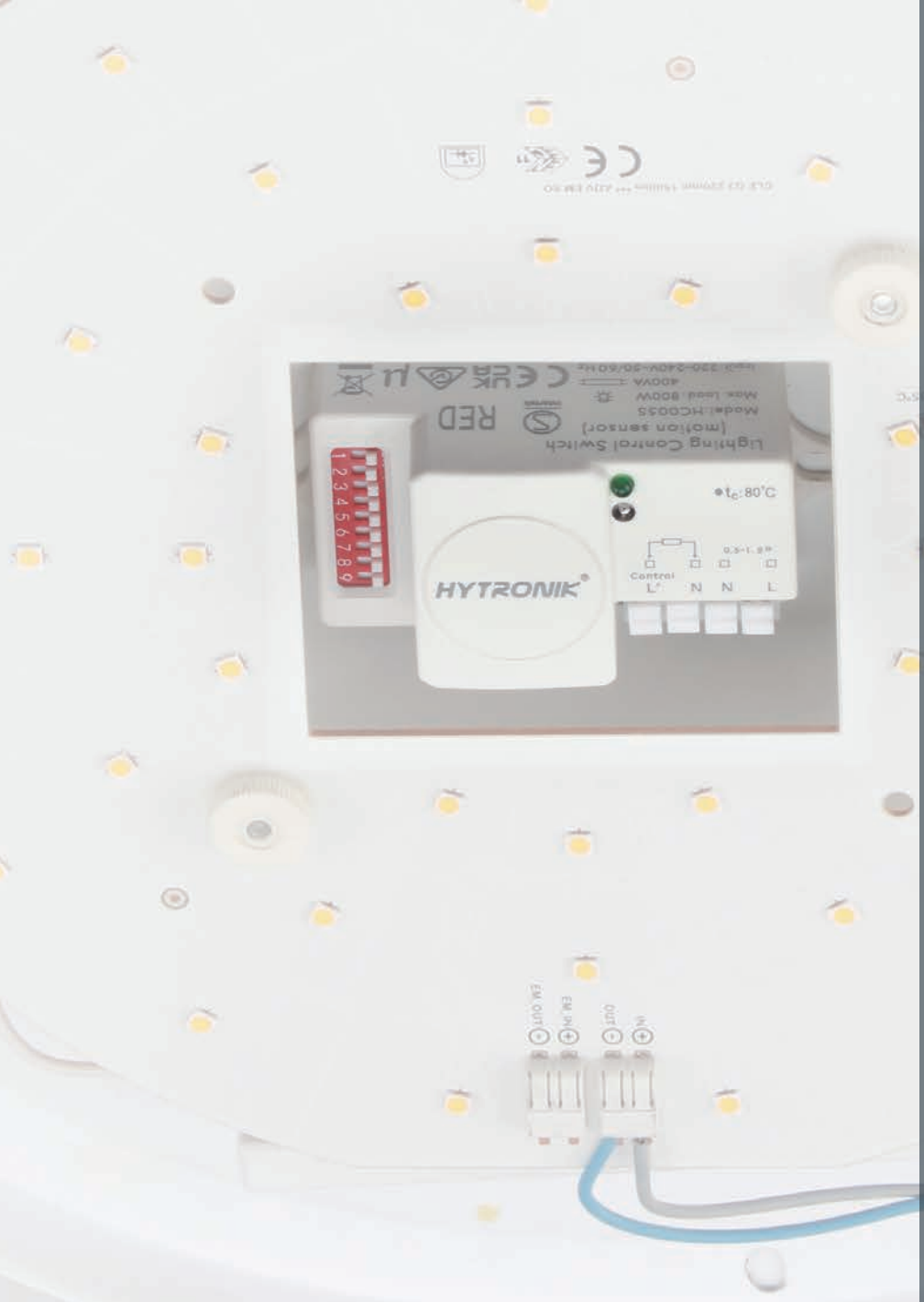
Retrofit Upgrade

Hytronik offers an extended range of products to cater for upgrading existing installations. Simple retrofit devices for instant energy savings to advanced controls utilizing daylight offering enhanced comfort and further energy savings, there is a product to suit every budget.

Furthermore, Hytronik's Bluetooth series and RF series products have significantly reduced the labor costs for wiring thanks to the wireless grouping technology.

HYTRONIK®

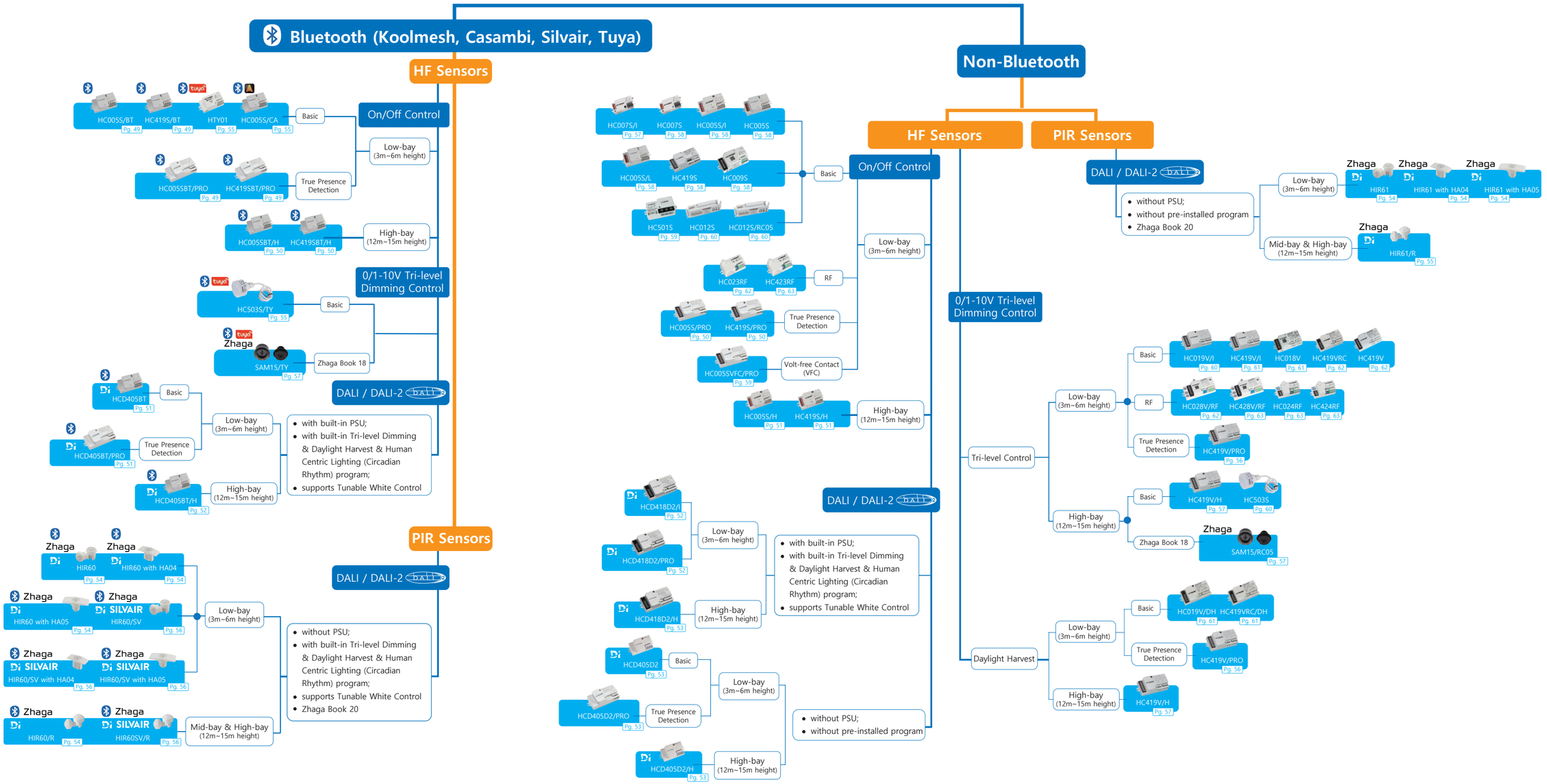
SENSORS & LIGHTING CONTROL



Motion Sensors

Built-in Integrated Design for OEMs

Motion Sensors Quick Guide: Built-in Integrated Design for OEMs



Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	IP Rate	Page
NEW! H005SBT/PRO	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	IP20	49
NEW! HC419SBT/PRO	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	IP20	49
HC005S/BT	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m	IP20	49
HC419S/BT	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m	IP20	49
NEW! HC005SBT/H	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	IP20	50
NEW! HC419SBT/H	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	IP20	50
NEW! HCD405BT/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	IP20	51
NEW! HCD405BT	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m	IP20	51
NEW! HCD405BT/H	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	IP20	52
NEW! HIR60	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest Circadian Rhythm	✓	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	54

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	IP Rate	Page
NEW! HIR60 with HA04	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest Circadian Rhythm	√	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	54
NEW! HIR60 with HA05	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest Circadian Rhythm	√	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	54
NEW! HIR60/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest Circadian Rhythm	√	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m	IP65 (Facial/Lens Part Only)	54
NEW! HTY01	220-240Vac	On/Off 300VA/400W	√ (Tuya)	HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	IP20	55
NEW! SAM15/TY	12Vdc	0-10V Zhaga Book 18 Tri-level Control	√ (Tuya)	HF (New Robust Antenna)	Photodiode			High-bay max. 15m	IP65	57
NEW! HC503S/TY	12Vdc	0-10V	√ (Tuya)	HF (New Robust Antenna)	Photodiode			High-bay max. 15m	IP65	55
NEW! HC005S/CA	220-240Vac	On/Off 400VA/800W	√ (Casambi)	HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	IP20	55
HIR60/SV SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	56
HIR60/SV with HA04 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	56

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	IP Rate	Page
HIR60/SV with HA05 SILVAIR 	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m	IP20	56
HIR60/SV/R SILVAIR 	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20 Tri-level Control Daylight Harvest	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m	IP65 (Facial/Lens Part Only)	56

Overview: Sensors with True Presence/Absence Detection

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	Install Height	Dip-Switch Settings	Remote Controller	Page
NEW! HC005SBT/PRO	220-240Vac	On/Off 300VA/400W	√	HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m			49
NEW! HC419SBT/PRO	120-277Vac	On/Off 350VA/500W	√	HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m			49
NEW! HC005S/PRO	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m	√		50
NEW! HC419S/PRO	120-277Vac	On/Off 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m	√		50
NEW! HCD405BT/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply	√	HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m			51
NEW! HCD418D2/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 50mA Power Supply		HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m	√	√ HRC-11	52
NEW! HCD405D2/PRO	220-240Vac Current Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command		HF (New Robust Antenna)	Photodiode		Low-bay max. 3m			53
NEW! HC419V/PRO	120-277Vac	0-10V Tri-level Control Daylight Harvest 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	√	Low-bay max. 3m	√	√ HRC-11	56
NEW! HC005SVFC/PRO	220-240Vac	On/Off Volt-Free 3.6A @ ⩽240Vac 2A @ ⩽48Vdc		HF	Photocell Advance™	√	Low-bay max. 6m	√		59

Overview: On/Off series

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HC005SBT/PRO	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m			IP20	49
NEW! HC419SBT/PRO	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m			IP20	49
HC005S/BT	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m			IP20	49
HC419S/BT	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m			IP20	49
NEW! HC005SBT/H	220-240Vac	On/Off 300VA/400W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m			IP20	50
NEW! HC419SBT/H	120-277Vac	On/Off 350VA/500W	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m			IP20	50
NEW! HC005S/PRO	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	✓		IP20	50
NEW! HC419S/PRO	120-277Vac	On/Off 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	✓		IP20	50
NEW! HC005S/H	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	✓		IP20	51
NEW! HC419S/H	120-277Vac	On/Off 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	✓		IP20	51
NEW! HTY01	220-240Vac	On/Off 300VA/400W	✓ (Tuya)	HF (New Robust Antenna)	Photodiode			Low-bay max. 6m			IP20	55
NEW! HC005S/CA	220-240Vac	On/Off 400VA/800W	✓ (Casambi)	HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	✓		IP20	55
NEW! HC007S/I	220-240Vac	On/Off 300VA/400W		HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m	✓		IP20	57

Overview: On/Off series

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HC007S	220-240Vac	On/Off 300VA/400W		HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	√		IP20	58
HC005S/I	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photocell Advance™	√		Low-bay max. 6m	√		IP20	58
HC005S	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	√		IP20	58
HC005S/L	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Special PD (IR Only)	Active Lux Switching		Low-bay max. 6m	√		IP20	58
HC419S	120-277Vac	On/Off 1000VA/1600W		HF	Photodiode			Low-bay max. 6m	√		IP20	59
HC009S	220-240Vac	On/Off 400VA/1200W		HF	Photodiode			Low-bay max. 6m	√		IP20	59
NEW! HC005SVFC/PRO	220-240Vac	On/Off Volt-Free 3.6A @ ⩽240Vac 2A @ ⩽48Vdc		HF	Photocell Advance™	√	√	Low-bay max. 6m	√		IP20	59
HC501S	12-48Vdc	On/Off 12V @ ⩽10A 48V @ ⩽2A		HF	Photodiode			Low-bay max. 6m	√		IP20	59
NEW! HC012S	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photodiode			Low-bay max. 6m	√		IP20	60
NEW! HC012S/RC05	220-240Vac	On/Off 400VA/800W		HF (New Robust Antenna)	Photodiode			Low-bay max. 6m		√ HRC-05	IP20	60
HC023RF	220-240Vac	On/Off 400VA/1200W		HF					Rotaty switch		IP20	62
HC423RF	120-277Vac	On/Off 500VA		HF					Rotaty switch		IP20	63

Overview: 0/1-10V Output (tri-level dimming / daylight harvest)

	Input	Output	RF Frequency	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HC419V/PRO	120-277Vac	0-10V Tri-level Control Daylight Harvest 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	✓	✓ HRC-11	IP20	56
HC019V/I	220-240Vac	1-10V Tri-level Control 800VA/1200W		HF	Photocell Advance™	✓		Low-bay max. 6m	✓		IP20	60
HC419V/I	120-277Vac	1-10V Tri-level Control 1000VA/1600W		HF	Photocell Advance™	✓		Low-bay max. 6m	✓		IP20	61
HC019V/DH	220-240Vac	1-10V Daylight Harvest 800VA/1200W		HF	Photocell Advance™	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	61
HC419VRC/DH	120-277Vac	1-10V Daylight Harvest 1000VA/1600W		HF	Photocell Advance™	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	61
HC018V	220-240Vac	1-10V Tri-level Control 800VA/2000W		HF	Photodiode			Low-bay max. 6m	✓		IP20	61
HC419VRC	120-277Vac	1-10V Tri-level Control 1000VA/1600W		HF	Photodiode	Active Lux Switching		Low-bay max. 6m	✓	✓ HRC-05	IP20	62
HC419V	120-277Vac	1-10V Tri-level Control 1000VA/1600W		HF	Photodiode			Low-bay max. 6m	✓		IP20	62
HC419V/H	120-277Vac	0/1-10V Tri-level Control Daylight Harvest 500VA/1000W		HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	✓	✓ HRC-11	IP20	57
HC028V/RF	220-240Vac	1-10V Tri-level Control 400VA/1200W	✓ Transceiver 433MHz/ 868MHz	HF	Photodiode	Active Lux Switching		Low-bay max. 6m	✓ Also with rotaty switch		IP20	62

Overview: 0/1-10V Output (tri-level dimming / daylight harvest)

	Input	Output	RF Frequency	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
HC024RF	220-240Vac	1-10V Tri-level Control 400VA/1200W	✓ Receiver 433MHz/ 868MHz						✓ Also with rotaty switch		IP20	63
HC428V/RF	120-277Vac	1-10V Tri-level Control 500VA	✓ Transceiver 915MHz	HF	Photodiode	Active Lux Switching		Low-bay max. 6m	✓ Also with rotaty switch		IP20	63
HC424RF	120-277Vac	1-10V Tri-level Control 500VA	✓ Receiver 915MHz						✓ Also with rotaty switch		IP20	63
NEW! SAM15/TY	12Vdc	0-10V Zhaga Book 18 Tri-level Control		HF (New Robust Antenna)	Photodiode			High-bay max. 15m			IP65	57
NEW! SAM15/RC05	12Vdc	0-10V Zhaga Book 18 Tri-level Control		HF	Photodiode			High-bay max. 15m		✓ HRC-05	IP65	57
NEW! HC503S/TY	12Vdc	0-10V		HF (New Robust Antenna)	Photodiode			High-bay max. 15m			IP65	55
NEW! HC503S	12Vdc	0-10V		HF	Photodiode			High-bay max. 15m		✓ HRC-05	IP65	60

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HCD405BT/PRO	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	HF (New Robust Antenna)	Photocell Advance™	√	√				IP20	51
NEW! HCD405/BT	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	HF (New Robust Antenna)	Photocell Advance™	√					IP20	51
NEW! HCD405BT/H	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	HF (New Robust Antenna)	Photocell Advance™	√					IP20	52
NEW! HCD418D2/PRO	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√		HF (New Robust Antenna)	Photocell Advance™	√	√		√	√ HRC-11	IP20	52
NEW! HCD418D2/I	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√		HF (New Robust Antenna)	Photocell Advance™	√			√	√ HRC-11	IP20	52
NEW! HCD418D2/H	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√		HF (New Robust Antenna)	Photocell Advance™	√			√	√ HRC-11	IP20	53
NEW! HCD405D2/PRO	220-240Vac Current Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m			IP20	53
NEW! HCD405D2	220-240Vac Current Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode			Low-bay max. 6m			IP20	53
NEW! HCD405D2/H	220-240Vac Current Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode			High-bay max. 15m			IP20	53
NEW! HIR60	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54
NEW! HIR60 with HA04	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HIR60 with HA05	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54
NEW! HIR60/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m			IP65 (lens/ facia part)	54
NEW! HIR61	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode			Low-bay max. 3m			IP20	54
NEW! HIR61 with HA04	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode			Low-bay max. 3m			IP20	54
NEW! HIR61 with HA05	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode			Low-bay max. 3m			IP20	54
NEW! HIR61/R	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode			Mid-bay max. 12m			IP65 (lens/ facia part)	55
HIR60/SV SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest		√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV with HA04 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest		√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV with HA05 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest		√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV/R SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest		√ (Silvair)	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m			IP65 (lens/ facia part)	56

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
NEW! HCD405BT/PRO	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m			IP20	51
NEW! HCD405/BT	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m			IP20	51
NEW! HCD405BT/H	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m			IP20	52
NEW! HCD418D2/PRO	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell Advance™	✓	✓	Low-bay max. 3m	✓	✓ (Silvair)	IP20	52
NEW! HCD418D2/I	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell Advance™	✓		Low-bay max. 6m	✓	✓ (Silvair)	IP20	52
NEW! HCD418D2/H	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell Advance™	✓		High-bay max. 15m	✓	✓ (Silvair)	IP20	53
NEW! HIR60	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54
NEW! HIR60 with HA04	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54
NEW! HIR60/R with HA05	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	54
NEW! HIR60/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	✓	✓	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m			IP65 (lens/ facia part)	54

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Pro-active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Page
HIR60/SV SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV with HA04 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV with HA05 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Low-bay max. 3m			IP20	56
HIR60/SV/R SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching		Mid-bay max. 12m			IP65 (lens/ facia part)	56

Overview: RF (primary & secondary control)

	Input	Output	RF Frequency	Primary Control	Secondary Control	True Presence Detection	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch Settings	Page
HC028V/RF	220-240Vac	1-10V Tri-level control 400VA/1200W	√ Transceiver 433MHz/868MHz	√	√	HF	Photodiode	Active Lux Switching	Low-bay max. 6m	√ Also with rotaty switch	62
HC023RF	220-240Vac	On/Off 400VA/1200W	√ Receiver 433MHz/868MHz		√	HF				Rotaty switch	62
HC024RF	220-240Vac	1-10V Tri-level control 400VA/1200W	√ Receiver 433MHz/868MHz		√					√ Also with rotaty switch	63
HC428V/RF	120-277Vac	1-10V Tri-level control 500VA	√ Transceiver 915MHz	√	√	HF	Photodiode	Active Lux Switching	Low-bay max. 6m	√ Also with rotaty switch	63
HC423RF	120-277Vac	On/Off 500VA	√ Receiver 915MHz		√	HF				Rotaty switch	63
HC424RF	120-277Vac	1-10V Tri-level control 500VA	√ Receiver 915MHz		√					√ Also with rotaty switch	63

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	True Presence Detection	Daylight Sensor	Pro-active Lux Switching	Install Height		Dip-Switch Settings	Remote Controller	IP Rate	Page
									Mid-bay	High-bay				
NEW! HC005SBT/H	220-240Vac	On/Off 300VA/400W			√	HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m			IP20	50
NEW! HC419SBT/H	120-277Vac	On/Off 350VA/500W			√	HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m			IP20	50
NEW! HC005S/H	220-240Vac	On/Off 400VA/800W				HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m	√		IP20	51
NEW! HC419S/H	120-277Vac	On/Off 500VA/1000W				HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m	√		IP20	51
NEW! HCD405BT/H	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m			IP20	52
NEW! HCD418D2/H	220-240Vac	DALI-2 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√		HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m	√	√ HRC-11	IP20	53
NEW! HCD405D2/H	220-240Vac Current Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode			√ max. 15m			IP20	53
NEW! HIR60/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching	√ max. 12m				IP65 (lens/ facia part)	54
NEW! HIR61/R	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode		√ max. 12m				IP65 (lens/ facia part)	55
HIR60/SV/R SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching	√ max. 12m				IP65 (lens/ facia part)	56

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	True Presence Detection	Daylight Sensor	Pro-active Lux Switching	Install Height		Dip-Switch Settings	Remote Controller	IP Rate	Page
									Mid-bay	High-bay				
NEW! HC503S/TY	12Vdc	0-10V			√ (Tuya)	HF (New Robust Antenna)	Photodiode			√ max. 15m			IP65	55
NEW! HC503S	12Vdc	0-10V				HF	Photodiode			√ max. 15m		√ HRC-05	IP65	60
NEW! SAM15/TY	12Vdc	0-10V Zhaga Book 18	Tri-level Control		√ (Tuya)	HF (New Robust Antenna)	Photodiode			√ max. 15m			IP65	57
NEW! SAM15/RC05	12Vdc	0-10V Zhaga Book 18	Tri-level Control			HF	Photodiode			√ max. 15m		√ HRC-05	IP65	57
NEW! HC419V/H	120-277Vac	1-10V 500VA/1000W	Tri-level Control Daylight Harvest			HF (New Robust Antenna)	Photocell Advance™	√		√ max. 15m	√	√ HRC-11	IP20	57

Overview: Zhaga Connection

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	True Presence Detection	Daylight Sensor	Pro-active Lux Switching	Install Height			Remote Controller	IP Rate	Page
									Low-bay	Mid-bay	High-bay			
NEW! HIR60	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	54
NEW! HIR60 with HA04	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	54
NEW! HIR60 with HA05	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	54
NEW! HIR60/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	PIR	Photodiode	Active Lux Switching		√ max. 12m			IP65 (lens/ facia part)	54
NEW! HIR61	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode		√ max. 3m				IP20	54
NEW! HIR61with HA04	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode		√ max. 3m				IP20	54
NEW! HIR61with HA05	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode		√ max. 3m				IP20	54
NEW! HIR61/R	9.5-22.5Vdc Current Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20				PIR	Photodiode			√ max. 12m			IP65 (lens/ facia part)	55
HIR60/SV SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	56
HIR60/SV with HA04 SILVAIR	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	56

Overview: Zhaga Connection

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh	True Presence Detection	Daylight Sensor	Pro-active Lux Switching	Install Height			Remote Controller	IP Rate	Page
									Low-bay	Mid-bay	High-bay			
HIR60/SV with HA05	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching	√ max. 3m				IP20	56
HIR60/SV/R	9.5-22.5Vdc Current Consumption Max. 30mA from DALI Bus	DALI/DALI-2 Command with Zhaga Book 20	Tri-level Control Daylight Harvest	√	√ (Silvair)	PIR	Photodiode	Active Lux Switching		√ max. 12m			IP65 (lens/ facia part)	56
NEW! SAM15/TY	12Vdc	0-10V Zhaga Book 18	Tri-level Control		√ (Tuya)	HF (New Robust Antenna)	Photodiode				√ max. 15m		IP65	57
NEW! SAM15/RC05	12Vdc	0-10V Zhaga Book 18	Tri-level Control			HF	Photodiode				√ max. 15m	√ HRC-05	IP65	57

NEW! HC005SBT/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø = 8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW! HC419SBT/PRO

Technical Data & Specifications

- Input: 120V-277VAC 50/60Hz
- Output (Max Loading): 350VA capacitive / 500W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

HC005S/BT

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

HC419S/BT

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 120V-277VAC 50/60Hz
- Output (Max Loading): 350VA capacitive / 500W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HC005SBT/H

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

High-bay

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 14m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HC419SBT/H

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 120V-277VAC 50/60Hz
- Output (Max Loading): 350VA capacitive / 500W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

High-bay

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 14m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HC005S/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- True presence detection technology (*See pg. 12)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HC419S/PRO

Technical Data & Specifications

- Input: 120V-277VAC 50/60Hz
- Output (Max Loading): 500VA capacitive / 1000W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

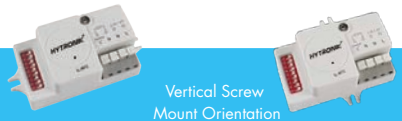
Features & Functions

- True presence detection technology (*See pg. 12)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

Full Product Specifications - - - HC005S/H & HC419S/H & HC405SBT/PRO & HC405S/BT

NEW!

HC005S/H



Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -20°C ~ +50°C; Tc: +75°C

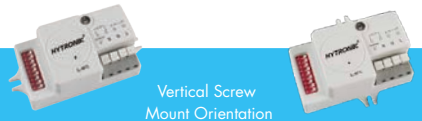
Suitable for: Bulkhead, Tri-proof, High-bay

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =26m (forklift) / 16m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HC419S/H



Technical Data & Specifications

- Input: 120V-277VAC 50/60Hz
- Output (Max Loading): 500VA capacitive / 1000W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for: Bulkhead, Tri-proof, High-bay

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =26m (forklift) / 16m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD405BT/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 30mA Power Supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for: Bulkhead, Tri-proof

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Human Centric Lightng / Circadian rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD405/BT

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 30mA Power Supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for: Bulkhead, Tri-proof

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Human Centric Lightng / Circadian rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD405BT/H

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 30mA Power Supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD418D2/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 50mA Power Supply
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Features & Functions

- True presence detection technology (*See pg. 12)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-11

NEW!

HCD418D2/I

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 50mA Power Supply
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +80°C

Suitable for

Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-11

NEW!

HCD418D2/H

HRC-11

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 50mA Power Supply
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead | Tri-proof | High-bay

Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-11

NEW!

HCD405D2/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 Command
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead | Tri-proof

Features & Functions

- True presence detection technology (*See pg. 12)
- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD405D2

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 Command
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead | Tri-proof

Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HCD405D2/H

Horizontal Screw Mount Orientation

Vertical Screw Mount Orientation

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 Command
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for

Bulkhead | Tri-proof | High-bay

Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW!

HIR60

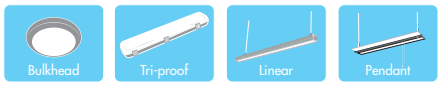
White Housing Version

Transparent Housing Version

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 30mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

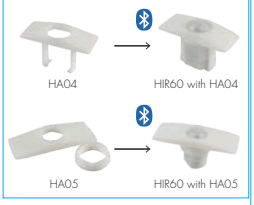
Suitable for



Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 without power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Human Centric Lightng / Circadian rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm
- Conduit thread: M22 * 1.5mm
- Sensor settings via mobile/tablet app & PC web platform
- Optional plastic housing accessory HA04 & HA05

Optional Accessory



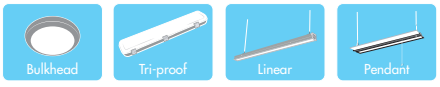
NEW!

HIR60/R

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 30mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for



Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 without power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Human Centric Lightng / Circadian rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Support D4i driver and collect energy, fault & diagnostics data
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36.5mm * 43.4mm
- Conduit thread: M22 * 1.5mm
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated for facia / lens part

NEW!

HIR61

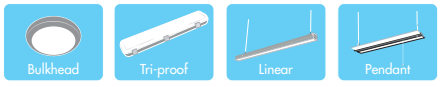
White Housing Version

Transparent Housing Version

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 12mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for



Features & Functions

- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm
- Conduit thread: M22 * 1.5mm
- Optional plastic housing accessory HA04 & HA05

Optional Accessory

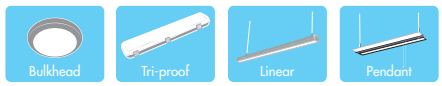
NEW!

HIR61/R

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 12mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for



Features & Functions

- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Daylight sensor: Photodiode (PD)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36.5mm * 43.4mm
- Conduit thread: M22 * 1.5mm
- IP65 rated for facia / lens part

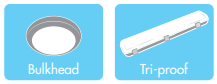
NEW!

HTY01

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Operation temperature: -20°C ~ +60°C

Suitable for



Features & Functions

- Tuya Bluetooth® module built-in
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.4mm * 36.5mm * 23.5mm
- Sensor settings via Tuya mobile/tablet app & PC web platform

NEW!

HC503S/TY

Technical Data & Specifications

- Input: 12VDC
- Output: 0-10V analogue signal
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +60°C

Suitable for

Features & Functions

- Tuya Bluetooth® module built-in
- 0-10V Dimming Control
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: (Back Entry) Ø * H = 45mm * 60.6mm
  (Side Entry) Ø * H = 45mm * 27mm
- Sensor settings via Tuya mobile/tablet app & PC web platform
- IP65 rated

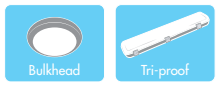
NEW!

HC005S/CA

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for



Features & Functions

- Casambi Bluetooth® module built-in
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via Casambi mobile/tablet app & PC web platform
- Optional horizontal / vertical screw mount orientation (horizontal as default)

NEW! HIR60/SV SILVAIR

White Housing Version

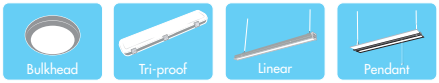
Transparent Housing Version

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 30mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Optional Accessory

Suitable for



Features & Functions

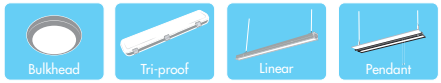
- Silvair Bluetooth® module built-in
- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 broadcast with power supply unit built-in
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm
- Conduit thread: M22 * 1.5mm
- Sensor settings via Silvair mobile/tablet app & PC web platform

NEW! HIR60/SV/R SILVAIR

Technical Data & Specifications

- Input: 9.5-22.5VDC
- Current Consumption: Max. 30mA from DALI Bus
- Output: DALI/DALI-2 Command
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for



Features & Functions

- Silvair Bluetooth® module built-in
- Connecting to luminaires with Zhaga Book 20 connection
- DALI-2 broadcast with power supply unit built-in
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36.5mm * 43.4mm
- Conduit thread: M22 * 1.5mm
- Sensor settings via Silvair mobile/tablet app & PC web platform
- IP65 rated for facia / lens part

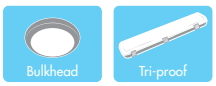
NEW! HC419V/PRO

HRC-11

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 500VA capacitive / 1000W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C; Tc: +75°C

Suitable for



Features & Functions

- True presence detection technology (*See pg. 12)
- 0-10V dimming control with relay output
- Tri-level Dimming & Daylight Harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Switch-Dim (PUSH) & Sync terminal
- Sensor settings via DIP-Switches & handset HRC-11

NEW! SAM15/RC05

HRC-05

Technical Data & Specifications

- Input: 12VDC
- Output: 5V 1kHz PWM / 0-10V analogue signal
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +60°C

Suitable for

High-bay

Features & Functions

- 0-10V dimming control
- Connecting to luminaires with Zhaga Book 18 connection
- Optional output: 5V 1kHz PWM / 0-10V selectable
- Tri-level Dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 37.8mm * 38.5mm (Ø =38.8mm)
- Sensor settings via handset HRC-05
- IP65 rated

NEW! SAM15/TY

Technical Data & Specifications

- Input: 12VDC
- Output: 5V 1kHz PWM / 0-10V analogue signal
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +60°C

Suitable for

High-bay

Features & Functions

- Tuya Bluetooth® module built-in
- Robust HF antenna design against wireless interference (*See pg. 13)
- 0-10V dimming control
- Connecting to luminaires with Zhaga Book 18 connection
- Optional output: 5V 1kHz PWM / 0-10V selectable
- Tri-level Dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 37.8mm * 38.5mm (Ø =38.8mm)
- IP65 rated

NEW! HC419V/H

HRC-11

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 500VA capacitive / 1000W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- 1-10V dimming control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =26m (forklift) / 16m (human)
- Size: L * W * H = 102mm * 45mm * 28mm
- Switch-Dim (PUSH) & Sync terminal
- Sensor settings via DIP-Switches & handset HRC-11

NEW! HC007S/I

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +60°C; Tc: +75°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 60mm * 26mm * 22.5mm
- Sensor settings via DIP-Switches

NEW! HC007S

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 300VA capacitive / 400W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -20°C ~ +60°C; Tc: +75°C

Suitable for

Features & Functions

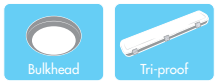
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 60mm * 26mm * 22.5mm
- Sensor settings via DIP-Switches

NEW! HC005S/I

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

HC005S

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

HC005S/L

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160µs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Special Photodiode (read IR only)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 80.5mm * 36.5mm * 26mm
- Sensor settings via DIP-Switches
- Optional horizontal / vertical screw mount orientation (horizontal as default)

HC419S

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA capacitive / 1600W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches

HC009S

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +85°C

Suitable for

Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 98mm * 43mm * 30mm
- Sensor settings via DIP-Switches

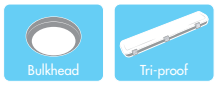
NEW!

HC005SVFC/PRO

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 3.6A@≤240VAC, 2A@≤48VDC
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

- True presence detection technology (*See pg. 12)
- Robust HF antenna design against wireless interference (*See pg. 13)
- On/Off control with relay output
- VFC: Volt-free Contact / Dry Contact
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches

HC501S

Technical Data & Specifications

- Input: 12-48VDC
- Output (Max Loading): 12V@≤10A, 48V@≤2A
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 103mm * 52.4mm * 29.3mm
- Sensor settings via DIP-Switches

NEW!

HC503S

Technical Data & Specifications

- Input: 12VDC
- Output: 0-10V analogue signal
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +60°C

Suitable for

Features & Functions

- 0-10V Dimming Control
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: (Back Entry) Ø * H = 45mm * 60.6mm
  (Side Entry) Ø * H = 45mm * 27mm
- Sensor settings via handset HRC-05
- IP65 rated

NEW!

HC012S

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +60°C; Tc: +75°C

Suitable for

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 97.6mm * 22.5mm * 26.5mm
- Sensor settings via DIP-Switches

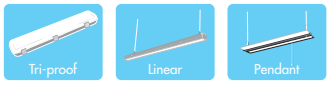
NEW!

HC012S/RC05

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 10s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +60°C; Tc: +75°C

Suitable for



Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 97.6mm * 22.5mm * 26.5mm
- Sensor settings via handset HRC-05

HC019V/I

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches
- Sync terminal

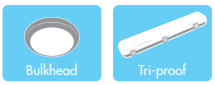
Full Product Specifications - - - HC419V/I & HC019V/DH & HC419VRC/DH & HC018V

HC419V/I

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches
- Sync terminal

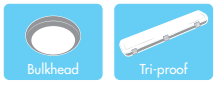
HC019V/DH

HRC-11

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +60°C; Tc: +80°C

Suitable for



Features & Functions

- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-11
- Switch-Dim (PUSH) & Sync terminal

HC419VRC/DH

HRC-11

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +60°C; Tc: +80°C

Suitable for

Features & Functions

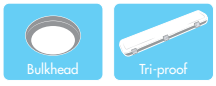
- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Pro-active Daylight Harvesting technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-11
- Switch-Dim (PUSH) & Sync terminal

HC018V

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 2000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -35°C ~ +70°C; Tc: +85°C

Suitable for



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 54mm * 28mm
- Sensor settings via DIP-Switches
- Switch-Dim (PUSH) terminal

HC419VRC

HRC-05

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +60°C; Tc: +80°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches & handset HRC-05
- Switch-Dim (PUSH) & Sync terminal

HC419V

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 102mm * 45mm * 28mm
- Sensor settings via DIP-Switches
- Sync terminal

HC028V/RF

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK433MHz/FSK868MHz
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 102mm * 54mm * 28mm
- Sensor settings via DIP-Switches
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Switch-Dim (PUSH) terminal

HC023RF

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Bulkhead

Tri-proof

Features & Functions

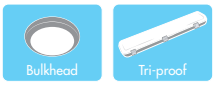
- On/Off control with relay output
- RF receiver
- RF frenquency options: FSK433MHz/FSK868MHz
- Daylight sensor: NA
- Size: L * W * H = 82mm * 38mm * 38.3mm
- Rotary Switch for quick RF channel pair (*See pg. 22-23)

HC024RF

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

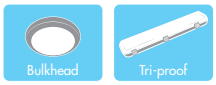
- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF receiver
- RF frenquency options: FSK433MHz/FSK868MHz
- Daylight sensor: NA
- Size: L * W * H = 87mm * 37.5mm * 38.3mm
- Receiver settings via DIP-Switches
- Rotary Switch for quick RF channel pair (*See pg. 22-23)

HC428V/RF

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 500VA
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK915MHz
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =10m (diameter)
- Size: L * W * H = 114.5mm * 54mm * 27.5mm
- Sensor settings via DIP-Switches
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Switch-Dim (PUSH) terminal

HC423RF

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 500VA
- Warming-up period: 20s
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for

Features & Functions

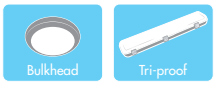
- On/Off control with relay output
- RF receiver
- RF frenquency options: FSK915MHz
- Daylight sensor: NA
- Size: L * W * H = 82mm * 38mm * 38.3mm
- Rotary Switch for quick RF channel pair (*See pg. 22-23)

HC424RF

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 500VA
- Warming-up period: 20s
- Max withstandable in-rush current: 80A@160μs
- Ta: -35°C ~ +70°C; Tc: +80°C

Suitable for



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF receiver
- RF frenquency options: FSK915MHz
- Daylight sensor: NA
- Size: L * W * H = 87mm * 37.5mm * 38.3mm
- Receiver settings via DIP-Switches
- Rotary Switch for quick RF channel pair (*See pg. 22-23)

HYTRONIK®

SENSORS & LIGHTING CONTROL

Motion Sensors

Built-in Detachable Sensor Head Design for OEMs

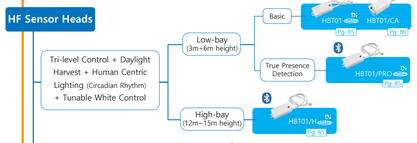
Motion Sensors Quick Guide: Detachable Sensor Head Design

Bluetooth (Koolmesh, Casambi, Tuya)

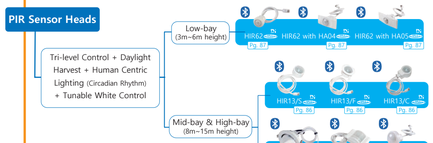
Bluetooth in Sensor Head (ideal for metal luminaires)

Free Combination!

HF Sensor Heads



PIR Sensor Heads

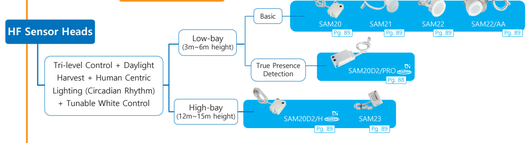


Receiver Node Only (without motion sensor)

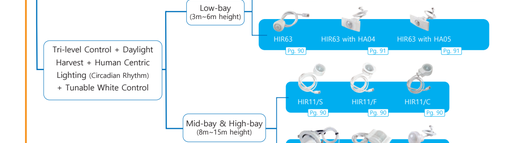
Bluetooth in Control Base (ideal for plastic luminaires)

Free Combination!

HF Sensor Heads



PIR Sensor Heads



Not Connected to Any Sensor Head

Bluetooth Receiver Node Only (Without Motion Sensor)

No Control Base Needed

(PWM or 0-10V output for use with 3rd party LED Driver)

HF Sensor Head

Tri-level Dimming Control

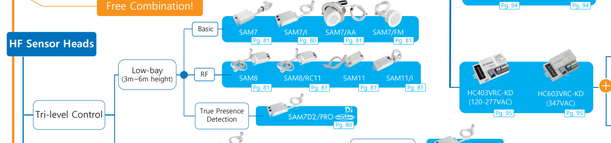
Non-Bluetooth

Dimming Control

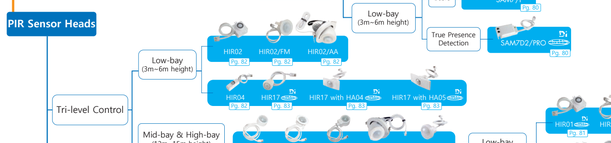
Linear Shaped Control Base

Free Combination!

HF Sensor Heads



PIR Sensor Heads



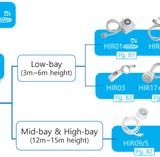
Rectangular Shaped Control Base

HF Sensor Head

0/1-10V Tri-level Dimming Control

Daylight Harvest

Daylight Harvest

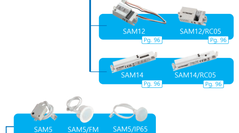


No Control Base Needed

(PWM or 0-10V output for use with 3rd party LED Driver)

HF Sensor Head

Tri-level Dimming Control

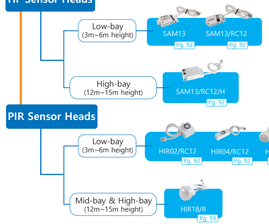


On/Off Control

Linear Shaped Control Base

Free Combination!

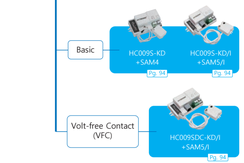
HF Sensor Heads



PIR Sensor Heads

Rectangular Shaped Control Base

HF Sensor Head



Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
SAM4 Size: L * W * H= 30.7mm * 25.5mm * 12mm		HF		Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	DIP-Switch	IP20	HC009S-KD HC403V-KD HEC9025 HEC9425	94
SAM5 Size: L * W * H= 30.7mm * 25.2mm * 13mm		HF		Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	HC403VRC-KD HC603VRC-KD HEC7030 HEC7430	95
SAM5/I Size: L * W * H= 34.7mm * 25.2mm * 15.5mm		HF		Tri-level Dimming		Photocell Advance™	✓	Low-bay max. 6m	Romete Controller HRC-11	IP20	HC009S/KD-I HC009SDC-KD/I HC403VRC-KD/I HEC9025/I	94
SAM5/FM Size: Ø * H= 48mm * 20.3mm		HF		Tri-level Dimming Flush Mount		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	HC403VRC-KD HC603VRC-KD HEC7030 HEC7430	95
SAM5/AA Size: Ø * H= 90mm * 75mm		HF		Tri-level Dimming Adjustable Angle		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	HC403VRC-KD HC603VRC-KD HEC7030 HEC7430	95
SAM5/IP65 Size: Ø * H= 41mm * 19.3mm		HF		Tri-level Dimming Conduit Mount		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP65	HC403VRC-KD HC603VRC-KD HEC7030 HEC7430	95
SAM6 Size: L * W * H= 45.2mm * 32.5mm * 26.5mm		HF		Tri-level Dimming		Photodiode	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-05	IP20	HC403VRC-KD HC603VRC-KD	95
NEW! SAM7D2/PRO Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)	✓	Tri-level Dimming Daylight Harvest	✓	Photocell Advance™	✓	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	80
NEW! SAM7D2/H Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest	✓	Photocell Advance™	✓	High-bay max. 15m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	80
NEW! SAM7/I Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest	✓	Photocell Advance™	✓	Low-bay max. 6m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	80

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
SAM7 Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series HEM09 HEM09H	81
SAM7/FM Size: Ø * H= 48mm * 20.3mm		HF (New Robust Antenna)		Tri-level Dimming Flush Mount		Photocell	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series HEM09 HEM09H	81
SAM7/AA Size: Ø * H= 90mm * 75mm		HF (New Robust Antenna)		Tri-level Dimming Adjustable Angle		Photocell	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series HEM09 HEM09H	81
SAM8 Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming RF Primary & Secondary		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-04	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
SAM8/RC11 Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming RF Primary & Secondary		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
SAM9 Size: L * W * H= 30.7mm * 25.2mm * 12mm		HF		Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m		IP20	HC403VRC-KD HC603VRC-KD HEC7030 HEC7430	95
SAM11 Size: L * W * H= 71.5mm * 31.7mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming RF Primary & Secondary		Photodiode	Active Lux Switching	Low-bay max. 6m	Rotary Switch & Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
SAM11/I Size: L * W * H= 71.5mm * 31.7mm * 16mm		HF (New Robust Antenna)		Tri-level Dimming RF Primary & Secondary		Photocell Advance™	√	Low-bay max. 6m	Rotary Switch & Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
NEW! SAM12 Size: L * W * H= 50.5mm * 22.5mm * 12.5mm		HF (New Robust Antenna)		12VDC input 5V 1kHZ PWM Output Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	DIP-Switch	IP20	3rd Party LED Driver	96

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
NEW! SAM12/RC05 Size: L * W * H= 50.5mm * 22.5mm * 12.5mm		HF (New Robust Antenna)		12VDC input 5V 1kHZ PWM / 0-10V Output Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	3rd Party LED Driver	96
NEW! SAM12/TY Size: L * W * H= 50.5mm * 22.5mm * 12.5mm	√	HF (New Robust Antenna)		12VDC input 5V 1kHZ PWM / 0-10V Output Tri-level Dimming		Photodiode		Low-bay max. 6m	Bluetooth Mobile (or Tablet) App	IP20	3rd Party LED Driver	96
SAM13 Size: L * W * H= 50.5mm * 22.5mm * 12.5mm		HF (New Robust Antenna)		On/Off Control		Photodiode	Active Lux Switching	Low-bay max. 6m	DIP-Switch	IP20	HC038 HC438	92
SAM13/RC12 Size: L * W * H= 50.5mm * 22.5mm * 12.5mm		HF (New Robust Antenna)		On/Off Control		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-12	IP20	HC038 HC438	92
NEW! SAM13/RC12/H Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)		On/Off Control		Photodiode	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-12	IP20	HC038 HC438	92
SAM14 Size: L * W * H= 93.5mm * 16mm * 14.5mm		HF (New Robust Antenna)		12VDC input 5V 1kHZ PWM / 0-10V Output Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	DIP-Switch	IP20	3rd Party LED Driver	96
SAM14/RC05 Size: L * W * H= 93.5mm * 16mm * 14.5mm		HF (New Robust Antenna)		12VDC input 5V 1kHZ PWM / 0-10V Output Tri-level Dimming		Photodiode	Active Lux Switching	Low-bay max. 6m	Romete Controller HRC-05	IP20	3rd Party LED Driver	96
NEW! SAM20D2/PRO Size: L * W * H= 52.5mm * 31.2mm * 16mm		HF (New Robust Antenna)	√	Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	88

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
NEW! SAM20D2/H Size: L * W * H= 34.7mm * 25.2mm * 15.5mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
SAM20 Size: L * W * H= 34.7mm * 25.2mm * 15.5mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	Low-bay max. 6m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
SAM21 Size: Ø * H= 41mm * 19.3mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Low-bay max. 6m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
SAM22 Size: Ø * H= 48mm * 20.3mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 6m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
SAM22/AA Size: Ø * H= 90mm * 75mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 6m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
SAM23 Size: L * W * H= 45.2mm * 32.5mm * 26.5mm		HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
NEW! HBT01/PRO Size: L * W * H= 71.5mm * 31.7mm * 16mm	√	HF (New Robust Antenna)	√	Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	85
NEW! HBT01/H Size: L * W * H= 71.5mm * 31.7mm * 16mm	√	HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	85
NEW! HBT01 Size: L * W * H= 71.5mm * 31.7mm * 16mm	√	HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	85
NEW! HBT02 Size: L * W * H= 71.5mm * 31.7mm * 16mm	√	BLE receiver only (without motion sensor built-in)		Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√		Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
NEW! HBT01/TY Size: L * W * H= 52.5mm * 31.2mm * 16mm	√	HF (New Robust Antenna)		Tri-level Dimming	√	Photodiode		Low-bay max. 3m	Bluetooth Mobile (or Tablet) App	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
NEW! HBT01/CA Size: L * W * H= 52.5mm * 31.2mm * 16mm	√	HF (New Robust Antenna)		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode		Low-bay max. 3m	Bluetooth Mobile (or Tablet) App	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
NEW! HBT02/TY Size: L * W * H= 52.5mm * 31.2mm * 16mm	√	BLE receiver only (without motion sensor built-in)			√	Photodiode			Bluetooth Mobile (or Tablet) App	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
HIR01 Size: L * W * H= 39.5mm * 30mm * 25.8mm		PIR		Daylight Harvest		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-01	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
HIR01/FM Size: Ø * H= 48mm * 20.3mm		PIR		Daylight Harvest Flush Mount		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	81
HIR01/AA Size: Ø * H= 90mm * 75mm		PIR		Daylight Harvest Adjustable Angle		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR02 Size: L * W * H= 39.5mm * 30mm * 25.8mm		PIR		Tri-level Dimming		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-05	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR02/FM Size: Ø * H= 48mm * 20.3mm		PIR		Tri-level Dimming Flush Mount		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-05	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
HIR02/AA Size: Ø * H= 90mm * 75mm		PIR		Tri-level Dimming Adjustable Angle		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-05	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR02/RC12 Size: L * W * H= 39.5mm * 30mm * 25.8mm		PIR		On/Off Control		Photocell	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-12	IP20	HC038 HC438	92
HIR03 Size: L * W * H= 44.5mm * 17mm * 19.3mm		PIR		Daylight Harvest		Photocell Advance™	√	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR04 Size: L * W * H= 44.5mm * 17mm * 19.3mm		PIR		Tri-level Dimming		Photocell Advance™	√	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR04/RC12 Size: L * W * H= 44.5mm * 17mm * 19.3mm		PIR		On/Off Control		Photocell Advance™	√	Low-bay max. 3m	Romete Controller HRC-12	IP20	HC038 HC438	92
HIR05 Size: L * W * H= 39.5mm * 30mm * 25.8mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89
HIR05/FM Size: Ø * H= 48mm * 20.3mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	89

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
HIR05/AA Size: Ø * H= 90mm * 75mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR07 Size: L * W * H= 44.5mm * 17mm * 19.3mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell Advance™	√	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR09/S Size: Ø * H= 36.3mm * 32.6mm		PIR		Daylight Harvest Surface Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR09/F Size: Ø * H= 48mm * 20.3mm		PIR		Daylight Harvest Flush Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR09/C Size: L * W * H= 63mm * 40.5mm * 33.9mm		PIR		Daylight Harvest Conduit Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	82
HIR09/AA Size: Ø * H= 90mm * 75mm		PIR		Daylight Harvest Adjustable Angle		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
HIR10 Size: L * W * H= 75mm * 45mm * 21.7mm		PIR		Daylight Harvest Suitable for linear luminaire		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
HIR11/S Size: Ø * H= 36.3mm * 32.6mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Surface Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR11/F Size: Ø * H= 48mm * 20.3mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Flush Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR11/C Size: L * W * H= 63mm * 40.5mm * 33.9mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Conduit Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR11/AA Size: Ø * H= 90mm * 75mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Adjustable Angle	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
HIR12 Size: L * W * H= 75mm * 45mm * 21.7mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Suitable for linear luminaire	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90
HIR13/S Size: Ø * H= 36.3mm * 32.6mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Surface Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
HIR13/F Size: Ø * H= 48mm * 20.3mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Flush Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
HIR13/C Size: L * W * H= 63mm * 40.5mm * 33.9mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Conduit Mount	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	86
HIR13/AA Size: Ø * H= 90mm * 75mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Adjustable Angle	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
HIR16 Size: L * W * H= 75mm * 45mm * 21.7mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting Suitable for linear luminaire	√	Photocell	Active Lux Switching	High-bay max. 15m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
NEW! HIR17 Size: Ø * H= 26mm * 31.8mm		PIR		Tri-level Dimming Daylight Harvest	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
NEW! HIR17 with HA04 Size: L * W * H= 52mm * 22mm * 33mm		PIR		Tri-level Dimming Daylight Harvest	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
NEW! HIR17 with HA05 Size: L * W * H= 68mm * 27mm * 31.8mm		PIR		Tri-level Dimming Daylight Harvest	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-11	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
NEW! HIR17/R Size: Ø * H= 36mm * 43.4mm		PIR		Tri-level Dimming Daylight Harvest	√	Photodiode	Active Lux Switching	Mid-bay max. 12m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
NEW! HIR18 Size: Ø * H= 26mm * 31.8mm		PIR		On/Off Control		Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-12	IP20	HC038 HC438	92
NEW! HIR18 with HA04 Size: L * W * H= 52mm * 22mm * 33mm		PIR		On/Off Control		Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-12	IP20	HC038 HC438	93
NEW! HIR18 with HA05 Size: L * W * H= 68mm * 27mm * 31.8mm		PIR		On/Off Control		Photodiode	Active Lux Switching	Low-bay max. 3m	Romete Controller HRC-12	IP20	HC038 HC438	93
NEW! HIR18/R Size: Ø * H= 36mm * 43.4mm		PIR		On/Off Control		Photodiode	Active Lux Switching	Mid-bay max. 12m	Romete Controller HRC-12	IP65 (lens/ facial part)	HC038 HC438	93
HIR19/S Size: Ø * H= 36.3mm * 32.6mm		PIR		Tri-level Dimming Surface Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
HIR19/F Size: Ø * H= 48mm * 20.3mm		PIR		Tri-level Dimming Flush Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
HIR19/C Size: L * W * H= 63mm * 40.5mm * 33.9mm		PIR		Tri-level Dimming Conduit Mount		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	83
HIR19/AA Size: Ø * H= 90mm * 75mm		PIR		Tri-level Dimming Adjustable Angle		Photocell	Active Lux Switching	High-bay max. 15m	Romete Controller HRC-11	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	84
NEW! HIR62 Size: Ø * H= 26mm * 31.8mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
NEW! HIR62 with HA04 Size: L * W * H= 52mm * 22mm * 33mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
NEW! HIR62 with HA05 Size: L * W * H= 68mm * 27mm * 31.8mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
NEW! HIR62/R Size: Ø * H= 36mm * 43.4mm	√	PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photodiode	Active Lux Switching	Mid-bay max. 12m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V HCD038 HC438V HCD438 HCD038/P Hex-Drive series	87
NEW! HIR63 Size: Ø * H= 26mm * 31.8mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	90

Overview: Detachable Super-mini Sensor Head Design

	Bluetooth 5.0 Mesh	Detection Technology	True Presence Detection	Key Features	Tunable White Control	Daylight Sensor	Pro-active Lux Switching	Install Height	Commissioning via: DIP-Switch/ Rotary Switch/ Romete Controller/ Bluetooth Mobile (or Tablet) App & Web App Platform	IP Rate	To be used with	Page
NEW! HIR63 with HA04 Size: L * W * H= 52mm * 22mm * 33mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	91
NEW! HIR63 with HA05 Size: L * W * H= 68mm * 27mm * 31.8mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Low-bay max. 3m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP20	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	91
NEW! HIR63/R Size: Ø * H= 36mm * 43.4mm		PIR		Tri-level Dimming Daylight Harvest Human Centric Lighting	√	Photocell	Active Lux Switching	Mid-bay max. 12m	Bluetooth Mobile (or Tablet) App & Web App Platform	IP65 (lens/ facial part)	HC038V/BT HCD038/BT HC438V/BT HCD438/BT HCD038/CA HCD438/CA HBE9028/KD HED7030/BT HED8045/BT HBEM01 HBEM02 HBEM03 HBEM04 HBEM05	91

Detachable Sensor Head Design - - - Introducing: 6 Categories of Sensor Head Options

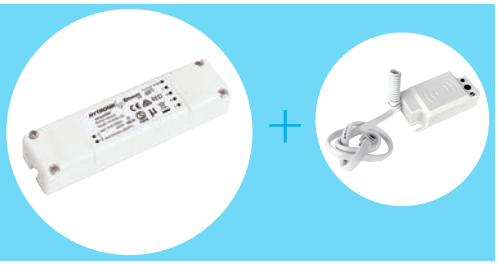
What is the concept behind Hytronik's detachable sensor design ?

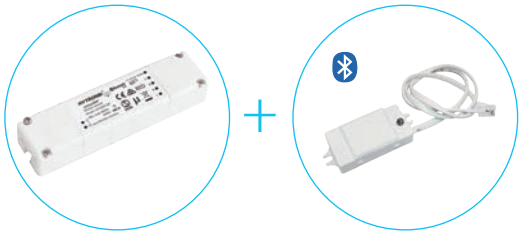
Hytronik's detachable control base + sensor head design aims to provide maximum space-saving and flexibility for different types of luminaire design. The super-mini sensor head options integrate motion sensor and daylight sensor together, with our latest advanced technologies. These versatile sensor head options range from HF to PIR, from remote control to Bluetooth mesh network, from on/df control to dimmable control, from low-bay to high-bay, from IP20 to IP65....Small, yet mighty!

Based on different usages, we have divided our sensor heads into 6 categories for better understanding:

Sensor Head Options - - - Category A ▶▶▶

- Non-Bluetooth featured
- Sensor settings via remote controller
- Dimming control (0/1-10V or DALI)
- Control bases options: HC038V, HCD038, HC438V, HCD438, HCD038/P



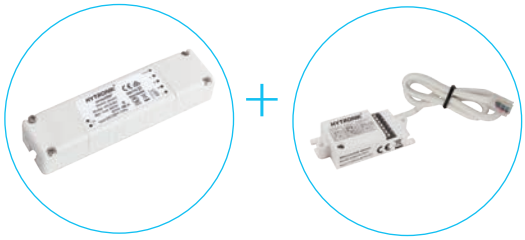


Sensor Head Options - - - Category B ▶▶▶

- Bluetooth featured (Bluetooth module in sensor head, ideal for metal luminaires)
- Sensor settings via mobile/tablet app & web app platform
- Dimming control (0/1-10V or DALI)
- Control bases options: HC038V, HCD038, HC438V, HCD438, HCD038/P

Sensor Head Options - - - Category C ▶▶▶

- Bluetooth featured (Bluetooth module in control base, ideal for plastic luminaires)
- Sensor settings via mobile/tablet app & web app platform
- Dimming control (0/1-10V or DALI-2)
- Control bases options: HC038V/BT, HCD038/BT, HC438V/BT HCD438/BT, HCD038/CA, HCD438/CA



Sensor Head Options - - - Category D ▶▶▶

- Non-Bluetooth featured
- Sensor settings via remote controller, or via dip-switches on sensor head
- Non-dimming control (On/O ff only)
- Control bases options: HC038, HC438

Sensor Head Options - - - Category E ▶▶▶

- Non-Bluetooth featured
- Sensor settings via remote controller, or via dip-switches on control base
- On/Off or 1-10V dimming control
- Control bases options: HC009S-KD, HC009S-KD/I, HC403V-KD, HC403VRC-KD, HC403VRC-KD/I, HC603VRC-KD

Sensor Head Options - - - Category F ▶▶▶

- Sensor head only, ready to be integrated into a third-party LED driver
- PWM or 0-10V output
- Comes with Bluetooth & Non-Bluetooth options
- No control base needed

Sensor Head Options - - - Category A

- Non-Bluetooth featured
- Sensor settings via remote controller
- Dimmable control (0/1-10V or DALI/DALI-2)
- Control base options: HC038V, HCD038, HC438V, HCD438, HCD038/P

* Only when both HCD038/P and DALI-2 marked sensor head are used together, then the combination is DALI-2 enabled as a whole. The DALI-2 enabled sensors can freely switch between tri-level control and daylight harvest through remote controller HRC-11 settings.

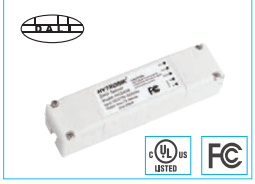
HCD038/P

- 220V-240VAC input
- DALI-2 output with 80mA power supply built-in
- Compliant to IEC62386_101, 103, 303, 304, 351
- Size: L * W * H = 120mm * 30mm * 21mm
- 2 Switch-Dim (PUSH) terminals

HCD038

- 220V-240VAC input
- DALI output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

HCD438



- 120V-277VAC input
- DALI output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

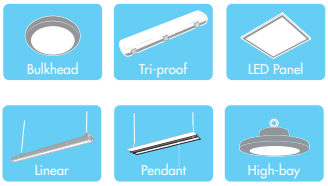
HC038V

- 220V-240VAC input
- 1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

HC438V

- 120V-277VAC input
- 1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

Suitable for



+ Free Combination! 5 control base options with (Total 31 sensor head options)

SAM7D2/PRO

- Microwave (HF) detection
- True presence detection (*See pg. 12)
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-11

SAM7D2/H

- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-11

SAM7/I

- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-11

More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category A)

SAM7

- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-11

SAM7/AA

- Microwave (HF) detection
- Adjustable angle design
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-05

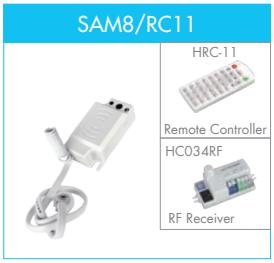
SAM7/FM

- Microwave (HF) detection
- Flush mount installation
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 48mm * 20.3mm
- Sensor settings via handset HRC-11

SAM8

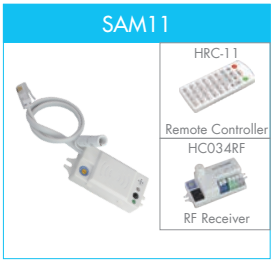
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- RF pairing (FSK433MHz or FSK868MHz) with primary & secondary control (*See pg. 22-23)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-04

SAM8/RC11



- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- RF pairing (FSK433MHz or FSK868MHz) with primary & secondary control (*See pg. 22-23)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-11

SAM11



- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- RF pairing (FSK433MHz or FSK868MHz) with primary & secondary control (*See pg. 22-23)
- Rotary switch for quick RF channel pair
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm
- Sensor settings via handset HRC-11

SAM11/I

- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- RF pairing (FSK433MHz or FSK868MHz) with primary & secondary control (*See pg. 22-23)
- Rotary switch for quick RF channel pair
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm
- Sensor settings via handset HRC-11

HIR01

- Passive infrared (PIR) detection
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 39.5mm * 30mm * 25.8mm
- Sensor settings via handset HRC-01

HIR01/FM

- Passive infrared (PIR) detection
- Flush mount installation
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 48mm * 20.3mm
- Sensor settings via handset HRC-01

More sensor head options

HIR01/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-01

HIR02

- Passive infrared (PIR) detection
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 39.5mm * 30mm * 25.8mm
- Sensor settings via handset HRC-05

HIR02/FM

- Passive infrared (PIR) detection
- Flush mount installation
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 48mm * 20.3mm
- Sensor settings via handset HRC-05

HIR02/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-05

HIR03

- Passive infrared (PIR) detection
- Daylight harvest (*See pg. 19-21)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 44.5mm * 17mm * 19.3mm
- Sensor settings via handset HRC-11

HIR04

- Passive infrared (PIR) detection
- Tri-level dimming (*See pg. 19)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 44.5mm * 17mm * 19.3mm
- Sensor settings via handset HRC-11

HIR09/S

- Passive infrared (PIR) detection
- Surface mount installation
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 36.3mm * 32.6mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR09/F

- Passive infrared (PIR) detection
- Flush mount installation
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 48mm * 35.4mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR09/C

- Passive infrared (PIR) detection
- Conduit thread: M13 * 1.5mm
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: L * W * H = 63mm * 40.5mm * 33.9mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category A)

HIR09/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR10

- Passive infrared (PIR) detection
- Designed for linear luminaire
- Daylight harvest (*See pg. 19-21)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: L*W =18m*6m (forklift)
  12m*6m (human)
- Size: L * W * H = 75mm * 45mm * 21.7mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR17

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm
- Sensor settings via handset HRC-11

HIR17 with HA04

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52mm * 22mm * 33mm
- Sensor settings via handset HRC-11

HIR17 with HA05

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 68mm * 27mm * 31.8mm
- Sensor settings via handset HRC-11

HIR17/R

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36mm * 43.4mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR19/S

- Passive infrared (PIR) detection
- Surface mount installation
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 36.3mm * 32.6mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR19/F

- Passive infrared (PIR) detection
- Flush mount installation
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 48mm * 35.4mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

HIR19/C

- Passive infrared (PIR) detection
- Conduit thread: M13 * 1.5mm
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: L * W * H = 63mm * 40.5mm * 33.9mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

More sensor head options

HIR19/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Tri-level dimming (*See pg. 19)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-11
- IP65 (lens/facia part)

Sensor Head Options - - - Category B

- Bluetooth featured (Bluetooth module in sensor head, ideal for metal luminaires)
- Sensor settings via mobile/tablet app & web app platform
- Dimmable control (0/1-10V or DALI/DALI-2)
- Control base options: HC038V, HCD038, HC438V, HCD438, HCD038/P

* Full Bluetooth features can be seen on page 04

* Any of these DALI-2 marked sensor heads needs to be used together with HCD038/P to achieve DALI-2 as a whole.

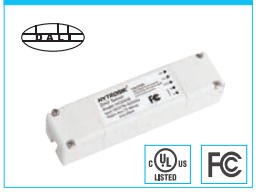
HCD038/P

- 220V-240VAC input
- DALI-2 output with 80mA power supply built-in
- Compliant to IEC62386_101, 103, 303, 304, 351
- Size: L * W * H = 120mm * 30mm * 21mm
- 2 Switch-Dim (PUSH) terminals

HCD038

- 220V-240VAC input
- DALI output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

HCD438



- 120V-277VAC input
- DALI output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

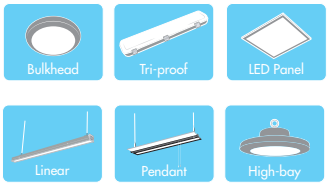
HC038V

- 220V-240VAC input
- 1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

HC438V

- 120V-277VAC input
- 1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

Suitable for



+ Free Combination! 5 control base options with (Total 16 sensor head options)

HBT01/PRO

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Microwave (HF) detection
- True presence detection (*See pg. 12)
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm

HBT01/H

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 14m (human)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm

HBT01

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg.16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm

More sensor head options

HBT02

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- BLE receiver only (without motion sensor built-in)
- Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Size: L * W * H = 71.5mm * 31.7mm * 16mm

HBT01/TY

- Tuya Bluetooth® module built-in
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm

HBT01/CA

- Casambi Bluetooth® module built-in
- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-24)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm

HBT02/TY

- Tuya Bluetooth® module built-in
- BLE receiver only (without motion sensor built-in)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm

HIR13/S

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Surface mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 36.3mm * 32.6mm
- IP65 (lens/facial part)

HIR13/F

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Flush mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 48mm * 35.4mm
- IP65 (lens/facial part)

HIR13/C

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Conduit thread: M13 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: L * W * H = 63mm * 40.5mm * 33.9mm
- IP65 (lens/facial part)

More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category B)

HIR13/AA

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Adjustable angle design
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 90mm * 75mm
- IP65 (lens/facial part)

HIR16

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Designed for linear luminaire
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: L*W =18m*6m (forklift)
  12m*6m (human)
- Size: L * W * H = 75mm * 45mm * 21.7mm
- IP65 (lens/facial part)

HIR62

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm

HIR62 with HA04

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52mm * 22mm * 33mm

HIR62 with HA05

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 68mm * 27mm * 31.8mm

HIR62/R

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36mm * 43.4mm
- IP65 (lens/facial part)

Sensor Head Options - - - Category C

- Bluetooth featured (Bluetooth module in control base, ideal for plastic luminaires)
- Sensor settings via mobile/tablet app & web app platform
- Dimmable control (0/1-10V or DALI-2)
- Control bases options: HC038V/BT, HCD038/BT, HC438V/BT,HCD438/BT, HCD038/CA, HCD438/CA

* Full Bluetooth features can be seen on page 04

* When any one of these sensor heads is used with HCD038/BT or HCD438/BT, then the combination is DALI-2 enabled as a whole.

* Pro-active Lux Switching (Photocell Advance™) feature will not be available when using with HCD038/CA, HCD438/CA.

HCD038/BT

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 01-02)
- 220V-240VAC input
- DALI-2 output with 30mA power supply built-in
- Compliant to IEC62386_101, 103, 303, 304, 351
- Support D4i driver and collect energy, fault & diagnostics data
- Size: L * W * H = 120mm * 30mm * 21mm
- 2 Switch-Dim (PUSH) terminals
- Optional reinforced Bluetooth antenna accessory

HCD438/BT

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 01-02)
- 120V-277VAC input
- DALI-2 output with 30mA power supply built-in
- Compliant to IEC62386_101, 103, 303, 304, 351
- Support D4i driver and collect energy, fault & diagnostics data
- Size: L * W * H = 120mm * 30mm * 21mm
- 2 Switch-Dim (PUSH) terminals
- Optional reinforced Bluetooth antenna accessory

HC038V/BT

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 01-02)
- 220V-240VAC input
- 0/1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal
- Optional reinforced Bluetooth antenna accessory

HC438V/BT

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 01-02)
- 120V-277VAC input
- 0/1-10V dimming control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal
- Optional reinforced Bluetooth antenna accessory

HCD038/CA

- Casambi Bluetooth® module built-in
- 220V-240VAC input
- DALI-2 output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

HCD438/CA

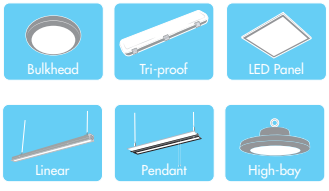
- Casambi Bluetooth® module built-in
- 120V-277VAC input
- DALI-2 output with 30mA power supply built-in
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

+ Free Combination! 6 control base options with (Total 20 sensor head options)

SAM20D2/PRO

- Microwave (HF) detection
- True presence detection (*See pg. 12)
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm

Suitable for



More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category C)

SAM20D2/H

- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Size: L * W * H = 34.7mm * 25.2mm * 15.5mm

SAM20

- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 34.7mm * 25.2mm * 15.5mm

SAM21

- Microwave (HF) detection
- Conduit installation (M16 * 3mm)
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 41mm * 19.3mm
- IP65

SAM22

- Microwave (HF) detection
- Flush mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 48mm * 20.3mm

SAM22/AA

- Microwave (HF) detection
- Adjustable angle design
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 90mm * 75mm

SAM23

- Microwave (HF) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: L * W * H = 45.2mm * 32.5mm * 26.5mm

HIR05

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 39.5mm * 30mm * 25.8mm

HIR05/FM

- Passive infrared (PIR) detection
- Flush mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 48mm * 20.3mm

More sensor head options

HIR05/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =18m (diameter)
- Size: Ø * H = 90mm * 75mm

HIR07

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Pro-active Daylight Harvesting (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 44.5mm * 17mm * 19.3mm

HIR11/S

- Passive infrared (PIR) detection
- Surface mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 36.3mm * 32.6mm
- IP65 (lens/facial part)

HIR11/F

- Passive infrared (PIR) detection
- Flush mount installation
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 48mm * 35.4mm
- IP65 (lens/facial part)

HIR11/C

- Passive infrared (PIR) detection
- Conduit thread: M13 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: L * W * H = 63mm * 40.5mm * 33.9mm
- IP65 (lens/facial part)

HIR11/AA

- Passive infrared (PIR) detection
- Adjustable angle design
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Size: Ø * H = 90mm * 75mm
- IP65 (lens/facial part)

HIR12

- Passive infrared (PIR) detection
- Designed for linear luminaire
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: L*W =18m*6m (forklift)
  12m*6m (human)
- Size: L * W * H = 75mm * 45mm * 21.7mm
- IP65 (lens/facial part)

HIR63

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm

More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category C)

HIR63 with HA04

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52mm * 22mm * 33mm

HIR63 with HA05

- Passive infrared (PIR) detection
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 68mm * 27mm * 31.8mm

HIR63/R

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting/Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36mm * 43.4mm
- IP65 (lens/facial part)

HC038

- 220V-240VAC input
- On/Off control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

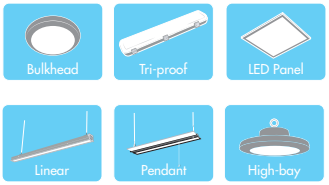
HC438

- 120V-277VAC input
- On/Off control with relay output
- Max loading: 400VA capacitive / 800W resistive
- Size: L * W * H = 120mm * 30mm * 21mm
- Switch-Dim (PUSH) terminal

Sensor Head Options - - - Category D

- Non-Bluetooth featured
- Sensor settings via remote controller, or via dip-switches on sensor head
- Non-dimmable control (On/Off only)
- Control bases options: HC038, HC438

Suitable for



+ Free Combination! 2 control base options with (Total 9 sensor head options)

SAM13

- Microwave (HF) detection
- On/Off control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 50.5mm * 22.5mm * 12.5mm

SAM13/RC12

- Microwave (HF) detection
- On/Off control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 50.5mm * 22.5mm * 12.5mm
- Sensor settings via handset HRC-12

SAM13/RC12/H

- Microwave (HF) detection
- On/Off control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: *Ø =26m (forklift) / 16m (human)
- Size: L * W * H = 52.5mm * 31.2mm * 16mm
- Sensor settings via handset HRC-12

HIR02/RC12

- Passive infrared (PIR) detection
- On/Off control
- Photocell
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 39.5mm * 30mm * 25.8mm
- Sensor settings via handset HRC-12

HIR04/RC12

- Passive infrared (PIR) detection
- On/Off control
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Max installation height: 3m
- Max detection range: Ø =6m (diameter)
- Size: L * W * H = 44.5mm * 17mm * 19.3mm
- Sensor settings via handset HRC-12

HIR18

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- On/Off control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 26mm * 31.8mm
- Sensor settings via handset HRC-12

More sensor head options

Detachable Sensor Head Design - - - Sensor Head Options (Category D)

HIR18 with HA04

- Passive infrared (PIR) detection
- On/Off control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 52mm * 22mm * 33mm
- Sensor settings via handset HRC-12

HIR18 with HA05

- Passive infrared (PIR) detection
- On/Off control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 3m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 68mm * 27mm * 31.8mm
- Sensor settings via handset HRC-12

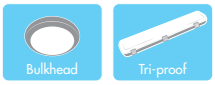
HIR18/R

- Passive infrared (PIR) detection
- Conduit thread: M22 * 1.5mm
- On/Off control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 12m (forklift) / 8m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: Ø * H = 36mm * 43.4mm
- Sensor settings via handset HRC-12
- IP65 (lens/facia part)

Sensor Head Options - - - Category E

- Non-Bluetooth featured
- Sensor settings via remote controller,or via dip-switches on control base
- On/Off or 1-10V control
- Control bases options: HC009S-KD, HC009S-KD/I, HC403V-KD, HC403VRC-KD, HC403VRC-KD/I, HC603VRC-KD

Suitable for



HC009S-KD + SAM4

- 220-240VAC input
- Max loading: 800VA capacitive / 1400W resistive
- Microwave (HF) detection
- On/Off control
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- SAM4 Size: L * W * H = 30.7mm * 25.2mm * 12mm

HC009S-KD/I + SAM5/I

- 220-240VAC input
- Max loading: 400VA capacitive / 800W resistive
- Microwave (HF) detection
- On/Off control
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- SAM5/I Size: L * W * H = 34.7mm * 25.2mm * 15.5mm

HC009SDC-KD/I + SAM5/I

- 220-240VAC input
- Max loading: 3.6A @ ≤240Vac, 2A @ ≤48Vdc
- Microwave (HF) detection
- On/Off control
- VFC: Volt-free Contact / Dry Contact
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- SAM5/I Size: L * W * H = 34.7mm * 25.2mm * 15.5mm

HC403V-KD + SAM4

- 120-277VAC input
- 1-10V dimming control with relay output
- Max loading: 1000VA capacitive
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- SAM4 Size: L * W * H = 30.7mm * 25.2mm * 12mm

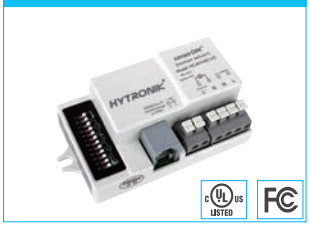
HC403VRC-KD/I + SAM5/I

- 120-277VAC input
- 1-10V dimming control with relay output
- Max loading: 1000VA capacitive
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- SAM5/I Size: L * W * H = 34.7mm * 25.2mm * 15.5mm
- Sensor settings via handset HRC-11

More sensor options

Detachable Sensor Head Design - - - Sensor Head Options (Category E)

HC403VRC-KD



- 120-277VAC input
- 1-10V dimming control with relay output
- Max loading: 1000VA capacitive
- Size: L * W * H = 95mm * 48mm * 27.5mm

HC603VRC-KD

- 347VAC input
- 1-10V dimming control with relay output
- Max loading: 1200VA capacitive
- Size: L * W * H = 95mm * 48mm * 27.5mm

+ Free Combination! 2 control base options with (Total 6 sensor head options)

SAM5

- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 30.7mm * 25.2mm * 13mm
- Sensor settings via handset HRC-05

SAM5/FM

- Microwave (HF) detection
- Flush mount installation
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 48mm * 20.3mm
- Sensor settings via handset HRC-05

SAM5/AA

- Microwave (HF) detection
- Adjustable angle design
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 90mm * 75mm
- Sensor settings via handset HRC-05

SAM5/IP65

- Microwave (HF) detection
- Conduit installation (M16 * 3mm)
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: Ø * H = 41mm * 19.3mm
- Sensor settings via handset HRC-05
- IP65

SAM6

- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =20m (forklift) / 12m (human)
- Size: L * W * H = 45.2mm * 32.5mm * 26.5mm
- Sensor settings via handset HRC-05

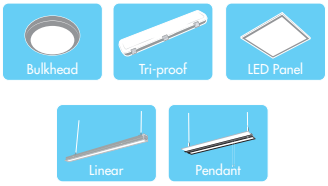
SAM9

- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 30.7mm * 25.2mm * 12mm

Sensor Head Options - - - Category F

- Sensor head only, ready to be integrated in to a third-party LED driver
- PWM or 0-10V output
- Bluetooth & Non-Bluetooth options
- No control base needed

Suitable for



SAM12

- 12VDC input
- 5V 1kHz PWM output
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 50.5mm * 22.5mm * 12.5mm

SAM12/RC05

- 12VDC input
- 5V 1kHz PWM / 0-10V output
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 50.5mm * 22.5mm * 12.5mm
- Sensor settings via handset HRC-05

SAM12/TY

- Tuya Bluetooth® module built-in
- 12VDC input
- 5V 1kHz PWM / 0-10V output
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 50.5mm * 22.5mm * 12.5mm

SAM14

- 12VDC input
- 5V 1kHz PWM / 0-10V output
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 93.5mm * 16mm * 14.5mm

SAM14/RC05

- 12VDC input
- 5V 1kHz PWM / 0-10V output
- Microwave (HF) detection
- Tri-level dimming (*See pg. 19)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Photodiode (PD)
- Active Lux Switching (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Size: L * W * H = 93.5mm * 16mm * 14.5mm
- Sensor settings via handset HRC-05

Motion Sensors

Stand-alone Sensors for Projects

Motion Sensors Quick Guide: Stand-alone Sensors for Projects

Bluetooth (Koolmesh, Casambi, Silvair, Tuya)

On/Off Control

Single On/Off Channel

- HBMW26/9RO — Pg. 136 — True Presence Detection — Low-bay (3m~6m height)
- HBMW26/H — Pg. 136 — HCD450V05/BT — Pg. 144 — High-bay (12m~20m height)
- HBR28 — Pg. 137 — HBR28/R — Pg. 137 — HBR28/W — Pg. 137 — Low-bay (3m~6m height)
- HBR28/H — Pg. 138 — HBR28/RH — Pg. 138 — High-bay (12m~15m height)

→ HF Sensors / PIR Sensors

Dual On/Off Channels

- HBR28/2CH — Pg. 137 — HBR28/2CVR — Pg. 137 — Low-bay (3m~6m height)
- HBR28/2CH/H — Pg. 138 — HBR28/2CR/RH — Pg. 138 — High-bay (12m~15m height)

→ PIR Sensors

0/1-10V Control

Single 0/1-10V Channel

- HCD450V05/BT — Pg. 144 — High-bay (12m~20m height) — Tri-level Control + Daylight Harvest — HF Sensors
- HMW66 — Pg. 140
- HC049V/BT — Pg. 144 — High-bay (12m~15m height) — Tri-level Control + Daylight Harvest — PIR Sensors
- HM66 — Pg. 140 — High-bay (12m~15m height) — Tri-level Control + Daylight Harvest — Dual-Sense (HF+PIR)

DALI/DALI-2 Control

Dual DALI/DALI-2 Channels

- HBMW25/9RO — Pg. 136 — True Presence Detection — Low-bay (3m~6m height)
- HBR25/R — Pg. 142 — HBR25/W — Pg. 142 — Low-bay (3m~6m height)
- HBR25/H — Pg. 142 — HBR25/RH — Pg. 142 — High-bay (12m~15m height)
- HBR25/2R — Pg. 142 — HBR25/2W — Pg. 142 — Low-bay (3m~6m height)
- HBR25/2H — Pg. 142 — HBR25/2RH — Pg. 142 — High-bay (12m~15m height)

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ HF Sensors / PIR Sensors

DALI/DALI-2 + On/Off Channels

- HBR25/2CH — Pg. 142 — HBR25/2CVR — Pg. 142 — Low-bay (3m~6m height)
- HBR25/2CH/H — Pg. 142 — HBR25/2CR/RH — Pg. 142 — High-bay (12m~15m height)

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ PIR Sensors

Trailing Edge

Dual Trailing-Edge Channels

- HBR-M — Pg. 146 — HBR-MW — Pg. 146 — Low-bay (3m~6m height)
- HBR3/CH — Pg. 147 — HBR3/RH — Pg. 147 — High-bay (12m~15m height)

→ Tri-level Control + Daylight Harvest / PIR Sensors

Receiver Node Only (motion range extender)

- HBR3DCA — Pg. 150 — HBR3DCA/R — Pg. 150 — Low-bay (3m~6m height)
- HBR3DCA/W — Pg. 150 — High-bay (12m~15m height)

→ PIR Sensors

DALI/DALI-2 Control

Single DALI/DALI-2 Channel

- HBMW25/9RO — Pg. 136
- HBMW25/H — Pg. 136 — HCD450V05/BT — Pg. 144
- HMW66 — Pg. 140
- HC049V/BT — Pg. 144
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ HF Sensors

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ PIR Sensors

Dual-Sense (HF+PIR)

- HMW66 — Pg. 140
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ Low-bay (3m~6m height) / High-bay (12m~15m height)

Single DALI/DALI-2 Channel

- HBMW25/9RO — Pg. 136
- HBMW25/H — Pg. 136 — HCD450V05/BT — Pg. 144
- HMW66 — Pg. 140
- HC049V/BT — Pg. 144
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ HF Sensors

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ PIR Sensors

Dual-Sense (HF+PIR)

- HMW66 — Pg. 140
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ Low-bay (3m~6m height) / High-bay (12m~15m height)

Single DALI/DALI-2 Channel

- HBMW25/9PRO — Pg. 136
- HMW26 — Pg. 136
- HCD450V05/BT — Pg. 144
- HMW66 — Pg. 140
- HC049V/BT — Pg. 144
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ HF Sensors

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ PIR Sensors

Dual-Sense (HF+PIR)

- HMW66 — Pg. 140
- HM66 — Pg. 140

• with built in PSU
• with built-in Tri-level Dimming & Daylight Harvest & Human Centric Lighting (Circadian Rhythm) program;
• supports Tunable White Control

→ Low-bay (3m~6m height) / High-bay (12m~15m height)

Non-Bluetooth

On/Off Control

Single On/Off Channel

- HMW20 — Pg. 134 — HC402S/T — Pg. 134 — HC009S/EXT — Pg. 133 — Basic
- HMW26/9PRO — Pg. 134 — True Presence Detection — Low-bay (3m~6m height)
- HMW26/H — Pg. 134 — HMW30 — Pg. 134 — High-bay (12m~20m height)
- HC030S — Pg. 144 — HC430S — Pg. 144 — HCD450V05/RC — Pg. 144
- HBR28 — Pg. 137 — HBR28/R — Pg. 137 — Low-bay (3m~6m height)
- HBR28/H — Pg. 138 — HC449S — Pg. 144 — High-bay (12m~15m height)
- HM30 — Pg. 134 — High-bay (12m~15m height) — Dual-Sense (HF+PIR)

→ HF Sensors / PIR Sensors

Trailing Edge

Single Trailing-Edge Channel

- HMT — Pg. 148 — Tri-level Control — Low-bay (3m~6m height)
- HMT6 — Pg. 148 — Daylight Harvest — Dual-Sense (HF+PIR)

→ HF Sensors / PIR Sensors

Volt-free Contact (VFC)

Mains Powered

- HMW26VFC/9RO — Pg. 134 — Mains Powered — True Presence Detection — Low-bay (3m~6m height)
- HMW26VFC/9RO — Pg. 134 — Direct Current (DC) Powered — High-bay (12m~15m height)
- HR28VFC — Pg. 138 — HR28VFC/R — Pg. 138 — HR28VFC/W — Pg. 138
- HR28VFC/H — Pg. 138 — HR28VFC/RH — Pg. 138 — HR28VFC/CW — Pg. 138

→ HF Sensors / PIR Sensors

Mains Powered

- HR28VFC/H — Pg. 138 — Mains Powered — Low-bay (3m~6m height)
- HR28VFC/CH — Pg. 138 — Direct Current (DC) Powered — High-bay (12m~15m height)

→ HF Sensors / PIR Sensors

0/1-10V Control

Single 0/1-10V Channel

- HMW21 — Pg. 137 — HC019V/EXT — Pg. 132 — Basic
- HMW21/9RO — Pg. 133 — True Presence Detection — Low-bay (3m~6m height)
- HMW11 — Pg. 164 — HMW33 — Pg. 166 — High-bay (12m~15m height)
- HMW36/RF — Pg. 166 — RF
- HMW2 — Pg. 134 — Basic
- HMW2/RO — Pg. 133 — True Presence Detection — Low-bay (3m~6m height)
- HMW3 — Pg. 134 — HMW31 — Pg. 134 — High-bay (12m~20m height)
- HCD450V05/RC — Pg. 144
- HR21 — Pg. 139 — Low-bay (3m~6m height) — Tri-level Control
- HR22 — Pg. 139 — Low-bay (3m~6m height) — Daylight Harvest
- HM11 — Pg. 160 — Low-bay (3m~6m height) — Tri-level Control
- HM13 — Pg. 160 — Basic
- HM35/RF — Pg. 160 — High-bay (12m~15m height) — Tri-level Control
- RF
- HM12 — Pg. 160 — Low-bay (3m~6m height) — Dual-Sense (HF+PIR)
- HM13 — Pg. 160 — Basic
- High-bay (12m~15m height) — Daylight Harvest

→ HF Sensors / PIR Sensors / Daylight Harvest

DALI/DALI-2 Control

Single DALI/DALI-2 Channel

- HMW75 — Pg. 162 — Basic — Low-bay (3m~6m height)
- HMW27/9RO — Pg. 162 — True Presence Detection — Low-bay (3m~6m height)
- HMW27/H — Pg. 162 — HMW75 — Pg. 162 — HCD450V05/RC — Pg. 144 — Basic — High-bay (12m~20m height)
- HMW37 — Pg. 162 — HMW75/RF — Pg. 162 — RF
- HMW24 — Pg. 162 — Basic
- HMW27/H — Pg. 162 — HMW75 — Pg. 162 — True Presence Detection — Low-bay (3m~6m height)
- HMW37 — Pg. 162 — HMW27/RO — Pg. 162 — High-bay (12m~15m height)
- HMW27/RH — Pg. 162 — HMW24 — Pg. 162
- HMW37/RH — Pg. 162 — HMW36 — Pg. 166

→ HF Sensors / with built-in Tri-level Dimming program / with built-in Daylight Harvest program

- HMW25/RO — Pg. 133 — Low-bay (3m~6m height) — High-bay (12m~15m height)
- HMW36/RO — Pg. 166

→ without PSU, no pre-installed program

- HR27 — Pg. 139 — HR27/R — Pg. 139
- HR27/H — Pg. 139 — HR27/RH — Pg. 139
- HR23/2CR — Pg. 141 — HR23/2CVR — Pg. 141
- HR23/2CH — Pg. 141 — HR23/2CR/RH — Pg. 141
- HR23/2CH/H — Pg. 141 — HR23/2CVR/RH — Pg. 141
- HC049 — Pg. 144

→ with built-in PSU / with built-in Tri-level Dimming & Daylight Harvest program + support Tunable White Control

→ without PSU, no pre-installed program

- HM15 — Pg. 160 — Basic — HM37 — Pg. 160 — Support Tunable White Control
- HM39/RF — Pg. 160 — RF
- HM14 — Pg. 160 — HM37 — Pg. 160 — Support Tunable White Control
- HM54 — Pg. 160 — HM36 — Pg. 160

→ with built-in Tri-level Dimming program / with built-in Daylight Harvest program / without PSU, no pre-installed program

→ Dual-Sense (HF+PIR)

Dual DALI/DALI-2 Channels

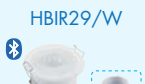
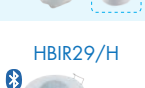
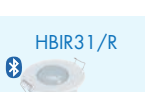
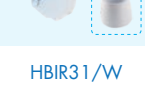
- HR30 — Pg. 139 — HR30/R — Pg. 139
- HR32/H — Pg. 139

→ PIR Sensors / with Built-in PSU / with built-in Tri-level Dimming & Daylight Harvest program + support Tunable White Control

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
NEW! HBMW28/PRO	220-240Vac	On/Off 800VA/1200W	√	HF (New Robust Antenna)	Photodiode	√	√	Low-bay max. 3m	IP20	IP20/IP65 Surface mount box	136
NEW! HBMW28/H	220-240Vac	On/Off 800VA/1200W	√	HF (New Robust Antenna)	Photodiode	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box	136
NEW! HBMW29/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	HF (New Robust Antenna)	Photocell	√	√	Low-bay max. 3m	IP20	IP20/IP65 Surface mount box	137
NEW! HBMW29/H	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	HF (New Robust Antenna)	Photocell	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box	137
NEW! HBMW25/PRO	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	HF (New Robust Antenna)	Photocell	√	√	Low-bay max. 3m	IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/R	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/W	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28/H	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/RH	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28/2CH	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/R	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/W	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	139
NEW! HBIR28/2CH/H	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	139

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
NEW! HBIR28/2CH/RH	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	✓	PIR	Photodiode	✓		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	139
HBIR29	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/R	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/W 	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	PIR	Photodiode	✓		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	140
HBIR29/H 	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/RH	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	140
HBIR31	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/R	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/W 	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photodiode	✓		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	140
HBIR31/H 	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/RH	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	140
NEW! HBIR29/2CH	220-240Vac	DALI-2 + Volt-free Tri-level Control Daylight Harvest Circadian Rhythm CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	✓	PIR	Photocell	✓		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	141

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
NEW! HBIR29/2CH/R	220-240Vac	DALI-2 + Volt-free Tri-level Control Daylight Harvest Circadian Rhythm CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	√	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/W	220-240Vac	DALI-2 + Volt-free Tri-level Control Daylight Harvest Circadian Rhythm CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	141
NEW! HBIR29/2CH/H	220-240Vac	DALI-2 + Volt-free Tri-level Control Daylight Harvest Circadian Rhythm CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	√	PIR	Photocell	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/RH	220-240Vac	DALI-2 + Volt-free Tri-level Control Daylight Harvest Circadian Rhythm CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	√	PIR	Photocell	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	141
HBHC25	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	PIR	Photocell	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/R	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/W	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	142
HBHC25/H	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	PIR	Photocell	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/RH	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√	PIR	Photocell	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	142
HBIR32	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	√	PIR	Photocell	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/R	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	√	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	142

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
HBIR32/W	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photodiode	✓		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	142
HBIR32/H	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/RH	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)	✓	PIR	Photocell	✓		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	142
NEW! HCD049/BT	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply (PSU)	✓	PIR	Photocell	✓		High-bay max. 15m	IP65		143
NEW! HC049V/BT	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 400VA/800W	✓	PIR	Photocell	✓		High-bay max. 15m	IP65		144
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off Tri-level Control Daylight Harvest Circadian Rhythm DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	✓	HF	Photocell	✓		Reinforced High-bay max. 25m	IP65		144
NEW! HMW84	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 40mA Power Supply (PSU)	✓	HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HMW98	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 800VA/1000W	✓	HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HIM84	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 40mA Power Supply (PSU)	✓	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
NEW! HIM98	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 800VA/1000W	✓	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
HBIR36	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	✓	PIR	Photocell	✓		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	147

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
HBIR36/R	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/W	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	147
HBIR36/H	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√		**High-bay max. 15m**	IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/RH	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	147
NEW! HBMW29/PRO/TY	220-240Vac	DALI-2 Tri-level Control 80mA Power Supply (PSU)	√ (Tuya)	HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m	IP20	IP20/IP65 Surface mount box	147
NEW! HMW84/TY	220-240Vac	DALI Tri-level Control 40mA Power Supply (PSU)	√ (Tuya)	HF (New Robust Antenna)	Photodiode			High-bay max. 15m	IP65	3 installation variants: Surface/ Conduit/ Clamp	148
HBIR29/SV	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest 60mA Power Supply (PSU)	√ (Silvair)	PIR	Photocell	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/R	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest 60mA Power Supply (PSU)	√ (Silvair)	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/H	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest 60mA Power Supply (PSU)	√ (Silvair)	PIR	Photocell	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/RH	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest 60mA Power Supply (PSU)	√ (Silvair)	PIR	Photocell	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	148
NEW! HBIR29/CA	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√ (Casambi)	PIR	Photocell	√		Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/R	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√ (Casambi)	PIR	Photocell	√		Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	149

Overview: Bluetooth 5.0 Mesh Enabled Sensors (with App)

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	IP Rate	Accessories & Variants	Page
NEW! HBIR29/CA/W	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√ (Casambi)	PIR	Photodiode	√		Wide Range Low-bay max. 6m	IP20	IP20/IP65 Surface mount box	149
NEW! HBIR29/CA/H	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√ (Casambi)	PIR	Photocell	√		High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/RH	220-240Vac	DALI/DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	√ (Casambi)	PIR	Photocell	√		Reinforced High-bay max. 20m	IP20	IP20/IP65 Surface mount box	149
NEW! HBIR30/CA	220-240Vac	Bluetooth Command only	√ (Casambi)	PIR	Photocell			Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	150
NEW! HBIR30/CA/R	220-240Vac	Bluetooth Command only	√ (Casambi)	PIR	Photocell			Reinforced Low-bay max. 6m	IP20	IP20/IP65 Surface mount box Blanking plates	150
NEW! HBIR30/CA/H	220-240Vac	Bluetooth Command only	√ (Casambi)	PIR	Photocell			High-bay max. 15m	IP20	IP20/IP65 Surface mount box Blanking plates	150

Overview: Sensors with True Presence/Absence Detection

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch Settings	Remote Controller	Accessories & Variants	Page
NEW! HBMW28/PRO	220-240Vac	On/Off 800VA/1200W	✓	HF (New Robust Antenna)	Photodiode	✓	Low-bay max. 3m			IP20/IP65 Surface mount box	136
NEW! HBMW29/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	HF (New Robust Antenna)	Photocell	✓	Low-bay max. 3m			IP20/IP65 Surface mount box	137
NEW! HBMW25/PRO	220-240Vac	Dual-channel DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 80mA Power Supply (PSU)	✓	HF (New Robust Antenna)	Photocell	✓	Low-bay max. 3m			IP20/IP65 Surface mount box	138
NEW! HBMW29/PRO/TY	220-240Vac	DALI-2 Tri-level Control 80mA Power Supply (PSU)	✓ (Tuya)	HF (New Robust Antenna)	Photodiode		Low-bay max. 3m			IP20/IP65 Surface mount box	147
NEW! HMW28/PRO	220-240Vac	On/Off 800VA/1200W		HF (New Robust Antenna)	Photodiode	✓	Low-bay max. 3m	✓	✓ HRC-11	IP20/IP65 Surface mount box	150
NEW! HMW21/PRO	220-240Vac	1-10V Tri-level Control Daylight Harvest 400VA/800W		HF (New Robust Antenna)	Photocell	✓	Low-bay max. 3m		✓ HRC-11	IP20/IP65 Surface mount box	151
NEW! HMW27/PRO	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 80mA Power Supply (PSU)		HF (New Robust Antenna)	Photocell	✓	Low-bay max. 3m		✓ HRC-11	IP20/IP65 Surface mount box	152
NEW! HMW23D2/PRO	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command		HF (New Robust Antenna)	Photodiode		Low-bay max. 3m			IP20/IP65 Surface mount box	153
NEW! HMW28VFC/PRO	220-240Vac	On/Off 240VAC⩽5A		HF (New Robust Antenna)	Photodiode		Low-bay max. 3m		✓ HRC-12	IP20/IP65 Surface mount box	154
NEW! HMW28DCVFC/PRO	12-48Vdc	On/Off 48VDC⩽5A		HF (New Robust Antenna)	Photodiode		Low-bay max. 3m		✓ HRC-12	IP20/IP65 Surface mount box	154

Overview: On/Off series

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBMW28/PRO	220-240Vac	On/Off 800VA/1200W	√	HF (New Robust Antenna)	Photodiode	√	√	Low-bay max. 3m			IP20	IP20/IP65 Surface mount box	136
NEW! HBMW28/H	220-240Vac	On/Off 800VA/1200W	√	HF (New Robust Antenna)	Photodiode	√		High-bay max. 15m			IP20	IP20/IP65 Surface mount box	136
NEW! HBIR28	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/R	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Reinforced Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/W	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m			IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28/H	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		High-bay max. 15m			IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/RH	220-240Vac	On/Off 800VA/800W	√	PIR	Photodiode	√		Reinforced High-bay max. 20m			IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28/2CH	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/R	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Reinforced Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/W	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Wide Range Low-bay max. 6m			IP20	IP20/IP65 Surface mount box	139
NEW! HBIR28/2CH/H	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		High-bay max. 15m			IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/RH	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 400VA	√	PIR	Photodiode	√		Reinforced High-bay max. 20m			IP20	IP20/IP65 Surface mount box	139
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off Tri-level Control Daylight Harvest Circadian Rhythm DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	√	HF	Photocell	√		Reinforced High-bay max. 25m			IP65		144

Overview: On/Off series

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW28/PRO	220-240Vac	On/Off 800VA/1200W		HF (New Robust Antenna)	Photodiode	√	√	Low-bay max. 3m	√	√ HRC-12	IP20	IP20/IP65 Surface mount box	150
NEW! HMW28/H	220-240Vac	On/Off 800VA/1200W		HF (New Robust Antenna)	Photodiode	√		High-bay max. 15m	√	√ HRC-11	IP20	IP20/IP65 Surface mount box	151
NEW! HMW28VFC/PRO	220-240Vac	On/Off 240VAC⩽5A		HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m		√ HRC-12	IP20	IP20/IP65 Surface mount box	154
NEW! HMW28DCVFC/PRO	12-48Vdc	On/Off 48VDC⩽5A		HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m		√ HRC-12	IP20	IP20/IP65 Surface mount box	154
HIR28	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	√		Low-bay max. 6m		√ HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	155
HIR28/R	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	√		Reinforced Low-bay max. 6m		√ HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	155
HIR28/H	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	√		High-bay max. 15m		√ HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	155
HIR28/RH	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	√		Reinforced High-bay max. 20m		√ HRC-11	IP20	IP20/IP65 Surface mount box	155
NEW! HIR28VFC	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28VFC/R	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Reinforced Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28VFC/W	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Wide Range Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box	155
NEW! HIR28VFC/H	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		High-bay max. 15m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28DCVFC	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156

Overview: On/Off series

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HIR28DCVFC/R	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Reinforced Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156
NEW! HIR28DCVFC/W	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Wide Range Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box	156
NEW! HIR28DCVFC/H	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		High-bay max. 15m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156
HC049S	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	√		High-bay max. 15m		√ HRC-11	IP65		160
HMW20	220-240Vac	On/Off 400VA/1200W		HF	Photodiode	√		Low-bay max. 6m	Rotary Switch	√ HRC-11	IP20	IP20/IP65 Surface mount box	163
HMW30	220-240Vac	On/Off 800VA/1000W		HF	Photodiode	√		High-bay max. 15m	Rotary Switch	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	165
HIM30	220-240Vac	On/Off 800VA/1000W		Dual-Sense PIR + HF	Photodiode	√		High-bay max. 15m	Rotary Switch	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	172
HC030S	220-240Vac	On/Off 800VA/1600W		HF	Photodiode			High-bay max. 15m	√		IP20	Optional extended conduit thread	175
HC430S	120-277Vac	On/Off 1000VA/2000W		HF	Photodiode			High-bay max. 15m	√		IP20	Optional extended conduit thread	175
HC402S/T	120-277Vac	On/Off 400VA/1200W		HF	Photodiode			Low-bay max. 6m	√		IP20		176
HCD450VDS/RC	220-240Vac	DALI & 1-10V & Volt-free & On/Off Daylight Harvest DALI: 40mA 1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)		HF	Photocell	√		Reinforced High-bay max. 25m		√ HRC-05	IP65		176
HC009S/EXT	220-240Vac	On/Off 400VA/1200W		HF	Photodiode			Low-bay max. 3m	√		IP20		177

Overview: 0/1-10V Output (tri-level dimming / daylight harvest)

	Input	Output	Bluetooth 5.0 Mesh /RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Rotary Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HC049V/BT	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 400VA/800W	Bluetooth 5.0 Mesh	PIR	Photocell	✓		High-bay max. 15m			IP65		144
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off Tri-level Control Daylight Harvest Circadian Rhythm DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Bluetooth 5.0 Mesh	HF	Photocell	✓		Reinforced High-bay max. 25m			IP65		144
NEW! HMW98	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 800VA/1000W	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m			IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HIM98	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 800VA/1000W	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m			IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
NEW! HMW21/PRO	220-240Vac	1-10V Tri-level Control Daylight Harvest 400VA/800W		HF (New Robust Antenna)	Photocell	✓	✓	Low-bay max. 3m		✓ HRC-11	IP20	IP20/IP65 Surface mount box	151
HIR21	220-240Vac	1-10V Tri-level Control 800VA/1600W		PIR	Photodiode	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	159
HIR22	220-240Vac	1-10V Daylight Harvest 800VA/1600W		PIR	Photocell	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	159
HMW11	220-240Vac	1-10V Tri-level Control 800VA/1600W		HF	Photodiode	✓		High-bay max. 15m	✓	✓ HRC-11	IP20	Surface mount box Flush mount box	161
HMW12	220-240Vac	1-10V Daylight Harvest 800VA/1600W		HF	Photocell	✓		High-bay max. 15m	✓	✓ HRC-11	IP20	Surface mount box Flush mount box	161
HMW21	220-240Vac	1-10V Tri-level Control 800VA/1600W		HF	Photocell	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	IP20/IP65 Surface mount box	163
HMW22	220-240Vac	1-10V Daylight Harvest 800VA/1600W		HF	Photocell	✓		Low-bay max. 6m	✓	✓ HRC-11	IP20	IP20/IP65 Surface mount box	164

Overview: 0/1-10V Output (tri-level dimming / daylight harvest)

	Input	Output	Bluetooth 5.0 Mesh /RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Rotary Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW33	220-240Vac	1-10V Tri-level Control Daylight Harvest 800VA/1000W		HF (New Robust Antenna)	Photocell	√		High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	166
NEW! HMW38/RF	220-240Vac	1-10V Tri-level Control 800VA/1000W	√ Transmitter Receiver 433/ 868MHz	HF	Photodiode	√		High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167
HIM11	220-240Vac	1-10V Tri-level Control 800VA/1600W		Dual-Sense PIR + HF	Photodiode	√		Low-bay max. 6m	√	√ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	168
HIM12	220-240Vac	1-10V Daylight Harvest 800VA/1600W		Dual-Sense PIR + HF	Photocell	√		Low-bay max. 6m	√	√ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	169
NEW! HIM33	220-240Vac	1-10V Tri-level Control Daylight Harvest 800VA/1000W		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	√		High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	172
NEW! HIM38/RF	220-240Vac	1-10V Tri-level Control 800VA/1000W	√ Transmitter Receiver 433/ 868MHz	Dual-Sense PIR + HF	Photodiode	√		High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	174
HCD450VDS/RC	220-240Vac	DALI & 1-10V & Volt-free & On/Off Daylight Harvest DALI: 40mA 1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)		HF	Photocell	√		Reinforced High-bay max. 25m		√ HRC-05	IP65		176
HC019V/EXT	220-240Vac	1-10V Tri-level Control 800VA/2000W		HF	Photodiode			Low-bay max. 3m	Dip-Switches		IP20		177

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBMW29/PRO	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	√	Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	137
NEW! HBMW29/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box	137
NEW! HBMW25/PRO	220-240Vac	Dual-channel DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√		Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	138
HBIR29	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/R	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/W	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	140
HBIR29/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/RH	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
HBIR31	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/R	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HBIR31/W	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	140
HBIR31/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/RH	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
NEW! HBIR29/2CH	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/R	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/W	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	141
NEW! HBIR29/2CH/H	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/RH	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	141
HBHC25	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HBHC25/R	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/W	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	142
HBHC25/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
HBIR32	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/R	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/W	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	142
HBIR32/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
NEW! HCD049/BT	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP65		143
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF	Photocell	√		Reinforced High-bay max. 25m		IP65		144

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW84	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HIM84	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	√		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	145
NEW! HBMW29/PRO/TY	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control	√	Bluetooth (Tuya)	HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	147
NEW! HMW84/TY	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control		Bluetooth (Tuya)	HF (New Robust Antenna)	Photodiode			High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	148
HBIR29/SV	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/R	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/H	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/RH	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	148
NEW! HBIR29/CA	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth (Casambi)	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/R	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth (Casambi)	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/W	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth (Casambi)	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	149

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBIR29/CA/H	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/RH	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		High-bay max. 20m		IP20	IP20/IP65 Surface mount box	149
NEW! HMW27/PRO	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓	✓	Low-bay max. 3m	HRC-11	IP20	IP20/IP65 Surface mount box	152
NEW! HMW27/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box	152
NEW! HMW23D2/PRO	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command					Photodiode		✓	Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	153
NEW! HMW23D2/H	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode			High-bay max. 15m		IP20	IP20/IP65 Surface mount box	153
HIR27	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/R	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Reinforced Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/W	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photodiode	✓		Wide Range Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box	157
HIR27/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Reinforced High-bay max. 20m	HRC-11	IP20	IP20/IP65 Surface mount box	157
NEW! HIR23/D2	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode			Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	157

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HIR23/D2/R	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode			Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	157
NEW! HIR23/D2/W	9.5-22.5Vdc Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode			Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	157
NEW! HIR23/D2/H	9.5-22.5Vdc Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode			High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	157
NEW! HIR23/D2/RH	9.5-22.5Vdc Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode			Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	157
HIR32	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR	Photocell		✓	Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
HIR32/R	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR		Photocell	✓	Reinforced Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
HIR32/H	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
HCD049	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP65		160
HMW14	220-240Vac	DALI-2 40mA Power Supply (PSU)	Daylight Harvest			HF	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	162
HMW15	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control			HF	Photodiode	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	162
HMW24	220-240Vac	DALI-2 40mA Power Supply (PSU)	Daylight Harvest			HF	Photocell	✓		Low-bay max. 6m	Rotary Switches & HRC-11	IP20	IP20/IP65 Surface mount box	164
HMW25	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control			HF	Photocell	✓		Low-bay max. 6m	Rotary Switches & HRC-11	IP20	IP20/IP65 Surface mount box	165
NEW! HMW36	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photocell			High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	166

Overview: DALI & DALI-2 Output (tri-level dimming / daylight harvest)

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW37	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167
NEW! HMW39/RF	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control		RF Transmitter Receiver 433/868 MHz	HF	Photodiode	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	168
HIM14	220-240Vac	DALI 40mA Power Supply (PSU)	Daylight Harvest			Dual-Sense PIR + HF	Photocell	✓		Low-bay max. 6m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	169
HIM54	220-240Vac	DALI 40mA Power Supply (PSU)	Daylight Harvest			Dual-Sense PIR + HF	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box Blanking Plates 2 lens options	170
HIM15	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control			Dual-Sense PIR + HF	Photodiode	✓		Low-bay max. 6m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	170
NEW! HIM36	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				Dual-Sense PIR + HF (New Robust Antenna)	Photocell			High-bay max. 15m		IP65	3 installation methods: Surface/ Conduit/ Clamp 3 lens options	173
NEW! HIM37	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation methods: Surface/ Conduit/ Clamp 3 lens options	173
NEW! HIM39/RF	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control		RF Transmitter Receiver 433/868 MHz	Dual-Sense PIR + HF	Photodiode			High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation methods: Surface/ Conduit/ Clamp 3 lens options	174
HCD450VDS/RC	220-240Vac	DALI & 1-10V & Volt-free & On/Off DALI: 40mA 1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Daylight Harvest			HF	Photocell	✓		Reinforced High-bay max. 25m	HRC-05	IP65		176

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBMW29/PRO	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	√	Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	137
NEW! HBMW29/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box	137
NEW! HBMW25/PRO	220-240Vac	Dual-channel DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	√	Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	138
HBIR29	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/R	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/W	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	140
HBIR29/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
HBIR31	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HBIR31/R	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/W	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	140
HBIR31/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
NEW! HBIR29/2CH	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/R	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/W	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	141
NEW! HBIR29/2CH/H	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	141
NEW! HBIR29/2CH/RH	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	141

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HBHC25	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/R	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/W	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	142
HBHC25/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
HBIR32	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/R	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/W	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photodiode	√		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	142
HBIR32/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
NEW! HCD049/BT	220-240Vac	DALI-2 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√		High-bay max. 15m		IP65		143

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth 5.0 Mesh	HF	Photocell	✓		Reinforced High-bay max. 25m		IP65		144
NEW! HMW84	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HIM84	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
NEW! HBMW29/PRO/TY	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control	✓	Bluetooth (Tuya)	HF (New Robust Antenna)	Photodiode	✓		Low-bay max. 3m		IP20	IP20/IP65 Surface mount box	147
HBIR29/SV	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓	Bluetooth (Silvair)	PIR	Photocell	✓		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/R	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓	Bluetooth (Silvair)	PIR	Photocell	✓		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/H	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓	Bluetooth (Silvair)	PIR	Photocell	✓		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/RH	220-240Vac	DALI/DALI-2 60mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓	Bluetooth (Silvair)	PIR	Photocell	✓		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	148
NEW! HBIR29/CA	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/R	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		Reinforced Low-bay max. 6m		IP20	IP20/IP65 Surface mount box Blanking plates	149

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBIR29/CA/W	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photodiode	✓		Wide Range Low-bay max. 6m		IP20	IP20/IP65 Surface mount box	149
NEW! HBIR29/CA/H	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	149
NEW! HBIR29/CA/RH	220-240Vac	DALI/DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	✓	Bluetooth (Casambi)	PIR	Photocell	✓		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	149
NEW! HMW27/PRO	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓	✓	Low-bay max. 3m	HRC-11	IP20	IP20/IP65 Surface mount box	152
NEW! HMW27/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box	152
HIR32	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR	Photocell	✓		Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
HIR32/R	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR	Photocell	✓		Reinforced Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
HIR32/H	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158
NEW! HMW37	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167
NEW! HIM37	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓		High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation methods: Surface/ Conduit/ Clamp 3 lens options	173
HCD049	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP65		160
HIR27	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157

Overview: Human Centric Lighting & Tunable White Control

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HIR27/R	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Reinforced Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/W	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photodiode	✓		Wide Range Low-bay max. 6m	HRC-11	IP20	IP20/IP65 Surface mount box	157
HIR27/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓		Reinforced High-bay max. 20m	HRC-11	IP20	IP20/IP65 Surface mount box	157

Overview: Dual-Sense (HF+PIR)

	Input	Output	Bluetooth 5.0 Mesh /RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Rotary Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HIM84	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 40mA Power Supply (PSU)	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m			IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	146
NEW! HIM98	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 800VA/1000W	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m			IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	146
HIM11	220-240Vac	1-10V Tri-level Control 800VA/1600W		Dual-Sense PIR + HF	Photodiode	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	168
HIM12	220-240Vac	1-10V Daylight Harvest 800VA/1600W		Dual-Sense PIR + HF	Photocell	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	169
HIM14	220-240Vac	DALI Daylight Harvest 40mA Power Supply (PSU)		Dual-Sense PIR + HF	Photocell	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	169
HIM54	220-240Vac	DALI Daylight Harvest 40mA Power Supply (PSU)		Dual-Sense PIR + HF	Photocell	✓	High-bay max. 15m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates 2 lens options	170
HIM15	220-240Vac	DALI Tri-level Control 40mA Power Supply (PSU)		Dual-Sense PIR + HF	Photodiode	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	170
HIM16	220-240Vac	Trailing Edge Daylight Harvest 150VA/200W		Dual-Sense PIR + HF	Photocell	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	171
HIM17	220-240Vac	Trailing Edge Tri-level Control 150VA/200W		Dual-Sense PIR + HF	Photodiode	✓	Low-bay max. 6m		✓ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	171
HIM30	220-240Vac	On/Off 800VA/1000W		Dual-Sense PIR + HF	Photodiode	✓	High-bay max. 15m		✓ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	172
NEW! HIM33	220-240Vac	1-10V Tri-level Control Daylight Harvest 800VA/1000W		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m		✓ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	172

Overview: Dual-Sense (HF+PIR)

	Input	Output	Bluetooth 5.0 Mesh /RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Rotary Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HIM36	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command		Dual-Sense PIR + HF (New Robust Antenna)	Photocell		High-bay max. 15m			IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	173
NEW! HIM37	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 40mA Power Supply (PSU)		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m		✓ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	173
HIM38/RF	220-240Vac	1-10V Tri-level Control 800VA/1000W	RF Transmitter Receiver 433/868 MHz	Dual-Sense PIR + HF	Photodiode	✓	High-bay max. 15m	✓	✓ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	174
HIM39/RF	220-240Vac	DALI Tri-level Control 40mA Power Supply (PSU)	RF Transmitter Receiver 433/868 MHz	Dual-Sense PIR + HF	Photodiode	✓	High-bay max. 15m	✓	✓ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	174

Overview: Batten-fit / Bolt-on Mount Style

	Input	Output	Bluetooth 5.0 Mesh /RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HC049V/BT	220-240Vac	0/1-10V Tri-level Control Daylight Harvest 400VA/800W	✓	PIR	Photocell	✓	High-bay max. 15m			IP65		144
NEW! HCD049/BT	220-240Vac	DALI-2 Tri-level Control Daylight Harvest Circadian Rhythm 30mA Power Supply (PSU)	✓	PIR	Photocell	✓	High-bay max. 15m			IP65		143
HCD049	220-240Vac	DALI-2 Tri-level Control Daylight Harvest 30mA Power Supply (PSU)		PIR	Photocell	✓	High-bay max. 15m		HRC-11	IP65		160
HC049S	220-240Vac	On/Off 400VA/800W		PIR	Photodiode	✓	High-bay max. 15m		HRC-11	IP65		160
HC030S	220-240Vac	On/Off 800VA/1600W		HF	Photodiode		High-bay max. 15m	✓		IP20	Optional extended conduit thread	175
HC430S	120-277Vac	On/Off 1000VA/2000W		HF	Photodiode		High-bay max. 15m	✓		IP20	Optional extended conduit thread	175

Overview: RF (primary & secondary Control)

	Input	Output	RF Frequency	Primary Control	Secondary Control	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Rotary Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
HMW38/RF	220-240Vac	1-10V Tri-level Control 800VA/1000W	√ Transmitter Receiver 433/868 MHz	√	√	HF	Photodiode	√	High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167
HMW39/RF	220-240Vac	DALI Tri-level Control 40mA Power Supply (PSU)	√ Transmitter Receiver 433/868 MHz	√	√	HF	Photodiode	√	High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	168
HIM38/RF	220-240Vac	1-10V Tri-level Control 800VA/1000W	√ Transmitter Receiver 433/868 MHz	√	√	Dual-Sense PIR + HF	Photodiode	√	High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	174
HIM39/RF	220-240Vac	DALI Tri-level Control 40mA Power Supply (PSU)	√ Transmitter Receiver 433/868 MHz	√	√	Dual-Sense PIR + HF	Photodiode	√	High-bay max. 15m	√	√ HRC-11	IP65	3 installation variants: Surface/Conduit /Clamp 3 lens options	174

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBMW28/H	220-240Vac	On/Off 800VA/1200W			Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photodiode	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box	136
NEW! HBMW29/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	High-bay max. 15m		**IP20**	IP20/IP65 Surface mount box	137
NEW! HBIR28/H	220-240Vac	On/Off 800VA/800W			Bluetooth 5.0 Mesh	PIR	Photodiode	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	138
NEW! HBIR28/RH	220-240Vac	On/Off 800VA/800W			Bluetooth 5.0 Mesh	PIR	Photodiode	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	138
NEW! HBIR28/2CH/H	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A 250VAC⩽2A CH2: 400VA			Bluetooth 5.0 Mesh	PIR	Photodiode	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	139
NEW! HBIR28/2CH/RH	220-240Vac	On/Off + Volt-free CH1: 24VDC⩽2A 250VAC⩽2A CH2: 400VA			Bluetooth 5.0 Mesh	PIR	Photodiode	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	139
HBIR29/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR29/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
HBIR31/H	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	140
HBIR31/RH	220-240Vac	DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	140
NEW! HBIR29/2CH/H	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	141

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HBIR29/2CH/RH	220-240Vac	DALI-2 + Volt-free CH1: 24VDC⩽2A, 250VAC⩽2A CH2: 50mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	141
HBHC25/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBHC25/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
HBIR32/H	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	142
HBIR32/RH	220-240Vac	Dual-channel DALI-2 80mA Power Supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	142
NEW! HCD049/BT	220-240Vac	DALI-2 30mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP65		143
NEW! HC049V/BT	220-240Vac	0/1-10V 400VA/800W	Tri-level Control Daylight Harvest		Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP65		144
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	HF	Photocell	√	Reinforced High-bay max. 25m		IP65		144
HBIR36/H	220-240Vac	Dual-channel Trailing Edge 2x100VA/2X150W	Tri-level Control Daylight Harvest		Bluetooth 5.0 Mesh	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/RH	220-240Vac	Dual-channel Trailing Edge 2x100VA/2X150W	Tri-level Control Daylight Harvest		Bluetooth 5.0 Mesh	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	147

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW84	220-240Vac	DALI-2 40mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm		Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HMW98	220-240Vac	0/1-10V 800VA/1000W	Tri-level Control Daylight Harvest		Bluetooth 5.0 Mesh	HF (New Robust Antenna)	Photocell	√	High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	145
NEW! HIM84	220-240Vac	DALI-2 40mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	√	High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
NEW! HIM98	220-240Vac	0/1-10V 800VA/1000W	Tri-level Control Daylight Harvest		Bluetooth 5.0 Mesh	Dual-Sense PIR + HF (New Robust Antenna)	Photocell	√	High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	146
NEW! HMW84/TY	220-240Vac	DALI 40mA Power supply (PSU)	Tri-level Control		Bluetooth (Tuya)	HF (New Robust Antenna)	Photodiode		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	148
HBIR29/SV/H SILVAIR	220-240Vac	DALI/DALI-2 60mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	148
HBIR29/SV/RH SILVAIR	220-240Vac	DALI/DALI-2 60mA Power supply (PSU)	Tri-level Control Daylight Harvest	√	Bluetooth (Silvair)	PIR	Photocell		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	148
NEW! HBIR29/CA/H	220-240Vac	DALI/DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth (Casambi)	PIR	Photocell	√	High-bay max. 15m		IP20	IP20/IP65 Surface mount box	149
NEW! HBIR29/CA/RH	220-240Vac	DALI/DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest Circadian Rhythm	√	Bluetooth (Casambi)	PIR	Photocell	√	Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	149
HBIR30/CA/H	220-240Vac	Bluetooth Command only			Bluetooth (Casambi)	PIR	Photocell		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	150

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HMW28/H	220-240Vac	On/Off 800VA/1200W				HF (New Robust Antenna)	Photodiode	√	High-bay max. 15m	Dip-Switches & HRC-11	IP20	IP20/IP65 Surface mount box	151
NEW! HMW27/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√		HF (New Robust Antenna)	Photocell	√	High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box	152
NEW! HMW23D2/H	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photodiode		High-bay max. 15m		IP20	IP20/IP65 Surface mount box	153
HIR28/H	220-240Vac	On/Off 400VA/800W				PIR	Photodiode	√	High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	155
HIR28/RH	220-240Vac	On/Off 400VA/800W				PIR	Photodiode	√	Reinforced High-bay max. 20m	HRC-11	IP20	IP20/IP65 Surface mount box	155
NEW! HIR28VFC/H	220-240Vac	On/Off 240VAC⩽5A				PIR	Photodiode	√	High-bay max. 15m	√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28DCVFC/H	12-48Vdc	On/Off 48VDC⩽5A				PIR	Photodiode	√	High-bay max. 15m	√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156
HIR27/H	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√		PIR	Photocell	√	High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	157
HIR27/RH	220-240Vac	DALI-2 80mA Power supply (PSU)	Tri-level Control Daylight Harvest	√		PIR	Photocell	√	Reinforced High-bay max. 20m	HRC-11	IP20	IP20/IP65 Surface mount box	157
NEW! HIR23/D2/H	9.5-22.5Vdc Consumption max. 12mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode		High-bay max. 15m		IP20	IP20/IP65 Surface mount box Blanking plates	157
NEW! HIR23/D2/RH	9.5-22.5Vdc Consumption max. 12mA from DALI Bus	DALI/DALI-2 Command				PIR	Photodiode		Reinforced High-bay max. 20m		IP20	IP20/IP65 Surface mount box	157
HIR32/H	220-240Vac	Dual-channel DALI 80mA Power Supply (PSU)	Daylight Harvest	√		PIR	Photocell	√	High-bay max. 15m	HRC-11	IP20	IP20/IP65 Surface mount box Blanking plates	158

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HCD049	220-240Vac	DALI 30mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		PIR	Photocell	✓	High-bay max. 15m	HRC-11	IP65		160
HC049S	220-240Vac	On/Off 400VA/800W				PIR	Photodiode	✓	High-bay max. 15m	HRC-11	IP65		160
HMW11	220-240Vac	1-10V 800VA/1600W	Tri-level Control			HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	161
HMW12	220-240Vac	1-10V 800VA/1600W	Daylight Harvest			HF	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	161
HMW14	220-240Vac	DALI 40mA Power Supply (PSU)	Daylight Harvest			HF	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	162
HMW15	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control			HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP20	Surface mount box Flush mount box	162
HMW30	220-240Vac	On/Off 800VA/1000W				HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	165
NEW! HMW33	220-240Vac	1-10V 800VA/1000W	Tri-level Control Daylight Harvest			HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	166
NEW! HMW36	220-240Vac Consumption Max. 12mA from DALI Bus	DALI/DALI-2 Command				HF (New Robust Antenna)	Photocell		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp	166
NEW! HMW37	220-240Vac	DALI-2 Max. 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167
HMW38/RF	220-240Vac	1-10V 800VA/1000W	Tri-level Control		RF Transmitter Receiver 433/868 MHz	HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	167

Overview: Mid-bay & High-bay

	Input	Output	Built-in Program	Tunable White Control	Bluetooth 5.0 Mesh/ RF Frequency	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch /Remote Controller	IP Rate	Accessories & Variants	Page
HMW39/RF	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control		RF Transmitter Receiver 433/868 MHz	HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp	168
HIM30	220-240Vac	On/Off 800VA/1000W				Dual-Sense PIR + HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	172
NEW! HIM33	220-240Vac	1-10V 800VA/1000W	Tri-level Control Daylight Harvest			Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	172
NEW! HIM36	220-240Vac Consumption Max. 2mA from DALI Bus	DALI/DALI-2 Command				Dual-Sense PIR + HF (New Robust Antenna)	Photocell		High-bay max. 15m		IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	173
NEW! HIM37	220-240Vac	DALI-2 40mA Power Supply (PSU)	Tri-level Control Daylight Harvest	✓		Dual-Sense PIR + HF (New Robust Antenna)	Photocell	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	173
HIM38/RF	220-240Vac	1-10V 800VA/1000W	Tri-level Control		RF Transmitter Receiver 433/868 MHz	Dual-Sense PIR + HF	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	174
HIM39/RF	220-240Vac	DALI 40mA Power Supply (PSU)	Tri-level Control		RF Transmitter Receiver 433/868 MHz	Dual-Sense PIR + HF (New Robust Antenna)	Photodiode	✓	High-bay max. 15m	Rotary Switches & HRC-11	IP65	3 installation variants: Surface/ Conduit/ Clamp 3 lens options	174
HC030S	220-240Vac	On/Off 800VA/1600W				HF	Photodiode		High-bay max. 15m	Dip-Switches	IP20	Optional extended conduit thread	175
HC430S	120-277Vac	On/Off 1000VA/2000W				HF	Photodiode		High-bay max. 15m	Dip-Switches	IP20	Optional extended conduit thread	175
HCD450VDS/RC	220-240Vac	DALI & 1-10V & Volt-free & On/Off DALI: 40mA Power Supply (PSU) 1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	Daylight Harvest			HF	Photocell	✓	Reinforced High-bay max. 25m	HRC-05	IP65		176

Overview: Trailing Edge Output

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch/ Rotary Switch	Remote Controller	IP Rate	Accessories & Variants	Page
HBIR36	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√	Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/R	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√	Reinforced Low-bay max. 6m			IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/W	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photodiode	√	Wide Range Low-bay max. 6m			IP20	IP20/IP65 Surface mount box	147
HBIR36/H	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√	High-bay max. 15m			IP20	IP20/IP65 Surface mount box Blanking plates	147
HBIR36/RH	220-240Vac	Dual-channel Trailing Edge Tri-level Control Daylight Harvest 2x100VA/2x150W	√	PIR	Photocell	√	Reinforced High-bay max. 20m			IP20	IP20/IP65 Surface mount box	147
HIM16	220-240Vac	Trailing Edge Daylight Harvest 150VA/200W		Dual-Sense PIR + HF	Photocell	√	Low-bay max. 6m	Rotary Switches	√ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	171
HIM17	220-240Vac	Trailing Edge Tri-level Control 150VA/200W		Dual-Sense PIR + HF	Photodiode	√	Low-bay max. 6m	Rotary Switches	√ HRC-11	IP20	Surface mount box Flush mount box Blanking Plates	171

Overview: Products for Special Applications

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HCD450VDS/BT	220-240Vac	DALI-2 & 0/1-10V & Volt-free & On/Off Tri-level Control Daylight Harvest Circadian Rhythm DALI-2: 40mA 0/1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)	√	HF	Photocell	√		Reinforced High-bay max. 25m			IP65		144
NEW! HMW28VFC/PRO	220-240Vac	On/Off 240VAC⩽5A		HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m		√ HRC-12	IP20	IP20/IP65 Surface mount box	154
NEW! HMW28DCVFC/PRO	12-48Vdc	On/Off 48VDC⩽5A		HF (New Robust Antenna)	Photodiode		√	Low-bay max. 3m		√ HRC-12	IP20	IP20/IP65 Surface mount box	154
NEW! HIR28VFC	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28VFC/R	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Reinforced Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28VFC/W	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		Wide Range Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box	155
NEW! HIR28VFC/H	220-240Vac	On/Off 240VAC⩽5A		PIR	Photodiode	√		High-bay max. 15m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	155
NEW! HIR28DCVFC	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156
NEW! HIR28DCVFC/R	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Reinforced Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156

Overview: Products for Special Applications

	Input	Output	Bluetooth 5.0 Mesh	Detection Technology	Daylight Sensor	Active Lux Switching	True Presence Detection	Install Height	Dip-Switch Settings	Remote Controller	IP Rate	Accessories & Variants	Page
NEW! HIR28DCVFC/W	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		Wide Range Low-bay max. 6m		√ HRC-12	IP20	IP20/IP65 Surface mount box	156
NEW! HIR28DCVFC/H	12-48Vdc	On/Off 48VDC⩽5A		PIR	Photodiode	√		High-bay max. 15m		√ HRC-12	IP20	IP20/IP65 Surface mount box Blanking plates	156
HC402S/T	120-277Vac	On/Off 400VA/1200W		HF	Photodiode			Low-bay max. 6m	√		IP20		176
HCD450VDS/RC	220-240Vac	DALI & 1-10V & Volt-free & On/Off Daylight Harvest DALI: 40mA 1-10V & On/Off: 2x800VA/2x1000W Volt-free: ⩽48VDC(⩽2A), ⩽240VAC(⩽3.6A)		HF	Photocell	√		Reinforced High-bay max. 25m		√ HRC-05	IP65		176
HC009S/EXT	220-240Vac	On/Off 400VA/1200W		HF	Photodiode			Low-bay max. 3m	√		IP20		177
HC019V/EXT	220-240Vac	1-10V Tri-level Control 800VA/2000W		HF	Photodiode			Low-bay max. 3m	√		IP20		177

NEW!

HBMW28/PRO

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HBMW28/H

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 14m (human)
- Sensor settings via mobile/tablet app & PC web platform
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HBMW29/PRO

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Support D4i driver and collect energy, fault & diagnostics data
- RTC keeps real-time for up to 2 weeks against power failure
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HBMW29/H

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Support D4i driver and collect energy, fault & diagnostics data
- RTC keeps real-time for up to 2 weeks against power failure
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 14m (human)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HBMW25/PRO

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Two DALI/DALI-2 channel outputs (via DALI broadcast)
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Support D4i driver and collect energy, fault & diagnostics data
- RTC keeps real-time for up to 2 weeks against power failure
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- 3 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HBIR28 Series

HBIR28

Low-bay

- Max height: 6m
- Max detection range: ∅ =9m

HBIR28/R

Reinforced Low-bay

- Max height: 6m
- Max detection range: ∅ =10m

HBIR28/W

Wide range Low-bay

- Max height: 6m
- Max detection range: ∅ =18m

HBIR28/H

High-bay

- Max height: 15m (forklift)/12m (human)
- Max detection range: ∅ =24m (forklift)/20m (human)

HBIR28/RH

Reinforced High-bay (with 3-pyro design)

- Max height: 20m (forklift)/12m (human)
- Max detection range: ∅ =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- (Not applicable on HBIR28/W, HBIR28/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 800W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Industrial Lighting | Retrofit Upgrade

NEW!

HBIR28/2CH Series

Low-bay	Reinforced Low-bay	Wide range Low-bay	High-bay	Reinforced High-bay (with 3-pyro design)
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m	• Max height: 15m (forklift)/12m (human) • Max detection range: Ø =24m (forklift)/20m (human)	• Max height: 20m (forklift)/12m (human) • Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65) | Tool-free Installation! | Optional: Blind Insert/Blanking Plate

HA03: Default IP20; IP65 is optional upon request

Removable Terminal Blocks and Clips

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- 2-channel On/Off control: Switched L + VFC
- VFC: Volt-free Contact / Dry Contact with NO + NC relay 2-in-1
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- (Not applicable on HBIR28/2CH/W, HBIR28/2CH/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading for Switched L): 400VA
- (Max Loading for VFC output): ≤2A @ 24VDC & ≤2A @ 250VAC
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Industrial Lighting | Retrofit Upgrade

HBIR29 Series

HBIR29	HBIR29/R	HBIR29/W	HBIR29/H	HBIR29/RH
Low-bay	Reinforced Low-bay	Wide range Low-bay	High-bay	Reinforced High-bay (with 3-pyro design)
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m	• Max height: 15m (forklift)/12m (human) • Max detection range: Ø =24m (forklift)/20m (human)	• Max height: 20m (forklift)/12m (human) • Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65) | Tool-free Installation! | Optional: Blind Insert/Blanking Plate

HA03: Default IP20; IP65 is optional upon request

Removable Terminal Blocks and Clips

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- Daylight sensor: Photocell, except HBIR29/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- (Not applicable on HBIR29/W, HBIR29/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

HBIR31 Series

HBIR31	HBIR31/R	HBIR31/W	HBIR31/H	HBIR31/RH
Low-bay	Reinforced Low-bay	Wide range Low-bay	High-bay	Reinforced High-bay (with 3-pyro design)
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m	• Max height: 15m (forklift)/12m (human) • Max detection range: Ø =24m (forklift)/20m (human)	• Max height: 20m (forklift)/12m (human) • Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65) | Tool-free Installation! | Optional: Blind Insert/Blanking Plate

HA03: Default IP20; IP65 is optional upon request

Removable Terminal Blocks and Clips

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- Daylight sensor: Photocell, except HBIR31/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR31/W, HBIR31/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

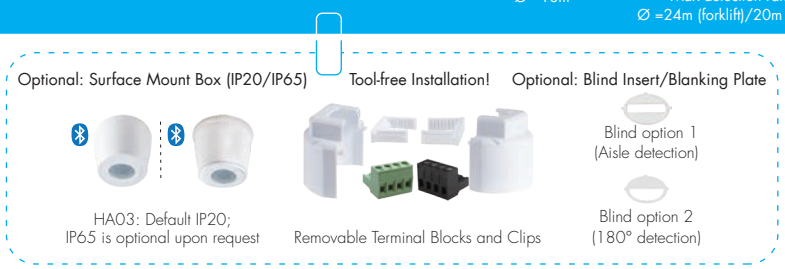
- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Industrial Lighting | Retrofit Upgrade

NEW!

HBIR29/2CH Series



Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- 2-channel control: DALI-2 output + VFC
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- VFC: Volt-free Contact / Dry Contact with NC relay
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- Daylight sensor: Photocell, except HBIR29/2CH/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR29/2CH/W, HBIR29/2CH/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz 50/60Hz
- Output (Max Loading for DALI-2): 50mA DALI power supply
- Max Loading for VFC output: ≤2A @ 24VDC & ≤2A @ 250VAC
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Industrial Lighting | Retrofit Upgrade

HBHC25 Series

HBHC25/2CH

Low-bay
• Max height: 6m
• Max detection range: Ø =9m

HBHC25/2CH/R

Reinforced Low-bay
• Max height: 6m
• Max detection range: Ø =10m

HBHC25/2CH/W

Wide range Low-bay
• Max height: 6m
• Max detection range: Ø =18m

HBHC25/2CH/H

High-bay
• Max height: 15m (forklift)/12m (human)
• Max detection range: Ø =24m (forklift)/20m (human)

HBHC25/2CH/RH

Reinforced High-bay (with 3-pyro design)
• Max height: 15m (forklift)/12m (human)
• Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Two DALI/DALI-2 channel outputs (via DALI broadcast)
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- RTC keeps real-time for up to 2 weeks against power failure
- Daylight sensor: Photocell, except HBHC25/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 3 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBHC25/W, HBHC25/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply (50mA + 30mA)
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

HBIR32 Series

HBIR32/2CH

Low-bay
• Max height: 6m
• Max detection range: Ø =9m

HBIR32/2CH/R

Reinforced Low-bay
• Max height: 6m
• Max detection range: Ø =10m

HBIR32/2CH/W

Wide range Low-bay
• Max height: 6m
• Max detection range: Ø =18m

HBIR32/2CH/H

High-bay
• Max height: 15m (forklift)/12m (human)
• Max detection range: Ø =24m (forklift)/20m (human)

HBIR32/2CH/RH

Reinforced High-bay (with 3-pyro design)
• Max height: 15m (forklift)/12m (human)
• Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Two DALI/DALI-2 channel outputs (via DALI broadcast)
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- RTC keeps real-time for up to 2 weeks against power failure
- Daylight sensor: Photocell, except HBIR32/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 3 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
  (Not applicable on HBIR32/W, HBIR32/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply (50mA + 30mA)
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HCD049/BT

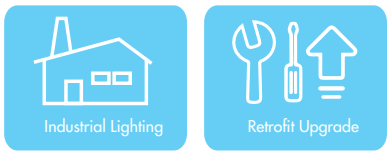
Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 20m (human)
- Conduit thread: M20 * 1.5mm
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading):
  30mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for



NEW!

HC049V/BT

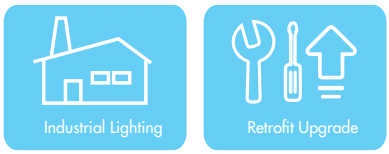
Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- 0/1-10V dimming control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 20m (human)
- Conduit thread: M20 * 1.5mm
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for



NEW!

HCD450VDS/BT

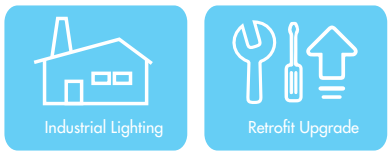
Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- 0/1-10V dimming control with relay output
- 2-channel On/Off control: Switched L + VFC
- VFC: Volt-free Contact / Dry Contact with NO + NC relay 2-in-1
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Support D4i driver and collect energy, fault & diagnostics data
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Type of relay: Total 3 relays, one for VFC, two for 0/1-10V & Switched L
- Max installation height: 25m (forklift) / 20m (human)
- Max detection range: 40m (wall mounted)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading):
  DALI-2: 40mA DALI power supply
  0/1-10V & On/Off: 2x800VA capacitive / 2x1000W resistive
  Volt-free:≤48VDC(≤2A); ≤240VAC(≤3.6A)
- Warming-up period: 20s
- Microwave detection (HF 10.525GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for



NEW!

HMW84 Series

A: Surface-mount Version

B: Conduit Version

C: Clamp Version

• Conduit thread: M20 * 2mm

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Support D4i driver and collect energy, fault & diagnostics data
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 14m (human)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW98 Series

A: Surface-mount Version

B: Conduit Version

C: Clamp Version

• Conduit thread: M20 * 2mm

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- 0/1-10V dimming control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 14m (human)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HIM84 Series

A: Surface-mount Version | B: Conduit Version | C: Clamp Version

• Conduit thread: M20 * 2mm

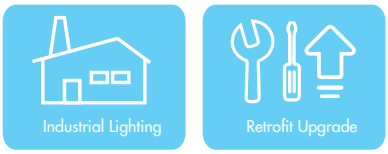
Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Support D4i driver and collect energy, fault & diagnostics data
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =24m (forklift) / 14m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for



NEW!

HIM98 Series

A: Surface-mount Version | B: Conduit Version | C: Clamp Version

• Conduit thread: M20 * 2mm

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- 0/1-10V dimming control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =24m (forklift) / 14m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HBIR36 Series

HBIR36

Low-bay
- Max height: 6m
- Max detection range: Ø =9m

HBIR36/R

Reinforced Low-bay
- Max height: 6m
- Max detection range: Ø =10m

HBIR36/W

Wide range Low-bay
- Max height: 6m
- Max detection range: Ø =18m

HBIR36/H

High-bay
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HBIR36/RH

Reinforced High-bay (with 3-pyro design)
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Suitable for

Commercial Lighting

Retrofit Upgrade

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Two trailing-edge channel outputs
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell, except HBIR36/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR36/W, HBIR36/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 2x100VA capacitive / 2x150W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

NEW! tuya

HBMW29/PRO/TY

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- Tuya Bluetooth® module built-in
- DALI/DALI-2 with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

Industrial Lighting

Retrofit Upgrade

NEW! tuya

HMW84/TY Series

A: Surface-mount Version

B: Conduit Version

• Conduit thread: M20 * 2mm

C: Clamp Version

Features & Functions

- Tuya Bluetooth® module built-in
- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (forklift) / 14m (human)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Industrial Lighting

Retrofit Upgrade

SILVAIR

HBIR29/SV Series

HBIR29/SV

Low-bay
• Max height: 6m
• Max detection range:
Ø =9m

HBIR29/SV/R

Reinforced Low-bay
• Max height: 6m
• Max detection range:
Ø =10m

HBIR29/SV/H

High-bay
• Max height:
15m (forklift)/12m (human)
• Max detection range:
Ø =24m (forklift)/20m (human)

HBIR29/SV/RH

Reinforced High-bay
(with 3-pyro design)
• Max height:
20m (forklift)/12m (human)
• Max detection range:
Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Features & Functions

- Silvair Bluetooth® module built-in
- DALI broadcast with power supply unit built-in
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR29/SV/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Industrial Lighting | Retrofit Upgrade

NEW!

HBIR29/CA Series

Features & Functions

- Casambi Bluetooth® module built-in
- DALI broadcast with power supply unit built-in
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photocell, except HBIR29/CA/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Sensor settings via Casambi mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR29/CA/W, HBIR29/CA/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting | Retrofit Upgrade

HBIR30/CA Series

HBIR30/CA

Low-bay
- Max height: 6m
- Max detection range: Ø =9m

HBIR30/CA/R

Reinforced Low-bay
- Max height: 6m
- Max detection range: Ø =10m

HBIR30/CA/H

High-bay
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Features & Functions

- Casambi Bluetooth® module built-in
- Daylight sensor: Photocell
- Sensor settings via mobile/tablet app & PC web platform
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- Tool-free installation: removable terminal blocks and clips

Suitable for

NEW!

HMW28/PRO

HRC-12

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Sensor settings via DIP-Switches & handset HRC-12
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW28/H

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- On/Off control with relay output
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 16m (human)
- Sensor settings via DIP-Switches & handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW21/PRO

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- 1-10V control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

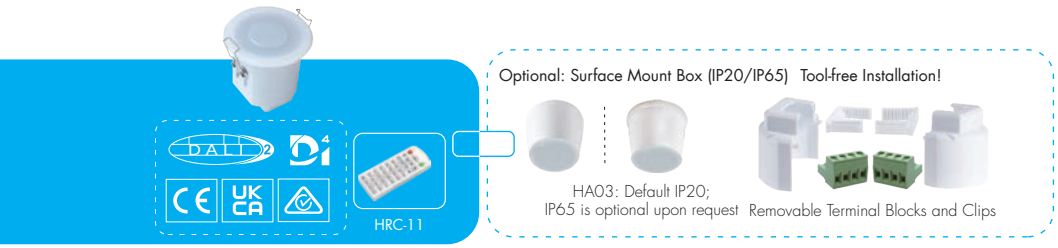
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW27/PRO



Features & Functions

- True presence detection technology (*See pg. 12)
- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal & Sync terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

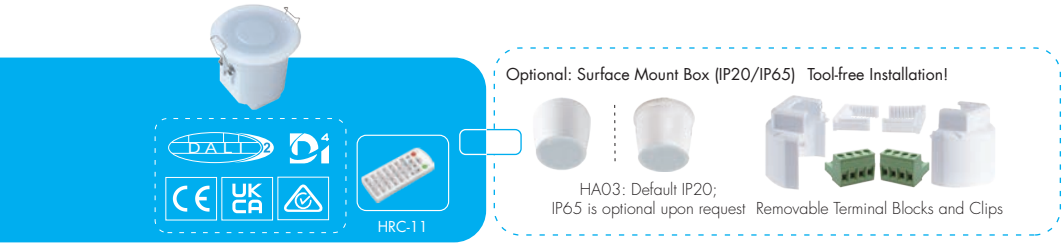
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW27/H



Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 16m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal & Sync terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW23D2/PRO

Optional: Surface Mount Box (IP20/IP65) Tool-free Installation!

HA03: Default IP20;
IP65 is optional upon request

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Max true presence detection range: ∅ =8m (diameter)
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 command
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

NEW!

HMW23D2/H

Optional: Surface Mount Box (IP20/IP65) Tool-free Installation!

HA03: Default IP20;
IP65 is optional upon request

Removable Terminal Blocks and Clips

Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =22m (forklift) / 12m (human)
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 command
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

Industrial Lighting

NEW!

HMW28VFC/PRO

Optional: Surface Mount Box (IP20/IP65) Tool-free Installation!

HA03: Default IP20;
IP65 is optional upon request

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- On/Off control with relay output
- VFC: Volt-free Contact / Dry Contact with NO relay
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Sensor settings via handset HRC-12
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 240VAC≤5A
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

NEW!

HMW28DCVFC/PRO

Optional: Surface Mount Box (IP20/IP65) Tool-free Installation!

HA03: Default IP20;
IP65 is optional upon request

Removable Terminal Blocks and Clips

Features & Functions

- True presence detection technology (*See pg. 12)
- On/Off control with relay output
- VFC: Volt-free Contact / Dry Contact with NO relay
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Sensor settings via handset HRC-12
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 12-48VDC
- Output (Max Loading): 48VDC≤5A
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIR28 Series

HIR28

Low-bay
- Max height: 6m
- Max detection range: Ø =9m

HIR28/R

Reinforced Low-bay
- Max height: 6m
- Max detection range: Ø =10m

HIR28/H

High-bay
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HIR28/RH

Reinforced High-bay (with 3-pyro design)
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =40m (forklift)/30m (human)

HRC-11

Optional: Surface Mount Box (IP20/IP65) | Tool-free Installation! | Optional: Blind Insert/Blanking Plate

HA03: Default IP20; IP65 is optional upon request

Removable Terminal Blocks and Clips

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Suitable for

Commercial Lighting

Industrial Lighting

Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HIR28/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

NEW!

HIR28VFC Series

HIR28VFC

Low-bay
- Max height: 6m
- Max detection range: Ø =9m

HIR28VFC/R

Reinforced Low-bay
- Max height: 6m
- Max detection range: Ø =10m

HIR28VFC/W

Wide range Low-bay
- Max height: 6m
- Max detection range: Ø =18m

HIR28VFC/H

High-bay
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HRC-11

Optional: Surface Mount Box (IP20/IP65) | Tool-free Installation! | Optional: Blind Insert/Blanking Plate

HA03: Default IP20; IP65 is optional upon request

Removable Terminal Blocks and Clips

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Suitable for

Commercial Lighting

Industrial Lighting

Features & Functions

- On/Off control with relay output
- VFC: Volt-free Contact / Dry Contact with NO relay
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via handset HRC-12
- Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
  (Not applicable on HIR28VFC/W)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 240VAC≤5A
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

NEW!

HIR28DCVFC Series

HIR28DCVFC

Low-bay
- Max height: 6m
- Max detection range: Ø =9m

HIR28DCVFC/R

Reinforced Low-bay
- Max height: 6m
- Max detection range: Ø =10m

HIR28DCVFC/W

Wide range Low-bay
- Max height: 6m
- Max detection range: Ø =18m

HIR28DCVFC/H

High-bay
- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HRC-12

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Suitable for

Features & Functions

- On/Off control with relay output
- VFC: Volt-free Contact / Dry Contact with NO relay
- Robust HF antenna design against wireless interference (*See pg. 13)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via handset HRC-12
- Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
  (Not applicable on HIR28DCVFC/W)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 12-48VDC
- Output (Max Loading): 48VDC≤5A
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

HIR27 Series

HIR27

Low-bay

- Max height: 6m
- Max detection range: Ø =9m

HIR27/R

Reinforced Low-bay

- Max height: 6m
- Max detection range: Ø =10m

HIR27/H

High-bay

- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HIR27/RH

Reinforced High-bay (with 3-pyro design)

- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =40m (forklift)/30m (human)

HRC-11

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Suitable for

Commercial Lighting

Industrial Lighting

Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 01)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal & Sync terminal
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HIR27/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

NEW!

HIR23D2 Series

HIR23D2

Low-bay

- Max height: 6m
- Max detection range: Ø =9m

HIR23D2/R

Reinforced Low-bay

- Max height: 6m
- Max detection range: Ø =10m

HIR23D2/W

Wide range Low-bay

- Max height: 6m
- Max detection range: Ø =18m

HIR23D2/H

High-bay

- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =24m (forklift)/20m (human)

HIR23D2/RH

Reinforced High-bay (with 3-pyro design)

- Max height: 15m (forklift)/12m (human)
- Max detection range: Ø =40m (forklift)/30m (human)

Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20; IP65 is optional upon request

Tool-free Installation!

Optional: Blind Insert/Blanking Plate

Blind option 1 (Aisle detection)

Blind option 2 (180° detection)

Suitable for

Commercial Lighting

Industrial Lighting

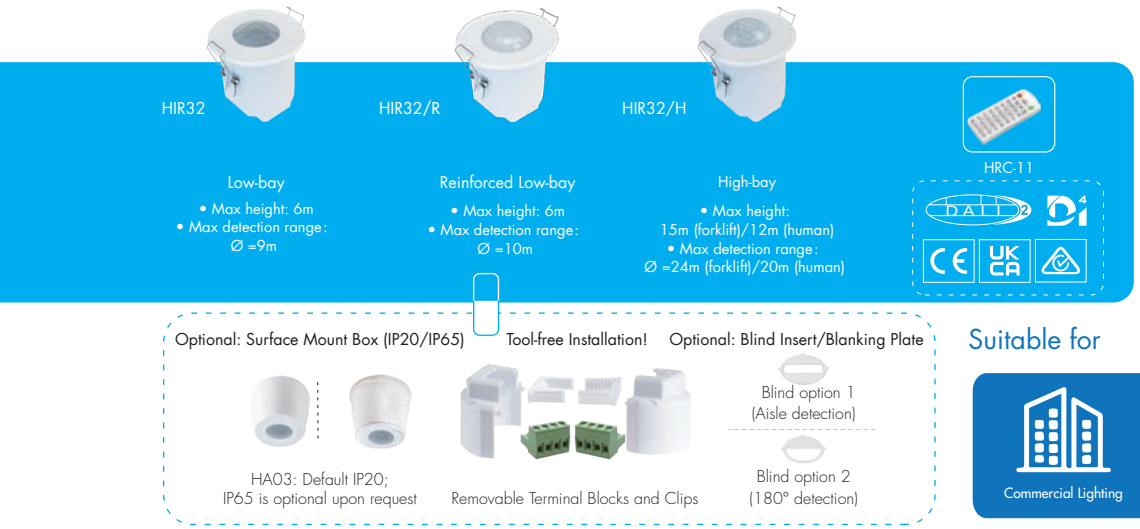
Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: ∅ =8m (diameter)
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- (Not applicable on HIR23/D2/W, HIR23/D2/RH)
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 12mA from DALI Bus
- Output: DALI/DALI-2 command
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

HIR32 Series



Suitable for

Features & Functions

- Two DALI / DALI-2 channel outputs (via DALI broadcast)
- Compliant to IEC62386_101, 103, 351
- Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Sensor settings via handset HRC-11
- 3 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- Tool-free installation: removable terminal blocks and clips

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

HIR21

Optional: Surface Mount Box (IP20/IP65)

HA02: Default IP20;
IP65 is optional upon request

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary Switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: ∅ =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA02
- Optional blind insert / blanking plate accessory

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIR22

Optional: Surface Mount Box (IP20/IP65)

HA02: Default IP20;
IP65 is optional upon request

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Features & Functions

- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary Switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: ∅ =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA02
- Optional blind insert / blanking plate accessory

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HCD049

Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Compliant to IEC62386_101, 103, 351
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 20m (human)
- Conduit thread: M20 * 1.5mm
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading):
  30mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Suitable for

HC049S

Features & Functions

- On/Off control with relay output
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =24m (forklift) / 20m (human)
- Conduit thread: M20 * 1.5mm
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HMW11

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 18m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HMW12

Features & Functions

- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 18m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HMW14

Features & Functions

- DALI broadcast with power supply unit built-in
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 18m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

HMW15

Features & Functions

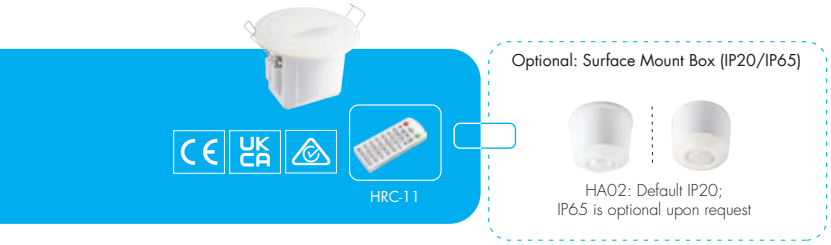
- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 18m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

HMW20



Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA02

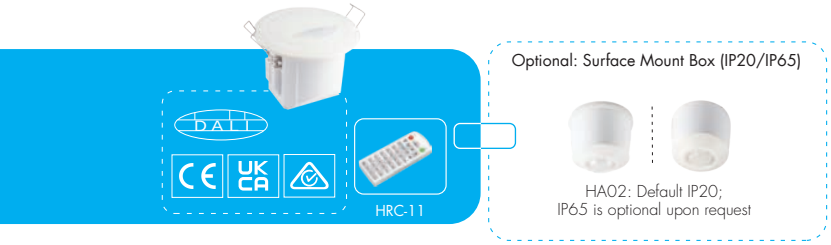
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HMW21



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA02

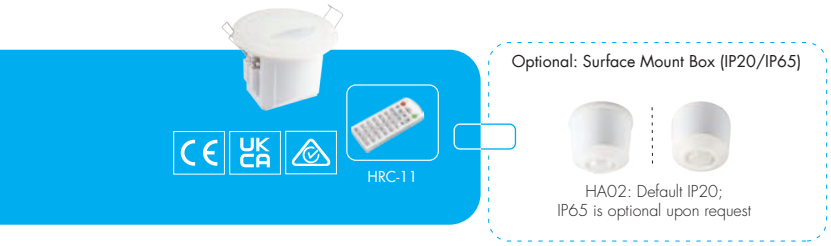
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HMW22



Features & Functions

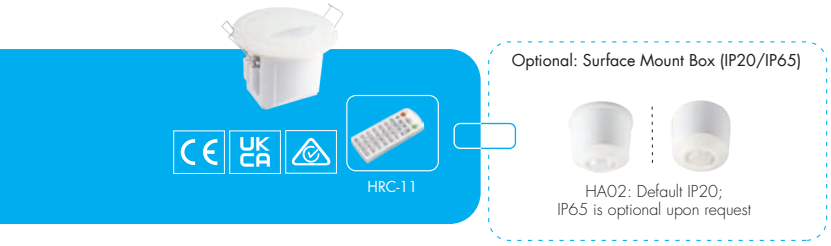
- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional IP20/IP65 ceiling mount box accessory HA02

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HMW24



Features & Functions

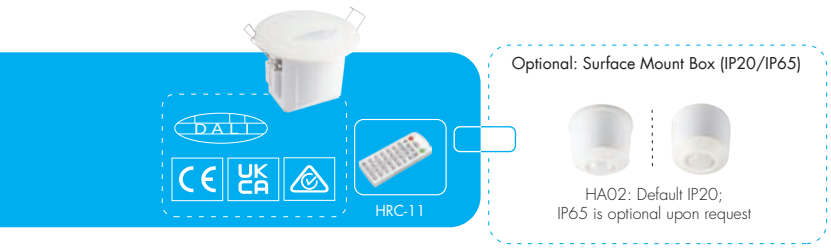
- DALI broadcast with power supply unit built-in
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: Ø =12m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional IP20/IP65 ceiling mount box accessory HA02

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

HMW25



Features & Functions

- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional IP20/IP65 ceiling mount box accessory HA02

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HMW30 Series

Features & Functions

- On/Off control with relay output
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 16m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Industrial Lighting

NEW!

HMW33 Series

A: Surface-mount Version

B: Conduit Version

• Conduit thread: M20 * 2mm

C: Clamp Version

HRC-11

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 16m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW36 Series

A: Surface-mount Version

B: Conduit Version

• Conduit thread: M20 * 2mm

C: Clamp Version

Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Daylight sensor: Photocell
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =26m (forklift) / 16m (human)
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output: DALI/DALI-2 command
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

NEW!

HMW37 Series

A: Surface-mount Version

B: Conduit Version

• Conduit thread: M20 * 2mm

C: Clamp Version

HRC-11

Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Rotary switch for for scene selection / fast programming
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =22m (forklift) / 12m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

HMW38/RF Series

A: Surface-mount Version

B: Conduit Version

• Conduit thread: M20 * 2mm

C: Clamp Version

HRC-11

Features & Functions

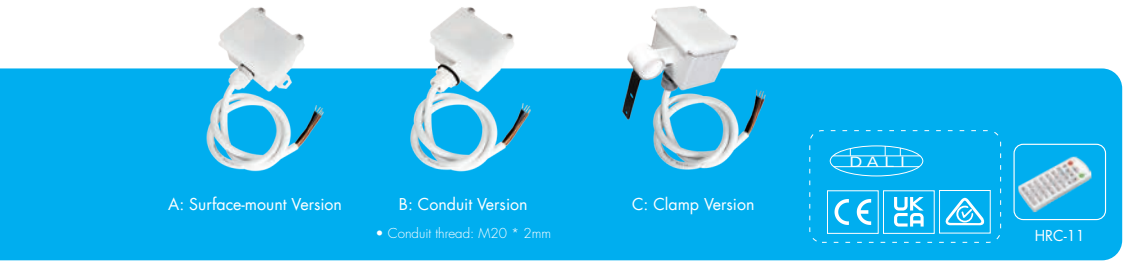
- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK433MHz/FSK868MHz
- 3 installation styles: Surface-mount / Conduit / Clamp
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: ∅ =22m (forklift) / 12m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HMW39/RF Series



Features & Functions

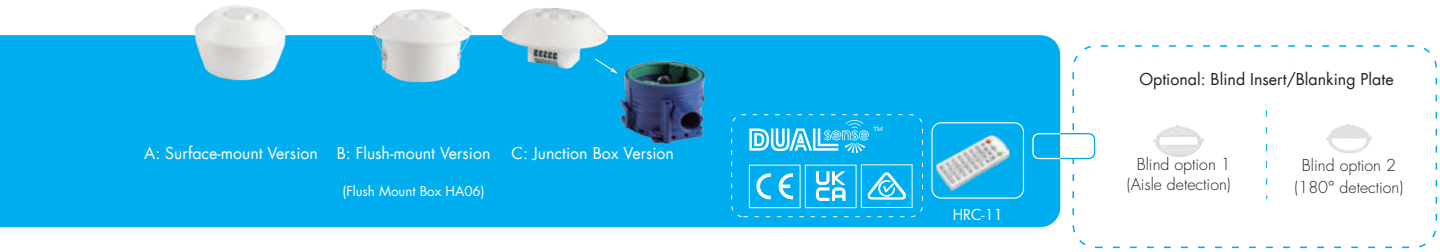
- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK433MHz/FSK868MHz
- 3 installation styles: Surface-mount / Conduit / Clamp
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =22m (forklift) / 12m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Ta: -20°C ~ +50°C

Suitable for

HIM11



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HIM12

Features & Functions

- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) terminal
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

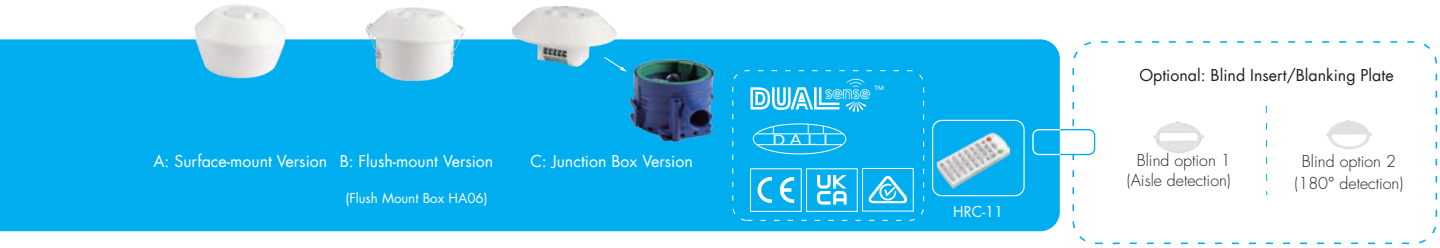
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1600W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIM14



Features & Functions

- DALI broadcast with power supply unit built-in
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIM54

Features & Functions

- DALI broadcast with power supply unit built-in
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =26m (forklift) / 18m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06
- 2 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIM15

Features & Functions

- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH) & Sync terminal
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

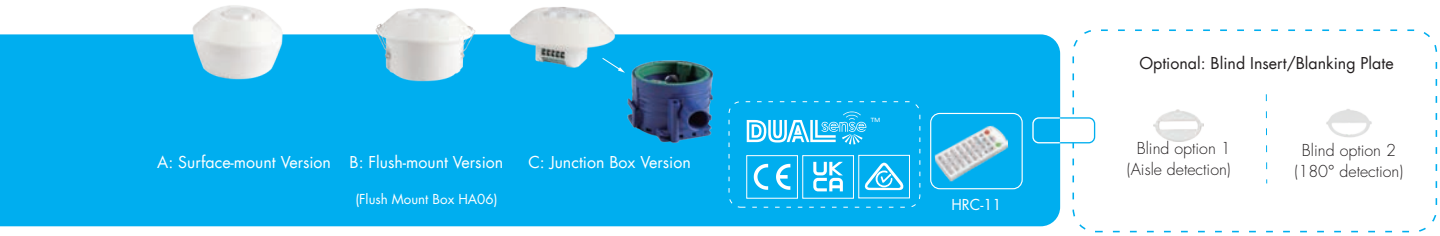
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIM16



Features & Functions

- Trailing edge output
- Daylight harvest (*See pg. 19-21)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH)
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

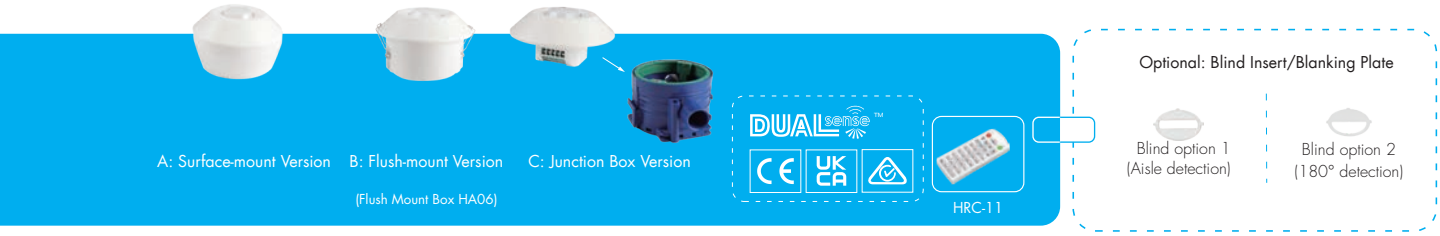
Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 150VA capacitive / 200W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HIM17



Features & Functions

- Trailing edge output
- Tri-level dimming (*See pg. 19)
- 3 installation styles: surface-mount / flush-mount / junction box mount
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- Rotary switch for for scene selection / fast programming
- Max installation height: 6m
- Max detection range: HF: Ø =10m (diameter) PIR: Ø =10m (diameter)
- Sensor settings via handset HRC-11
- Switch-Dim (PUSH)
- Optional blind insert / blanking plate accessory
- Optional flush mount box accessory HA06

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 150VA capacitive / 200W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

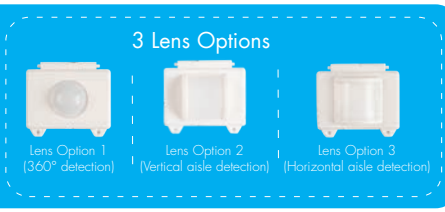
Commercial Lighting

HIM30 Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm

HRC-11



Features & Functions

- On/Off control with relay output
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =26m (forklift) / 16m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

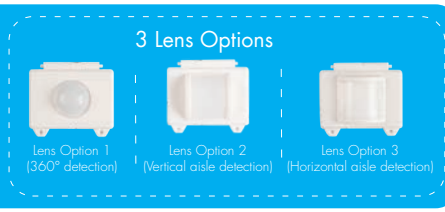
NEW!

HIM33 Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm

HRC-11



Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =26m (forklift) / 16m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

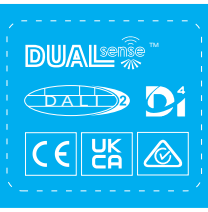
Suitable for

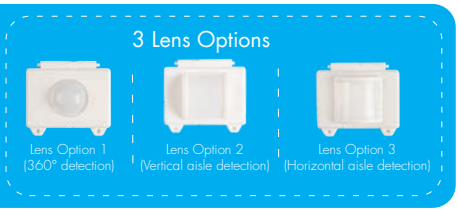
NEW!

HIM36 Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm





Features & Functions

- DALI-2 multi-sensor input device
- Compliant to IEC62386_101, 103, 303, 304, 351
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =26m (forklift) / 16m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Current Consumption: Max. 2mA from DALI Bus
- Output (Max Loading): DALI/DALI-2 command
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

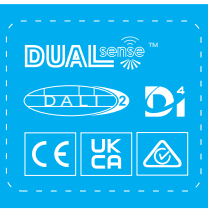
Suitable for

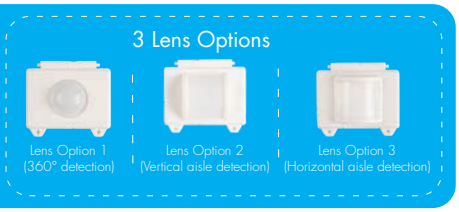
NEW!

HIM37 Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm





Features & Functions

- DALI/DALI-2 with power supply unit built-in
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Support DT8 drivers with tunable white control
- Robust HF antenna design against wireless interference (*See pg. 13)
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Daylight sensor: Photocell
- Active Lux Switching technology (*See pg. 15)
- Rotary switch for for scene selection / fast programming
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =22m (forklift) / 12m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- IP65 rated
- 3 Optional lens cover to choose from with different detection patterns

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

HIM38/RF Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm

DUALsense™

HRC-11

3 Lens Options

Lens Option 1 (360° detection)

Lens Option 2 (Vertical aisle detection)

Lens Option 3 (Horizontal aisle detection)

Features & Functions

- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK433MHz/FSK868MHz
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =22m (forklift) / 12m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 1000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HIM39/RF Series

A: Surface-mount Version B: Conduit Version C: Clamp Version

• Conduit thread: M20 * 2mm

DUALsense™

DALI

HRC-11

3 Lens Options

Lens Option 1 (360° detection)

Lens Option 2 (Vertical aisle detection)

Lens Option 3 (Horizontal aisle detection)

Features & Functions

- DALI broadcast with power supply unit built-in
- Tri-level dimming (*See pg. 19)
- RF transceiver
- RF frenquency options: FSK433MHz/FSK868MHz
- 3 installation styles: Surface-mount / Conduit / Clamp
- Four detection modes: HF only / PIR only / HF or PIR / HF and PIR
- Rotary Switch for quick RF channel pair (*See pg. 22-23)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: HF: Ø =22m (forklift) / 12m (human)
  PIR: Ø =24m (forklift) / 20m (human)
- Sensor settings via handset HRC-11
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 40mA DALI power supply
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Dual-sense™: microwave + passive infrared (HF + PIR) detection (*See pg. 27)
- Ta: -20°C ~ +50°C

Suitable for

HC030S

Features & Functions

- On/Off control with relay output
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =26m (forklift) / 18m (human)
- Conduit thread: M21 * 1.8mm (0.825inch)
- Sensor settings via DIP-Switches
- Optional extended conduit thread

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA/1600W
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HC430S

Features & Functions

- On/Off control with relay output
- Batten-fit / Bolt-on mount style
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =26m (forklift) / 18m (human)
- Conduit thread: M21 * 1.8mm (0.825inch)
- Sensor settings via DIP-Switches
- Optional extended conduit thread

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 1000VA/2000W
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

HC402S/T

Features & Functions

- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Support to be connected to a triac dimmer's output, so that it achieves 10-100% dimming control
- Max installation height: 6m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via DIP-Switches

Technical Data & Specifications

- Input: 120-277VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Retrofit Upgrade

HCD450VDS/RC

HRC-05

Features & Functions

- DALI broadcast with power supply unit built-in
- 1-10V dimming control with relay output
- Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell
- Active Lux Switching technology
- Type of relay: Total 3 relays, one for VFC, two for 0/1-10V & Switched L
- Max installation height: 25m (forklift) / 20m (human)
- Max detection range: 40m (wall mounted)
- Sensor settings via handset HRC-05
- IP65 rated

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading):
  DALI-2: 40mA DALI power supply
  1-10V & On/Off: 2x800VA capacitive / 2x1000W resistive
  Volt-free:≤48VDC(≤2A); ≤240VAC(≤3.6A)
- Warming-up period: 20s
- Microwave detection (HF 10.525GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Industrial Lighting

HC009S/EXT

Features & Functions

- False ceiling sensor
- On/Off control with relay output
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via DIP-Switches

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 400VA capacitive / 1200W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 80A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting

HC019V/EXT

Features & Functions

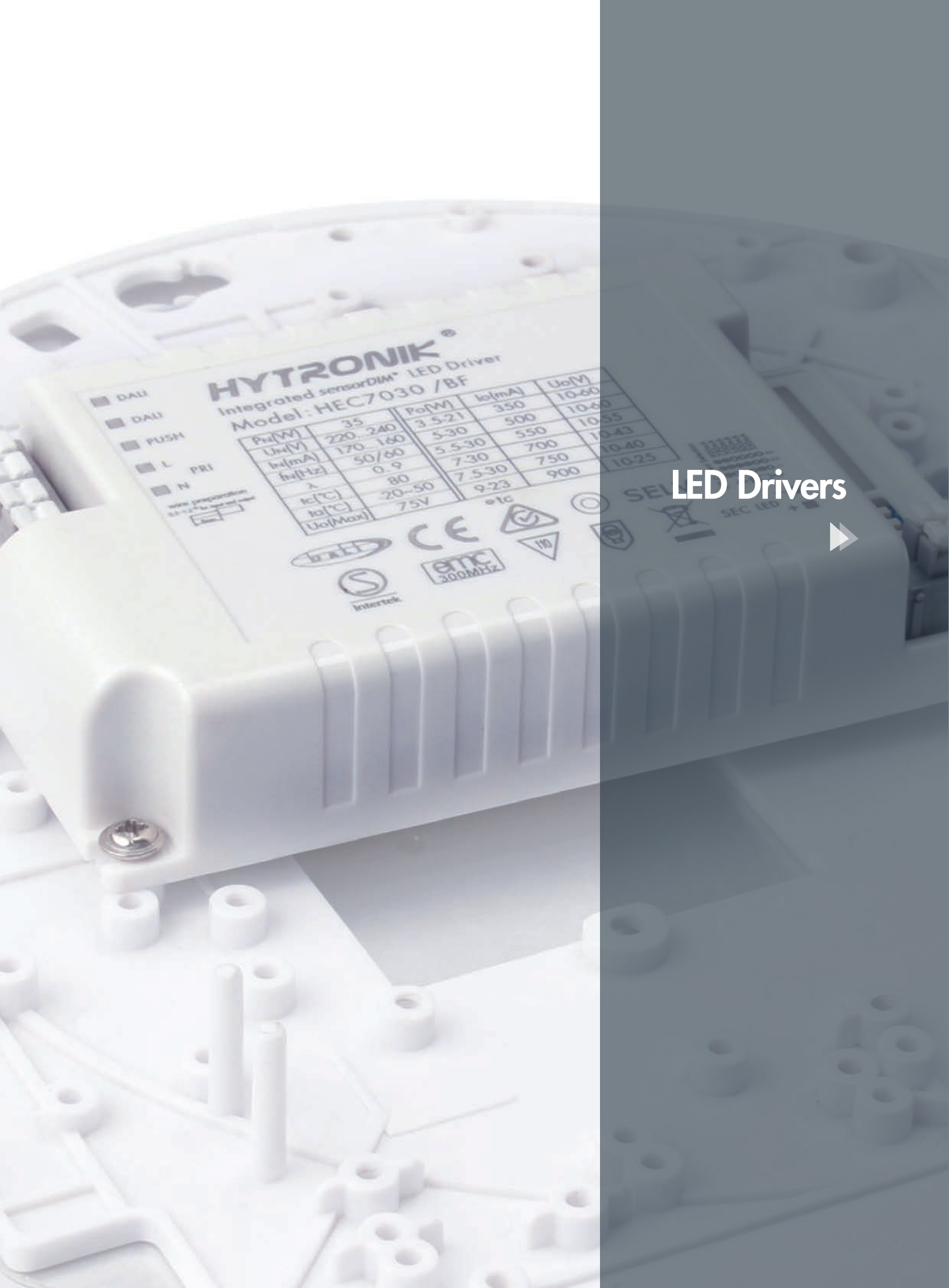
- False ceiling sensor
- 1-10V dimming control with relay output
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode (PD)
- Max installation height: 3m
- Max detection range: ∅ =12m (diameter)
- Sensor settings via DIP-Switches
- Sync terminal (*See pg. 22)

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 800VA capacitive / 2000W resistive
- Warming-up period: 20s
- Microwave detection (HF 5.8GHz ± 75MHz)
- Max withstandable in-rush current: 120A@160μs
- Ta: -20°C ~ +50°C

Suitable for

Commercial Lighting


HYTRONIK
Integrated sensorDIM LED Driver
Model: HEC7030 /BF
DALI
DALI
PUSH
L
N
PRI
emc
300MHz
Intertek

LED Drivers

Overview: Bluetoooth 5.0 Mesh Enabled LED Driver with App

	Type	Input	Output		Tunable White Control	Human Centric Lighting	Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface						
NEW! HED1009/BT	Constant Current	220V-240Vac	45V	Bluetooth Switch-Dim			1-6W/ 200mA /6-30V 1.5-7.5W/ 250mA /6-30V 2-9W/ 300mA /6-30V 2-9W/ 350mA /6-25V 2.5-9W/ 400mA /6-22V 3-9W/ 500mA /6-18V 3.5-9W/ 600mA /6-15V		Insulated Terminal Cover	189
NEW! HED6010/BT	Constant Current	220V-240Vac	52V	Switch-Dim Bluetooth			1.5-8W/ 195mA /6-41V 1.5-9W/ 230mA /6-41V 1.5-10W/ 250mA /6-41V 2-12W/ 300mA /6-41V 2.5-12.8W/ 350mA /6-36V 2.5-12.8W/ 400mA /6-32V 3-12.5W/ 500mA /6-25V.		Insulated Terminal Cover	189
NEW! HED1025/BT	Constant Current	220V-240Vac	60V	Switch-Dim Bluetooth			2-15W/ 300mA /6-48V 2-17W/ 350mA /6-48V 2-20W/ 400mA /6-48V 3-22W/ 450mA /6-48V 3-24W/ 500mA /6-46V 3-24W/ 550mA /6-44V 4-25W/ 600mA /6-42V 4-25W/ 650mA /6-38V 4-25W/ 700mA /6-36V			189
NEW! HBE9028/KD	Constant Current	220V-240Vac	55V	Bluetooth			13-28W/ 865mA /15-33V	Category C, see pg. 88	Insulated Terminal Cover	189
NEW! HED7030/BT	Constant Current	220V-240Vac	75V	Bluetooth			3.5-20W/ 350mA /10-57V 5-29W/ 500mA /10-57V 5.5-30W/ 550mA /10-55V 7-30W/ 700mA /10-43V 7.5-30W/ 750mA /10-40V 9-23W/ 900mA /10-25V	Category C, see pg. 88	Insulated Terminal Cover	190
NEW! HED1040/BT	Constant Current	220V-240Vac	65V	Switch-Dim Bluetooth			2-18W/ 350mA /6-50V 2-20W/ 400mA /6-50V 2-23W/ 450mA /6-50V 3-25W/ 500mA / 6-50V 3-28W/ 550mA /6-50V 3-30W/ 600mA /6-50V 4-33W/ 650mA /6-50V 4-35W/ 700mA /6-50V 4-38W/750mA /6-50V 5-40W/ 800mA /6-50V 5-40W/ 850mA /6-47V 5-38W/ 900mA /6-42V			190

Overview: Bluetoooth 5.0 Mesh Enabled LED Driver with App

	Type	Input	Output		Tunable White Control	Human Centric Lighting	Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface						
NEW! HED6045/BT	Constant Current	220V-240Vac	75V	Switch-Dim Bluetooth			3.5-19W/ 350mA /10-54V 5-27W/ 500mA /10-54V 6-32W/ 600mA /10-54V 7-38W/ 700mA /10-54V 8-42W/ 800mA /10-52V 9-45W/ 900mA /10-50V 9.5-45W/950mA /10-47V 10-45W/1000mA /10-45V 10.5-44W/1050mA /10-42V		Insulated Terminal Cover	190
NEW! HED8025/BT	Constant Current	220V-240Vac	60V	Switch-Dim Bluetooth	√	√	2-13W/ 250mA /10-52V 3-16W/ 300mA /10-52V 4-18W/ 350mA /10-52V 5-25W/ 500mA /10-50V 6-25W/ 600mA /10-42V 7-25W/ 700mA /10-35V 8-23W/ 750mA /10-30V		Insulated Terminal Cover	190
NEW! HED8025V/BT	Constant Voltage	220V-240Vac	24V	Switch-Dim Bluetooth	√	√	25W/ 1050mA /24V		Insulated Terminal Cover	191
NEW! HED8030/BT	Constant Current	220V-240Vac	65V	Switch-Dim Bluetooth	√	√	3-15W/ 300mA /10-50V 3-18W/ 350mA /10-50V 4-20W/ 400mA /10-50V 4-23W/ 450mA /10-50V 5-25W/ 500mA /10-50V 5-28W/ 550mA /10-50V 6-30W/ 600mA /10-50V 6-30W/ 650mA /10-46V 7-28W/ 700mA /10-40V			191
NEW! HED8040/BT	Constant Current	220V-240Vac	65V	Switch-Dim Bluetooth	√	√	2-18W/ 350mA /6-50V 2-20W/ 400mA /6-50V 2-23W/ 450mA /6-50V 3-25W/ 500mA / 6-50V 3-28W/ 550mA /6-50V 3-30W/ 600mA /6-50V 4-33W/ 650mA /6-50V 4-35W/ 700mA /6-50V 4-38W/750mA /6-50V 5-40W/ 800mA /6-50V 5-40W/ 850mA /6-47V 5-38W/ 900mA /6-42V			191
NEW! HED8045/BT	Constant Current	220V-240Vac	63V	Switch-Dim Bluetooth	√	√	7-24W/ 500mA /15-48V 9-29W/ 600mA /15-48V 10-34W/ 700mA /15-48V 12-38W/ 800mA /15-48V 13-43W/ 900mA /15-48V 15-43W/ 1000mA /15-43V	Category C, see pg. 88	Insulated Terminal Cover	191

Overview: DALI-2 Output (with Switch-Dim)

	Type	Input	Output		DALI-2 DT6/DT8	Tunable White Control	Max. Output Power/ Current/Voltage Range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface						
NEW! HED1009/D2	Constant Current	220V-240Vac	45V	Switch-Dim	DT6		1-6W/ 200mA /6-30V 1.5-7.5W/ 250mA /6-30V 2-9W/ 300mA /6-30V 2-9W/ 350mA /6-25V 2.5-9W/ 400mA /6-22V 3-9W/ 500mA /6-18V 3.5-9W/ 600mA /6-15V		Insulated Terminal Cover	192
HED6010	Constant Current	220V-240Vac	52V	Switch-Dim	DT6		1.5-8W/ 195mA /6-41V 1.5-9W/ 230mA /6-41V 1.5-10W/ 250mA /6-41V 2-12W/ 300mA /6-41V 2.5-12.8W/ 350mA /6-36V 2.5-12.8W/ 400mA /6-32V 3-12.5W/ 500mA /6-25V		Insulated Terminal Cover	192
NEW! HED1025/D2	Constant Current	220V-240Vac	60V	Switch-Dim	DT6		3-15W/ 300mA /10-50V 3.5-17W/ 350mA /15-50V 4-20W/ 400mA /10-50V 4.5-22W/ 450mA /10-48V 5-24W/ 500mA /10-48V 5.5-24W/ 550mA /10-44V 6-25W/ 600mA /10-42V 6.5-25W/ 650mA /10-38V 7-25W/ 700mA /10-36V			192
NEW! HEC7030/BF	Constant Current	220V-240Vac	75V	Switch-Dim	DT6		3.5-20W/350mA /10-57V 5-29W/ 500mA /10-57V 5.5-30W/ 550mA /10-55V 7-30W/ 700mA /10-43V 7.5-30W/ 750mA /10-40V 9-23W/ 900mA /10-25V	Category A, see pg. 80 Category B, see pg. 85		192
NEW! HED1040/D2	Constant Current	220V-240Vac	60V	Switch-Dim	DT6		4-33W/700mA /6-48V 4.5-36W/ 750mA /6-48V 5-37W/ 800mA /6-46V 5-39W/ 850mA /6-46V 5.5-40W/ 900mA /6-44V 5.5-40W/ 950mA /6-42V 6-40W/ 1000mA /6-40V 6.5-40W/ 1050mA /6-38V 6.5-40W/ 1100mA /6-36V 7-40W/ 1150mA /6-35V 7-40W/ 1200mA /6-34V			193
NEW! HED1060/D2	Constant Current	220V-240Vac	75V		DT6		4-33W/700mA /6-48V 4.5-36W/ 750mA /6-48V 5-37W/ 800mA /6-46V 5-39W/ 850mA /6-46V 5.5-40W/ 900mA /6-44V 5.5-40W/ 950mA /6-42V 6-40W/ 1000mA /6-40V 6.5-40W/ 1050mA /6-38V 6.5-40W/ 1100mA /6-36V 7-40W/ 1150mA /6-35V 7-40W/ 1200mA /6-34V			193

Overview: DALI-2 Output (with Switch-Dim)

	Type	Input	Output		DALI-2 DT6/DT8	Tunable White Control	Max. Output Power/ Current/Voltage Range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface						
NEW! HED6045/D2	Constant Current	220V-240Vac	75V	Switch-Dim	DT6		3.5-19W/ 350mA /10-54V 4.5-24W/ 450mA /10-54V 5-27W/ 500mA /10-54V 5.5-30W/ 550mA /10-54V 6-32W/ 600mA /10-54V 6.5-35W/ 650mA /10-54V 7-38W/ 700mA /10-54V 7.5-39W/ 750mA /10-52V 8-42W/ 800mA /10-52V 8.5-43W/ 850mA /10-50V 9-45W/ 900mA /10-50V 10-45W/ 1000mA /10-45V		Insulated Terminal Cover	193
NEW! HED8025	Constant Current	220V-240Vac	60V	Switch-Dim	DT8	√	2-13W/ 250mA /10-52V 3-16W/ 300mA /10-52V 4-18W/ 350mA /10-52V 5-25W/ 500mA /10-50V 6-25W/ 600mA /10-42V 7-25W/ 700mA /10-35V 8-23W/ 750mA /10-30V		Insulated Terminal Cover	193
NEW! HED8025V	Constant Voltage	220V-240Vac	24V	Switch-Dim	DT8	√	25W/1050mA /24V		Insulated Terminal Cover	194
NEW! HED8030	Constant Current	220V-240Vac	65V	Switch-Dim	DT8	√	3-15W/300mA /10-50V 3-18W/ 350mA /10-50V 4-20W/ 400mA /10-50V 4-23W/ 450mA /10-50V 5-25W/ 500mA /10-50V 5-28W/550mA /10-50V 6-30W/ 600mA /10-50V 6-30W/ 650mA /10-46V 7-28W/ 700mA /10-40V		Insulated Terminal Cover	194
NEW! HED8040	Constant Current	220V-240Vac	65V	Switch-Dim	DT8	√	2-18W/350mA /6-50V 2-20W/ 400mA /6-50V 2-23W/ 450mA /6-50V 3-25W/ 500mA / 6-50V 3-28W/550mA /6-50V 3-30W/ 600mA /6-50V 4-33W/ 650mA /6-50V 4-35W/ 700mA /6-50V 4-38W/750mA /6-50V 5-40W/ 800mA /6-50V 5-40W/ 850mA /6-47V 5-38W/ 900mA /6-42V			194
NEW! HED8045	Constant Current	220V-240Vac	63V	Switch-Dim	DT8	√	7-24W/500mA /15-48V 9-29W/ 600mA /15-48V 10-34W/ 700mA /15-48V 12-38W/ 800mA /15-48V 13-43W/ 900mA /15-48V 15-43W/ 1000mA /15-43V	Category A, see pg. 80 Category B, see pg. 85	Insulated Terminal Cover	194

Overview: DALI / 1-10V Output (with Switch-Dim)

	Type	Input	Output		Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface				
NEW! HED6045/D2	Constant Current	220V-240Vac	75V	DALI, Switch-Dim, 1-10V	3.5-19W/ 350mA /10-54V 4.5-24W/ 450mA /10-54V 5-27W/ 500mA /10-54V 5.5-30W/ 550mA /10-54V 6-32W/ 600mA /10-54V 6.5-35W/ 650mA /10-54V 7-38W/ 700mA /10-54V 7.5-39W/ 750mA /10-52V 8-42W/ 800mA /10-52V 8.5-43W/ 850mA /10-50V 9-45W/ 900mA /10-50V 10-45W/ 1000mA /10-45V		Insulated Terminal Cover	193
HED2020	Constant Current Constant Voltage	220V-240Vac	80V	DALI, Switch-Dim	15W/ 350m A /9~45V 20W/ 500mA /9~43V 20W/ 700mA /9~30V 20W/ 900mA /9~23V Constant voltage: 10W/12V; 20W/24V		Insulated Terminal Cover	195
HED2040	Constant Current	220V-240Vac	80V	DALI, Switch-Dim, 1-10V	20W/ 350mA /12-58V 23W/ 400mA /12-58V 26W/ 450mA /12-58V 29W/ 500mA /12-58V 32W/ 550mA /12-58V 35W/ 600mA /12-58V 38W/ 650mA /12-58V 40W/ 700mA / 12-58V 42W/ 750mA /12-56V 45W/ 800mA /12-56V 45W/ 850mA /12-53V 45W/ 900mA /12-50V 45W/ 950mA /12-47V 45W/ 1000mA /12-45V 45W/ 1050mA /12-43V 45W/ 1100mA /12-41V		Insulated Terminal Cover	195
HED2050	Constant Current	220V-240Vac	80V	DALI, Switch-Dim, 1-10V	40.5W/ 700mA /12-58V 43.5W/ 750mA /12-58V 46.5W/ 800mA /12-58V 49W/ 850mA /12-58V 50W/ 900mA /12-56V 50W/ 950mA /12-53V 50W/ 1000mA /12-50V 50W/ 1050mA / 12-48V 50W/ 1100mA /12-45V 50W/ 1150mA /12-43V 50W/ 1200mA /12-42V 50W/ 1250mA /12-40V 50W/ 1300mA /12-38V 50W/ 1350mA /12-37V 50W/ 1400mA /12-36V		Insulated Terminal Cover	195

Overview: DALI / 1-10V Output (with Switch-Dim)

	Type	Input	Output		Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface				
HED6020	Constant Current	220V-240Vac	60V	DALI, Switch-Dim, 1-10V	15.5W/ 350mA /10-45V 21.5W/ 500mA /10-43V 21W/ 700mA /10-30V 20.5W/ 900mA /10-23V		Insulated Terminal Cover	195
HED4030-A	Constant Current	220V-240Vac	12V	DALI, Switch-Dim, 1-10V	30W/ 2500mA /12V		Insulated Terminal Cover	196
HED6030-A	Constant Current	220V-240Vac	24V	DALI, Switch-Dim, 1-10V	30W/ 1250mA /24V		Insulated Terminal Cover	196
HED2075-A	Constant Voltage	220V-240Vac	12V	DALI, Switch-Dim, 1-10V	75W/ 6250mA /12V		Insulated Terminal Cover	196
HED3075-A	Constant Voltage	220V-240Vac	24V	DALI, Switch-Dim, 1-10V	75W/ 3125mA /24V		Insulated Terminal Cover	196
HED1025	Constant Current	220V-240Vac	90V	DALI, Switch-Dim	19.5W/ 325mA /12-60V 21W/ 350mA /12-60V 22.5W/ 375mA /12-60V 24W/ 400mA /12-60V 25.5W/ 425mA /12-60V 27W/ 450mA /12-60V 26W/ 475mA /12-55V 27.5W/ 500mA /12-55V 26W/ 525mA /12-50V 27.5W/ 550mA /12-50V 26W/ 575mA /12-45V 27W/ 600mA /12-45V 28W/ 625mA /12-45V 28W/ 650mA /12-43V 27W/ 675mA /12-40V 28W/ 700mA /12-40V	Category A, see pg. 80 Category B, see pg. 85		197
HED1045	Constant Current	220V-240Vac	75V	DALI, Switch-Dim, 1-10V	28W/ 500mA /12~56V 40W/ 700mA /12~56V 45W/ 900mA /12~50V 45W/ 1050mA /12~42V 40W/ 1200mA /12~34V 40W/ 1400mA /12~28V	Category A, see pg. 80 Category B, see pg. 85	Insulated Terminal Cover	197

Overview: DALI / 1-10V Output (with Switch-Dim)

	Type	Input	Output		Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface				
HED1050L	Constant Current	220V-240Vac	200V	DALI, Switch-Dim, 1-10V	34W/225mA /36~150V 38W/ 250mA /36~150V 41W/ 275mA /36~150V 45W/ 300mA /36~150V 49W/325mA /36~150V 50W/ 350mA /36~140V 50W/ 375mA /36~130V 50W/ 400mA /36~125V 50W/ 425mA /36~115V 50W/ 450mA /36~110V 50W/ 475mA /36~105V 50W/ 500mA /36~100V 50W/ 525mA /36~95V 50W/ 550mA /36~90V 50W/ 575mA /36~86V 50W/ 600mA /36~83V	Category A, see pg. 80 Category B, see pg. 85		197
HED1050H	Constant Current	220V-240Vac	110V	DALI, Switch-Dim, 1-10V	40W/ 500mA /12~80V 44W/ 550mA /12~80V 49W/ 600mA /12~80V 49W/ 650mA /12~75V 49W/700mA /12~70V 50W/ 750mA /12~66V 50W/ 800mA /12~62V 50W/ 850mA /12~59V 49W/ 900mA /12~55V 49W/ 950mA /12~53V 50W/ 1000mA /12~50V 50W/ 1050mA /12~47V 50W/ 1100mA /12~45V 50W/ 1150mA /12~43V 50W/ 1200mA /12~42V	Category A, see pg. 80 Category B, see pg. 85		198
HED1080H	Constant Current	220V-240Vac	120V	DALI, Switch-Dim, 1-10V	67W/ 900mA /16-75V 71W/ 950mA /16-75V 75W/ 1000mA /16-75V 78W/ 1050mA /16-74V 79W/ 1100mA /16-72V 80W/ 1150mA /16-70V 80W/ 1200mA /16-66V 80W/ 1250mA /16-64V 80W/ 1300mA /16-61V 80W/ 1350mA /16-59V 80W/ 1400mA /16-57V 80W/ 1450mA /16-55V 80W/ 1500mA /16-53V 80W/ 1550mA /16-51V 80W/ 1600mA /16-50V 80W/ 1650mA /16-48V	Category A, see pg. 80 Category B, see pg. 85		198

Overview: DALI / 1-10V Output (with Switch-Dim)

	Type	Input	Output		Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
			Uout max.	Dimming Interface				
HE1008-A	Constant Current	220V-240Vac	38V	Switch-Dim, 1-10V	2-8W/ 350mA /6-24V 3-8W/ 500mA /6-16V 3-8W/ 550mA /6-15V		Insulated Terminal Cover	198
HE8008-A	Constant Current	220V-240Vac	38V	Switch-Dim, 1-10V	2-8W/ 350mA /6-24V 3-8W/ 500mA /6-16V 3-8W/ 550mA /6-15V			199
HE8030-A	Constant Current	220V-240Vac	80V	Switch-Dim, 1-10V	15W/ 250mA /12-60V 21W/ 350mA /12-60V 24W/ 400mA /12-60V 27W/ 450mA /12-60V 30W/ 500mA /12-60V 30W/ 550mA /12-54V 30W/ 600mA /12-50V 30W/ 700mA /12-43V		Insulated Terminal Cover	199
HE8050-A	Constant Current	220V-240Vac	100V	Switch-Dim, 1-10V	25W/ 350mA /15-72V 36W/ 500mA /15-72V 40W/ 550mA /15-72V 43W/ 600mA /15-72V 47W/ 650mA /15-72V 50W/ 700mA /15-72V 50W/ 800mA /15-63V 50W/ 900mA /15-56V 50W/ 1050mA /15-48V		Insulated Terminal Cover	199
HE4030-A	Constant Voltage	220V-240Vac	12V	Switch-Dim, 1-10V	30W / 2500mA / 12V		Insulated Terminal Cover	199
HE6030-A	Constant Voltage	220V-240Vac	24V	Switch-Dim, 1-10V	30W / 1250mA / 24V		Insulated Terminal Cover	200
HE2075-A	Constant Voltage	220V-240Vac	12V	Switch-Dim, 1-10V	75W / 6250mA / 12V		Insulated Terminal Cover	200

Overview: Human Centric Lighting & Tunable White Control

	Type	Bluetooth	Input	Output		HCL /TW	Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
				Uout max.	Dimming Interface					
NEW! HED8025/BT	Constant Current	√	220V-240Vac	60V	Bluetooth Dim	Human Centric Lighting	2-13W/ 250mA /10-52V 3-16W/ 300mA /10-52V 4-18W/ 350mA /10-52V 5-25W/ 500mA /10-50V 6-25W/ 600mA /10-42V 7-25W/ 700mA /10-35V 8-23W/ 750mA /10-30V		Insulated terminal cover	190
NEW! HED8025V/BT	Constant Voltage	√	220V-240Vac	24V	Bluetooth Dim	Human Centric Lighting	25W/1050mA /24V		Insulated terminal cover	191
NEW! HED8030/BT	Constant Current	√	220V-240Vac	65V	Bluetooth Dim	Human Centric Lighting	3-15W/300mA /10-50V 3-18W/ 350mA /10-50V 4-20W/ 400mA /10-50V 4-23W/ 450mA /10-50V 5-25W/ 500mA /10-50V 5-28W/550mA /10-50V 6-30W/ 600mA /10-50V 6-30W/ 650mA /10-46V 7-28W/ 700mA /10-40V			191
NEW! HED8040/BT	Constant Current	√	220V-240Vac	65V	Bluetooth Dim	Human Centric Lighting	2-18W/350mA /6-50V 2-20W/ 400mA /6-50V 2-23W/ 450mA /6-50V 3-25W/ 500mA / 6-50V 3-28W/550mA /6-50V 3-30W/ 600mA /6-50V 4-33W/ 650mA /6-50V 4-35W/ 700mA /6-50V 4-38W/750mA /6-50V 5-40W/ 800mA /6-50V 5-40W/ 850mA /6-47V 5-38W/ 900mA /6-42V			191
NEW! HED8045/BT	Constant Current	√	220V-240Vac	63V	Bluetooth Dim	Human Centric Lighting	7-24W/500mA /15-48V 9-29W/ 600mA /15-48V 10-34W/ 700mA /15-48V 12-38W/ 800mA /15-48V 13-43W/ 900mA /15-48V 15-43W/ 1000mA /15-43V	Category C, see pg. 88	Insulated terminal cover	191
NEW! HED8025	Constant Current		220V-240Vac	60V	DALI, Switch-Dim	Tunable White	2-13W/ 250mA /10-52V 3-16W/ 300mA /10-52V 4-18W/ 350mA /10-52V 5-25W/ 500mA /10-50V 6-25W/ 600mA /10-42V 7-25W/ 700mA /10-35V 8-23W/ 750mA /10-30V		Insulated terminal cover	193

Overview: Human Centric Lighting & Tunable White Control

	Type	Bluetooth	Input	Output		HCL /TW	Max. Output Power/ Current/Voltage range	RJ12 Port for Sensor Connection	Optional Accessory	Page
				Uout max.	Dimming Interface					
NEW! HED8025V	Constant Voltage		220V-240Vac	24V	DALI, Switch-Dim	Tunable White	25W/1050mA /24V		Insulated terminal cover	194
NEW! HED8030	Constant Current		220V-240Vac	65V	DALI, Switch-Dim	Tunable White	3-15W/300mA /10-50V 3-18W/ 350mA /10-50V 4-20W/ 400mA /10-50V 4-23W/ 450mA /10-50V 5-25W/ 500mA /10-50V 5-28W/550mA /10-50V 6-30W/ 600mA /10-50V 6-30W/ 650mA /10-46V 7-28W/ 700mA /10-40V		Insulated terminal cover	194
NEW! HED8040	Constant Current		220V-240Vac	65V	DALI, Switch-Dim	Tunable White	2-18W/350mA /6-50V 2-20W/ 400mA /6-50V 2-23W/ 450mA /6-50V 3-25W/ 500mA / 6-50V 3-28W/550mA /6-50V 3-30W/ 600mA /6-50V 4-33W/ 650mA /6-50V 4-35W/ 700mA /6-50V 4-38W/750mA /6-50V 5-40W/ 800mA /6-50V 5-40W/ 850mA /6-47V 5-38W/ 900mA /6-42V			194
NEW! HED8045	Constant Current		220V-240Vac	63V	DALI, Switch-Dim	Tunable White	7-24W/500mA /15-48V 9-29W/ 600mA /15-48V 10-34W/ 700mA /15-48V 12-38W/ 800mA /15-48V 13-43W/ 900mA /15-48V 15-43W/ 1000mA /15-43V	Category A, see pg. 80 Category B, see pg. 85	Insulated terminal cover	194

NEW!

HED1009/BT

Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 120mm * 30mm * 21mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 9W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  1-6W/ 200mA /6-30V, 1.5-7.5W/ 250mA /6-30V
  2-9W/ 300mA /6-30V, 2-9W/ 350mA /6-25V
  2.5-9W/ 400mA /6-22V, 3-9W/ 500mA /6-18V
  3.5-9W/ 600mA /6-15V

NEW!

HED6010/BT

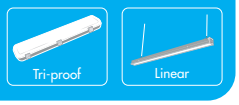
Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 150mm * 52mm * 28mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 12.5W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  1.5-8W/ 195mA /6-41V, 1.5-9W/ 230mA /6-41V
  1.5-10W/ 250mA /6-41V, 2-12W/ 300mA /6-41V
  2.5-12.8W/ 350mA /6-36V, 2.5-12.8W/ 400mA /6-32V
  3-12.5W/ 500mA /6-25V

NEW!

HED1025/BT

Suitable for



- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 245mm * 25.5mm * 21mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Max. Output Power/Current/Voltage range:
  3-15W/ 300mA /10-50V, 3.5-17W/ 350mA /15-50V
  4-20W/ 400mA /10-50V, 4.5-22W/ 450mA /10-48V
  5-24W/ 500mA /10-48V, 5.5-24W/ 550mA /10-44V
  6-25W/ 600mA /10-42V, 6.5-25W/ 650mA /10-38V
  7-25W/ 700mA /10-36V

NEW!

HBE9028/KD

Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: Ø * H = 130.1mm * 28mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 28W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category C for all HF & PIR sensor head options (*See pg. 88)
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  13-28W/ 865mA /15-33V

NEW!

HED7030/BT

Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 30W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional motion sensor pluggable (Sensor-Dim)
- See category C for all HF & PIR sensor head options (*See pg. 88)
- Max. Output Power/Current/Voltage range:
  3.5-20W/ 350mA /10-57V, 5-29W/ 500mA /10-57V
  5.5-30W/ 550mA /10-55V, 7-30W/ 700mA /10-43V
  7.5-30W/ 750mA /10-40V, 9-23W/ 900mA /10-25V

NEW!

HED1040/BT

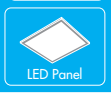
Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 330mm * 32mm * 27mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 40W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Max. Output Power/Current/Voltage range:
  2-18W/ 350mA /6-50V, 2-20W/ 400mA /6-50V
  2-23W/ 450mA /6-50V, 3-25W/ 500mA / 6-50V
  3-28W/ 550mA /6-50V, 3-30W/ 600mA /6-50V
  4-33W/ 650mA /6-50V, 4-35W/ 700mA /6-50V
  4-38W/750mA /6-50V, 5-40W/ 800mA /6-50V
  5-40W/ 850mA /6-47V, 5-38W/ 900mA /6-42V

NEW!

HED6045/BT

Suitable for



- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 45W
- Dimmable (via Bluetooth & Switch-Dim)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  3.5-19W/ 350mA /10-54V, 5-27W/ 500mA /10-54V
  6-32W/ 600mA /10-54V, 7-38W/ 700mA /10-54V
  8-42W/ 800mA /10-52V, 9-45W/ 900mA /10-50V
  9.5-45W/950mA /10-47V, 10-45W/1000mA /10-45V
  10.5-44W/1050mA /10-42V

NEW!

HED8025/BT

Suitable for

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Dimmable & Tunable white control (via Bluetooth & Switch-Dim)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  2-13W/ 250mA /10-52V, 3-16W/ 300mA /10-52V
  4-18W/ 350mA /10-52V, 5-25W/ 500mA /10-50V
  6-25W/ 600mA /10-42V, 7-25W/ 700mA /10-35V
  8-23W/ 750mA /10-30V

NEW!

HED8025V/BT

Suitable for

Commercial Lighting

Retrofit Upgrade

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Voltage 24V (CV)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Dimmable & Tunable white control (via Bluetooth & Switch-Dim)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage: 25W/ 1050mA /24V

NEW!

HED8030/BT

Suitable for

Linear

Pendant

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 269mm * 36mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 30W
- Dimmable & Tunable white control (via Bluetooth & Switch-Dim)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Max. Output Power/Current/Voltage range:
  3-15W/ 300mA /10-50V, 3-18W/ 350mA /10-50V
  4-20W/ 400mA /10-50V, 4-23W/ 450mA /10-50V
  5-25W/ 500mA /10-50V, 5-28W/ 550mA /10-50V
  6-30W/ 600mA /10-50V, 6-30W/ 650mA /10-46V
  7-28W/ 700mA /10-40V

NEW!

HED8040/BT

Suitable for

Linear

Pendant

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 330mm * 32mm * 27mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 40W
- Dimmable & Tunable white control (via Bluetooth & Switch-Dim)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Max. Output Power/Current/Voltage range:
  2-18W/ 350mA /6-50V, 2-20W/ 400mA /6-50V
  2-23W/ 450mA /6-50V, 3-25W/ 500mA / 6-50V
  3-28W/ 550mA /6-50V, 3-30W/ 600mA /6-50V
  4-33W/ 650mA /6-50V, 4-35W/ 700mA /6-50V
  4-38W/750mA /6-50V, 5-40W/ 800mA /6-50V
  5-40W/ 850mA /6-47V, 5-38W/ 900mA /6-42V

NEW!

HED8045/BT

Suitable for

Commercial Lighting

Retrofit Upgrade

LED Panel

Pendant

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 43W
- Dimmable & Tunable white control (via Bluetooth & Switch-Dim)
- Human Centric Lighting / Circadian Rhythm (*See pg. 24)
- Multiple current selection via DIP-Switches
- Mobile/tablet app & PC web platform control
- 2 Switch-Dim (PUSH) terminals
- Optional motion sensor pluggable (Sensor-Dim)
- See category C for all HF & PIR sensor head options (*See pg. 88)
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  7-24W/ 500mA /15-48V, 9-29W/ 600mA /15-48V
  10-34W/ 700mA /15-48V, 12-38W/ 800mA /15-48V
  13-43W/ 900mA /15-48V, 15-43W/ 1000mA /15-43V

NEW!

HED1009/D2

Suitable for

Commercial Lighting

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 120mm * 30mm * 21mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 9W
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  1-6W/ 200mA /6-30V, 1.5-7.5W/ 250mA /6-30V
  2-9W/ 300mA /6-30V, 2-9W/ 350mA /6-25V
  2.5-9W/ 400mA /6-22V, 3-9W/ 500mA /6-18V
  3.5-9W/ 600mA /6-15V

HED6010

Suitable for

Commercial Lighting

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 150mm * 52mm * 28mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 12.5W
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  1.5-8W/ 195mA /6-41V, 1.5-9W/ 230mA /6-41V
  1.5-10W/ 250mA /6-41V, 2-12W/ 300mA /6-41V
  2.5-12.8W/ 350mA /6-36V, 2.5-12.8W/ 400mA /6-32V
  3-12.5W/ 500mA /6-25V

NEW!

HED1025/D2

Suitable for

Tri-proof

Linear

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 245mm * 25.5mm * 21mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  3-15W/ 300mA /10-50V, 3.5-17W/ 350mA /15-50V
  4-20W/ 400mA /10-50V, 4.5-22W/ 450mA /10-48V
  5-24W/ 500mA /10-48V, 5.5-24W/ 550mA /10-44V
  6-25W/ 600mA /10-42V, 6.5-25W/ 650mA /10-38V
  7-25W/ 700mA /10-36V

NEW!

HEC7030/BF

Suitable for

Bulkhead

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 30W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Max. Output Power/Current/Voltage range:
  3.5-20W/350mA /10-57V, 5-29W/ 500mA /10-57V
  5.5-30W/ 550mA /10-55V, 7-30W/ 700mA /10-43V
  7.5-30W/ 750mA /10-40V, 9-23W/ 900mA /10-25V

Full Product Specifications - - - HED1040/D2 & HED1060/D2 & HED6045/D2 &HED8025

NEW!

HED1040/D2

Suitable for

Tri-proof

Linear

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 280mm * 29.5mm * 20.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 40W
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  4-33W/700mA /6-48V, 4.5-36W/ 750mA /6-48V
  5-37W/ 800mA /6-46V, 5-39W/ 850mA /6-46V
  5.5-40W/ 900mA /6-44V, 5.5-40W/ 950mA /6-42V
  6-40W/ 1000mA /6-40V, 6.5-40W/ 1050mA /6-38V
  6.5-40W/ 1100mA /6-36V, 7-40W/ 1150mA /6-35V
  7-40W/ 1200mA /6-34V

NEW!

HED1060/D2

Suitable for

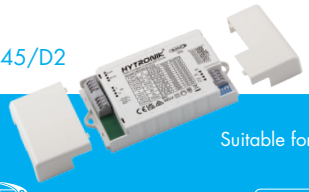
Tri-proof

Linear

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 356mm * 30mm * 21mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 60W
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  4-33W/700mA /6-48V, 4.5-36W/ 750mA /6-48V
  5-37W/ 800mA /6-46V, 5-39W/ 850mA /6-46V
  5.5-40W/ 900mA /6-44V, 5.5-40W/ 950mA /6-42V
  6-40W/ 1000mA /6-40V, 6.5-40W/ 1050mA /6-38V
  6.5-40W/ 1100mA /6-36V, 7-40W/ 1150mA /6-35V
  7-40W/ 1200mA /6-34V

NEW!

HED6045/D2



Suitable for

Commercial Lighting

LED Panel

Pendant

- DALI-2 DT6: Dimmable
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 45W
- Multiple current selection via DIP-Switches
- Optional 2 Switch-Dim (PUSH) terminals
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  3.5-19W/ 350mA /10-54V, 4.5-24W/ 450mA /10-54V
  5-27W/ 500mA /10-54V, 5.5-30W/ 550mA /10-54V
  6-32W/ 600mA /10-54V, 6.5-35W/ 650mA /10-54V
  7-38W/ 700mA /10-54V, 7.5-39W/ 750mA /10-52V
  8-42W/ 800mA /10-52V, 8.5-43W/ 850mA /10-50V
  9-45W/ 900mA /10-50V, 10-45W/ 1000mA /10-45V

NEW!

HED8025

Suitable for

Commercial Lighting

- DALI-2 DT8: Tunable white control
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Tunable white control (via Switch-Dim)
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  2-13W/ 250mA /10-52V, 3-16W/ 300mA /10-52V
  4-18W/ 350mA /10-52V, 5-25W/ 500mA /10-50V
  6-25W/ 600mA /10-42V, 7-25W/ 700mA /10-35V
  8-23W/ 750mA /10-30V

NEW!

HED8025V

Suitable for

Commercial Lighting

- DALI-2 DT8: Tunable white control
- DALI-2 addressable
- Constant Voltage (CV)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 25W
- Tunable white control (via Switch-Dim)
- Optional Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  25W/1050mA /24V

NEW!

HED8030

Suitable for

Tri-proof

Linear

- DALI-2 DT8: Tunable white control
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 269mm * 36mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 30W
- Tunable white control (via Switch-Dim)
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  3-15W/300mA /10-50V, 3-18W/ 350mA /10-50V
  4-20W/ 400mA /10-50V, 4-23W/ 450mA /10-50V
  5-25W/ 500mA /10-50V, 5-28W/550mA /10-50V
  6-30W/ 600mA /10-50V, 6-30W/ 650mA /10-46V
  7-28W/ 700mA /10-40V

NEW!

HED8040

Suitable for

Tri-proof

Linear

- DALI-2 DT8: Tunable white control
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 330mm * 32mm * 27mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 40W
- Tunable white control (via Switch-Dim)
- Multiple current selection via DIP-Switches
- Optional Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  2-18W/350mA /6-50V, 2-20W/ 400mA /6-50V
  2-23W/ 450mA /6-50V, 3-25W/ 500mA / 6-50V
  3-28W/550mA /6-50V, 3-30W/ 600mA /6-50V
  4-33W/ 650mA /6-50V, 4-35W/ 700mA /6-50V
  4-38W/750mA /6-50V, 5-40W/ 800mA /6-50V
  5-40W/ 850mA /6-47V, 5-38W/ 900mA /6-42V

NEW!

HED8045

Suitable for

Commercial Lighting

LED Panel

Pendant

- DALI-2 DT8: Tunable white control
- DALI-2 addressable
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 43W
- Tunable white control (via Switch-Dim)
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  7-24W/500mA /15-48V, 9-29W/ 600mA /15-48V
  10-34W/ 700mA /15-48V, 12-38W/ 800mA /15-48V
  13-43W/ 900mA /15-48V, 15-43W/ 1000mA /15-43V

HED2020

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- Constant Current (CC) & Constant Voltage (CV)
- Size: L * W * H = 150mm * 52mm * 28mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 20W
- Configurable constant current (CC) & constant voltage (CV) via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  15W/ 350m A /9~45V, 20W/ 500mA /9~43V
  20W/ 700mA /9~30V, 20W/ 900mA /9~23V
- Constant voltage: 10W/12V; 20W/24V

HED2040

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 123.2mm * 79.2mm * 30mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 40W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  20W/ 350mA /12-58V; 23W/ 400mA /12-58V
  26W/ 450mA /12-58V; 29W/ 500mA /12-58V
  32W/ 550mA /12-58V; 35W/ 600mA /12-58V
  38W/ 650mA /12-58V; 40W/ 700mA / 12-58V
  42W/ 750mA /12-56V; 45W/ 800mA /12-56V
  45W/ 850mA /12-53V; 45W/ 900mA /12-50V
  45W/ 950mA /12-47V; 45W/ 1000mA /12-45V
  45W/ 1050mA /12-43V; 45W/ 1100mA /12-41V

HED2050

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 123.2mm * 79.2mm * 30mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 50W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  40.5W/ 700mA /12-58V, 43.5W/ 750mA /12-58V
  46.5W/ 800mA /12-58V, 49W/ 850mA /12-58V
  50W/ 900mA /12-56V, 50W/ 950mA /12-53V
  50W/ 1000mA /12-50V, 50W/ 1050mA / 12-48V
  50W/ 1100mA /12-45V, 50W/ 1150mA /12-43V
  50W/ 1200mA /12-42V, 50W/ 1250mA /12-40V
  50W/ 1300mA /12-38V, 50W/ 1350mA /12-37V
  50W/ 1400mA /12-36V

HED6020

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max power: 21.5W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  15.5W/ 350mA /10-45V, 21.5W/ 500mA /10-43V
  21W/ 700mA /10-30V, 20.5W/ 900mA /10-23V

HED4030-A

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Voltage (CV) 12V
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC
- Max power: 30W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 30W/ 2500mA / 12V

HED6030-A

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Voltage (CV) 24V
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC
- Max power: 30W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 30W/ 1250mA /24V

HED2075-A

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Voltage (CV) 12V
- Size: L * W * H = 220mm * 58mm * 42mm
- Input: 220V-240VAC
- Max power: 75W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 75W/ 6250mA /12V

HED3075-A

Suitable for

Commercial Lighting

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Voltage (CV) 24V
- Size: L * W * H = 220mm * 58mm * 42mm
- Input: 220V-240VAC
- Max power: 75W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 75W/ 3125mA /24V

HED1025

Suitable for

Tri-proof

Linear

- DALI DT6: Dimmable
- DALI addressable
- Constant Current (CC)
- Size: L * W * H = 239mm * 36mm * 21.5mm
- Input: 220V-240VAC
- Max power: 28W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Max. Output Power/Current/Voltage range:
  19.5W/ 325mA /12-60V, 21W/ 350mA /12-60V
  22.5W/ 375mA /12-60V, 24W/ 400mA /12-60V
  25.5W/ 425mA /12-60V, 27W/ 450mA /12-60V
  26W/ 475mA /12-55V, 27.5W/ 500mA /12-55V
  26W/ 525mA /12-50V, 27.5W/ 550mA /12-50V
  26W/ 575mA /12-45V, 27W/ 600mA /12-45V
  28W/ 625mA /12-45V, 28W/ 650mA /12-43V
  27W/ 675mA /12-40V, 28W/ 700mA /12-40V

HED1045

Suitable for

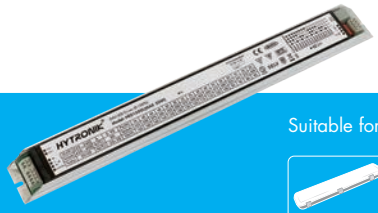
LED Panel

Commercial Lighting

Pendant

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Input: 220V-240VAC
- Max power: 45W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  28W/ 500mA /12~56V, 40W/ 700mA /12~56V
  45W/ 900mA /12~50V, 45W/ 1050mA /12~42V
  40W/ 1200mA /12~34V, 40W/ 1400mA /12~28V

HED1050L



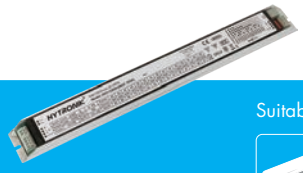
Suitable for

Tri-proof

Linear

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 390mm * 40.5mm * 22mm
- Input: 220V-240VAC
- Max power: 50W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)
- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Max. Output Power/Current/Voltage range:
  34W/225mA /36~150V, 38W/ 250mA /36~150V
  41W/ 275mA /36~150V, 45W/ 300mA /36~150V
  49W/325mA /36~150V, 50W/ 350mA /36~140V
  50W/ 375mA /36~130V, 50W/ 400mA /36~125V
  50W/ 425mA /36~115V, 50W/ 450mA /36~110V
  50W/ 475mA /36~105V, 50W/ 500mA /36~100V
  50W/ 525mA /36~95V, 50W/ 550mA /36~90V
  50W/ 575mA /36~86V, 50W/ 600mA /36~83V

HED1050H



Suitable for

Tri-proof

Linear

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 390mm * 40.5mm * 22mm
- Input: 220V-240VAC
- Max power: 50W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)

- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Max. Output Power/Current/Voltage range:
  40W/ 500mA /12~80V, 44W/ 550mA /12~80V
  49W/ 600mA /12~80V, 49W/ 650mA /12~75V
  49W/700mA /12~70V, 50W/ 750mA /12~66V
  50W/ 800mA /12~62V, 50W/ 850mA /12~59V
  49W/ 900mA /12~55V, 49W/ 950mA /12~53V
  50W/ 1000mA /12~50V, 50W/ 1050mA /12~47V
  50W/ 1100mA /12~45V, 50W/ 1150mA /12~43V
  50W/ 1200mA /12~42V

HED1080H

Suitable for

Tri-proof

Linear

- DALI DT6: Dimmable
- DALI addressable
- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 390mm * 40.5mm * 22mm
- Input: 220V-240VAC
- Max power: 80W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional motion sensor pluggable (Sensor-Dim)

- See category A for all HF & PIR sensor head options (*See pg. 80)
- See category B for all HF & PIR sensor head options (*See pg. 85)
- Max. Output Power/Current/Voltage range:
  67W/ 900mA /16-75V, 71W/ 950mA /16-75V
  75W/ 1000mA /16-75V, 78W/ 1050mA /16-74V
  79W/ 1100mA /16-72V, 80W/ 1150mA /16-70V
  80W/ 1200mA /16-66V, 80W/ 1250mA /16-64V
  80W/ 1300mA /16-61V, 80W/ 1350mA /16-59V
  80W/ 1400mA /16-57V, 80W/ 1450mA /16-55V
  80W/ 1500mA /16-53V, 80W/ 1550mA /16-51V
  80W/ 1600mA /16-50V, 80W/ 1650mA /16-48V

HE1008-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 80.2mm * 53mm * 22mm
- Input: 220V-240VAC
- Max power: 8W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional terminal-cap for stand-alone installation
- Max. Output Power/Current/Voltage range:
  2-8W/ 350mA /6-24V, 3-8W/ 500mA /6-16V
  3-8W/ 550mA /6-15V

Full Product Specifications - - - HE8008-A & HE8030-A & HE8050-A & HE4030-A

HE8008-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 52.4mm * 50.7mm * 22mm
- Input: 220V-240VAC
- Max power: 8W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  2-8W/ 350mA /6-24V, 3-8W/ 500mA /6-16V
  3-8W/ 550mA /6-15V

HE8030-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 150mm * 52mm * 28mm
- Input: 220V-240VAC
- Max power: 30W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  15W/ 250mA /12-60V, 21W/ 350mA /12-60V
  24W/ 400mA /12-60V, 27W/ 450mA /12-60V
  30W/ 500mA /12-60V, 30W/ 550mA /12-54V
  30W/ 600mA /12-50V, 30W/ 700mA /12-43V

HE8050-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Current (CC)
- Size: L * W * H = 123.2mm * 79.2mm * 30mm
- Input: 220V-240VAC
- Max power: 50W
- Multiple current selection via DIP-Switches
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  25W/ 350mA /15-72V, 36W/ 500mA /15-72V
  40W/ 550mA /15-72V, 43W/ 600mA /15-72V
  47W/ 650mA /15-72V, 50W/ 700mA /15-72V
  50W/ 800mA /15-63V, 50W/ 900mA /15-56V
  50W/ 1050mA /15-48V

HE4030-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Voltage (CV) 12V
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC
- Max power: 30W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 30W / 2500mA / 12V

HE6030-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Voltage (CV) 24V
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC
- Max power: 30W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 30W / 1250mA / 24V

HE2075-A

Suitable for

Commercial Lighting

- 1-10V Dimmable
- Constant Voltage (CV) 12V
- Size: L * W * H = 220mm * 58mm * 42mm
- Input: 220V-240VAC
- Max power: 75W
- Potentiometer for mini dimming level setting
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 75W / 6250mA / 12V

Driver+Sensor Combo 2-in-1

Integrated Design

	Input	Output	Bluetooth	Detection Technology	Daylight Sensor	Active Lux Switching	Install Height	Dip-Switch	Rotary Switch	Remote Controller	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HEC6018	220-240Vac 50/60Hz	11.5~18W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m	√			45A/16μs	11.5-18W/500mA/23-36V	208
HEC6028	220-240Vac 50/60Hz	16~28W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m				50A/10μs	16-28W/700mA/23-40V	208
HEC6418	120-277Vac 50/60Hz	11.5~18W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m	√			45A/16μs	11.5-18W/500mA/23-36V	208
HEC6428	120-277Vac 50/60Hz	16~28W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m	√			50A/10μs	120V: 16-25W/700mA/23-36V 277V: 16-28W/700mA/23-40V	208
HEC7028	220-240Vac 50/60Hz	3.5~28W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m	√	√	√ HRC-05	50A/10μs	17W/350mA/48V 24W/500mA/48V 25W/550mA/46V 28W/700mA/40V 28W/750mA/37V 28W/900mA/31V	209
HEC7428	120-277Vac 50/60Hz	3.5~28W, Tri-level Control		HF	Photodiode		Low-bay Max. 5m	√	√	√ HRC-05	50A/10μs	17W/350mA/48V 24W/500mA/48V 25W/550mA/46V 28W/700mA/40V 28W/750mA/37V 28W/900mA/26-31V	209
NEW! HEC6025/I	220-240Vac 50/60Hz	5~25W, Tri-level Control		HF	Photocell Advance™	√	Low-bay Max. 6m	√			50A/10μs	5-16W/350mA/15-45V 7-22W/500mA/15-45V 8-25W/550mA/15-45V 10-25W/700mA/15-36V	209
NEW! HEC9028	220-240Vac 50/60Hz	16~18W, Tri-level Control		HF	Photocell Advance™	√	Low-bay Max. 5m	√			44A/53μs	16-27.5W/685mA/24V 11-18W/450mA/40V	210
NEW! HBE9028	220-240Vac 50/60Hz	2~28W, Bluetooth Dim Tri-level Control Daylight Harvest	√	HF	Photocell Advance™	√	Low-bay Max. 6m	√			15A/70μs	2-14W/300mA/6-47V 2-16.5W/350mA/6-47V 2-19W/400mA/6-47V 3-21W/450mA/6-47V 3-23.5W/500mA/6-47V 3-26W/550mA/6-47V 4-27W/600mA/6-45V 4-27W/650mA/6-42V 4-28W/700mA/6-40V	210

Detachable Sensor Head Design - - Bluetooth Mesh (with App)

	Input	Output	Bluetooth	Sensor Head Options	Dip-Switch	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HED1025 + Sensor Head	220-240Vac 50/60Hz	4~28W Switch-Dim	√	Category B, see pg. 85	√	40A/98.4μs	19.5W/325mA/12-60V 21W/350mA/12-60V 22.5W/375mA/12-60V 24W/400mA/12-60V 25.5W/425mA/12-60V 27W/450mA/12-60V 26W/475mA/12-55V 27.5W/500mA/12-55V 26W/525mA/12-50V 27.5W/550mA/12-50V 26W/575mA/12-45V 27W/600mA/12-45V 28W/625mA/12-45V 28W/650mA/12-43V 27W/675mA/12-40V 28W/700mA/12-40V	211
HED1045 + Sensor Head	220-240Vac 50/60Hz	6~40W Switch-Dim	√	Category B, see pg. 85	√	54A/44μs	28W/500mA/12~56V 40W/700mA/12~56V 45W/900mA/12~50V 45W/1050mA/12~42V 40W/1200mA/12~34V 40W/1400mA/12~28V	211
NEW! HEC7030/BF + Sensor Head	220-240Vac 50/60Hz	3.5~23W Switch-Dim Bluetooth Dim	√	Category B, see pg. 85	√	63A/89.3μs	3.5-20W/350mA/10-57V 5-29W/500mA/10-57V 5.5-30W/550mA/10-55V 7-30W/700mA/10-43V 7.5-30W/750mA/10-40V 9-23W/900mA/10-25V	211
NEW! HED8045 + Sensor Head	220-240Vac 50/60Hz	7~43W Switch-Dim	√	Category B, see pg. 85	√	42A/30μs	7-24W/500mA/15-48V 9-29W/600mA/15-48V 10-34W/700mA/15-48V 12-38W/800mA/15-48V 13-43W/900mA/15-48V 15-43W/1000mA/15-43V	211
HED1050L + Sensor Head	220-240Vac 50/60Hz	8~50W Switch-Dim	√	Category B, see pg. 85	√	63A/24μs	34W/225mA/36~150V 38W/250mA/36~150V 41W/275mA/36~150V 45W/300mA/36~150V 49W/325mA/36~150V 50W/350mA/36~140V 50W/375mA/36~130V 50W/400mA/36~125V 50W/425mA/36~115V 50W/450mA/36~110V 50W/475mA/36~105V 50W/500mA/36~100V 50W/525mA/36~95V 50W/550mA/36~90V 50W/575mA/36~86V 50W/600mA/36~83V	211

Detachable Sensor Head Design - - Bluetooth Mesh (with App)

	Input	Output	Bluetooth	Sensor Head Options	Dip-Switch	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HED1050H + Sensor Head	220-240Vac 50/60Hz	6~50W Switch-Dim	√	Category B, see pg. 85	√	60A/24μs	40W/500mA/12~80V 44W/550mA/12~80V 49W/600mA/12~80V 49W/650mA/12~75V 49W/700mA/12~70V 50W/750mA/12~66V 50W/800mA/12~62V 50W/850mA/12~59V 49W/900mA/12~55V 49W/950mA/12~53V 50W/1000mA/12~50V 50W/1050mA/12~47V 50W/1100mA/12~45V 50W/1150mA/12~43V 50W/1200mA/12~42V	211
HED1080H + Sensor Head	220-240Vac 50/60Hz	16~80W Switch-Dim	√	Category B, see pg. 85	√	66A/42μs	67W/ 900mA /16-75V 71W/ 950mA /16-75V 75W/ 1000mA /16-75V 78W/ 1050mA /16-74V 79W/ 1100mA /16-72V 80W/ 1150mA /16-70V 80W/ 1200mA /16-66V 80W/ 1250mA /16-64V 80W/ 1300mA /16-61V 80W/ 1350mA /16-59V 80W/ 1400mA /16-57V 80W/ 1450mA /16-55V 80W/ 1500mA /16-53V 80W/ 1550mA /16-51V 80W/ 1600mA /16-50V 80W/ 1650mA /16-48V	211
NEW! HBE9028/KD + Sensor Head	220-240Vac 50/60Hz	13~29W Bluetooth Dim	√	Category C, see pg. 88		12.3A/60μs	13-29W/865mA/15-33V	213
NEW! HED7030/BT + Sensor Head	220-240Vac 50/60Hz	3.5~30W Switch-Dim Bluetooth Dim	√	Category C, see pg. 88	√	8.9A/22μs	3.5-18W/350mA/10-52V 5-26W/500mA/10-52V 5-26W/500mA/10-52V 5.5-29W/550mA/10-52V 7-30W/700mA/10-43V 7.5-30W/750mA/10-40V 9-23W/900mA/10-25V	213
NEW! HED8045/BT + Sensor Head	220-240Vac 50/60Hz	7~43W Switch-Dim Bluetooth Dim	√	Category C, see pg. 88	√	44.2A/29.2μs	7-24W/500mA/15-48V 9-29W/600mA/15-48V 10-34W/700mA/15-48V 12-38W/800mA/15-48V 13-43W/900mA/15-48V 15-43W/1000mA/15-43V	213

Detachable Sensor Dead Design - - Non-Bluetooth

	Input	Output	Sensor Head Options	Daylight Sensor	Active Lux Switching	Dip-Switch	Remote Controller	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HEC7030	220-240Vac 50/60Hz	3.5~30W Switch-Dim	Category E, see pg. 95	Photodiode	√	√	√ HRC-05	67A/6.6μs	21W/350mA/60V 30W/500mA/60V 30W/550mA/55V 30W/700mA/43V 30W/750mA/40V 23W/900mA/25V	218
HEC7430	120-277Vac 50/60Hz	3.5~30W Switch-Dim	Category E, see pg. 95	Photodiode	√	√	√ HRC-05	67A/6.6μs	120V: 5-25W/500mA/10-50V 5.5-25W/550mA/10-45V 7-25W/700mA/10-36V 7-25W/750mA/10-33V 277V: 3.5-17.5W/350mA/10-50V 5.5-26W/550mA/10-48V 7-30W/700mA/10-43V 7-30W/750mA/10-40V 9-23W/900mA/10-25V	218
HEC9025	220-240Vac 50/60Hz	3.5~25.2W Switch-Dim	SAM4	Photodiode	√	√		48A/40μs	15.7W/350mA/43V 21W/500mA/42V 22W/550mA/40V 25.2W/700mA/36V 25.5W/750mA/34V 25.2W/900mA/28V	217
HEC9425	120-277Vac 50/60Hz	3.5~25.2W Switch-Dim	SAM4	Photodiode	√	√		48A/40μs	15.7W/350mA/43V 21W/500mA/42V 22W/550mA/40V 25.2W/700mA/36V 25.5W/750mA/34V 25.2W/900mA/28V	217
HEC9025/I	220-240Vac 50/60Hz	3.5~25.2W Switch-Dim	SAM5/I	Photocell advance™	√	√	√ HRC-11	48A/40μs	15.7W/350mA/43V 21W/500mA/42V 22W/550mA/40V 25.2W/700mA/36V 25.5W/750mA/34V 25.2W/900mA/28V	217
HED1025 + Sensor Head	220-240Vac 50/60Hz	4~28W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	40A/98.4μs	19.5W/325mA/12-60V 21W/350mA/12-60V 22.5W/375mA/12-60V 24W/400mA/12-60V 25.5W/425mA/12-60V 27W/450mA/12-60V 26W/475mA/12-55V 27.5W/500mA/12-55V 26W/525mA/12-50V 27.5W/550mA/12-50V 26W/575mA/12-45V 27W/600mA/12-45V 28W/625mA/12-45V 28W/650mA/12-43V 27W/675mA/12-40V 28W/700mA/12-40V	211

Detachable Sensor Dead Design - - Non-Bluetooth

	Input	Output	Sensor Head Options	Daylight Sensor	Active Lux Switching	Dip-Switch	Remote Controller	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HED1045 + Sensor Head	220-240Vac 50/60Hz	6~40W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	54A/44μs	28W/500mA/12~56V 40W/700mA/12~56V 45W/900mA/12~50V 45W/1050mA/12~42V 40W/1200mA/12~34V 40W/1400mA/12~28V	211
NEW! HEC7030/BF + Sensor Head	220-240Vac 50/60Hz	3.5~23W Switch-Dim Bluetooth Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	63A/89.3μs	3.5-20W/350mA/10-57V 5-29W/500mA/10-57V 5.5-30W/550mA/10-55V 7-30W/700mA/10-43V 7.5-30W/750mA/10-40V 9-23W/900mA/10-25V	211
NEW! HED8045 + Sensor Head	220-240Vac 50/60Hz	7~43W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	42A/30μs	7-24W/500mA/15-48V 9-29W/600mA/15-48V 10-34W/700mA/15-48V 12-38W/800mA/15-48V 13-43W/900mA/15-48V 15-43W/1000mA/15-43V	211
HED1050L + Sensor Head	220-240Vac 50/60Hz	8~50W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	63A/24μs	34W/225mA/36~150V 38W/250mA/36~150V 41W/275mA/36~150V 45W/300mA/36~150V 49W/325mA/36~150V 50W/350mA/36~140V 50W/375mA/36~130V 50W/400mA/36~125V 50W/425mA/36~115V 50W/450mA/36~110V 50W/475mA/36~105V 50W/500mA/36~100V 50W/525mA/36~95V 50W/550mA/36~90V 50W/575mA/36~86V 50W/600mA/36~83V	211

Detachable Sensor Dead Design - - Non-Bluetooth

	Input	Output	Sensor Head Options	Daylight Sensor	Active Lux Switching	Dip-Switch	Remote Controller	Inrush Current	Max. Output Power/ Current/Voltage Range	Page
HED1050H + Sensor Head	220-240Vac 50/60Hz	6~50W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	60A/24μs	40W/500mA/12~80V 44W/550mA/12~80V 49W/600mA/12~80V 49W/650mA/12~75V 49W/700mA/12~70V 50W/750mA/12~66V 50W/800mA/12~62V 50W/850mA/12~59V 49W/900mA/12~55V 49W/950mA/12~53V 50W/1000mA/12~50V 50W/1050mA/12~47V 50W/1100mA/12~45V 50W/1150mA/12~43V 50W/1200mA/12~42V	211
HED1080H + Sensor Head	220-240Vac 50/60Hz	15~80W Switch-Dim	Category A, see pg. 80	Photocell advance™ or Photodiode or Photocell	√ (or Pro-active Lux Switching)	√	√ HRC-11 or HRC-01 or HRC-04 or HRC-05	66A/42μs	67W/ 900mA /16-75V 71W/ 950mA /16-75V 75W/ 1000mA /16-75V 78W/ 1050mA /16-74V 79W/ 1100mA /16-72V 80W/ 1150mA /16-70V 80W/ 1200mA /16-66V 80W/ 1250mA /16-64V 80W/ 1300mA /16-61V 80W/ 1350mA /16-59V 80W/ 1400mA /16-57V 80W/ 1450mA /16-55V 80W/ 1500mA /16-53V 80W/ 1550mA /16-51V 80W/ 1600mA /16-50V 80W/ 1650mA /16-48V	211

HEC6018

Suitable for

Bulkhead

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Sensor settings via DIP-Switches
- Max power: 18W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range: 11.5-18W / 500mA / 23-36V

HEC6028

Suitable for

Bulkhead

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Sensor settings via DIP-Switches
- Max power: 28W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range: 16-28W/700mA/23-40V

HEC6418

Suitable for

Bulkhead

- Input: 120-277VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Sensor settings via DIP-Switches
- Max power: 18W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range: 11.5-18W / 500mA / 23-36V

HEC6428

Suitable for

Bulkhead

- Input: 120-277VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Sensor settings via DIP-Switches
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Sensor settings via DIP-Switches
- Max power: 28W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range: 16-25W/700mA/23-36V (120V) 16-28W/700mA/23-40V (277V)

HEC7028

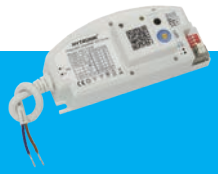
HRC-05

Suitable for

Bulkhead

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Sensor settings via handset HRC-05 & Rotary switch
- Max power: 28W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  17W/350mA/48V, 24W/500mA/48V
  25W/550mA/46V, 28W/700mA/40V
  28W/750mA/37V, 28W/900mA/31V

HEC7428



HRC-05

Suitable for

Bulkhead

- Input: 120-277VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 36mm * 29.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 5m
- Max detection range: Ø = 8m (diameter)
- Multiple current selection via DIP-Switches
- Sensor settings via handset HRC-05 & Rotary switch
- Max power: 28W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range:
  17W/350mA/48V, 24W/500mA/48V
  25W/550mA/46V, 28W/700mA/40V
  28W/750mA/37V, 28W/900mA/26-31V

NEW!

HEC6025/I

Suitable for

Bulkhead

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 47mm * 43mm
- Size: Ø * H = 82mm * 62.5mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches
- Max power: 25W
- Constant Current (CC)
- Max. Output Power/Current/Voltage range:
  5-16W/350mA/15-45V, 7-22W/500mA/15-45V
  8-25W/550mA/15-45V, 10-25W/700mA/15-36V

NEW!

HEC9028

Suitable for

Bulkhead

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 45mm * 43.5mm
- Size: Ø * H = 130.1mm * 28mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches
- Max power: 27.5W
- Constant Current (CC)
- Optional terminal-cap for stand-alone installation
- Max. Output Power/Current/Voltage range: 16-27.5W/685mA/24V, 11-18W/450mA/40V

NEW!

HBE9028

Suitable for

Bulkhead

- Bluetooth® 5 .0 SIG Mesh (*See full details on pg. 05-11)
- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Cut-out size: L x D = 54mm * 40mm
- Size: Ø * H = 130.1mm * 28mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø = 10m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- Multiple current selection via DIP-Switches
- Max power: 28W
- Constant Current (CC)
- Optional terminal-cap for stand-alone installation
- Max. Output Power/Current/Voltage range: 2-14W/300mA/6-47V, 2-16.5W/350mA/6-47V 2-19W/400mA/6-47V, 3-21W/450mA/6-47V 3-23.5W/500mA/6-47V, 3-26W/550mA/6-47V 4-27W/600mA/6-45V, 4-27W/650mA/6-42V 4-28W/700mA/6-40V

Bluetooth 5.0 Mesh Range (with App)

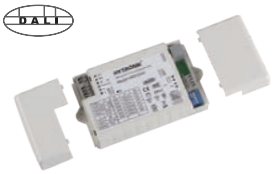
--- Bluetooth module in sensor head unit, suitable for metal luminaires (Hex-Drive Series)

HED1025

28W

See pg. 197

HED1045



45W

See pg. 197

HEC7030/BF

NEW!

30W

See pg. 192

HED8045

NEW!

45W

See pg. 194

HED1050L

50W (Low current)

See pg. 197

HED1050H

50W (High current)

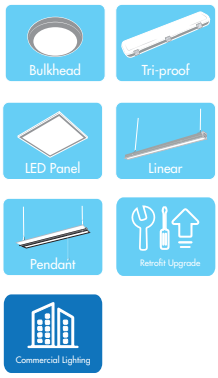
See pg. 198

HED1080H

80W (High current)

See pg. 198

Suitable for



*What is Hex-Drive?

Hex-Drive is the flagship product range of Hytronik LED drivers, designed to integrate various functions for maximizing luminaire design flexibility. This driver series comes with an RJ12 connector which is ready for attaching a wide range of Bluetooth sensor "heads" , ranging from microwave (HF) to PIR, from low-bay to high-bay...

When motion sensor unplugged, the Hex-drive alone is a standard DALI compliant driver, possessing 1-10V and Switch-Dim (PUSH) dimming capability as well. All Hex-drive models have multiple current selection feature via DIP-Switch settings.

\+ Free Combination!
(Total 16 sensor head options)

HBT01/PRO

NEW!

See pg. 85

HBT01/H

NEW!

See pg. 85

HBT01

NEW!

See pg. 85

HBT02

NEW!

See pg. 86

HBT01/TY

NEW!

See pg. 86

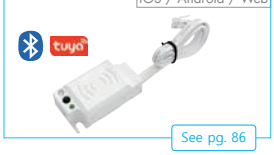
HBT01/CA

NEW!

See pg. 86

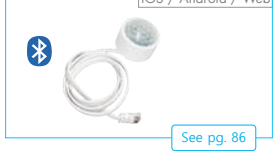
HBT02/TY

NEW!



See pg. 86

HIR13/S



See pg. 86

More sensor head options

HIR13/F

Commissioning Tools
iOS / Android / Web

See pg. 86

HIR13/C

Commissioning Tools
iOS / Android / Web

See pg. 86

HIR13/AA

Commissioning Tools
iOS / Android / Web

Optional
Surface Mount
Box HA07

See pg. 87

HIR16

Commissioning Tools
iOS / Android / Web

See pg. 87

HIR62

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 87

HIR62 with HA04

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 87

HIR62/R

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 87

HIR62 with HA05

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 87

Bluetooth 5.0 Mesh Range (with App)
--- Bluetooth module in LED driver, suitable for plastic luminaires

HBE9028/KD

NEW!

28W

See pg. 189

HED7030/BT

NEW!

30W

See pg. 190

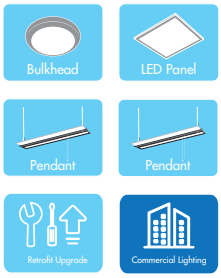
HED8045/BT

NEW!

45W

See pg. 191

Suitable for



\+ Free Combination!
(Total 20 sensor head options)

SAM20D2/PRO

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 88

SAM20D2/H

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM20

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM21

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM22

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM22/AA

Commissioning Tools
iOS / Android / Web

Optional
Surface Mount
Box HA07

See pg. 89

SAM23

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05/FM

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05/AA

Commissioning Tools
iOS / Android / Web

Optional
Surface Mount
Box HA07

See pg. 90

HIR07

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/S

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/F

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/C

Commissioning Tools
iOS / Android / Web

See pg. 90

More sensor head options

HIR11/AA

Commissioning Tools

iOS / Android / Web

Optional Surface Mount Box HA07

See pg. 90

HIR12

Commissioning Tools

iOS / Android / Web

See pg. 90

HIR63

NEW!

Commissioning Tools

iOS / Android / Web

See pg. 90

HIR63 with HA04

NEW!

Commissioning Tools

iOS / Android / Web

See pg. 91

HIR63 with HA05

NEW!

Commissioning Tools

iOS / Android / Web

See pg. 91

HIR63/R

NEW!

Commissioning Tools

iOS / Android / Web

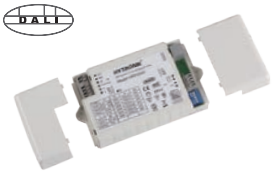
See pg. 91

HED1025

28W

See pg. 197

HED1045



45W

See pg. 197

HEC7030/BF

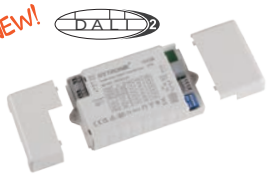
NEW!

30W

See pg. 197

HED8045

NEW!



45W

See pg. 194

HED1050L

50W (Low current)

See pg. 197

HED1050H

50W (High current)

See pg. 198

HED1080H

80W (High current)

See pg. 198

Suitable for

*What is Hex-Drive?

Hex-Drive is the flagship product range of Hytronik LED drivers, designed to integrate various functions for maximizing luminaire design flexibility. This driver series comes with an RJ12 connector which is ready for attaching a wide range of Bluetooth sensor "heads", ranging from microwave (HF) to PIR, from low-bay to high-bay…

When motion sensor unplugged, the Hex-drive alone is a standard DALI compliant driver, possessing 1-10V and Switch-Dim (PUSH) dimming capability as well. All Hex-drive models have multiple current selection feature via DIP-Switch settings.

\+ Free Combination!
(Total 31 sensor head options)

SAM7D2/PRO

NEW!

HRC-11

Remote Controller

See pg. 80

SAM7D2/H

NEW!

HRC-11

Remote Controller

See pg. 80

SAM7/I

NEW!

HRC-11

Remote Controller

See pg. 80

SAM7

HRC-11

Remote Controller

See pg. 81

SAM7/AA

HRC-05

Remote Controller

Optional
Surface Mount
Box HA07

See pg. 81

SAM7/FM

HRC-05

Remote Controller

See pg. 81

SAM8

HRC-04

Remote Controller

See pg. 81

SAM8/RC11

HRC-11

Remote Controller

HC034RF

RF Receiver

See pg. 81

SAM11

HRC-11

Remote Controller

HC034RF

RF Receiver

See pg. 81

SAM11/I

HRC-11

Remote Controller

HC034RF

RF Receiver

See pg. 81

HIR01

HRC-01

Remote Controller

See pg. 81

More sensor head options

HIR01/FM

HRC-01
Remote Controller

See pg. 81

HIR01/AA

HRC-01
Remote Controller

Optional
Surface Mount
Box HA07

See pg. 82

HIR02

HRC-05
Remote Controller

See pg. 82

HIR02/FM

HRC-05
Remote Controller

See pg. 82

HIR02/AA

HRC-05
Remote Controller

Optional
Surface Mount
Box HA07

See pg. 82

HIR03

HRC-11
Remote Controller

See pg. 82

HIR04

HRC-11
Remote Controller

See pg. 82

HIR09/S

HRC-11
Remote Controller

See pg. 82

HIR09/F

HRC-11
Remote Controller

See pg. 82

HIR09/C

HRC-11
Remote Controller

See pg. 82

HIR09/AA

HRC-11
Remote Controller

Optional
Surface Mount
Box HA07

See pg. 83

HIR10

HRC-11
Remote Controller

See pg. 83

HIR17

NEW!
DALI 2 Di

HRC-11
Remote Controller

See pg. 83

HIR17 with HA04

NEW!
DALI 2 Di

HRC-11
Remote Controller

See pg. 83

HIR17 with HA05

NEW!
DALI 2 Di

HRC-11
Remote Controller

See pg. 83

HIR17/R

NEW!
DALI 2 Di

HRC-11
Remote Controller

See pg. 83

HIR19/S

HRC-11
Remote Controller

See pg. 83

HIR19/F

HRC-11
Remote Controller

See pg. 83

HIR19/C

HRC-11
Remote Controller

See pg. 83

HIR19/AA

HRC-11
Remote Controller

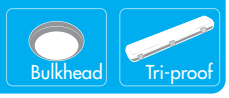
Optional
Surface Mount
Box HA07

See pg. 84

Non-Bluetooth

HEC9025 + SAM4

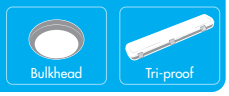
Suitable for



- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Size: L * W * H = 119.5mm * 53mm * 26mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches
- Max power: 25.5W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  15.7W/350mA/43V, 21W/500mA/42V
  22W/550mA/40V, 25.2W/700mA/36V
  25.5W/750mA/34V, 25.2W/900mA/28V

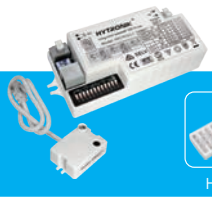
HEC9425 + SAM4

Suitable for

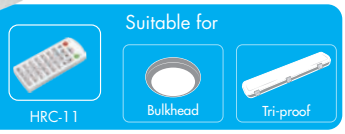


- Input: 120-277VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Size: L * W * H = 119.5mm * 53mm * 26mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches
- Max power: 25.5W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  15.7W/350mA/43V, 21W/500mA/42V
  22W/550mA/40V, 25.2W/700mA/36V
  25.5W/750mA/34V, 25.2W/900mA/28V

HEC9025/I + SAM5/I



Suitable for



- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Size: L * W * H = 119.5mm * 53mm * 26mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches & handset HRC-11
- Max power: 25.5W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  15.7W/350mA/43V, 21W/500mA/42V
  22W/550mA/40V, 25.2W/700mA/36V
  25.5W/750mA/34V, 25.2W/900mA/28V

HEC7030

Suitable for

- Input: 220-240VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- "EXT" terminals for synchronization control (*See pg. 22)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches & handset HRC-05

- Max power: 30W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  21W/350mA/60V, 30W/500mA/60V
  30W/550mA/55V, 30W/700mA/43V
  30W/750mA/40V, 23W/900mA/25V

HEC7430

Suitable for

- Input: 120-277VAC, 50/60Hz
- Microwave detection (HF 5.8GHz ± 75MHz)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Tri-level dimming (*See pg. 19)
- Daylight sensor: Photodiode
- Active Lux Switching technology (*See pg. 15)
- "EXT" terminals synchronization control (*See pg. 22)
- Max installation height: 6m
- Max detection range: Ø = 12m (diameter)
- Sensor settings via DIP-Switches & handset HRC-05

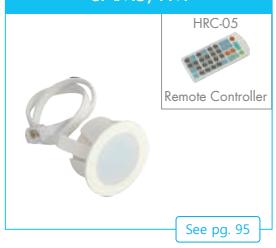
- Max power: 30W
- Constant Current (CC)
- Multiple current selection via DIP-Switches
- Max. Output Power/Current/Voltage range:
  120V: 5-25W/500mA/10-50V, 5.5-25W/550mA/10-45V
  7-25W/700mA/10-36V, 7-25W/750mA/10-33V
  277V: 3.5-17.5W/350mA/10-50V, 5.5-26W/550mA/10-48V
  7-30W/700mA/10-43V, 7-30W/750mA/10-40V
  9-23W/900mA/10-25V

\+ Free Combination!
(Total 5 sensor head options, applicable to HEC7030 & HEC7430)

SAM5

See pg. 95

SAM5/FM



See pg. 95

SAM5/AA

See pg. 95

SAM5/IP65

See pg. 95

SAM9

See pg. 95

Emergency LED Drivers & Inverters

Overview: Bluetooth 5.0 Mesh Range (with App)

	Input Voltage	Input Current	U-out Max.	Output Wattage / LED Current / Voltage	Max. Emergency Output Power	Battery Pack	RJ12 Port for Sensor Connection	Sensor Head Options	Test Method Self-test via Bluetooth	Optional Accessory	Page
NEW! HBEM01	220-240Vac	162-150mA	60V	8-17.5W / 350mA / 24-50V 12-25W / 500mA / 24-50V 16-25W / 700mA / 24-36V	2W/3W	BPC83 BPC84	√	Category C, see pg. 88	√	LED indicator, Test switch	223
NEW! HBEM02	220-240Vac	Max. 25mA	60V	2W / 85-40mA / 24-55V 3W / 125-60mA / 24-55V 4W / 160-80mA / 24-55V	2W/3W/4W	BPC83 BPC84	√	Category C, see pg. 88	√	LED indicator, Test switch	223
NEW! HBEM03	220-240Vac	162-150mA	60V	8-17.5W / 350mA / 24-50V 12-25W / 500mA / 24-50V 16-35W / 700mA / 24-50V 21.6-40W / 900mA / 24-45V	2W/3W /4W/5W	BPC83 BPC84	√	Category C, see pg. 88	√	LED indicator, Test switch	223
NEW! HBEM04	220-240Vac	Max. 25mA	60V	2W / 85-40mA / 24-55V 3W / 125-60mA / 24-55V 4W / 160-80mA / 24-55V 5W / 200-100mA / 24-55V	2W/3W /4W/5W	BPC83 BPC84	√	Category C, see pg. 88	√	LED indicator, Test switch	223
NEW! HBEM05	220-240Vac	Max. 25mA	60V	6W / 250-100mA / 24-55V 8W / 330-145mA / 24-55V 10W / 415-180mA / 24-55V 12W / 500-220mA / 24-55V	6W/8W /10W/12W	BPC83 BPC84	√	Category C, see pg. 88	√	LED indicator, Test switch	223

- 220-240Vac
- DALI-to-Bluetooth converter/translator module;
- Point-to-point control
- Provides power supply to the 3rd party standard DALI/DALI-2 emergency driver;
- Convert/Translate a standard DALI/DALI-2 emergency driver output to Bluetooth output,

Overview: Non-Bluetooth

	Input Voltage	Input Current	U-out Max.	Output Wattage / LED Current / Voltage	Emergency Output Power	Battery Pack	RJ12 Port for Sensor Connection	Sensor Head Options	Test Method Self-test via Bluetooth	Optional Accessory	Page
HEM02	220-240Vac	19mA - 21mA	68V	40mA (60V); 320mA (8V)	3W	BPC01 BPC02 BPC10 BPC11			Manual test	LED indicator, Test switch, Insulated terminal cover	227
HEM07	220-240Vac	16mA - 18mA	68V	40mA (60V); 300mA (9V)	3W	BPC01 BPC02 BPC10 BPC11			Manual test	LED indicator, Test switch	227
HEM06-T	220-240Vac	13mA - 16mA	75V	3W / 260mA-40mA / 12-70V 6W / 350mA-80mA / 12-70V	3W 6W	BPC05 BPC14 BPC20			Self-test	LED indicator, Test switch, Insulated Terminal Cover	227
HEM07-T	220-240Vac	19mA - 15mA	65V	40mA (55V) 230mA (12V)	3W	BPC01 BPC02 BPC10 BPC11			Self-test	LED indicator, Test switch	228
HEM09	220-240Vac	200mA - 150mA	62V	18W/ 350mA /10-52V 26W/ 500mA /10-52V 28W/ 550mA /10-52V 30W/ 700mA /10-43V 30W/ 750mA /10-40V 23W/ 900mA /10-25V	3W 4W 6W	BPC30 BPC31	√	SAM7, SAM7/FM SAM7/AA	Self-test	LED indicator, Test switch, Insulated Terminal Cover	226
HEM09H	220-240Vac	220mA - 160mA	33V	30W/900mA/10~33V 30W/1050mA/10~29V 25W/1200mA/10~21V 20W/1400mA/10~14V	3W 4W 6W	BPC30 BPC31	√	SAM7, SAM7/FM SAM7/AA	Self-test	LED indicator, Test switch, Insulated Terminal Cover	226

Overview: Batteries

	Battery Type & Specification	Size (mm)	Duration	Accessories	Page
BPC83	LiFePO4, 6.4V, 3.4Ah	110x55x27	>3h @3W >3h @2W	Battery bracket, LED indicator, Test switch	228
BPC84	LiFePO4, 6.4V, 3.4Ah	170x30x27	>3h @3W >3h @2W	Battery bracket, LED indicator, Test switch	228
BPC01	3 cells, C type, NiMH battery, 3.6V, 4.0AH	235x22x22	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228
BPC02	3 cells, C type, NiMH battery, 3.6V, 4.0AH	77x50x28	>3h @3W	Battery bracket, green LED indicator, test switch (optional)	228
BPC05	6 cells, SC type, NiMH battery, 7.2V, 2.5AH	168x50x28	>3h @3W	Battery bracket, Green LED indicator, Buzzer, Test switch	229
BPC10	3 cells, D type, D4000, Nicd battery, 3.6V, 4.0AH	215x37x37.5	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228
BPC11	3 cells, D type, D4000, Nicd battery, 3.6V, 4.0AH	100x65x36	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228
BPC14	6 cells, SC type, SC1800, Nicd battery, 7.2V, 1.8AH	165x46x27	>3h @3W	Battery bracket, Green LED indicator, Buzzer, Test switch	229
BPC20	6 cells, D type, D4000, Nicd battery, 7.2V, 4.0Ah	230x72.5x39.5	>3h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229
BPC30	6 cells, SC type NiCd battery, 7.2V, 1.8Ah	175x50x30	>3h @3W >1.5h @4W >1.5h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229
BPC31	6 cells, SC type NiMH battery, 7.2V, 1.8Ah	190x33x30	>3h @3W >1.5h @4W >1.5h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229

Full Product Specifications - - - HBEM01 & HBEM02 & HBEM03 & HBEM04 & HBEM05 + Sensor head

Common Highlight Features for HBEM series:

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 01-02)
- Input: 220V-240VAC, 50/60Hz
- Constant Emergency Wattage (CW)
- Multiple current selection / emergency power / time selection via DIP-Switches
- Four emergency working modes for options
- Monthly / Yearly self-test with auto report generation
- Retrievable usage data and history record
- Automatic email notification when detecting fault
- Works with $LiFePO_4$ battery
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory

NEW!

HBEM01

- Emergency driver
- Constant Current (CC)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Max. emergency output power: 2W / 3W
- Max. loading: 25W
- Dimmable (via Bluetooth & Switch-Dim)
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  8-17.5w / 350mA / 24-50V, 12-25W / 500mA / 24-50V
  16-25W / 700mA / 24-36V

NEW!

HBEM02

- Emergency inverter (for on/off)
- Size: L * W * H = 160mm * 40.5mm * 22mm
- Max. emergency output power: 2W / 3W / 4W
- Max. Output Power/Current/Voltage range:
  2W / 85-40mA / 24-55V, 3W / 125-60mA / 24-55V
  4W / 160-80mA / 24-55V

NEW!

HBEM03

- Emergency driver
- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Max. emergency output power: 2W / 3W / 4W
- Max. loading: 45W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  8-17.5w / 350mA / 24-50V, 12-25W / 500mA / 24-50V
  16-35W / 700mA / 24-50V, 21.6-40W / 900mA / 24-45V

NEW!

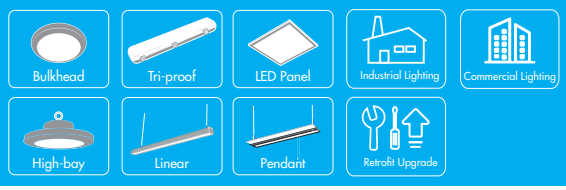
HBEM04

- Emergency inverter (for DALI dimmable driver)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Max. emergency output power: 2W / 3W / 4W / 5W
- Max. loading: 5W
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range:
  2W / 85-40mA / 24-55V, 3W / 125-60mA / 24-55V
  4W / 160-80mA / 24-55V, 5W / 200-100mA / 24-55V

NEW!

HBEM05

Suitable for



- Emergency inverter (for DALI dimmable driver)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Max. emergency output power: 6W / 8W / 10W / 12W
- Max. loading: 12W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  6W / 250-100mA / 24-55V, 8W / 330-145mA / 24-55V
  10W / 415-180mA / 24-55V, 12W / 500-220mA / 24-55V

+ Free Combination!
(Total 20 sensor head options, applicable to HBEM01, HBEM02, HBEM03, HBEM04 & HBEM05)

SAM20D2/PRO

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 88

SAM20D2/H

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM20

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM21

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM22

Commissioning Tools
iOS / Android / Web

See pg. 89

SAM22/AA

Commissioning Tools
iOS / Android / Web

Optiaonl
Surface Mount
Box HA07

See pg. 89

SAM23

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05/FM

Commissioning Tools
iOS / Android / Web

See pg. 89

HIR05/AA

Commissioning Tools
iOS / Android / Web

Optiaonl
Surface Mount
Box HA07

See pg. 90

HIR07

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/S

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/F

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/C

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR11/AA

Commissioning Tools
iOS / Android / Web

Optiaonl
Surface Mount
Box HA07

See pg. 90

HIR12

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR63

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 90

HIR63 with HA04

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 91

HIR63 with HA05

NEW!

Commissioning Tools
iOS / Android / Web

See pg. 91

HIR63/R

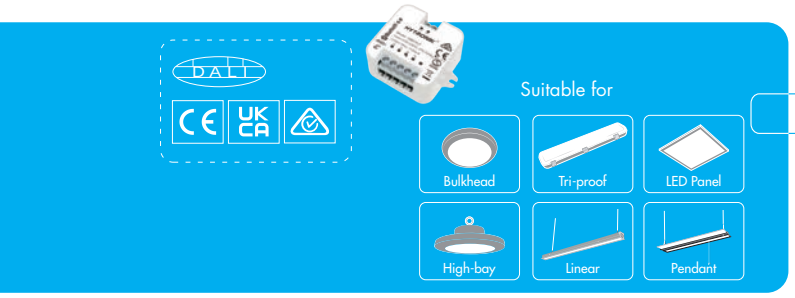
NEW!

Commissioning Tools
iOS / Android / Web

See pg. 91

NEW!

HBEM8200/F



- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Input: 220V-240VAC, 50/60Hz
- DALI-to-Bluetooth converter/translator module
- Convert/Translate a standard DALI/DALI-2 emergency driver output to Bluetooth output, so that user can view, edit & manage the emergency system through high-end Koolmesh platform
- User can then enjoy all the powerful & convenient features in Koolmesh platform, including automatic email notification upon detecting fault, automatic monthly/yearly (functional/duration test) emergency report generation etc...
- Point-to-point control: 1pc HBEM8200/F module for 1pc 3rd party DALI/DALI-2 emergency driver
- HBEM8200/F & the 3rd party standard DALI/DALI-2 emergency driver does not connect to central DALI PSU. HBEM8200/F provides power supply to the 3rd party standard DALI/DALI-2 emergency driver
- With Bluetooth gateway HBGW01, user can remotely control the emergency system via Koolmesh mobile/tablet app & web app platform
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBIREM29 Series

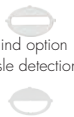
Optional: Surface Mount Box (IP20/IP65)

HA03: Default IP20;
IP65 is optional upon request

Tool-free Installation!

Removable Terminal Blocks and Clips

Optional: Blind Insert/Blanking Plate



Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

Suitable for

Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Features & Functions

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI-to-Bluetooth converter/translator module
- Convert/Translate a standard DALI/DALI-2 emergency driver output to Bluetooth output, so that user can view, edit & manage the emergency system through high-end Koolmesh platform
- User can then enjoy all the powerful & convenient features in Koolmesh platform, including automatic email notification upon detecting fault, automatic monthly/yearly (functional/duration test) emergency report generation etc...
- Point-to-point control: 1pc HBIREM29 module for 1pc 3rd party DALI/DALI-2 emergency driver
- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell, except HBIREM29/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- HBIREM29 & the 3rd party standard DALI/DALI-2 emergency driver does not connect to central DALI PSU. HBEM8200/F provides power supply to the 3rd party standard DALI/DALI-2 emergency driver
- With Bluetooth gateway HBGW01, user can remotely control the emergency system via Koolmesh mobile/tablet app & web app platform
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
(Not applicable on HBIR29/W, HBIR29/RH)
- Tool-free installation: removable terminal blocks and clips

HEM09

Suitable for

Bulkhead | Tri-proof | LED Panel

- Constant Current (CC)
- Constant Emergency Wattage (CW)
- Size: L * W * H = 140.6mm * 79.2mm * 23 mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W / 4W / 6W
- Dual wattage and duration selection:
  >3h @3W; >1.5h @4W; >1.5h @6W
- Multiple current selection / emergency power via DIP-Switches
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (10~52V)
- Works with NiMH battery / Nicd battery
- 1-10V dimming control with relay output
- Switch-Dim (PUSH) terminal
- Three protection mode with auto-retart
- Sensor settings via handset HRC-05
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  18W/ 350mA /10-52V, 26W/ 500mA /10-52V
  28W/ 550mA /10-52V, 30W/ 700mA /10-43V
  30W/ 750mA /10-40V, 23W/ 900mA /10-25V

HEM09H

Suitable for

Bulkhead | Tri-proof | LED Panel

- Constant Current (CC)
- Constant Emergency Wattage (CW)
- Size: L * W * H = 140.6mm * 79.2mm * 23 mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W / 4W / 6W
- Dual wattage and duration selection:
  >3h @3W; >1.5h @4W; >1.5h @6W
- Multiple current selection / emergency power via DIP-Switches
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (10~33V)
- Works with NiMH battery / Nicd battery
- 1-10V dimming control with relay output
- Switch-Dim (PUSH) terminal
- Three protection mode with auto-retart
- Sensor settings via handset HRC-05
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
  30W/900mA/10~33V, 30W/1050mA/10~29V
  25W/1200mA/10~21V, 20W/1400mA/10~14V

\+

Free Combination!
(Total 3 sensor head options, applicable to HEM09 & HEM09H)

SAM7

HRC-11
Remote Controller

See pg. 81

SAM7/AA

HRC-05
Remote Controller

Optiaonl
Surface Mount
Box HA07

See pg. 81

SAM7/FM

HRC-05
Remote Controller

See pg. 81

Full Product Specifications - - - HEM02 & HEM06-T & HEM07

HEM02

Suitable for

Industrial Lighting

Commercial Lighting

- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Automatic output current adjustment
- With manual test function
- Wide range of LEDs in series (8~60V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation

HEM06-T

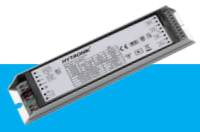
Suitable for

Industrial Lighting

Commercial Lighting

- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Dual wattage and duration selection: 3W @ 3hrs; 6W @ 1h
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (12~70V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation

HEM07



Suitable for

Bulkhead

Tri-proof

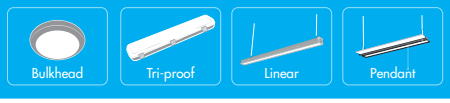
Linear

Pendant

- Constant Current (CC)
- Size: L * W * H = 160mm * 40.5mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Automatic output current adjustment
- With manual test function
- Wide range of LEDs in series (9~60V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory

HEM07-T

Suitable for



- Constant Current (CC)
- Size: L * W * H = 180mm * 40.5mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Dual wattage and duration selection: 3W @ 3hrs; 3W @ 1h
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (12~55V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory

Batteries

Options for HBEM01, HBEM02, HBEM03, HBEM04:

BPC83

Voltage: 6.4V
Capacity: 3.4Ah
Size: 110 * 55 * 27 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

BPC84

Voltage: 6.4V
Capacity: 3.4Ah
Size: 170 * 30 * 27 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

Options for HEM02, HEM07, HEM07-T:

BPC01

Voltage: 3.6V
Capacity: 4.0Ah
Size: 235 * 22 * 22 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

BPC02

Voltage: 3.6V
Capacity: 4.0Ah
Size: 77 * 50 * 28 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

BPC10

Voltage: 3.6V
Capacity: 4.0Ah
Size: 215 * 37 * 37.5 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

BPC11

Voltage: 3.6V
Capacity: 4.0Ah
Size: 100 * 65 * 36 (mm)
Duration: > 3h @ 3W
Recharge time: 16h
Accessories:
Battery bracket, LED indicator, Test switch

Options for HEM06-T:

BPC05

Voltage: 7.2V

Capacity: 2.5Ah

Size: 168 * 50 * 28 (mm)

Duration: > 3h @ 3W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC14

Voltage: 7.2V

Capacity: 1.8Ah

Size: 165 * 46 * 27 (mm)

Duration: > 3h @ 3W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC20

Voltage: 7.2V

Capacity: 4.0Ah

Size: 230 * 72.5 * 39.5 (mm)

Duration: > 3h @ 6W

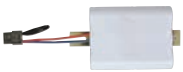
Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

Options for HEM09, HEM09/H:

BPC30



Voltage: 7.2V

Capacity: 1.8Ah

Size: 175 * 50 * 30 (mm)

Duration: > 3h @ 3W; > 1.5h @ 4W; > 1.5h @ 6W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC31

Voltage: 7.2V

Capacity: 1.8Ah

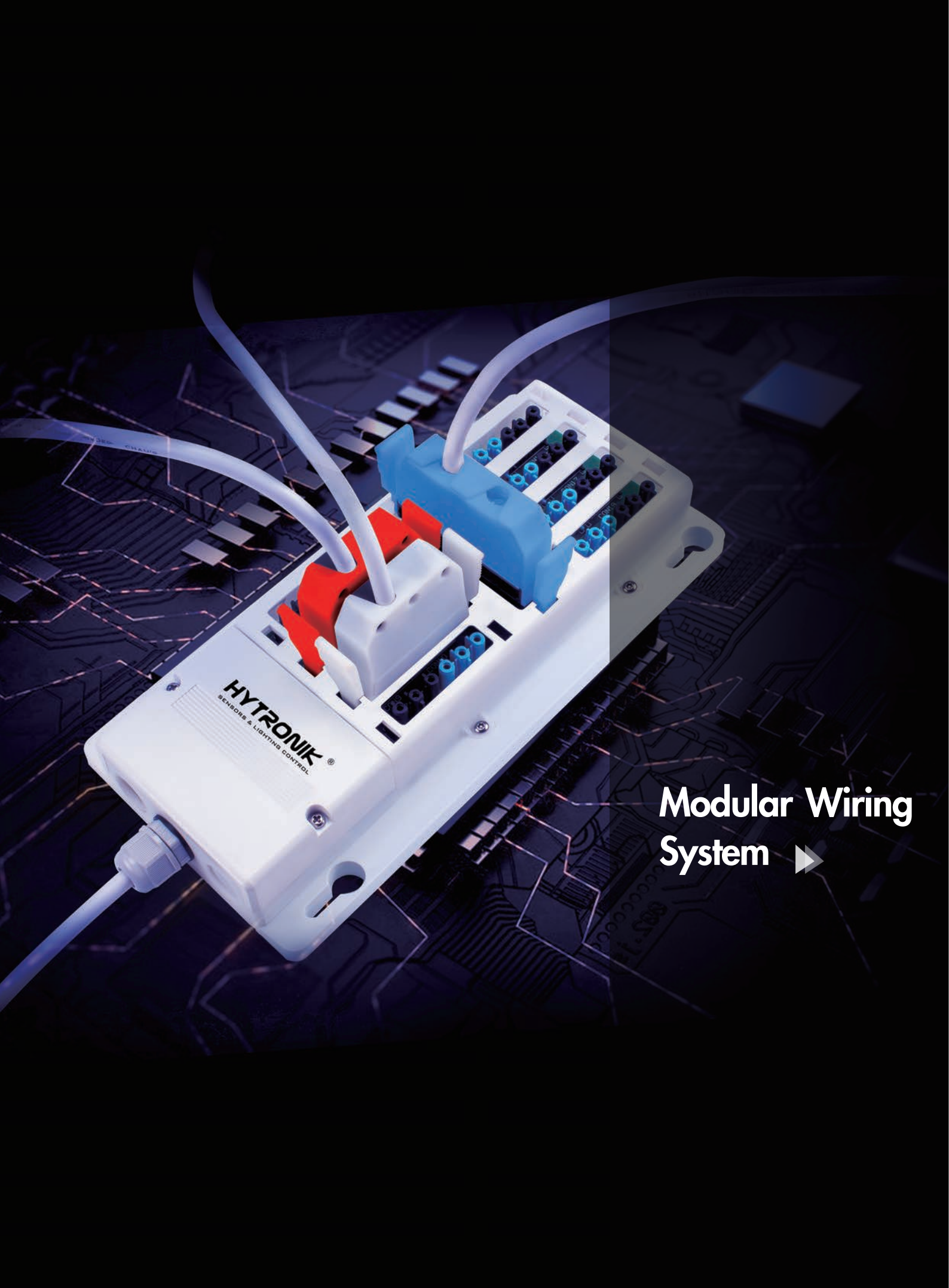
Size: 190 * 33 * 30 (mm)

Duration: > 3h @ 3W; > 1.5h @ 4W; > 1.5h @ 6W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

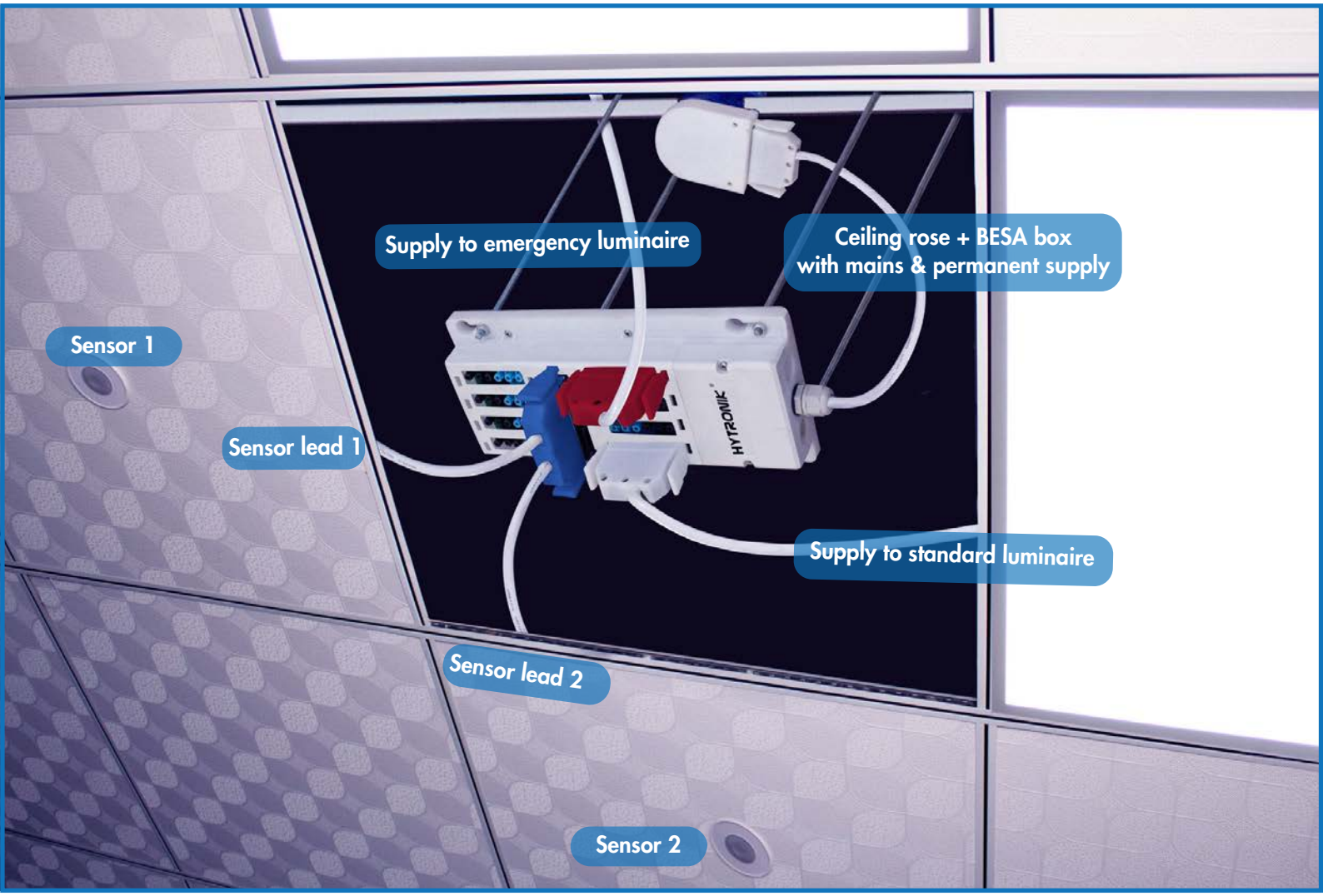


Modular Wiring System

What Is Hytronik's New Modular Wiring System ?

Hytronik is pleased to introduce to you our new Modular Wiring System for lighting control applications. The Modular wiring system consists of Quick Connect Boxes (QCB series), cables and plugs, ceiling rose components, and a wide range of sensor/controller selections. Typical applications include warehouse, commercial lighting, retail, healthcare, education, leisure, and office areas. The design concept is to simplify wiring processes on project sites, making it extremely simple and intuitive for installers and project managers by easy plug' n' play connections, which significantly saves the labor cost, minimizes installation time, improves safety level during operations, and also simplifies future upgrade & maintenance.

Modular Wiring System Overview



Benefits & Privileges

For Contractor / Partner

- Free project consultation/advice
- Minimize spending/budget on installation and commissioning
- Save project time significantly
- Comply with safety standards
- One stop solution for consultation/control/purchasing
- Multiple functions design reduces model inventories

For Lighting Consultant / Designer

- Free product training
- Optimal product recommendation case by case
- Floorplan feature to simplify designing process
- Bluetooth mesh eliminates the need for complex hard wirings
- Wide product/control range to cover all kinds of applications
- Powerful web platform for easy configuration profile preset

For Electrician / Installer

- Safe on-load connection / disconnection
- Safe electromechanical connection
- Pre-set configuration profile keeps commissioning to a minimum
- Significantly save time by uploading preset configuration profiles to devices directly
- Complete pluggable solution simplifies the installation
- Downloadable configuration settings for keeping records
- One-key device replacement featured

For Project Owner / Maintenance

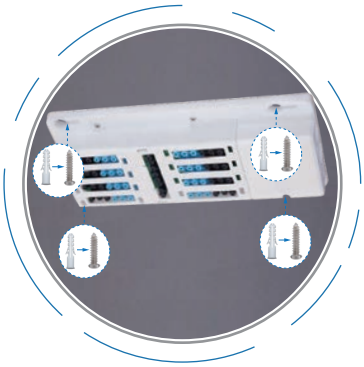
- Maximum energy saving with visualized statistics
- Comprehensive permission management
- Trouble-free!
- Future-proof! Batch OTA upgrade through mesh/gateway easily
- Monitor building's operational status remotely
- Emergency report auto-generation with data analysis and diagnosis
- Automatic fault notification via email
- "Tamperproof" screws to prevent unwanted attempts to take the unit apart
- Simplified maintenance

For Environment

- Recyclable packages & components
- Low smoke emission & halogen free materials
- Maximized energy saving
- Reduced material waste

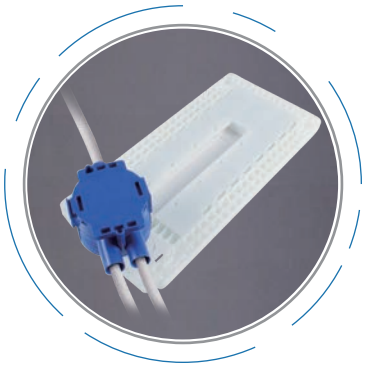
Surface Mount

It can work with 4 x M6 screws to fix onto both walls and ceilings.



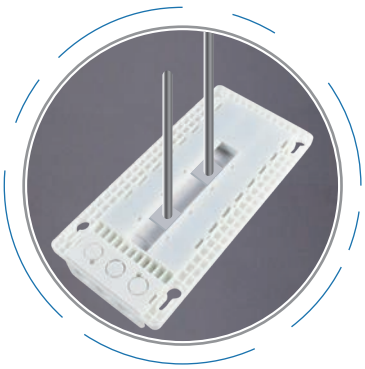
BESA/Junction Box Connection

It can be connected with BESA/junction box.



Channel Nut Mount

It can work with channel nuts to fasten into the back.

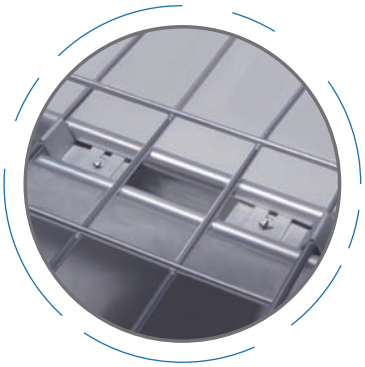


Mounting Rods

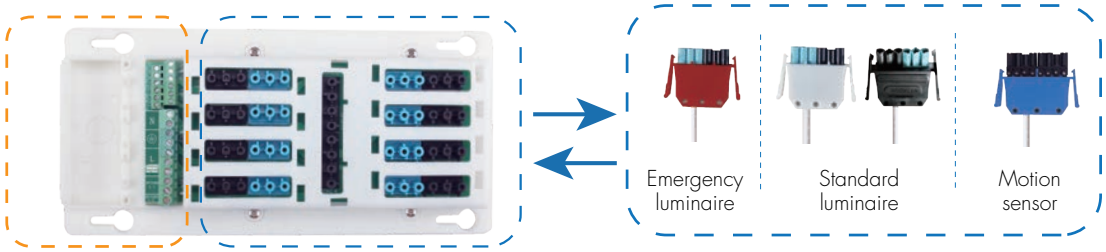
It can be fixed with mounting rods.

Marco Tray Mount

It can work with Marco clips steel wire cables tray system.



Connectivity



Mains input part:

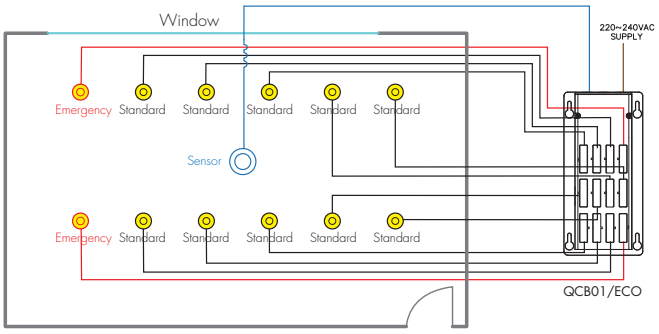
Cable gland (together with removable cable-entry plates) and spacious wiring compartment provide easy wiring fixings.

Control inputs & outputs part:

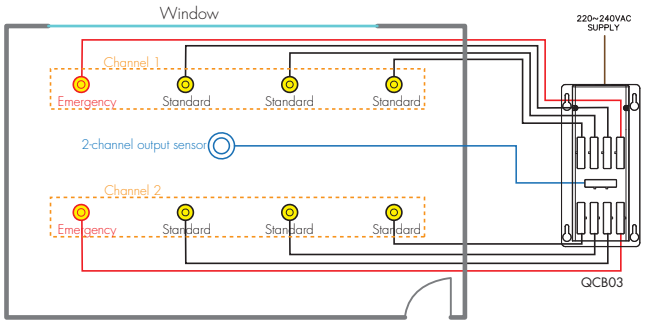
Luminaire connections (including standard luminaire & emergency luminaire) and sensor connections are all pluugable design using cables & plugs. No hard-wiring needed at all!

Typical Applications Example

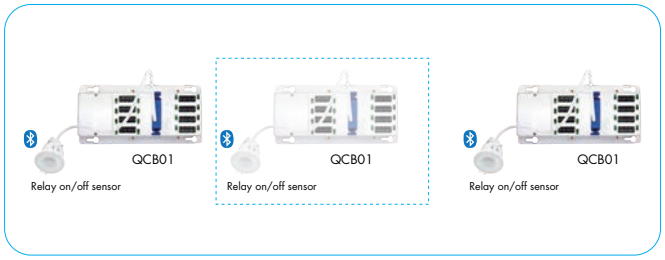
One-channel control with 1pc sensor



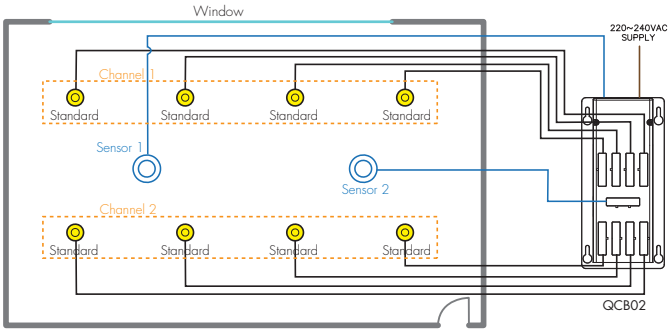
Two-channel control with 1pc sensor window row switching/dimming

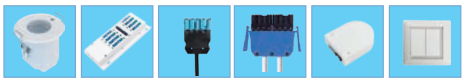


One-channel controlled by ≥ 2pcs sensors synchronously simple corridor solutions!

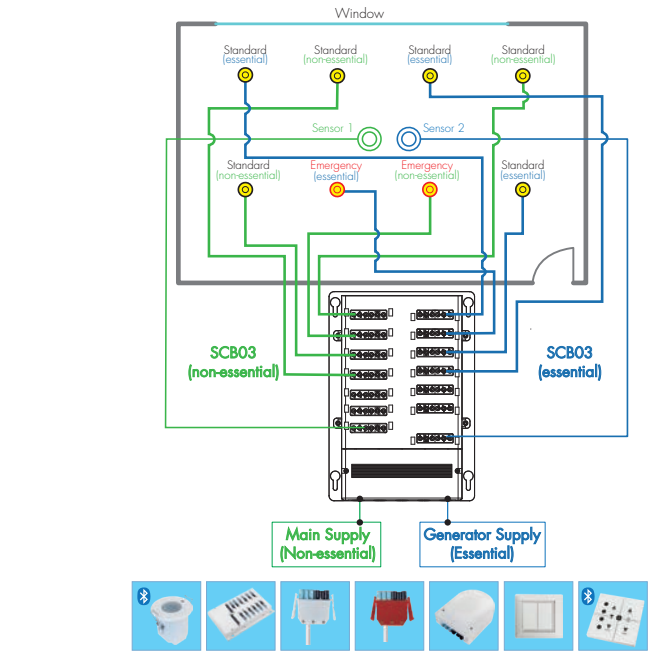


Two-channel controlled by 2pcs sensors seperately





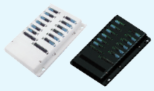
Dual-circuit application with non-essential & essential supplies



Overview: Quick / Super Connection Boxes

	Bluetooth	Connector Type	Number of Outlets (Sockets)	Poles	Switching/ Dimmable	Support Emergency	Power Supply Input	Push (Retractive) Switch & Sensor Connection	Support Dual (or Multi-) Channel	Page
QCB01/BLE-S	✓	GST type	8 luminaires	4-pole	Switching	✓	Single Supply	Mains Powered		238
QCB01		GST type	8 luminaires + 1 sensor	4-pole	Switching	✓	Single Supply	Mains Powered	✓ (Support Dual-Channels)	241
QCB01/ECO		GST type	12 luminaires	4-pole	Switching	✓	Single Supply	Mains Powered		242
QCB02/BLE-V	✓	Wago	8 luminaires	5-pole	Dimmable (0/1-10V)		Single Supply	Mains Powered		248
QCB02/BLE-D2	✓	Wago	8 luminaires	5-pole	Dimmable (DALI-2)		Single Supply	Mains Powered		248
NEW! QCB02/BLE-DCA	✓ (Casambi)	Wago	8 luminaires	5-pole	Dimmable (DALI-2)		Single Supply	Mains Powered		248
NEW! QCB02/BLE-DTY	✓ (Tuya)	Wago	8 luminaires	5-pole	Dimmable (DALI-2)		Single Supply	Mains Powered		248
QCB02		Wago	8 luminaires + 1 sensor	5-pole	Dimmable (0/1-10V & DALI-2)		Single Supply	Mains Powered	✓ (Support Dual-Channels)	252
QCB03/BLE-V	✓	GST type	8 luminaires	6-pole	Dimmable (0/1-10V)	✓	Single Supply	Mains Powered		254
QCB03/BLE-D2	✓	GST type	8 luminaires	6-pole	Dimmable (DALI-2)	✓	Single Supply	Mains Powered		254

Overview: Quick / Super Connection Boxes

	Bluetooth	Connector Type	Number of Outlets (Sockets)	Poles	Switching/ Dimmable	Support Emergency	Power Supply Input	Push (Retractive) Switch & Sensor Connection	Support Dual (or Multi-) Channel	Page
NEW! QCB03/BLE-DCA	✓ (Casambi)	GST type	8 luminaires	6-pole	Dimmable (DALI-2)	✓	Single Supply	Mains Powered		254
NEW! QCB03/BLE-DTY	✓ (Tuya)	GST type	8 luminaires	6-pole	Dimmable (DALI-2)	✓	Single Supply	Mains Powered		254
QCB03		GST type	8 luminaires + 1 sensor	6-pole	Dimmable (0/1-10V & DALI-2)	✓	Single Supply	Mains Powered	✓ (Support Dual-Channels)	258
NEW! QCB03/ECO 		GST type	12 luminaires + 2 sensors	6-pole	Dimmable (0/1-10V & DALI-2)	✓	Single Supply		✓ (Support Dual-Channels)	260
NEW! SCB01/BLE	✓	GST type	14 luminaires + 4 SELV sensor RJ45 ports	6-pole	Dimmable (DALI-2 & Switching)	✓	Single Supply	Low-volt (SELV)	✓ (Support up to 10 Channels)	262
NEW! SCB02/BLE	✓	GST type	14 luminaires + 4 SELV sensor RJ45 ports	6-pole	Dimmable (DALI-2 & Switching)	✓	Dual Supply (Essential + Non-essential)	Low-volt (SELV)	✓ (Support up to 11 Channels)	265
NEW! SCB03		GST type	12 luminaires + 2 sensors	6-pole	Dimmable (0/1-10V & DALI-2)	✓	Dual Supply (Essential + Non-essential)	Mains Powered	✓ (Support Dual-Channels)	268

Connection Boxes

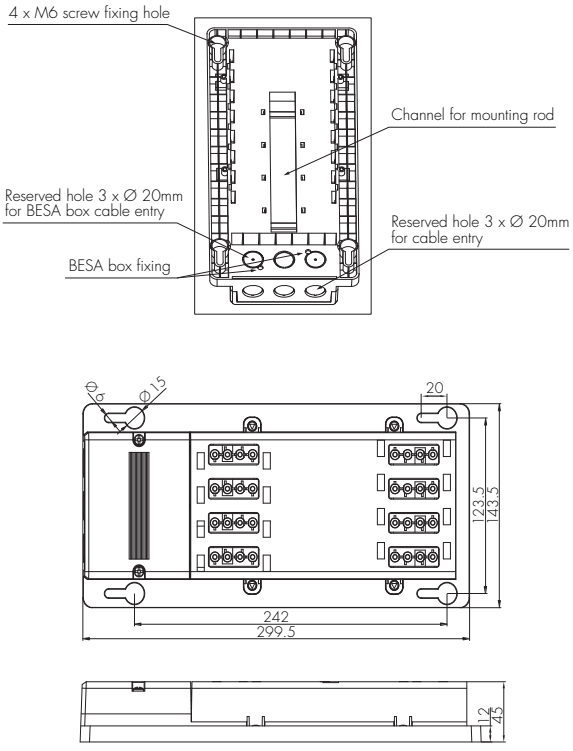
QCB01/BLE-S

* White color housing by default. Black color housing can be supplied upon request; Max. 10A can be supplied as a special version upon request

Key Features

- Non-dimmable control applications
- Intelligent control with Bluetooth 5.0 SIG mesh module built in
- 2 types of built-in Bluetooth 5.0 control module to select from
- Detailed Bluetooth system features can be viewed on page 05-11
- Luminaire outlet: GST type 4-pole terminal base (L', N, E, Em)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB01/BLE-S wirelessly
- Rating of system: Default rating is 400VA capacitive & 800W resistive
- Max 10A can be supplied as a special version upon request
- Flame-retardant material for safety protection

Dimensions (mm)



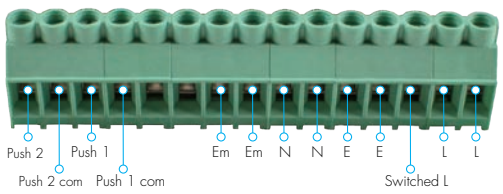
Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

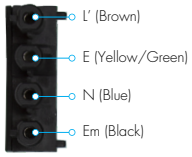
Ordering data

Model name	Description
QCB01/BLE-S	GST type 4-pole terminal base quick connection box for non-dimmable control applications. With 8 luminaire outlets for one-channel control and Bluetooth control HBTD8200S/F built-in. Default rating 400VA@ capacitive & 800W@ resistive

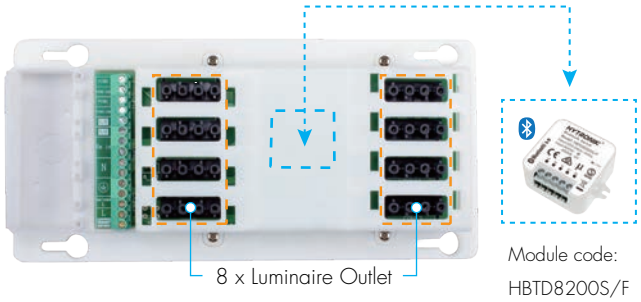
Input & Output Terminal Function



Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)



Luminaire outlet



QCB01/BLE-S

In the middle of the QCB01/BLE there is a pre-installed Bluetooth 5.0 SIG mesh controller module. The Bluetooth controller module controls all the 8 luminaire outlets as one channel (1 x 8). Default rating for this controller module is 400VA capacitive & 800W resistive. If higher loading capability is required, we can supply a special version with max 10A capability upon request.

What's so Helpful about QCB01/BLE-S Bluetooth "Intelligent" Control ?

1. User enjoys the full set of powerful Bluetooth features (see page 05-11 for details).

2. When used with Hytronik's Bluetooth on/off motion sensor, the Bluetooth sensor can control all the luminaires wirelessly without needing to be hard-wired to the QCB01/BLE-S.

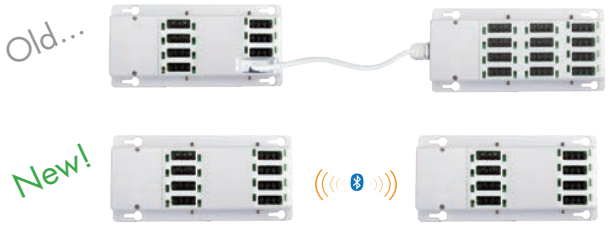
Hytronik's Bluetooth sensor can be plugged to a nearest ceiling rose, without needing to connect a long cable to the QCB01/BLE-S. This Bluetooth sensor will be able to wirelessly control all the luminaires that are connected to the QCB01/BLE-S. This is extremely useful by saving long cable wirings when there are multiple Bluetooth sensors controlling a same group of luminaires.

3. When used with an ordinary non-Bluetooth on/off motion sensor (can be Hytronik's sensor or can be from any third-party), the built-in Bluetooth 5.0 controller "upgrades" this ordinary on/off sensor to a Bluetooth smart control sensor.

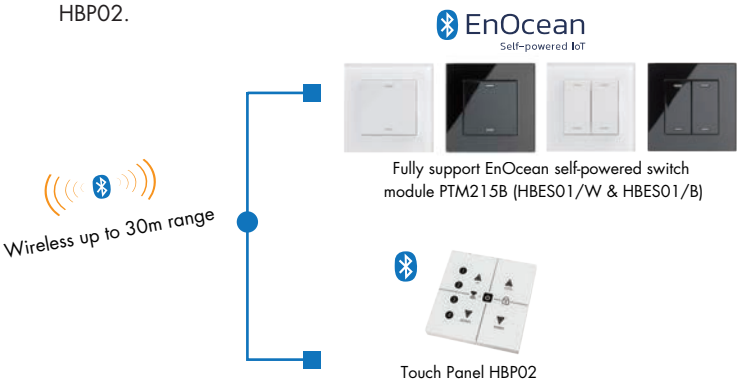
With a built-in Bluetooth 5.0 controller in QCB01/BLE-S, an ordinary motion sensor can be "upgraded" to Bluetooth smart control using an App feature called "Sensor-link ", which is easily achieved by wiring the L' of the ordinary sensor to the PUSH terminal of the QCB01/BLE-S. With this feature, the motion sensor works normally while the advanced Bluetooth control features such as scheduling, timer & recall scenes will all perform well at the same time.

Besides, there will be no requirement for the sensor's loading capability. Sensor just picks up motion and sends trigger signal, the loading capability is purely determined by the QCB01/BLE-S, which is 400VA capacitive & 800W resistive by default, and a special version of max 10A can be supplied upon request if higher loading capability is required. In other words, the sensor's loading capability can be as small as possible to save project cost, as 1A and 10A have no differences at all in this case.

4. Traditional way to extend number of luminaire outlets requires hard-wiring from one box to another. Now thanks to the Bluetooth mesh network, QCB01/BLE-S can be easily extended to another QCB01/BLE-S wirelessly!



5. QCB01/BLE-S can be wirelessly controlled by an EnOcean Bluetooth self-powered switch or Hytronik's Bluetooth touch panel HBP02.



QCB01

* White color housing by default. Black color housing can be supplied upon request.

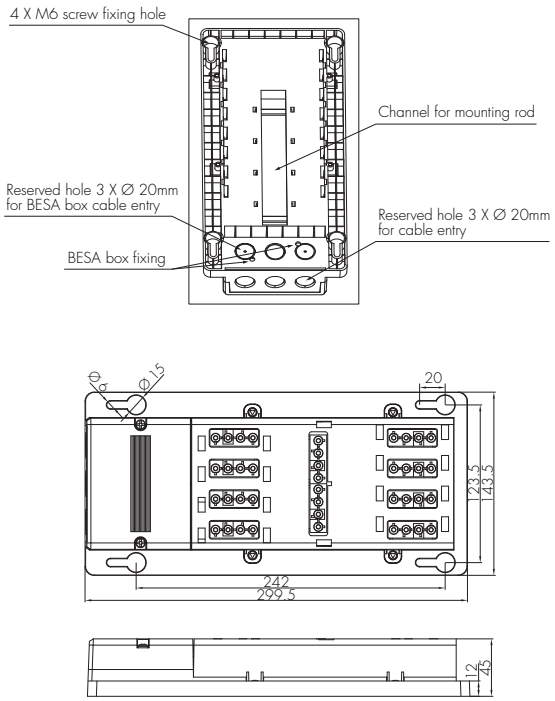
Key Features

- Non-dimmable control applications
- 8 luminaire outlets + 1 extra sensor outlet for sensor connection
- Luminaire outlet: GST type 4-pole terminal base (L', N, E, Em)
- Sensor outlet: GST type 8-pole terminal base (L, N, E, L1', L2', P1, P2)
- Black housing and white housing available to choose from
- Freely switch between 1-channel (1 x 8) & 2-channel (2 x 4) control
- Tamper-proof structure design
- Expandable: easy extension to another QCB01/ECO via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

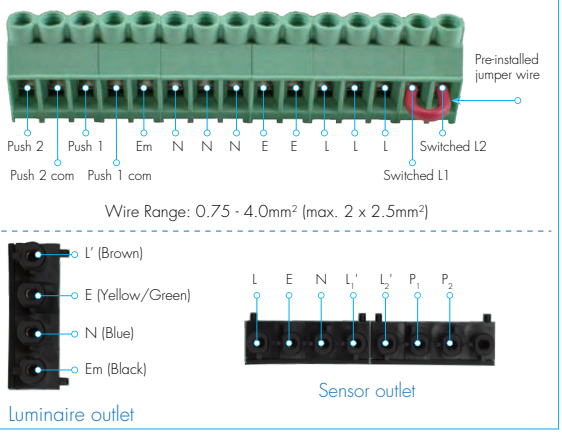
Dimensions (mm)



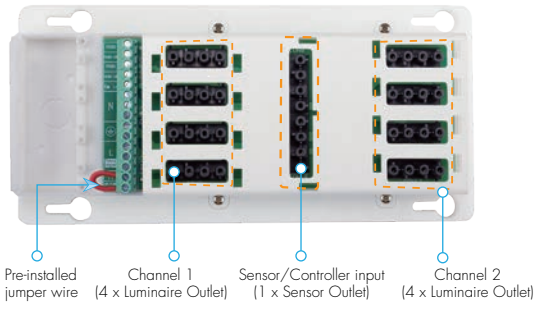
Ordering data

Model name	Description
QCB01	GST type 4-pole terminal base quick connection box for non-dimmable control applications, with 8 luminaire outlets and 1 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

Input & Output Terminal Function



Factory default for QCB01 comes with a pre-installed jumper wire, which short-connects Switched L1 and Switched L2 together. With this jumper wire, all the 8 luminaire outlet are considered as in a same channel (1 x 8) that are controlled together by the sensor/controller.



By removing this pre-installed jumper wire, the 8 outlets are then divided into two separate channels. This QCB01 becomes a 2-channel box with 2 x 4 luminaire outlet. The two channels will be controlled separately (Channel 1 is controlled by Switched L1, and Channel 2 is controlled by Switched L2).

QCB01/ECO

* White color housing by default. Black color housing can be supplied upon request.

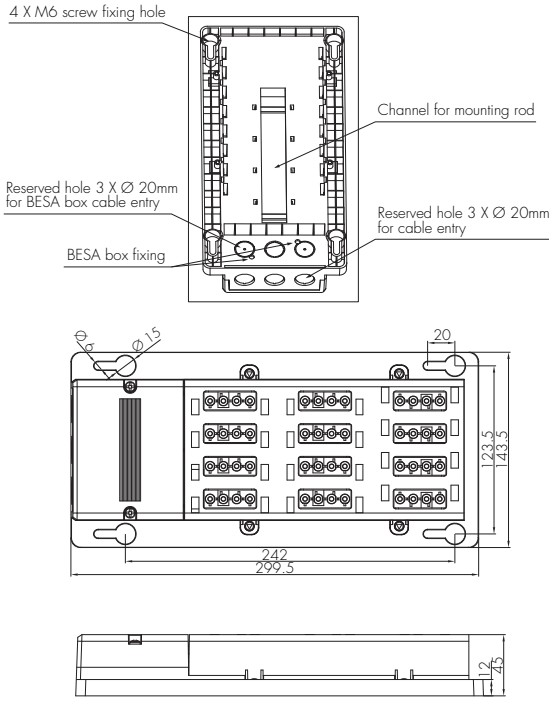
Key Features

- Non-dimmable control applications
- Economic design with 12 luminaire outlets
- Luminaire outlet: GST type 4-pole terminal base (L', N, E, Em)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB01/ECO via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

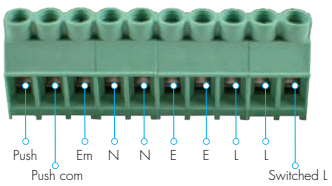
Dimensions (mm)



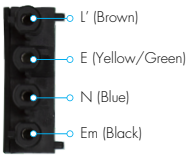
Ordering data

Model name	Description
QCB01/ECO	GST type 4-pole terminal base quick connection box for non-dimmable control applications. With 12 luminaire outlets for one-channel control. Rating of system 16A, rating of each output 10A.

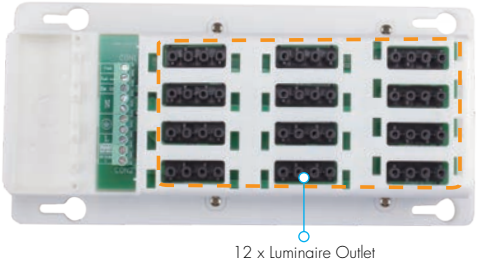
Input & Output Terminal Function



Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)



Luminaire outlet



QCB01/ECO is a one-channel box with 1 x 12 luminaire outlet.

Ceiling Rose

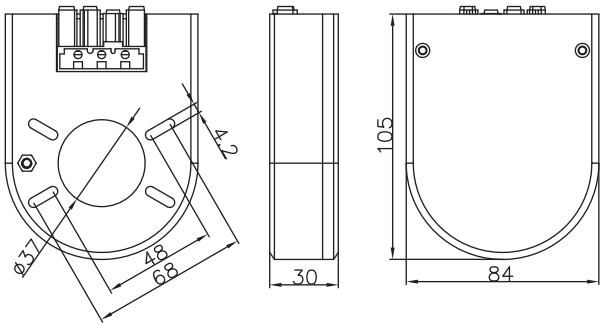
Ceiling rose QCCR01 can be used when there is a need to take power from a conduit box. The installation-friendly design comes with a very spacious termination space for really easy wirings.

Key Features:

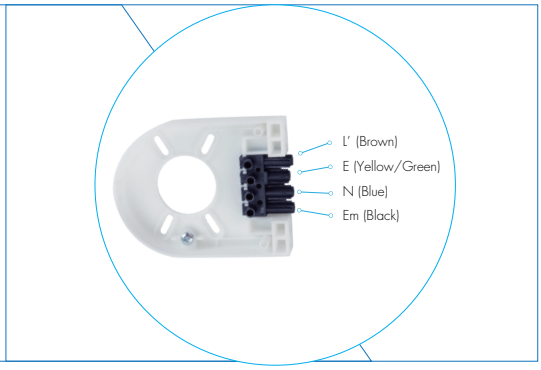
- Can be freely placed or fixed with BESA/junction box
- Taking power from BESA/junction box
- 4-pole GST type connector (L, E, N, Em)
- Allowing fast connection with Hytronik quick connection box
- 15mm depth big cabling space
- 48-68mm pitch for conduit mounting
- Nominal current max.16A
- Flame-retardant material for safety protection

*QCCR01 is supplied with white color housing by default. Black color housing can be supplied upon request.

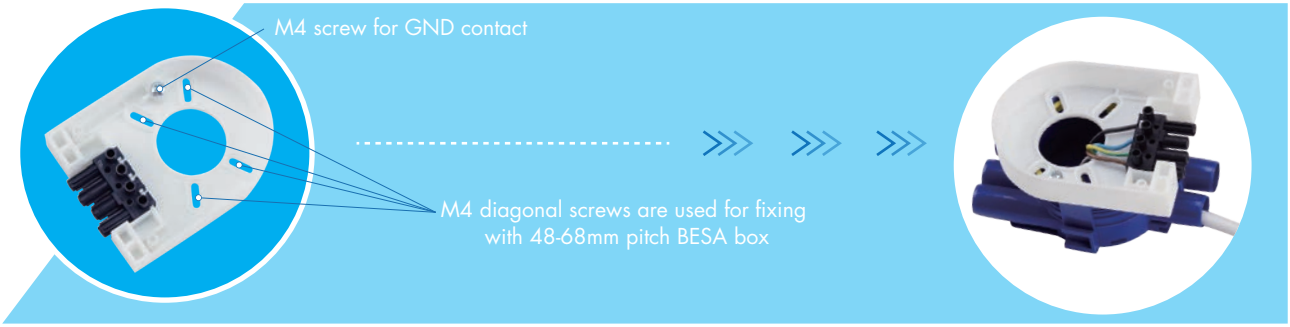
Mechanical Structure & Dimensions



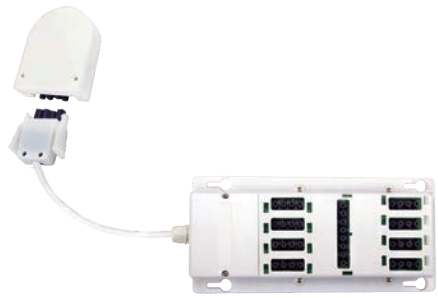
Input & Output Terminal Function



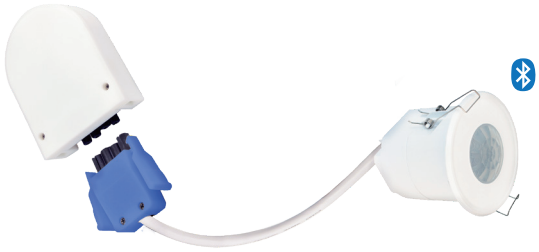
Secure QCCR01 with BESA/Junction box



Connection to Hytronik's QCBs



Connection to Hytronik's Motion Sensors



Wirelessly control QCBs!

Power-supply Cable & Plug for Luminaires/QCBs

Hytronik provides pre-assembled cable & plug. All cables are halogen free, low smoke emission and are factory connected.

HP01/3W3M/100

- HP01 — Hytronik Plug
- 3 — 4-pole GST type
- W — Number of cores
- 3M — Color (W: White; B: Black; R: Red)
- 100 — Length: 3m; Core size: 1mm²

Order Code:	Picture:	Description:	Page:
HP01/W		GST type 4-pole male connection, White color plug only, without cable	244
HP01/3W3M/100		GST type 4-pole male connection, 3-core, 3m cable length, White, Core size 1.0mm²	244
HP01/3W3M/150		GST type 4-pole male connection, 3-core, 3m cable length, White, Core size 1.5mm²	244
HP01/3W5M/100		GST type 4-pole male connection, 3-core, 5m cable length, White, Core size 1.0mm²	244
HP01/3W5M/150		GST type 4-pole male connection, 3-core, 5m cable length, White, Core size 1.5mm²	244
HP01/B		GST type 4-pole male connection, Black color plug only, without cable	245
HP01/3B3M/100		GST type 4-pole male connection, 3-core, 3m cable length, Black, Core size 1.0mm²	245
HP01/3B3M/150		GST type 4-pole male connection, 3-core, 3m cable length, Black, Core size 1.5mm²	245
HP01/3B5M/100		GST type 4-pole male connection, 3-core, 5m cable length, Black, Core size 1.0mm²	245
HP01/3B5M/150		GST type 4-pole male connection, 3-core, 5m cable length, Black, Core size 1.5mm²	245
HP01/R		GST type 4-pole male connection, Red color plug only, without cable	245
HP01/4R3M/100		GST type 4-pole male connection, 4-core, 3m cable length, Emergency, Red, Core size 1.0mm²	245
HP01/4R3M/150		GST type 4-pole male connection, 4-core, 3m cable length, Emergency, Red, Core size 1.5mm²	245
HP01/4R5M/100		GST type 4-pole male connection, 4-core, 5m cable length, Emergency, Red, Core size 1.0mm²	245
HP01/4R5M/150		GST type 4-pole male connection, 4-core, 5m cable length, Emergency, Red, Core size 1.5mm²	245

Order Code: HP01/W

White color plug only, without cable

Order Code: HP01/3W3M/100

3m cable length, 1.0mm² core size

Order Code: HP01/3W3M/150

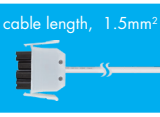
3m cable length, 1.5mm² core size

Order Code: HP01/3W5M/100

5m cable length, 1.0mm² core size

Order Code: HP01/3W5M/150

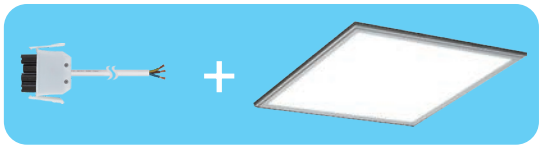
5m cable length, 1.5mm² core size



Description

- For use with QCB01, QCB01/ECO or QCB01/BLE
- Can be used as:
  - – Power supply to standard luminaire
  - – Power supply to QCBs via ceiling rose QCCR01
  - – Power supply to extend one QCB to another QCB
- GST type 4-pole male connection with loose/free end
- 3-core (L, E, N) (Brown, Yellow/Green, Blue)
- White color plug & White color cable

1. Can be supplied alone, so that user can connect to a standard luminaire.



2. Can be supplied with pre-wired QCB models (applicable model: QCB01, QCB01/BLE, QCB01/ECO), so that user can connect to ceiling rose QCCR01, or extend one QCB to another QCB.

Order code: QCB model + cable & plug
e.g. QCB01 + HP01/3B3M/100

Connect to a ceiling rose + QCCR01

or

Extend to another QCB + QCB01

Order Code: HP01/B

Black color plug only, without cable

Order Code: HP01/3B3M/100

3m cable length, 1.0mm² core size

Order Code: HP01/3B3M/150

3m cable length, 1.5mm² core size

Order Code: HP01/3B5M/100

5m cable length, 1.0mm² core size

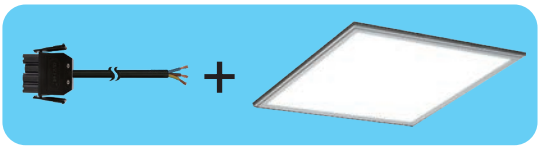
Order Code: HP01/3B5M/150

5m cable length, 1.5mm² core size

Description >>>

- For use with QCB01, QCB01/ECO or QCB01/BLE
- Can be used as:
  - – Power supply to standard luminaire
  - – Power supply to QCBs via ceiling rose QCCR01
  - – Power supply to extend one QCB to another QCB
- GST type 4-pole male connection with loose/free end
- 3-core (L, E, N) (Brown, Yellow/Green, Blue)
- Black color plug & Black color cable

1 Can be supplied alone, so that user can connect to a standard luminaire.



2 Can be supplied with pre-wired QCB models (applicable model: QCB01, QCB01/BLE, QCB01/ECO), so that user can connect to ceiling rose QCCR01, or extend one QCB to another QCB.

Order code: QCB model + cable & plug
e.g. QCB01 + HP01/3B3M/100

Connect to a ceiling rose +

QCCR01

or

Extend to another QCB +

QCB01

Order Code: HP01/R

Red color plug only, without cable

Order Code: HP01/4R3M/100

3m cable length, 1.0mm² core size

Order Code: HP01/4R3M/150

3m cable length, 1.5mm² core size

Order Code: HP01/4R5M/100

5m cable length, 1.0mm² core size

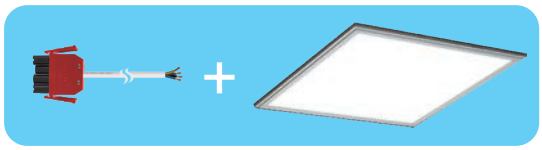
Order Code: HP01/4R5M/150

5m cable length, 1.5mm² core size

Description >>>

- For use with QCB01, QCB01/ECO or QCB01/BLE
- Can be used as:
  - – Power supply to emergency luminaire
  - – Power supply to QCBs via ceiling rose QCCR01
  - – Power supply to extend one QCB to another QCB
- GST type 4-pole male connection with loose/free end
- 4-core (L, E, N, EM) (Brown, Yellow/Green, Blue, Black)
- Red color plug & White color cable

1 Can be supplied alone, so that user can connect to an emergency luminaire.



2 Can be supplied with pre-wired QCB models (applicable model: QCB01, QCB01/BLE, QCB01/ECO), so that user can connect to ceiling rose QCCR01, or extend one QCB to another QCB.

Order code: QCB model + cable & plug
e.g. QCB01 + HP01/4R3M/100

Connect to a ceiling rose +

QCCR01

or

Extend to another QCB +

QCB01

NEW!

HBMW28/PRO

Bluetooth + Presence Detection HF sensor with On/Off control

See pg. 136 for full details & specs information

Order code/Picture		Description
HBMW28/PRO+ HP04/1X1		1pc HBMW28/PRO delivered with pre-installed sensor plug (for use with QCB01)
HBMW28/PRO+ HP04/2X2		2pcs HBMW28/PRO delivered with pre-installed sensor plug (for use with QCB01)
Sensor + QCB model e.g. HBMW28/PRO+ QCB01/ECO		(applicable QCB model: QCB01/ECO, QCB01/BLE, QCB02/BLE, QCB03/BLE) e.g. HBMW28/PRO delivered with pre-installed QCB01/ECO
HBMW28/PRO+HP07		HBMW28/PRO supplied with cable & plug for connecting to ceiling rose QCCR01, which wirelessly controls QCB01/BLE, QCB02/BLE or QCB03/BLE

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBIR28/2CH series

Bluetooth + Presence Detection HF sensor with Dual-channel On/Off control

HBIR28/2CH
- Max height: 6m
- Max detection range: Ø =9m

HBIR28/2CH/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR28/2CH/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 139 for full details & specs information

Order code/Picture		Description
Sensor +HP04/1X1 e.g. HBIR28/2CH+ HP04/1X1		e.g. 1pc HBIR28/2CH delivered with pre-installed sensor plug (for use with QCB01) (applicable sensor model: HBIR28/2CH, HBIR28/2CH/R, HBIR28/2CH/W)

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HBIR28 series

Bluetooth + PIR sensor with On/Off control

HBIR28
- Max height: 6m
- Max detection range: Ø =9m

HBIR28/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR28/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 138 for full details & specs information

Order code/Picture		Description
Sensor + HP04/1X1 e.g. HBIR28 + HP04/1X1		1pc HBIR28 delivered with pre-installed sensor plug (for use with QCB01) (applicable sensor model: HBIR28, HBIR28/R, HBIR28/W)
Sensor + HP04/2X2 e.g. HBIR28 + HP04/2X2		2pcs HBIR28 delivered with pre-installed sensor plug (for use with QCB01) (applicable sensor model: HBIR28, HBIR28/R, HBIR28/W)
Sensor + QCB model e.g. HBIR28 + QCB01/ECO		(applicable QCB model: QCB01/ECO, QCB01/BLE, QCB02/BLE, QCB03/BLE) (applicable sensor model: HBIR28, HBIR28/R, HBIR28/W) e.g. HBIR28 delivered with pre-installed QCB01/ECO
Sensor + +HP07 e.g. HBIR28 + HP07		HBIR28 supplied with cable & plug for connecting to ceiling rose QCCR01, which wirelessly controls QCB01/BLE, QCB02/BLE or QCB03/BLE. (applicable sensor model: HBIR28, HBIR28/R, HBIR28/W)

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HMW28/PRO

Bluetooth + Presence Detection HF sensor with On/Off control

See pg. 150 for full details & specs information

Order code/Picture		Description
HMW28/PRO+HP04/1X1		1pc HMW28/PRO delivered with pre-installed sensor plug (for use with QCB01)
HMW28/PRO+HP04/2X2		2pcs HMW28/PRO delivered with pre-installed sensor plug (for use with QCB01)
Sensor + QCB model e.g. HMW28/PRO+ QCB03/BLE-D2		(applicable QCB model: QCB01/ECO, QCB01/BLE, QCB02/BLE, QCB03/BLE) e.g. HMW28/PRO delivered with pre-installed QCB03/BLE-D2

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIR28 series

Bluetooth + PIR sensor with On/Off control

HIR28
- Max height: 6m
- Max detection range: Ø =9m

HIR28/R
- Max height: 6m
- Max detection range: Ø =10m

HIR28/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 155 for full details & specs information

Order code/Picture		Description
Sensor + HP04/1X1 e.g. HIR28 + HP04/1X1		1pc HIR28 delivered with pre-installed sensor plug (for use with QCB01) (applicable sensor model: HIR28, HIR28/R, HIR28/W)
Sensor + HP04/2X2 e.g. HIR28 + HP04/2X2		2pcs HIR28 delivered with pre-installed sensor plug (for use with QCB01) (applicable sensor model: HIR28, HIR28/R, HIR28/W)
Sensor + QCB model e.g. HIR28+ QCB03/BLE-D2		(applicable QCB model: QCB01/ECO, QCB01/BLE, QCB02/BLE, QCB03/BLE) (applicable sensor model: HIR28, HIR28/R, HIR28/W) e.g. HIR28 series delivered with pre-installed QCB03/BLE-D2.

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

Connection Boxes

QCB02/BLE series

* White color housing by default. Black color housing can be supplied upon request.

Key Features

- Dimmable control applications (DALI/DALI-2 or 0/1-10V)
- Intelligent control with Bluetooth 5.0 SIG mesh module built in
- 4 types of built-in Bluetooth 5.0 control module to select from
- Detailed Bluetooth system features can be viewed on page 05-11
- Luminaire outlet: Wago 5-pole terminal base (L', N, E, Dim+, Dim-)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB02/BLE wirelessly
- Rating of system - - -

  QCB02/BLE-D2: Max. 100mA DALI/DALI-2 power supply

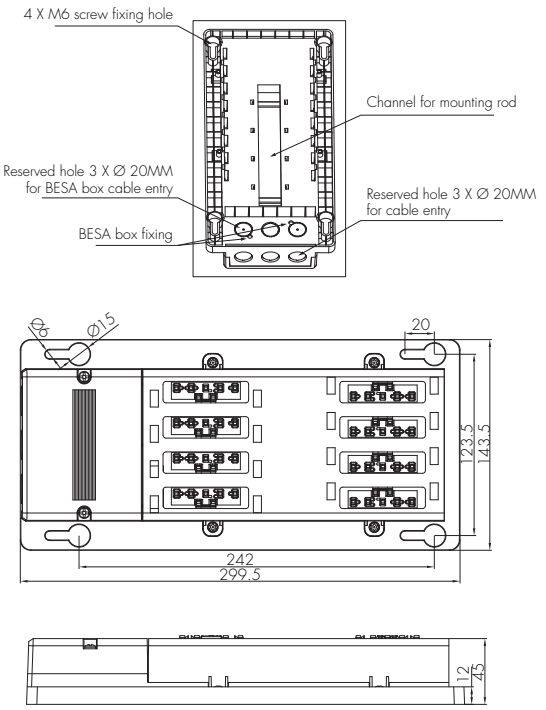
  QCB02/BLE-DCA & QCB02/BLE-DTY: Max. 100mA DALI/DALI-2 power supply

  QCB02/BLE-V: Default rating is 400VA capacitive & 800W resistive. Max 10A can be supplied as a special version upon request
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

Dimensions (mm) :



Ordering data :

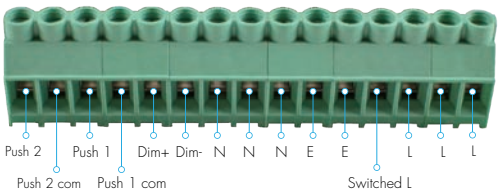
QCB02/BLE series

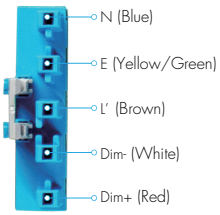
Four built-in module options

Model name	Description
QCB02/BLE-V	(Built-in Bluetooth module code: HBTD8200V/F) 0/1-10V output Default rating 400VA capacitive & 800W resistive. Dimmable control with corridor function
QCB02/BLE-D2	(Built-in Bluetooth module code: HBTD8200D/F) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable
QCB02/BLE-DCA	(Built-in Bluetooth module code: HBTD8200D/F/CA) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable, Casambi Enabled
QCB02/BLE-DTY	(Built-in Bluetooth module code: HBTD8200D/TY/F) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable, Tuya Enabled

Input & Output Terminal Function

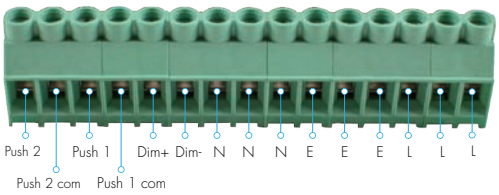
QCB02/BLE-V

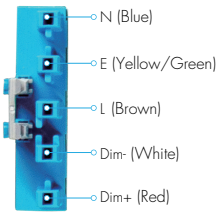




Luminaire outlet

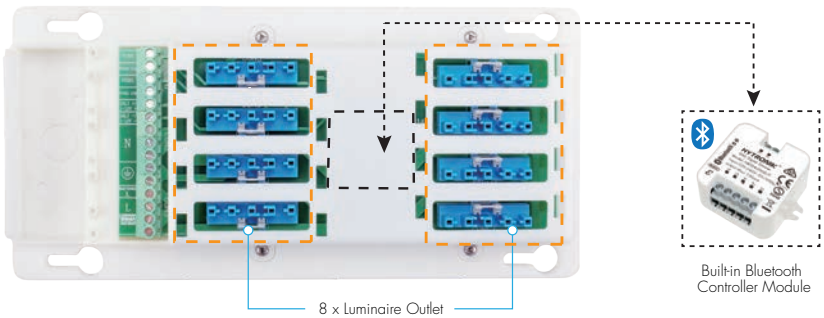
QCB02/BLE-D2 & QCB02/BLE-DCA & QCB02/BLE-DTY





Luminaire outlet

Wire Range:
0.75 - 4.0mm²
(max. 2 x 2.5mm²)



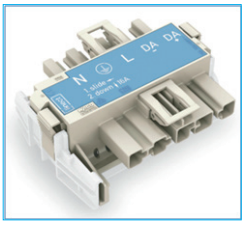
In the middle of the QCB02/BLE there is a pre-installed Bluetooth 5.0 SIG mesh controller module. We offer 4 types of different controller modules for users to choose from.For each controller module, all the 8 luminaire outlets as regarded as one channel (1 x 8).

Default max rating for **QCB02/BLE-D2 & QCB02/BLE-DCA & QCB02/BLE-DTY** is 100mA;

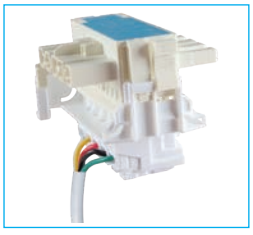
Default max rating for **QCB02/BLE-V** is 400VA Capacitive & 800W Resistive. Max 10A can be supplied as a special version upon request.

Connecting to linect System!

QCB02/BLE products are also able to be integrated to Linect connection linect system. With the T-connector module, connection to luminaires can be easily extended (luminaire needs to be linect connection enabled).



Wago 5 pole Linect® T-connector



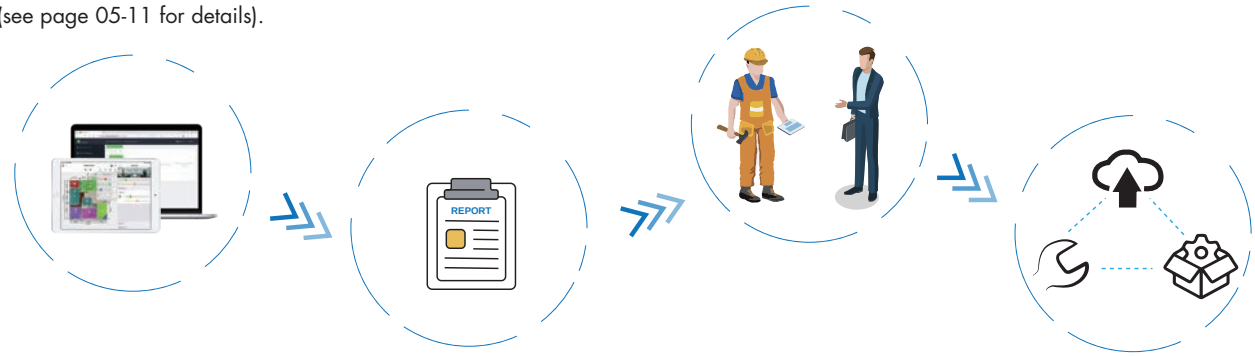
Prewired Wago 5 pole Linect® T-connector

Install to luminaires to achieve easy extension

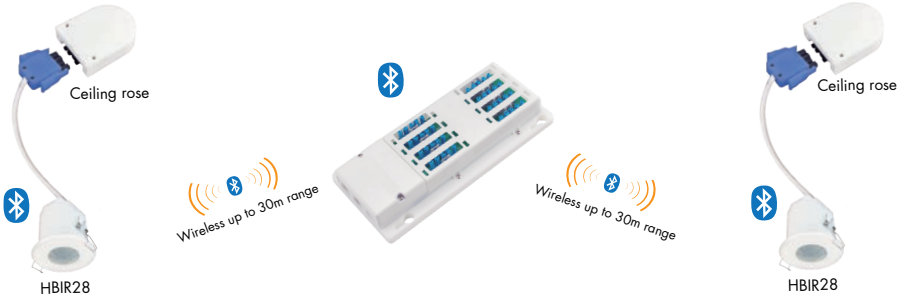
What's so Helpful about QCB02/BLE Series Bluetooth "Intelligent" Control ?

(For Casambi's and Tuya's products, they have overall pretty much similar benifits and capabilities but still vary from one to another when it comes to the details. Users can always refer to Casambi's or Tuya's corresponding Bluetooth system to learn their capabilities and differences accordingly)

1. User enjoys the full set of powerful Bluetooth features (see page 05-11 for details).



2. When used with Hytronik's Bluetooth on/off motion sensor, the Bluetooth sensor can control all the luminaires wirelessly without needing to be hard-wired to the QCB02/BLE.



Hytronik's Bluetooth sensor can be plugged to a nearest ceiling rose, without needing to connect a long cable to the QCB02/BLE. This Bluetooth sensor will be able to wirelessly control all the luminaires that are connected to the QCB02/BLE. This is extremely useful by saving long cable wirings when there are multiple Bluetooth sensors controlling a same group of luminaires.

Thanks to the built-in Bluetooth 5.0 controller, QCB02/BLE is born to comes with dimming output to the luminaires (namely, **QCB02/BLE-V** provides 0/1-10V output, **QCB02/BLE-D2** provides DALI/DALI-2 output. So the sensor only needs to be a non-dimmable on/off sensor that just picks up motion and sends out trigger signal via Bluetooth, and all the dimming controls will be performed by the QCB02/BLE box itself.

This makes sensor selections easy and cost-effective, aiming to cut the budget cost and reduce sensor model inventories for users.

Dimming Control Capability

With Hytronik's On/Off Bluetooth sensor **HBIR28**		QCB02/BLE-V (0/1-10V output)	QCB02/BLE-D2 (DALI/DALI-2 output)
	Lux on/off control	√	√
	Tri-level control (Corridor function)	√	√
	Daylight harvest control (Daylight regulating/interation)	√	√
	Color tuning control		√
	Circadian rhythm control (Human Centric Lighting)		√

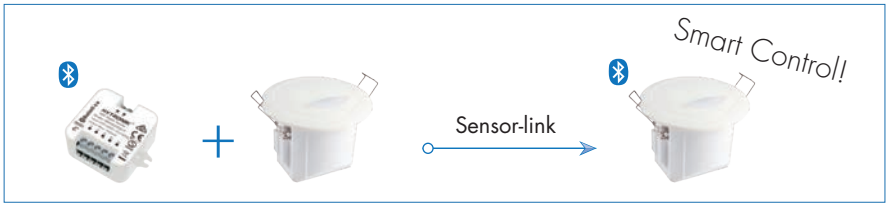
Besides, there will be no requirement for the sensor's loading capability. Sensor just picks up motion and sends trigger signal via Bluetooth, the loading capability is purely determined by QCB02/BLE, which depends on internal control module selections. For **QCB02/BLE-D2**, the max. DALI power supply is 100mA; and for **QCB02/BLE-V**, the max. rate is 400VA capacitive & 800W resistive by default, and a special version of max 10A can be supplied upon request if higher loading capability is required. In other words, the sensor's loading capability can be as small as possible to save project cost, as 1A and 10A have no differences at all in this case.

What's so Helpful about QCB02/BLE's & QCB03/BLE's Bluetooth "Intelligent" Control ?

3. When used with an ordinary non-Bluetooth on/off motion sensor (can be Hytronik's sensor or can be from any third-party), the built-in Bluetooth 5.0 controller "upgrades" this ordinary on/off sensor to a Bluetooth smart control sensor, with tri-level control dimming control.

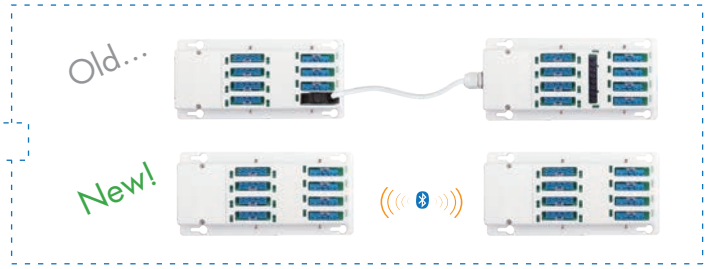
With a built-in Bluetooth 5.0 controller in QCB02/BLE, an ordinary motion sensor can be "upgraded" to Bluetooth smart control using an App feature called "Sensor-link ", which is easily achieved by wiring the L' of the ordinary sensor to the PUSH terminal of the QCB02/BLE. With this feature, the motion sensor works normally while the advanced Bluetooth control features such as scheduling, timer & recall scenes will all perform well at the same time.

Meanwhile, another great thing about "Sensor-link" feature is that, it will "upgrade" an on/off motion sensor to have tri-level dimming function (corridor function)! The on/off sensor that just picks up motion and sends out trigger signal via Bluetooth, and tri-level dimming control will be performed by the QCB02/BLE box itself and users can set up stand-by parameters in the app freely. This makes sensor selections easy and cost-effective, aiming to cut the budget cost and reduce sensor model inventories for users.

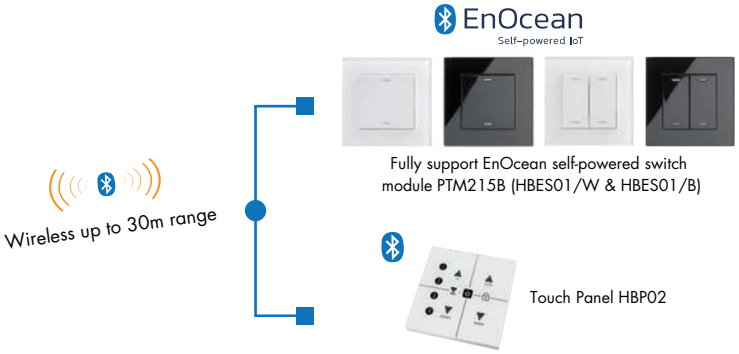


Besides, there will be no requirement for the sensor's loading capability. Sensor just picks up motion and sends trigger signal, the loading capability is purely determined by the QCB02/BLE, which depends on internal control selections. For **QCB02/BLE-D2**, the max. DALI power supply is 100mA; and for **QCB02/BLE-V**, the max. rate is 400VA capacitive & 800W resistive by default, and a special version of max 10A can be supplied upon request if higher loading capability is required. In other words, the sensor's loading capability can be as small as possible to save project cost, as 1A and 10A have no differences at all in this case.

4. Traditional way to extend number of luminaire outlets requires hard-wiring from one box to another. Now thanks to the Bluetooth mesh network, QCB02/BLE can be easily extended to another QCB02/BLE wirelessly!



5. QCB02/BLE can be wirelessly controlled by an EnOcean Bluetooth self-powered switch or Hytronik's Bluetooth touch panel HBP02.



QCB02

* White color housing by default. Black color housing can be supplied upon request.

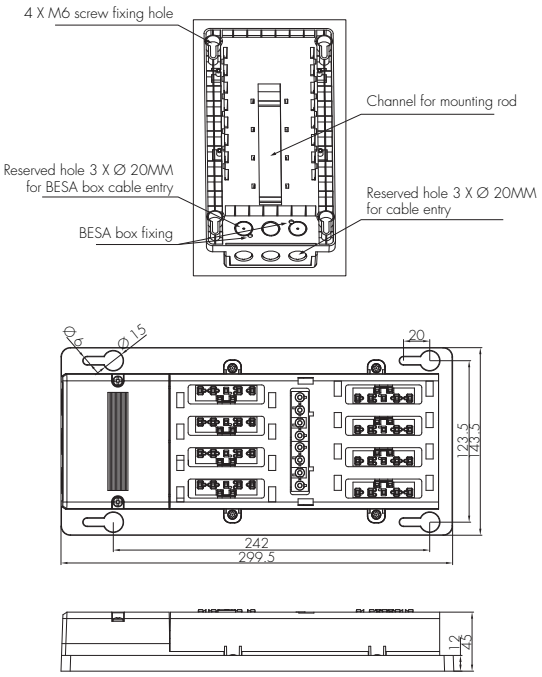
Key Features

- Dimmable control applications (DALI or DALI-2)
- 8 luminaire outlets + 1 extra sensor outlet for sensor connection
- Luminaire outlet: Wago 5-pole terminal base (L' or L, N, E, DA+, DA-)
- Sensor outlet: GST type 8-pole terminal base (L, P1, N, DA_1-, DA_1+, P2, DA_2-, DA_2+)
- Black housing and white housing available to choose from
- Freely switch between 1-channel (1 x 8) & 2-channel (2 x 4) control
- Tamper-proof structure design
- Expandable: easy extension to another QCB02 via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

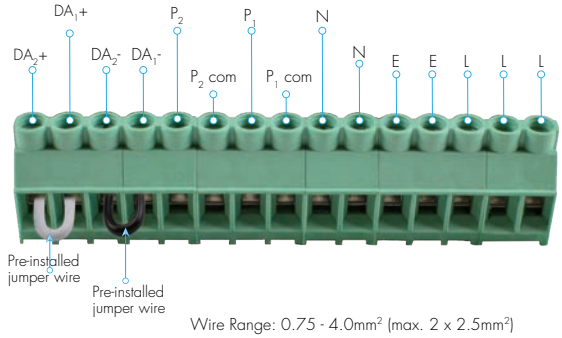
Dimensions (mm)



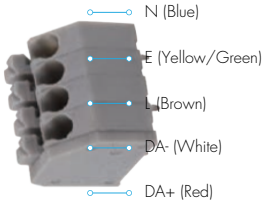
Ordering data

Model name	Description
QCB02	Wago 5-pole terminal base quick connection box for dimming application, with DALI or DALI-2 output, 8 luminaire outlets and 1 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

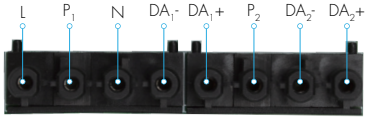
Input & Output Terminal Function



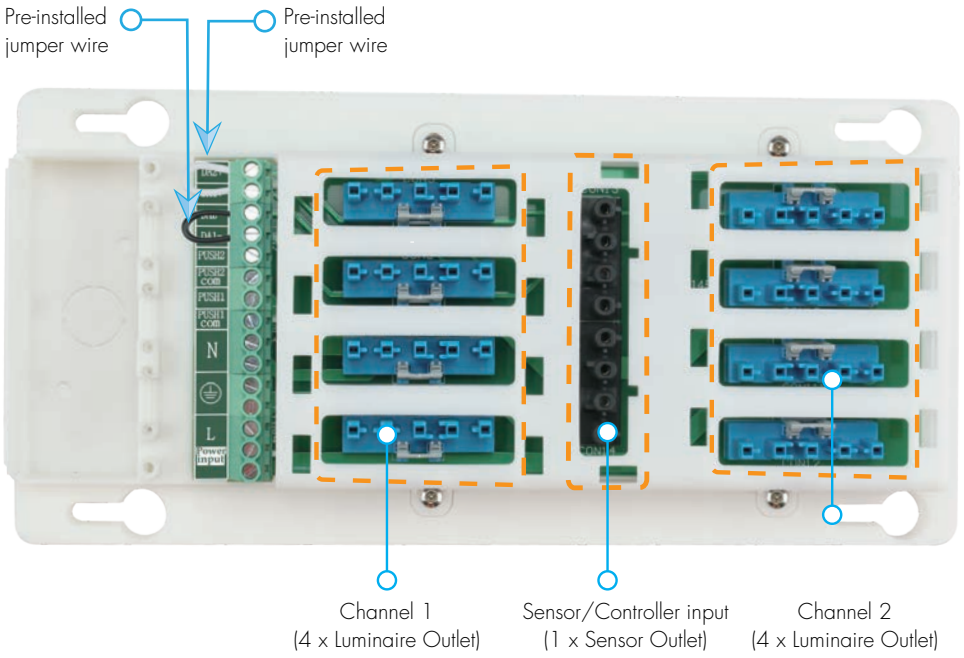
Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)



Luminaire outlet



Sensor outlet



Factory default for QCB02 comes with two pre-installed jumper wires. The black jumper wire short-connects DA_1- and DA_2-, and the white jumper wire short-connects DA_1+ and DA_2+. With these jumper wires, user can freely switch between one-channel and two-channel control.

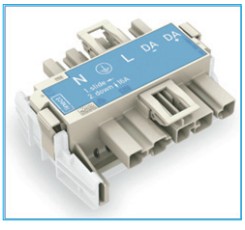
1) one-channel (1 x 8) DALI dimming – – – keep both black wire & white wire.
2) two-channel (2 x 4) dual DALI dimming – – – remove both black wire & white wire.

In this case the two channels will be controlled separately (channel 1 is controlled by DA_1+ & DA_1-, and channel 2 is controlled by DA_2- & DA_2+).

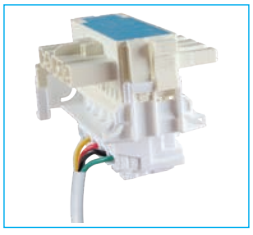
This flexible design aims to reduce model inventories for users, and just one box is capable enough to handle different requirements on the project site. Easy for management, and powerful for usage!

Connecting to linect System!

QCB02 products are also able to be integrated to Linect connection linect system. With the T-connector module, connection to luminaires can be easily extended (luminaire needs to be linect connection enabled).



Wago 5 pole Linect® T-connector



Prewired Wago 5 pole Linect® T-connector

Install to luminaires to achieve easy extension

QCB03/BLE series

Key Features

- Dimmable control applications (DALI/DALI-2 or 0/1-10V)
- Intelligent control with Bluetooth 5.0 SIG mesh module built in
- 4 types of built-in Bluetooth 5.0 control module to select from
- Detailed Bluetooth system features can be viewed on page 05-11
- Luminaire outlet: GST type 6-pole terminal base (L', N, E, Em, Dim+, Dim-)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB03/BLE wirelessly
- Rating of system - - -

  QCB03/BLE-D2: Max. 100mA DALI/DALI-2 power supply

  QCB03/BLE-DCA & QCB03/BLE-DTY: Max. 100mA DALI/DALI-2 power supply

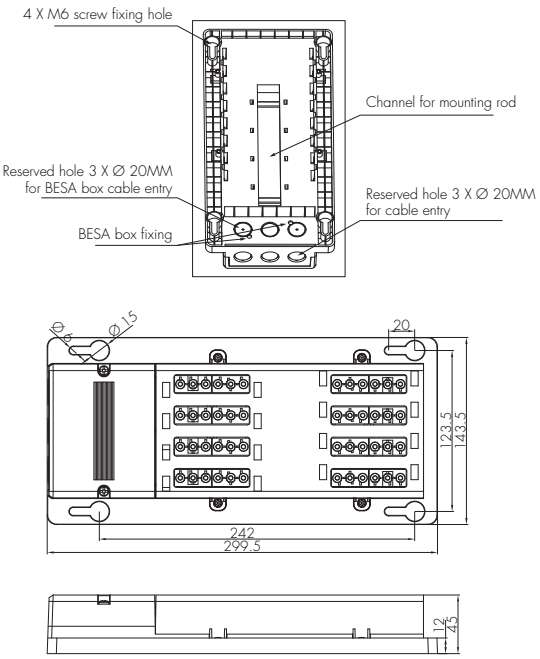
  QCB03/BLE-V: Default rating is 400VA capacitive & 800W resistive. Max 10A can be supplied as a special version upon request
- Flame-retardant material for safety protection

* White color housing by default. Black color housing can be supplied upon request.

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

Dimensions (mm) :



Ordering data :

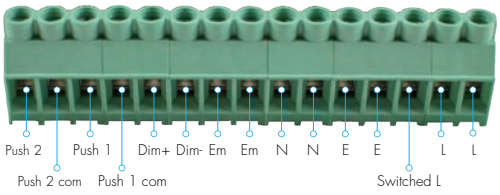
QCB03/BLE series

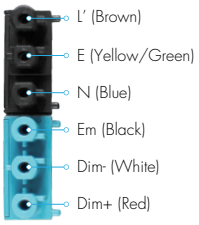
Four built-in module options

Model name	Description
QCB03/BLE-V	(Built-in Bluetooth module code: HBTD8200V/F) 0/1-10V output Default rating 400VA capacitive & 800W resistive. Dimmable control with corridor function
QCB03/BLE-D2	(Built-in Bluetooth module code: HBTD8200D/F) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable
QCB03/BLE-DCA	(Built-in Bluetooth module code: HBTD8200D/F/CA) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable, Casambi Enabled
QCB03/BLE-DTY	(Built-in Bluetooth module code: HBTD8200D/TY/F) DALI / DALI-2 output Max. 100mA DALI/DALI-2 power supply. DT8: Dimmable & Color Tunable, Tuya Enabled

Input & Output Terminal Function

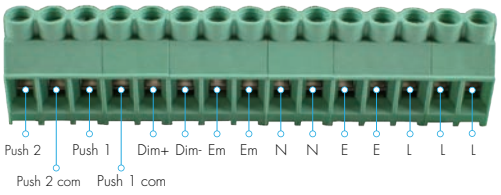
QCB03/BLE-V

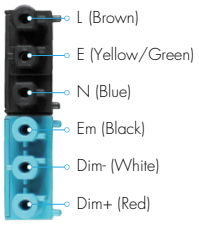




Luminaire outlet

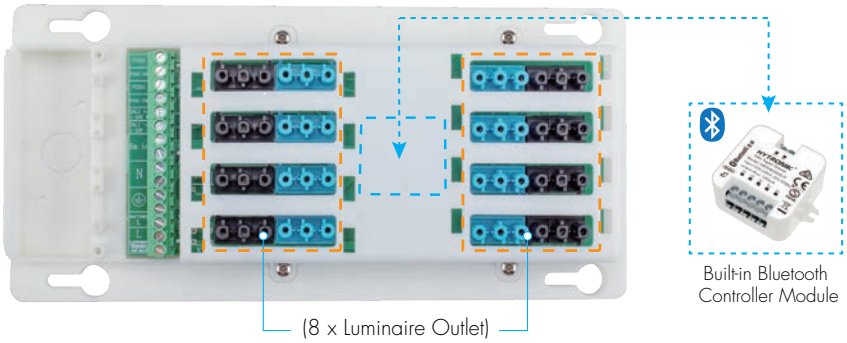
QCB03/BLE-D2 & QCB03/BLE-DCA & QCB03/BLE-DTY





Luminaire outlet

Wire Range:
0.75 - 4.0mm²
(max. 2 x 2.5mm²)



In the middle of the QCB03/BLE there is a pre-installed Bluetooth 5.0 SIG mesh controller module. We offer 4 types of different controller modules for users to choose from. For each controller module, all the 8 luminaire outlets as regarded as one channel (1 x 8).

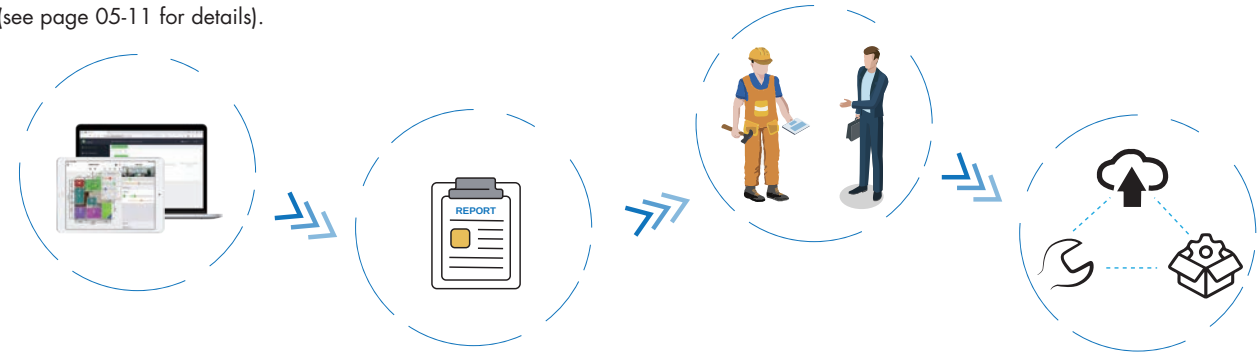
Default max rating for **QCB03/BLE-D2 & QCB03/BLE-DCA & QCB03/BLE-DTY** is 100mA;

Default max rating for **QCB03/BLE-V** is 400VA Capacitive & 800W Resistive. Max 10A can be supplied as a special version upon request.

What's so Helpful about QCB03/BLE Series Bluetooth "Intelligent" Control ?

(For Casambi's and Tuya's products, they have overall pretty much similar benifits and capabilities but still vary from one to another when it comes to the details. Users can always refer to Casambi's or Tuya's corresponding Bluetooth system to learn their capabilities and differences accordingly)

1. User enjoys the full set of powerful Bluetooth features (see page 05-11 for details).



2. When used with Hytronik's Bluetooth on/off motion sensor, the Bluetooth sensor can control all the luminaires wirelessly without needing to be hard-wired to the QCB03/BLE.

Hytronik's Bluetooth sensor can be plugged to a nearest ceiling rose, without needing to connect a long cable to the QCB03/BLE. This Bluetooth sensor will be able to wirelessly control all the luminaires that are connected to the QCB03/BLE. This is extremely useful by saving long cable wirings when there are multiple Bluetooth sensors controlling a same group of luminaires.

Thanks to the built-in Bluetooth 5.0 controller, QCB03/BLE is born to comes with dimming output to the luminaires (namely, **QCB03/BLE-V** provides 0/1-10V output, **QCB03/BLE-D2** provides DALI/DALI-2 output. So the sensor only needs to be a non-dimmable on/off sensor that just picks up motion and sends out trigger signal via Bluetooth, and all the dimming controls will be performed by the QCB03/BLE box itself.

This makes sensor selections easy and cost-effective, aiming to cut the budget cost and reduce sensor model inventories for users.

Dimming Control Capability

With Hytronik's On/Off Bluetooth sensor **HBIR28**		QCB03/BLE-V (0/1-10V output)	QCB03/BLE-D2 (DALI/DALI-2 output)
	Lux on/off control	√	√
	Tri-level control (Corridor function)	√	√
	Daylight harvest control (Daylight regulating/interation)	√	√
	Color tuning control		√
	Circadian rhythm control (Human Centric Lighting)		√

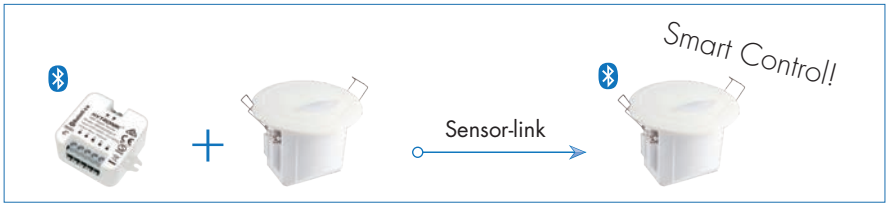
Besides, there will be no requirement for the sensor's loading capability. Sensor just picks up motion and sends trigger signal via Bluetooth, the loading capability is purely determined by QCB03/BLE, which depends on internal control module selections. For **QCB03/BLE-D2**, the max. DALI power supply is 100mA; and for **QCB03/BLE-V**, the max. rate is 400VA capacitive & 800W resistive by default, and a special version of max 10A can be supplied upon request if higher loading capability is required. In other words, the sensor's loading capability can be as small as possible to save project cost, as 1A and 10A have no differences at all in this case.

What's so Helpful about QCB03/BLE Series Bluetooth "Intelligent" Control ?

3. When used with an ordinary non-Bluetooth on/off motion sensor (can be Hytronik's sensor or can be from any third-party), the built-in Bluetooth 5.0 controller "upgrades" this ordinary on/off sensor to a Bluetooth smart control sensor, with tri-level control dimming control.

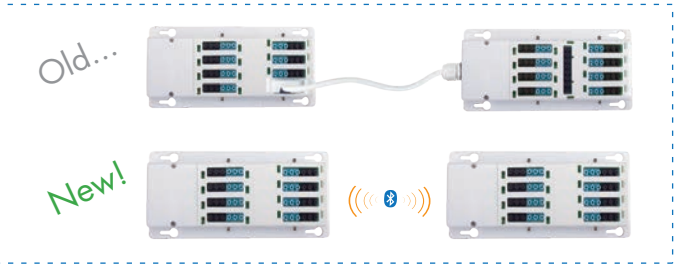
With a built-in Bluetooth 5.0 controller in QCB03/BLE, an ordinary motion sensor can be "upgraded" to Bluetooth smart control using an App feature called "Sensor-link ", which is easily achieved by wiring the L' of the ordinary sensor to the PUSH terminal of the QCB03/BLE. With this feature, the motion sensor works normally while the advanced Bluetooth control features such as scheduling, timer & recall scenes will all perform well at the same time.

Meanwhile, another great thing about "Sensor-link" feature is that, it will "upgrade" an on/off motion sensor to have tri-level dimming function (corridor function)! The on/off sensor that just picks up motion and sends out trigger signal via Bluetooth, and tri-level dimming control will be performed by the QCB03/BLE box itself and users can set up stand-by parameters in the app freely. This makes sensor selections easy and cost-effective, aiming to cut the budget cost and reduce sensor model inventories for users.

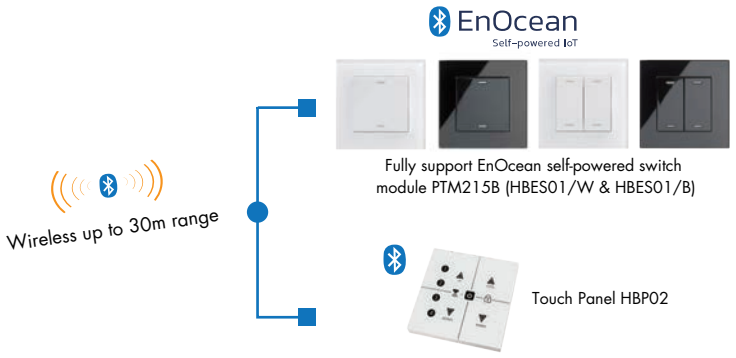


Besides, there will be no requirement for the sensor's loading capability. Sensor just picks up motion and sends trigger signal, the loading capability is purely determined by the QCB03/BLE, which depends on internal control selections. For **QCB03/BLE-D2**, the max. DALI power supply is 100mA; and for **QCB03/BLE-V**, the max. rate is 400VA capacitive & 800W resistive by default, and a special version of max 10A can be supplied upon request if higher loading capability is required. In other words, the sensor's loading capability can be as small as possible to save project cost, as 1A and 10A have no differences at all in this case.

4. Traditional way to extend number of luminaire outlets requires hard-wiring from one box to another. Now thanks to the Bluetooth mesh network, QCB03/BLE can be easily extended to another QCB03/BLE wirelessly!



5. QCB03/BLE can be wirelessly controlled by an EnOcean Bluetooth self-powered switch or Hytronik's Bluetooth touch panel HBP02.



QCB03

* White color housing by default. Black color housing can be supplied upon request.

Key Features

- Dimmable control applications (DALI/DALI-2 or 0/1-10V)
- 8 luminaire outlets + 1 extra sensor outlet for sensor connection
- Luminaire outlet: GST type 6-pole terminal base (L' or L, N, E, Em, Dim+, Dim-)
- Sensor outlet: GST type 8-pole terminal base (L, N, E, L', P1, P2, Dim-, Dim+)
- Black housing and white housing available to choose from
- Freely switch between 1-channel (1 x 8) & 2-channel (2 x 4) control
- Tamper-proof structure design
- Expandable: easy extension to another QCB03 via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

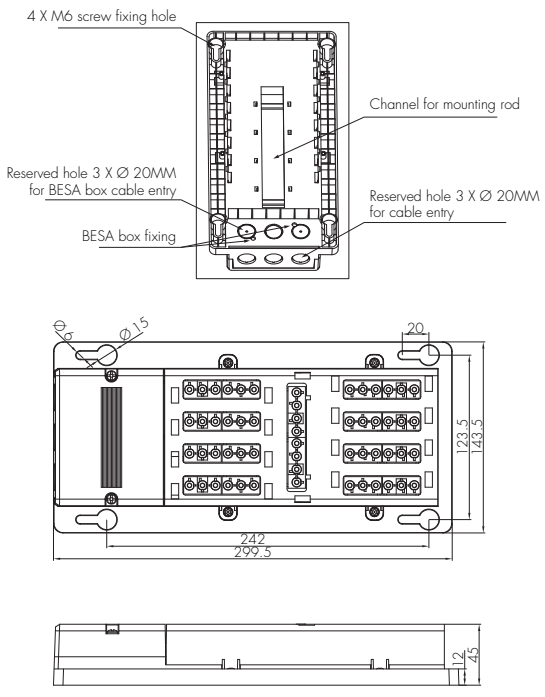
Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

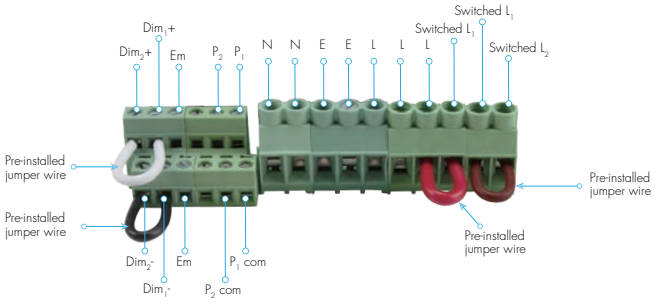
Ordering data

Model name	Description
QCB03	GST type 6-pole terminal base quick connection box for dimming application, with DALI/DALI-2 or 0/1-10V output, 8 luminaire outlets and 1 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

Dimensions (mm)



Input & Output Terminal Function

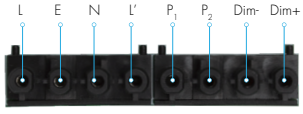


Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)

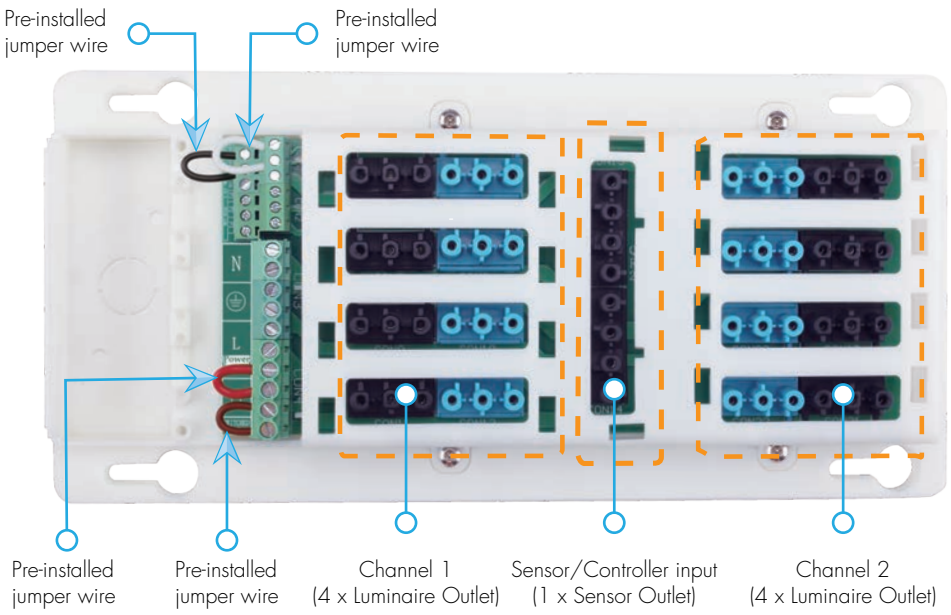
When using DALI dimming

When using on/off switching or 0/1-10V dimming

Luminaire outlet



Sensor outlet



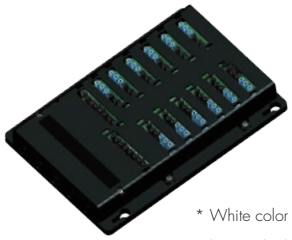
Factory default for QCB03 comes with four pre-installed jumper wires. The brown wire short-connects Switched L1 and Switched L2 together, the red jumper wire short-connects Switched L1 and L, the black jumper wire short-connects Dim_1- and Dim_2-, and the white jumper wire short-connects Dim_1+ and Dim_2+. With these jumper wires, user can freely choose different dimming control method and also freely switch between one-channel and two-channel control.

1) one-channel (1 x 8) DALI dimming – – – keep all four jumper wires.
2) two-channel (2 x 4) dual DALI dimming – – – keep red wire & brown wire, remove black wire & white wire.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Dim_2- & Dim_2+).
3) one-channel (1 x 8) 0/1-10V dimming – – – remove red wire, keep brown wire & black wire & white wire.
4) two-channel (2 x 4) dual 0/1-10V dimming – – – remove all four jumper wires.
   In this case the two channels will be controlled separately (channel 1 is controlled by Switched L1, Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2, Dim_2- & Dim_2+).
5) two-channel (2 x 4) DALI dimming + on/off switching – – – keep red wire, remove brown wire & black wire & white wire.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2).
6) two-channel (2 x 4) 0/1-10V dimming + on/off switching – – – remove all four jumper wires.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2).

This flexible design aims to reduce model inventories for users, and just one box is capable enough to handle different dimming requirements on the project site. Easy for management, and powerful for usage!

NEW!

QCB03/ECO



* White color housing by default. Black color housing can be supplied upon request.

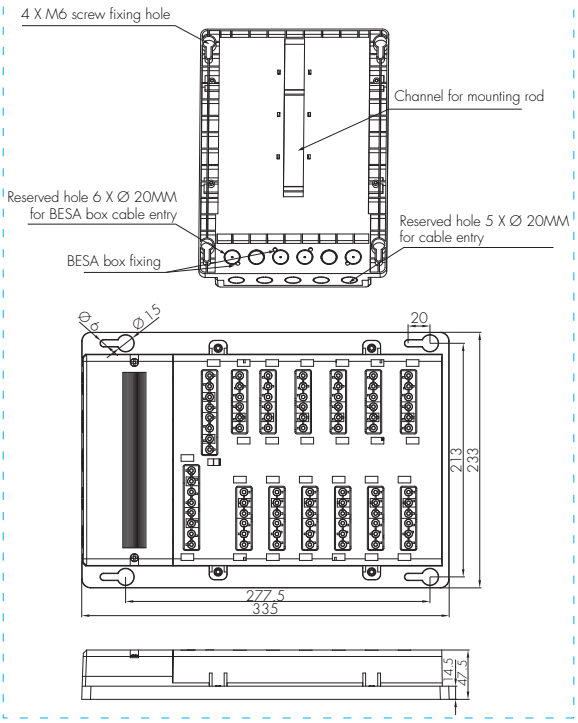
Key Features

- Dimmable control applications (DALI-2 or 0/1-10V)
- 12 luminaire outlets + 2 extra sensor outlet for sensor connection
- Luminaire outlet: GST type 6-pole terminal base (L' or L, N, E, Em, Dim+, Dim-)
- Sensor outlet: GST type 8-pole terminal base (L, N, E, L', P1, P2, Dim-, Dim+)
- Black housing and white housing available to choose from
- Freely switch between 1-channel (1 x 8) & 2-channel (2 x 4) control
- Tamper-proof structure design
- Expandable: easy extension to another QCB03/ECO via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

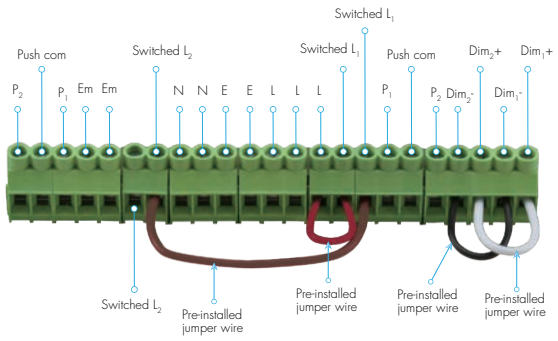
Dimensions (mm)



Ordering data

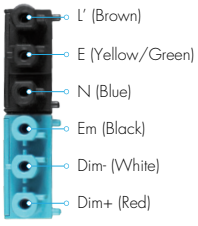
Model name	Description
QCB03/ECO	GST type 6-pole terminal base quick connection box for dimming application, with DALI or 0/1-10V output, 12 luminaire outlets and 2 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

Input & Output Terminal Function



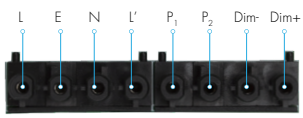
Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)

When using DALI dimming

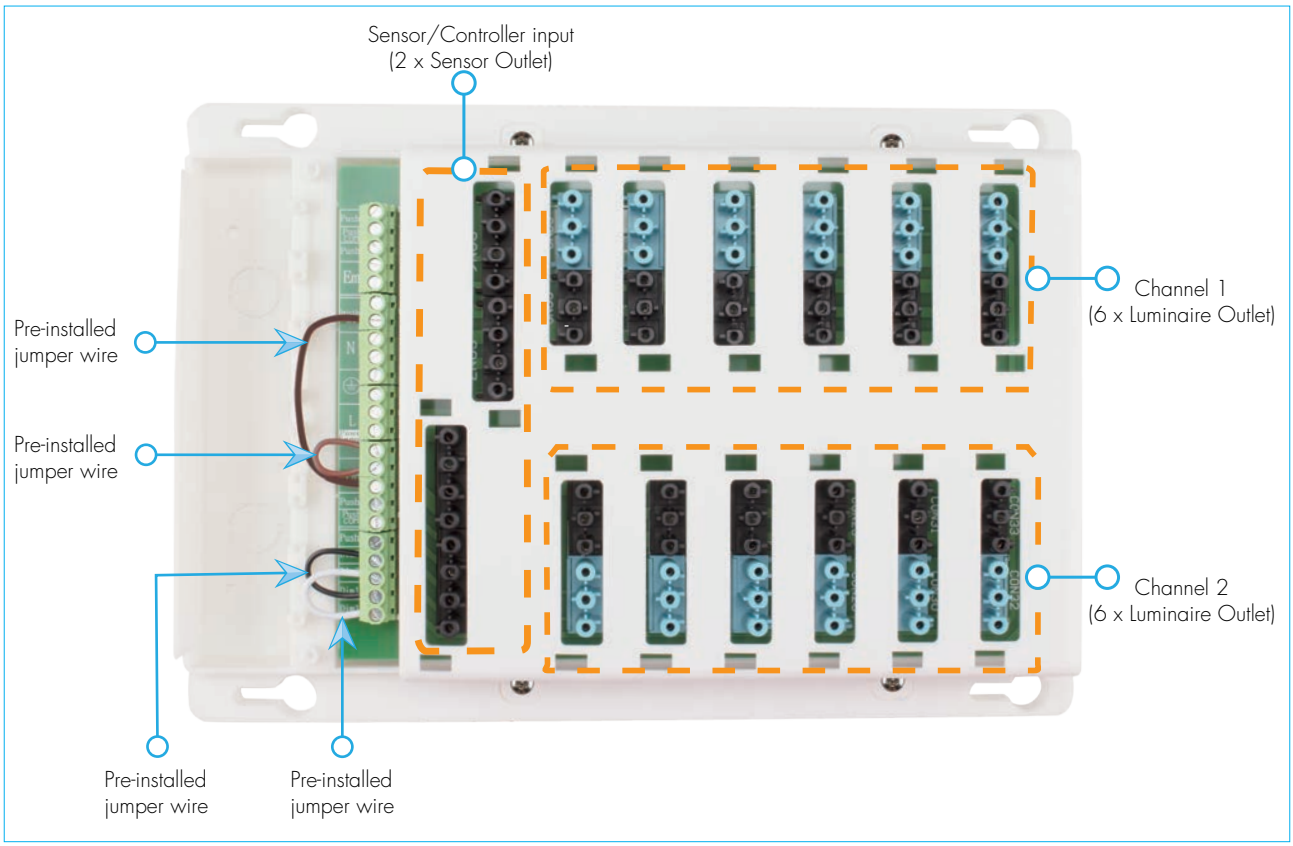


When using on/off switching or 0/1-10V dimming

Luminaire outlet



Sensor outlet



Factory default for QCB03/ECO comes with four pre-installed jumper wires. The brown wire short-connects Switched L1 and Switched L2 together, the red jumper wire short-connects Switched L1 and L, the black jumper wire short-connects Dim_1- and Dim_2-, and the white jumper wire short-connects Dim_1+ and Dim_2+. With these jumper wires, user can freely choose different dimming control method and also freely switch between one-channel and two-channel control.

1) one-channel (1 x 8) DALI dimming – – – keep all four jumper wires.
2) two-channel (2 x 4) dual DALI dimming – – – keep red wire & brown wire, remove black wire & white wire.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Dim_2- & Dim_2+).
3) one-channel (1 x 8) 0/1-10V dimming – – – remove red wire, keep brown wire & black wire & white wire.
4) two-channel (2 x 4) dual 0/1-10V dimming – – – remove all four jumper wires.
   In this case the two channels will be controlled separately (channel 1 is controlled by Switched L1, Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2, Dim_2- & Dim_2+).
5) two-channel (2 x 4) DALI dimming + on/off switching – – – keep red wire, remove brown wire & black wire & white wire.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2).
6) two-channel (2 x 4) 0/1-10V dimming + on/off switching – – – remove all four jumper wires.
   In this case the two channels will be controlled separately (channel 1 is controlled by Dim_1+ & Dim_1-, and channel 2 is controlled by Switched L2).

This flexible design aims to reduce model inventories for users, and just one box is capable enough to handle different dimming requirements on the project site. Easy for management, and powerful for usage!

NEW!

SCB01/BLE

Key Features

- Dimmable & Switching applications
- Intelligent control with Bluetooth 5.0 SIG mesh module built in
- Detailed Bluetooth system features can be viewed on page 05-11
- Luminaire outlet: GST type 6-pole terminal base (L', N, E, Em, Dim+, Dim-)
- 4 Low-volt SELV RJ45 sensors ports (can be daisy chained)
- 4 SELV switch inputs
- Support VFC (volt-free contact) & ELT switch
- Support up to 8 luminaire channels (via app)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another SCB01/BLE wirelessly!
- Rating of system - - - Max. 100mA DALI power supply & 400VA capacitive & 800W resistive (each outlet/socket).
- Flame-retardant material for safety protection

* White color housing by default. Black color housing can be supplied upon request.

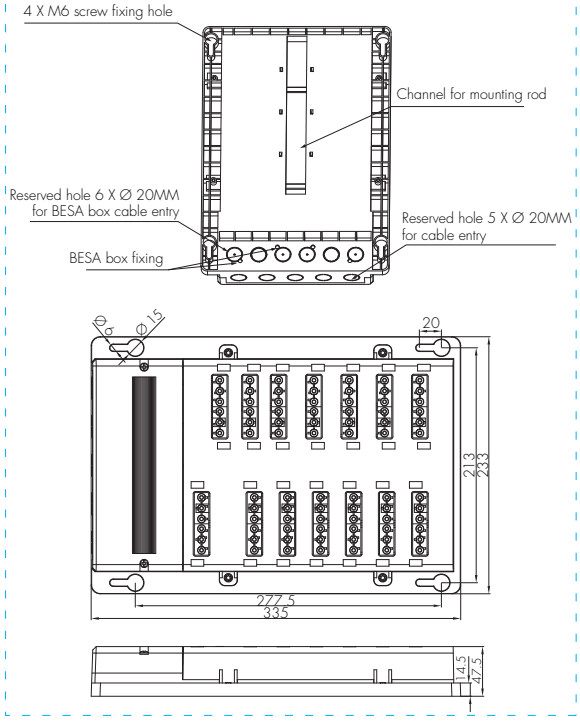
Ordering data

Model name	Description
SCB01/BLE	Designed for low-volt (SELV) applcaitions with SELV sensor connection and SELV PUSH/retractive switch. GST type 6-pole terminal base quick connection box for dimming (DALI-2) & switching application, 14 luminaire outlets, 4 SELV RJ45 sensor outlets and 4 SELV switch inputs. Support up to 8 luminaire channels via app, and an extra channel for VFC (volt-free contact) and an extra channel for ELT switch.

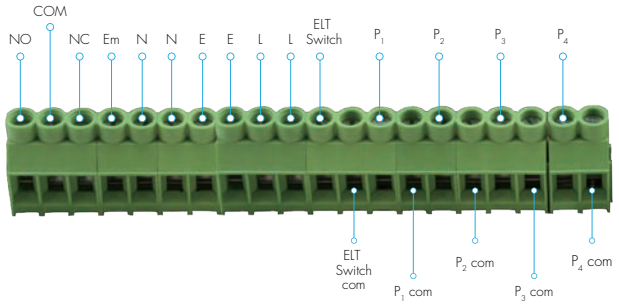
Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

Dimensions (mm)

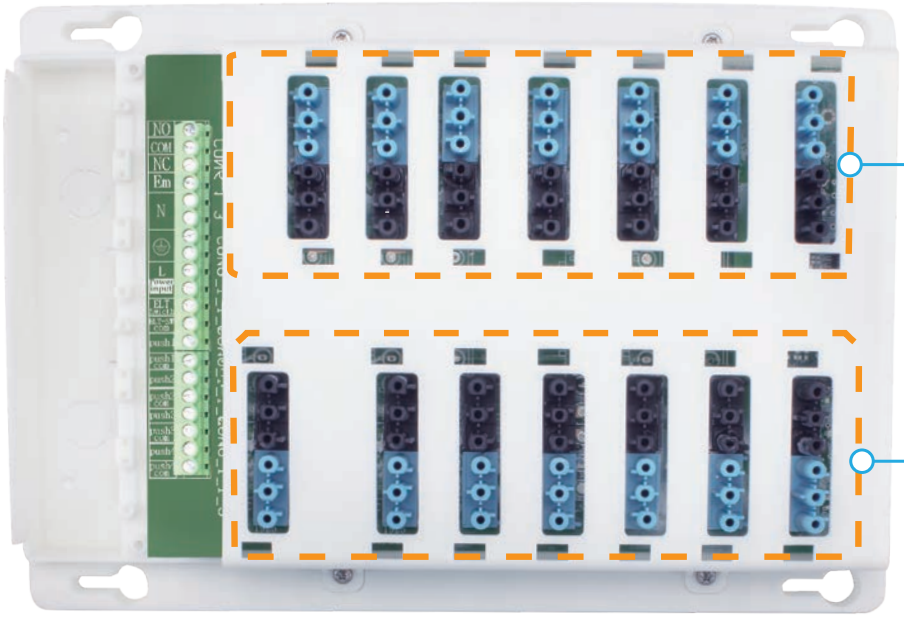


Input & Output Terminal Function



Luminaire outlet

Wire Range:
0.75 - 4.0mm²
(max. 2 x 2.5mm²)



4 x RJ45 ports
For sensor connection

SELV (Low-volt) Direct Current Sensor Options

HBMW38DC/PRO

HBIR38DC

- Max height: 6m
- Max detection range: Ø =9m

HBIR38DC/R

- Max height: 6m
- Max detection range: Ø =10m

HBIR38DC/W

- Max height: 6m
- Max detection range: Ø =18m

HBIR13DC/S

- Surface Mount

HBIR13DC/F

- Flush Mount

HBIR13DC/C

- Conduit

HBIR13DC/AA

- Adjustable Angle

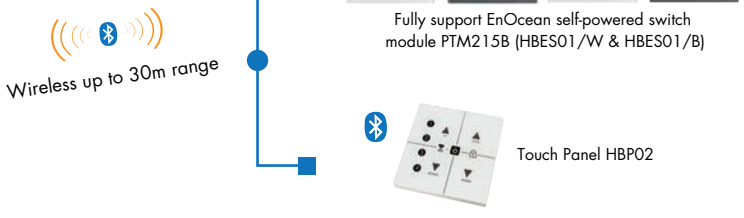
Optional
Surface Mount
Box HA07

What's so Helpful about SCB01/BLE Bluetooth "Intelligent" Control ?

1. User enjoys the full set of powerful Bluetooth features (see page 05-11 for details).

2. Traditional way to extend number of luminaire outlets requires hard-wiring from one box to another. Now thanks to the Bluetooth mesh network, SCB01/BLE can be easily extended to another SCB01/BLE wirelessly!

3. SCB01 can be wirelessly controlled by an EnOcean Bluetooth self-powered switch or Hytronik's Bluetooth touch panel HBP02.



4. Channel Grouping. Simple tick-box channels to group luminaire channels together!

NEW!

SCB02/BLE

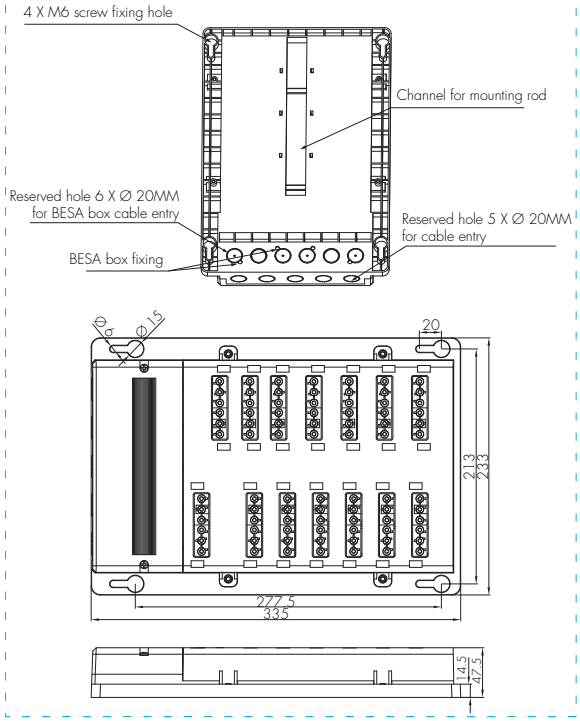
Key Features

- Dimmable & Switching applications
- Dual-circuit design for applications with both essential & non-essential supplies
- Intelligent control with Bluetooth 5.0 SIG mesh module built in
- Detailed Bluetooth system features can be viewed on page 05-11
- Luminaire outlet: GST type 6-pole terminal base (L', N, E, Em, Dim+, Dim-)
- 4 Low-volt SELV RJ45 sensors ports (can be daisy chained)
- 4 SELV switch inputs
- Support VFC (volt-free contact) & 2 ELT switches
- Support up to 8 luminaire channels (via app)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another SCB01/BLE wirelessly!
- Rating of system - - - Max. 100mA DALI power supply & 400VA capacitive & 800W resistive (each outlet/socket).
- Flame-retardant material for safety protection

Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

Dimensions (mm)

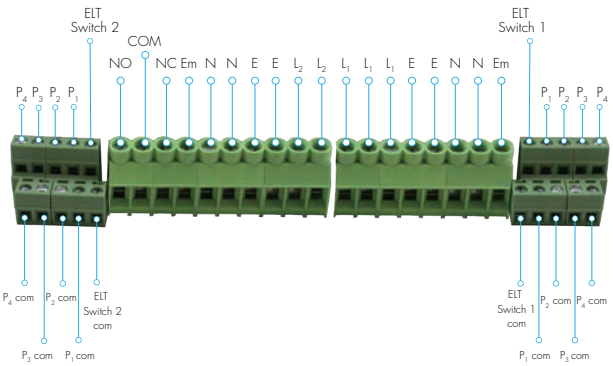


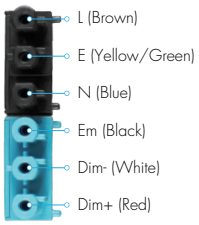
* White color housing by default. Black color housing can be supplied upon request.

Ordering data

Model name	Description
SCB02/BLE	Dual-circuit design for applciations with both essential & non-essential supplies. Designed for low-volt (SELV) applcaitions with SELV sensor connection and SELV PUSH/retractive switch. GST type 6-pole terminal base quick connection box for dimming (DALI-2) & switching application, 14 luminaire outlets, 4 SELV RJ45 sensor outlets and 4 SELV switch inputs. Support up to 8 luminaire channels via app, and an extra channel for VFC (volt-free contact) and two extra channel for ELT switches.

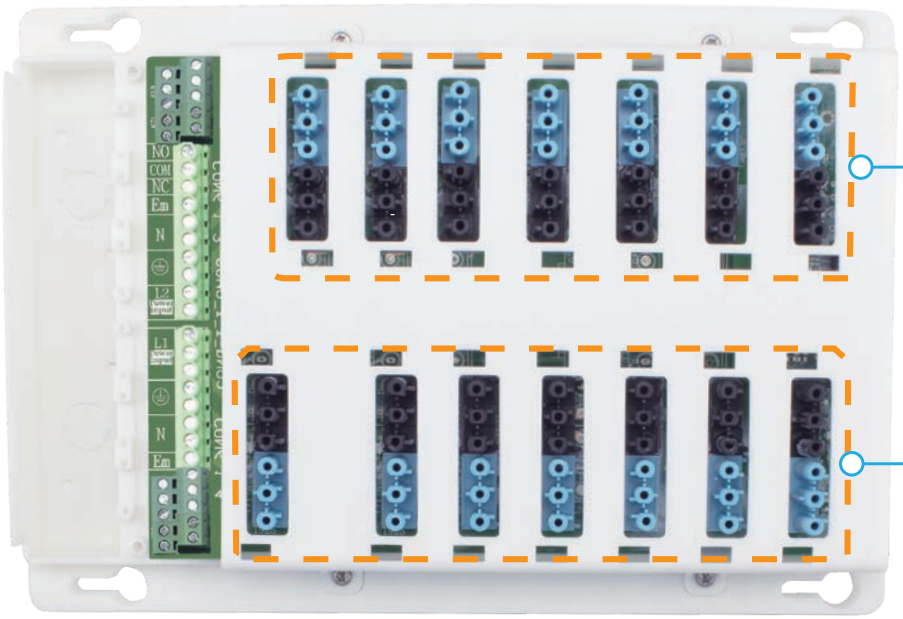
Input & Output Terminal Function





Luminaire outlet

Wire Range:
0.75 - 4.0mm²
(max. 2 x 2.5mm²)



4 x RJ45 ports
For sensor connection

SELV (Low-volt) Direct Current Sensor Options

HBMW38DC/PRO

HBIR38DC
- Max height: 6m
- Max detection range: Ø =9m

HBIR38DC/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR38DC/W
- Max height: 6m
- Max detection range: Ø =18m

HBIR13DC/S
- Surface Mount

HBIR13DC/F
- Flush Mount

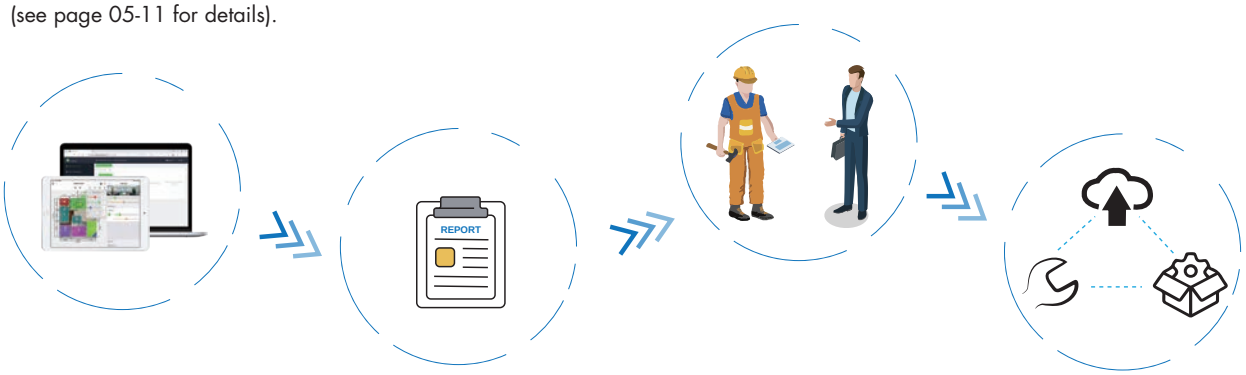
HBIR13DC/C
- Conduit

HBIR13DC/AA
- Adjustable Angle

Optional
Surface Mount
Box HA07

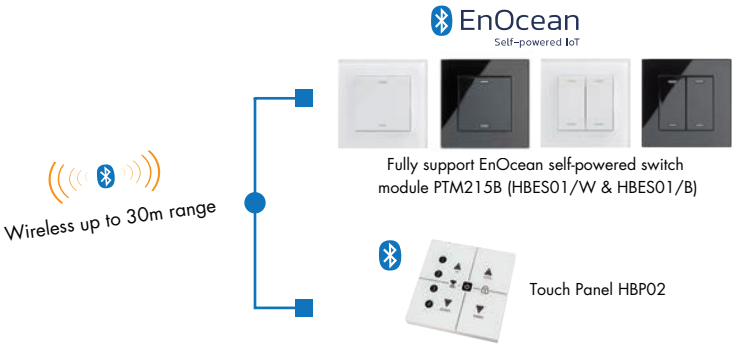
What's so Helpful about SCB02/BLE Bluetooth "Intelligent" Control ?

1. User enjoys the full set of powerful Bluetooth features (see page 05-11 for details).



2. Traditional way to extend number of luminaire outlets requires hard-wiring from one box to another. Now thanks to the Bluetooth mesh network, SCB02/BLE can be easily extended to another SCB02/BLE wirelessly!

3. SCB02/BLE can be wirelessly controlled by an EnOcean Bluetooth self-powered switch or Hytronik's Bluetooth touch panel HBP02.



4. Channel Grouping. Simple tick-box channels to group luminaire channels together!

NEW!
SCB03

* White color housing by default. Black color housing can be supplied upon request.

Key Features

- Dimmable control applications (DALI-2 or 0/1-10V)
- Dual-circuit design for applications with both essential & non-essential supplies
- 12 luminaire outlets + 2 extra sensor outlet for sensor connection
- Luminaire outlet: GST type 6-pole terminal base (L' or L, N, E, Em, Dim+, Dim-)
- Sensor outlet: GST type 8-pole terminal base (L, N, E, L', P1, P2, Dim-, Dim+)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB03 via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

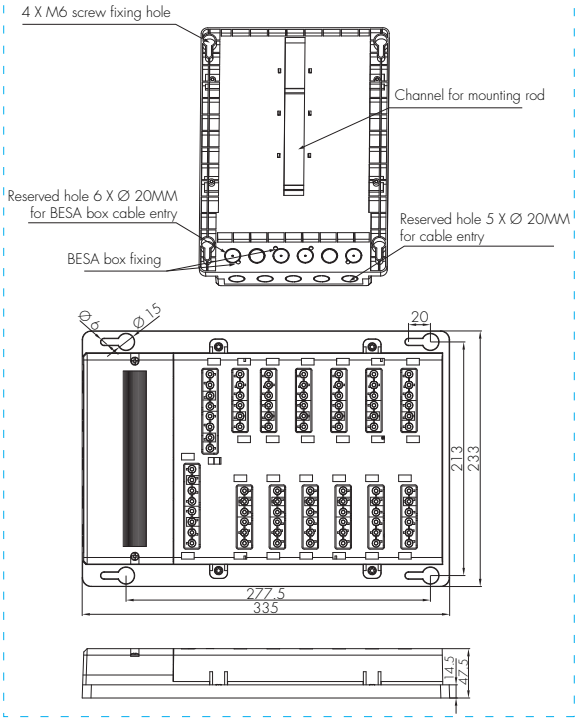
Ordering data

Model name	Description
SCB03	Dual-circuit design for applciations with both essential & non-essential supplies. GST type 6-pole terminal base quick connection box for dimming application, with DALI or 0/1-10V output, 12 luminaire outlets and 2 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

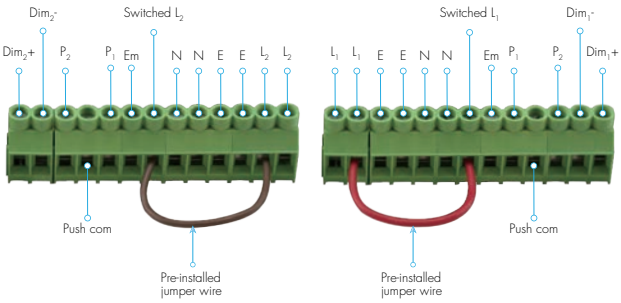
Your Benefits

- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

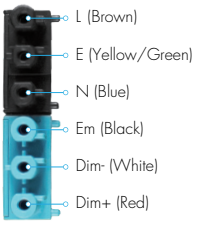
Dimensions (mm)



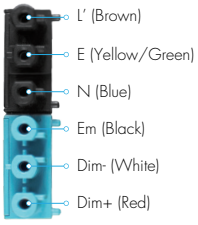
Input & Output Terminal Function



Wire Range: 0.75 - 4.0mm² (max. 2 x 2.5mm²)

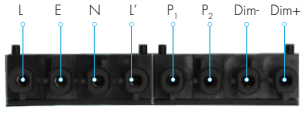


When using DALI dimming

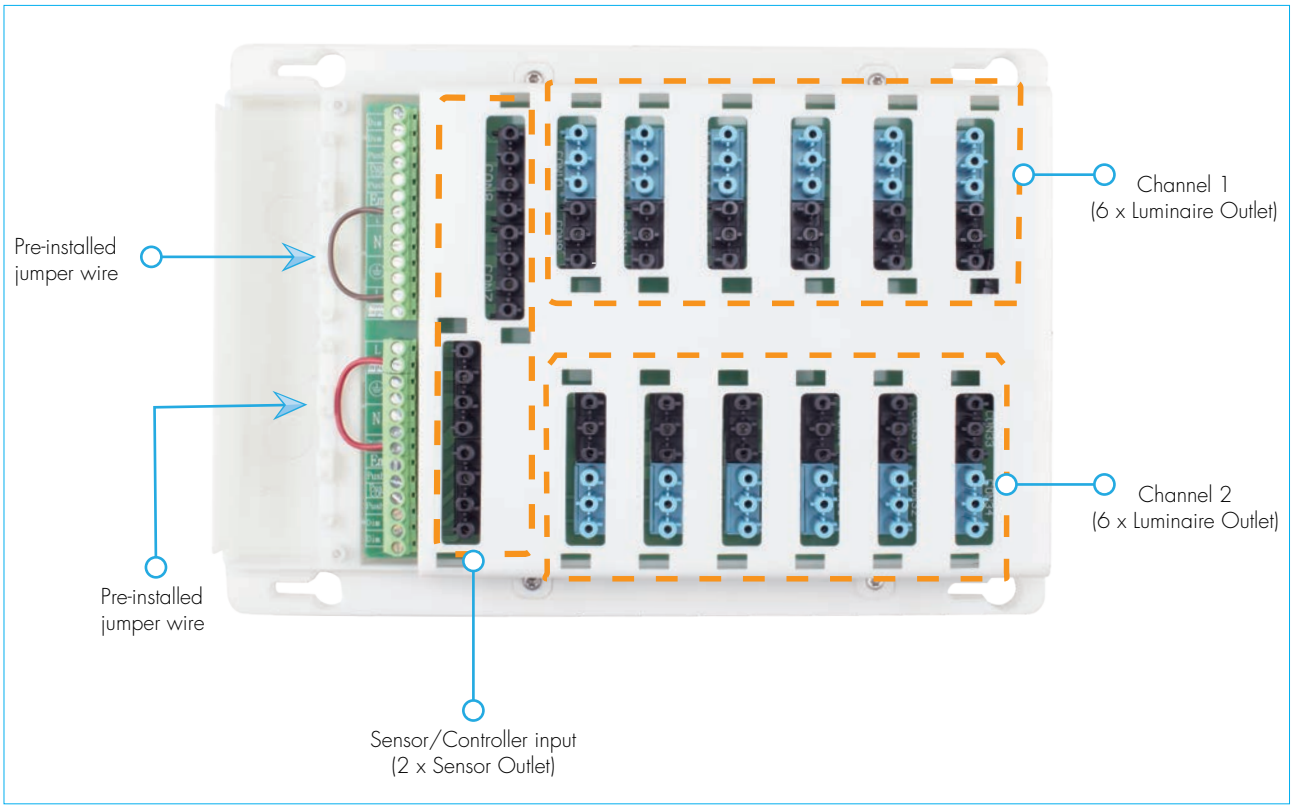


When using on/off switching or 0/1-10V dimming

Luminaire outlet



Sensor outlet



Factory default for SCB03 comes with 2 pre-installed jumper wires. The brown wire short-connects Switched L1 and L1 together, the red jumper wire short-connects Switched L2 and L2 together. With these jumper wires, user can freely choose different dimming control method and also freely switch between DALI control and 0/1-10V control.

1) two-channel (2 x 6) dual DALI dimming – – – keep both jumper wires.
2) two-channel (2 x 6) dual 0/1-10V dimming – – – remove both jumper wires.
3) two-channel (2 x 6) with Sensor 1 using DALI dimming, and Sensor 2 using On/Off or 0/1-10V dimming – – – remove red wire, keep brown wire.
4) two-channel (2 x 6) Sensor 1 using On/Off or 0/1-10V dimming, and Sensor 2 using DALI dimming – – – remove brown wire, keep red wire.

This flexible design aims to reduce model inventories for users, and just one box is capable enough to handle different dimming requirements on the project site. Easy for management, and powerful for usage!

Ceiling Rose

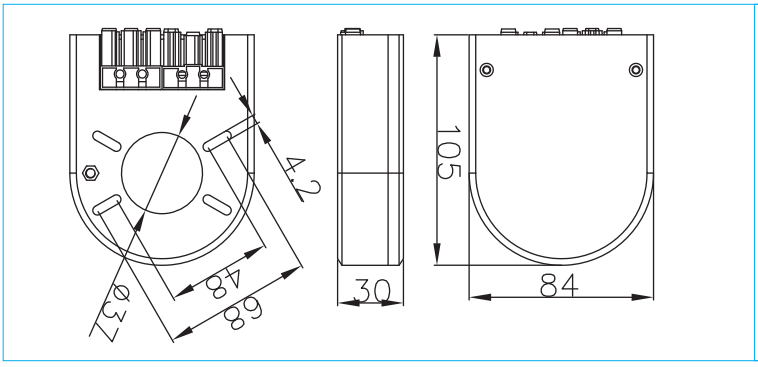
Ceiling rose QCCR02 can be used when there is a need to take power and dimming signal from a conduit box. The installation-friendly design comes with a very spacious termination space for really easy wirings.

Key Features:

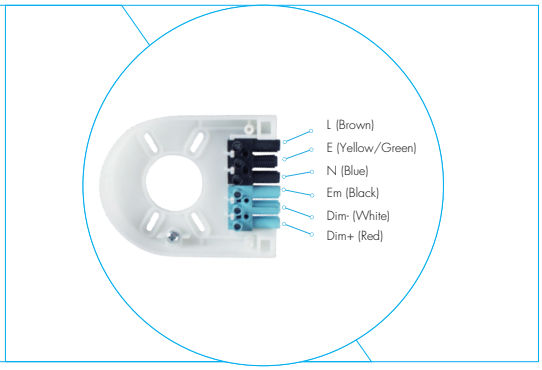
- Can be freely placed or fixed with BESA/junction box
- Taking power from BESA/junction box
- 6-pole GST type connector (L, E, N, Em, Dim+, Dim-)
- Allowing fast connection with Hytronik quick connection box
- 15mm depth big cabling space
- 48-68mm pitch for conduit mounting
- Nominal current max.16A
- Flame-retardant material for safety protection

*QCCR02 is supplied with white color housing by default. Black color housing can be supplied upon request.

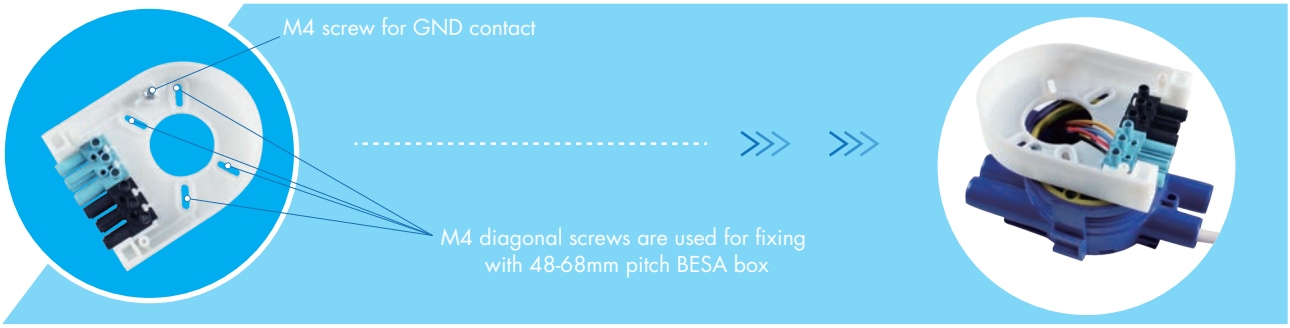
Mechanical Structure & Dimensions



Input & Output Terminal Function



Secure QCCR02 with BESA/Junction box



Connection to Hytronik's QCBs

Power-supply Cable & Plug for Luminaires/QCBs

Hytronik provides pre-assembled cable & plug. All cables are halogen free, low smoke emission and are factory connected.

HP02/5B3M/100

- HP02 — Hytronik Plug
- Series number: 02: 5-pole Wago; 03: 6-pole GST type
- 5B — Number of cores
- 3M — Length: 3m
- Color: W: White; B: Black; R: Red
- 100 — Core size: 1mm²

Order Code:	Picture:	Description:	Page:
HP02/5B3M/150/LINECT		Wago 5-pole male & female connection, (Female-to-male extension) Black, 5-core, 3m cable length, Core size 1.5mm²	271
HP02/5B5M/150/LINECT		Wago 5-pole male & female connection, (Female-to-male extension) Black, 5-core, 5m cable length, Core size 1.5mm²	271
HP02/B		Wago 5-pole male connection with loose/free end, Black color plug only, without cable	272
HP02/5B3M/100		Wago 5-pole male connection with loose/free end, Black, 5-core, 3m cable length, Core size 1.0mm²	272
HP02/5B3M/150		Wago 5-pole male connection with loose/free end, Black, 5-core, 3m cable length, Core size 1.5mm²	272
HP02/5B5M/100		Wago 5-pole male connection with loose/free end, Black, 5-core, 5m cable length, Core size 1.0mm²	272
HP02/5B5M/150		Wago 5-pole male connection with loose/free end, Black, 5-core, 5m cable length, Core size 1.5mm²	272
HP03/W		GST type 5-pole male connection with loose/free end, White color plug only, without cable	272
HP03/5W3M/100		GST type 5-pole male connection with loose/free end, White, 5-core, 3m cable length, Core size 1.0mm²	272
HP03/5W3M/150		GST type 5-pole male connection with loose/free end, White, 5-core, 3m cable length, Core size 1.5mm²	272
HP03/5W5M/100		GST type 5-pole male connection with loose/free end, White, 5-core, 5m cable length, Core size 1.0mm²	272
HP03/5W5M/150		GST type 5-pole male connection with loose/free end, White, 5-core, 5m cable length, Core size 1.5mm²	272
HP03/B		GST type 5-pole male connection with loose/free end, Black color plug only, without cable	273
HP03/5B3M/100		GST type 5-pole male connection with loose/free end, Black, 5-core, 3m cable length, Core size 1.0mm²	273
HP03/5B3M/150		GST type 5-pole male connection with loose/free end, Black, 5-core, 3m cable length, Core size 1.5mm²	273
HP03/5B5M/100		GST type 5-pole male connection with loose/free end, Black, 5-core, 5m cable length, Core size 1.0mm²	273
HP03/5B5M/150		GST type 5-pole male connection with loose/free end, Black, 5-core, 5m cable length, Core size 1.5mm²	273
HP03/R		GST type 6-pole male connection with loose/free end, Red color plug only, without cable	273
HP03/6R3M/100		GST type 6-pole male connection with loose/free end, Emergency, Red, 6-core, 3m cable length, Core size 1.0mm²	273
HP03/6R3M/150		GST type 6-pole male connection with loose/free end, Emergency, Red, 6-core, 3m cable length, Core size 1.5mm²	273
HP03/6R5M/100		GST type 6-pole male connection with loose/free end, Emergency, Red, 6-core, 5m cable length, Core size 1.0mm²	273
HP03/6R5M/150		GST type 6-pole male connection with loose/free end, Emergency, Red, 6-core, 5m cable length, Core size 1.5mm²	273

Order Code: HP02/5B3M/150/LINECT

3m cable length, 1.5mm² core size

Order Code: HP02/5B5M/150/LINECT

5m cable length, 1.5mm² core size

Description >>>

- For use with QCB02/BLE series and QCB02
- Female-to-male extension
- Connecting to linect connection system
- Wago 5-pole male & female connection
- 5-core (L, E, N, Dim+, Dim-)
  (Brown, Yellow/Green, Blue, Red, White)
- Black color plug & Black color cable

Order Code: HP02/B

Black color plug only, without cable

Order Code: HP02/5B3M/100

3m cable length, 1.0mm² core size

Order Code: HP02/5B3M/150

3m cable length, 1.5mm² core size

Order Code: HP02/5B5M/100

5m cable length, 1.0mm² core size

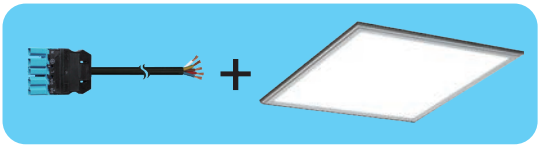
Order Code: HP02/5B5M/150

5m cable length, 1.5mm² core size

Description >>>

- For use with QCB02/BLE series and QCB02
- Can be used as:
  - – Power supply to standard luminaire
  - – Power supply to extend one QCB to another QCB
- Wago 5-pole male connection with loose/free end
- 5-core (L, E, N, Dim+, Dim-) (Brown, Yellow/Green, Blue, Red, White)
- Black color plug & Black color cable

1 Can be supplied alone, so that user can connect to a stanndard luminaire.



2 Can be supplied with pre-wired QCB models (applicable model: QCB02/BLE series and QCB02), so that user can extend one QCB to another QCB.

Order code: QCB model + cable & plug
e.g. QCB02 + HP02/5B3M/100

+

Extend to another QCB

QCB02

Order Code: HP03/W

White color plug only, without cable

Order Code: HP03/5W3M/100

3m cable length, 1.0mm² core size

Order Code: HP03/5W3M/150

3m cable length, 1.5mm² core size

Order Code: HP03/5W5M/100

5m cable length, 1.0mm² core size

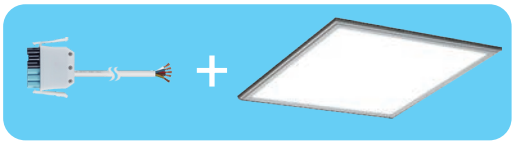
Order Code: HP03/5W5M/150

5m cable length, 1.5mm² core size

Description >>>

- For use with QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03.
- Can be used as:
  - – Power supply to standard luminaire
  - – Power supply to QCBs via ceiling rose QCCR02
  - – Power supply to extend one QCB to another QCB
- GST type 6-pole male connection with loose/free end
- 5-core (L, E, N, Dim+, Dim-) (Brown, Yellow/Green, Blue, Red, White)
- White color plug & White color cable

1 Can be supplied alone, so that user can connect to a standard luminaire.



2 Can be supplied with pre-wired QCB/SCB models (applicable model: QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03), so that user can connect to ceiling rose QCCR02, or extend one QCB/SCB to another QCB/SCB.

Order code: QCB/SCB model + cable & plug
e.g. QCB03 + HP03/5W3M/100

Connect to a ceiling rose

+

QCCR02

or

Extend to another QCB/SCB

+

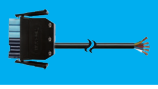
QCB03

Order Code: HP03/B

Black color plug only, without cable

Order Code: HP03/5B3M/100

3m cable length, 1.0mm² core size



Order Code: HP03/5B3M/150

3m cable length, 1.5mm² core size

Order Code: HP03/5B5M/100

5m cable length, 1.0mm² core size

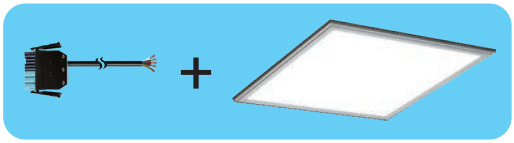
Order Code: HP03/5B5M/150

5m cable length, 1.5mm² core size

Description

- For use with QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03.
- Can be used as:
  - Power supply to standard luminaire
  - Power supply to QCBs via ceiling rose QCCR02
  - Power supply to extend one QCB to another QCB
- GST type 6-pole male connection with loose/free end
- 5-core (L, E, N, Dim+, Dim-) (Brown, Yellow/Green, Blue, Red, White)
- Black color plug & Black color cable

1. Can be supplied alone, so that user can connect to a standard luminaire.



2. Can be supplied with pre-wired QCB/SCB models (applicable model: QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03), so that user can connect to ceiling rose QCCR02, or extend one QCB/SCB to another QCB/SCB.

Order code: QCB/SCB model + cable & plug
e.g. QCB03 + HP03/5B3M/100

Connect to a ceiling rose +

QCCR02

or

Extend to another QCB/SCB +

QCB03

Order Code: HP03/R

Red color plug only, without cable

Order Code: HP03/6R3M/100

3m cable length, 1.0mm² core size

Order Code: HP03/6R3M/150

3m cable length, 1.5mm² core size

Order Code: HP03/6R5M/100

5m cable length, 1.0mm² core size

Order Code: HP03/6R5M/150

5m cable length, 1.5mm² core size

Description

- For use with QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03.
- Can be used as:
  - Power supply to emergency luminaire
  - Power supply to QCBs via ceiling rose QCCR02
  - Power supply to extend one QCB to another QCB
- GST type 6-pole male connection with loose/free end
- 6-core (L, E, N, EM, Dim+, Dim-) (Brown, Yellow/Green, Blue, Black, Red, White)
- Red color plug & White color cable

1. Can be supplied alone, so that user can connect to an emergency luminaire.

2. Can be supplied with pre-wired QCB/SCB models (applicable model: QCB03/BLE series, QCB03, QCB03/ECO, SCB01/BLE, SCB02/BLE and SCB03), so that user can connect to ceiling rose QCCR02, or extend one QCB/SCB to another QCB/SCB.

Order code: QCB/SCB model + cable & plug
e.g. QCB03 + HP03/6R3M/100

Connect to a ceiling rose +

QCCR02

or

Extend to another QCB/SCB +

QCB03

NEW!

HBMW29/PRO

Bluetooth + Presence Detection HF sensor with DALI-2 control

HBMW29/PRO

See pg. 137 for full details & specs information

Order code	Picture	Description
HBMW29/PRO+ HP05/1X1		1pc HBMW29/PRO delivered with pre-installed sensor plug (for use with QCB02)
HBMW29/PRO+ HP06/2X1		1pc HBMW29/PRO delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB model e.g. HBMW29/PRO+ QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) e.g. HBMW29/PRO delivered with pre-installed QCB03

Please note: The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBMW29/PRO/TY

tuya Bluetooth (Tuya) + Presence Detection HF sensor with DALI-2 control

HBMW29/PRO/TY

See pg. 147 for full details & specs information

Order code	Picture	Description
HBMW29/PRO/TY+ HP05/2X1		1pc HBMW29/PRO/TY delivered with pre-installed sensor plug (for use with QCB02)
HBMW29/PRO/TY+ HP06/2X1		1pc HBMW29/PRO/TY delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB model e.g. HBMW29/PRO/TY+ QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) e.g. HBMW29/PRO/TY delivered with pre-installed QCB03

Please note: The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBMW25/PRO

Bluetooth + Presence Detection HF sensor with Dual-channel DALI-2 control

HBMW25/PRO

See pg. 138 for full details & specs information

Order code	Picture	Description
HBMW25/PRO+ HP05/2X1		1pc HBMW25/PRO delivered with pre-installed sensor plug (for use with QCB02)
Sensor + QCB model e.g. HBMW25/PRO+ QCB03		(applicable QCB model: QCB02, QCB03) e.g. HBMW25/PRO delivered with pre-installed QCB03.

Please note: The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBIR29/2CH series

Bluetooth + PIR sensor with Dual-channel DALI-2 & relay control

HBIR29/2CH
- Max height: 6m
- Max detection range: Ø =9m

HBIR29/2CH/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR29/2CH/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 141 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HBIR29/2CH+HP06/2X1	(applicable sensor model: HBIR29/2CH, HBIR29/2CH/R, HBIR29/2CH/W) eg. 1pc HBIR29/2CH delivered with pre-installed sensor plug (for use with QCB03)

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HBIR29 series

Bluetooth + PIR sensor with DALI-2 control

HBIR29	HBIR29/R	HBIR29/W
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m

See pg. 140 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HBIR29+HP05/2X1	(applicable sensor model: HBIR29, HBIR29/R, HBIR29/W) e.g. 1pc HBIR29 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP05/2X1 e.g. HBIR29+HP06/2X1	(applicable sensor model: HBIR29, HBIR29/R, HBIR29/W) e.g. 1pc HBIR29 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HBIR29+QCB03	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HBIR29, HBIR29/R, HBIR29/W) e.g. HBIR29 delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBIR29/CA series

Bluetooth (Casambi) + PIR sensor with DALI-2 control

HBIR29/CA	HBIR29/CA/R	HBIR29/CA/W
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m

See pg. 149 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HBIR29/CA+HP05/2X1	(applicable sensor model: HBIR29/CA, HBIR29/CA/R, HBIR29/CA/W) e.g. 1pc HBIR29/CA delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HBIR29/CA+HP06/2X1	(applicable sensor model: HBIR29/CA, HBIR29/CA/R, HBIR29/CA/W) e.g. 1pc HBIR29/CA delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HBIR29/CA+QCB03	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HBIR29/CA, HBIR29/CA/R, HBIR29/CA/W) e.g. HBIR29/CA delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HBIR31 series

Bluetooth + PIR sensor with DALI-2 control

HBIR31	HBIR31/R	HBIR31/W
• Max height: 6m • Max detection range: Ø =9m	• Max height: 6m • Max detection range: Ø =10m	• Max height: 6m • Max detection range: Ø =18m

See pg. 140 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HBIR31+HP05/2X1	(applicable sensor model: HBIR31, HBIR31/R, HBIR31/W) e.g. 1pc HBIR31 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HBIR31+HP06/2X1	(applicable sensor model: HBIR31, HBIR31/R, HBIR31/W) e.g. 1pc HBIR31 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HBIR31+QCB03	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HBIR31, HBIR31/R, HBIR31/W) e.g. HBIR31 delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HBHC25 series

Bluetooth + PIR sensor with Dual-channel DALI-2 control

HBHC25
- Max height: 6m
- Max detection range: Ø =9m

HBHC25/R
- Max height: 6m
- Max detection range: Ø =10m

HBHC25/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 142 for full details & specs information

Order code/Picture	Description
Sensor +HP05/2X1 e.g. HBHC25+HP05/2X1 	(applicable sensor model: HBHC25, HBHC25/R, HBHC25/W) e.g. 1pc HBHC25 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + QCB/SCB model e.g. HBHC25+QCB03 	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HBHC25, HBHC25/R, HBHC25/W) e.g. HBHC25 delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HBIR32 series

Bluetooth + PIR sensor with Dual-channel DALI-2 control

HBIR32
- Max height: 6m
- Max detection range: Ø =9m

HBIR32/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR32/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 142 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HBIR32+HP05/2X1 	(applicable sensor model: HBIR32, HBIR32/R, HBIR32/W) e.g. 1pc HBIR32 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + QCB/SCB model e.g. HBIR32+QCB03 	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HBIR32, HBIR32/R, HBIR32/W) e.g. HBIR32 delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HBMW38DC/PRO

Bluetooth + Presence Detection DC SELV HF Sensor for SCB01/BLE & SCB02/BLE

HBMW38DC/PRO

- 12-24VDC input
- Microwave (HF) detection
- True presence detection technology
- Bluetooth® 5.0 SIG Mesh
- RJ45 connection for use with SCB01/BLE and SCB02/BLE
- Robust HF antenna design against wireless interference
- Daylight sensor: photocell
- Max installation height: 3m
- Max detection range: Ø =8m (diameter)
- Max true presence detection range: Ø =8m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- Optional IP20/IP65 ceiling mount box accessory HA03
- Tool-free installation: removable terminal blocks and clips

* Full Bluetooth features can be seen on page 03-09

Order code/Picture	Description
Sensor + SCB model e.g. HBMW38DC/PRO + SCB01/BLE 	(applicable SCB model: SCB01/BLE, SCB02/BLE) e.g. HBMW38DC/PRO delivered with pre-installed SCB01/BLE

Please note: 1. Optional sensor accessories can be purchased upon request
2. The RJ45 cable is not supplied in the package. User needs to purchase the RJ45 cable on his own.

NEW!

HBIR38DC series

Bluetooth + DC SELV PIR Sensor for SCB01/BLE & SCB02/BLE

HBIR38DC
- Max height: 6m
- Max detection range: Ø =9m

HBIR38DC/R
- Max height: 6m
- Max detection range: Ø =10m

HBIR38DC/W
- Max height: 6m
- Max detection range: Ø =18m

- 12-24VDC input
- Passive infrared (PIR) detection
- Bluetooth® 5.0 SIG Mesh
- RJ45 connection for use with SCB01/BLE and SCB02/BLE
- Daylight sensor: photocell
- Sensor settings via mobile/tablet app & PC web platform
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory
- Tool-free installation: removable terminal blocks and clips

* Full Bluetooth features can be seen on page 03-09

Order code	Picture	Description
Sensor + SCB model e.g. HBIR38DC + SCB01/BLE		(applicable SCB model: SCB01/BLE, SCB02/BLE) e.g. HBIR38DC delivered with pre-installed SCB01/BLE

Please note: 1. Optional sensor accessories can be purchased upon request
2. The RJ45 cable is not supplied in the package. User needs to purchase the RJ45 cable on his own.

NEW!

HBIR13DC series

Bluetooth + DC SELV PIR Sensor for SCB01/BLE & SCB02/BLE

HBIR13DC/S
- Surface Mount

HBIR13DC/F
- Flush Mount

HBIR13DC/C
- Conduit

HBIR13DC/AA
- Adjustable Angle

Optional Surface Mount Box HA07

- 12-24VDC input
- Passive infrared (PIR) detection
- Bluetooth® 5.0 SIG Mesh
- RJ45 connection for use with SCB01/BLE and SCB02/BLE
- Daylight sensor: photocell
- Max installation height: 15m (forklift) / 12m (human)
- Max detection range: Ø =24m (diameter)
- Sensor settings via mobile/tablet app & PC web platform
- IP65 (lens/facia part)

* Full Bluetooth features can be seen on page 03-09

Order code	Picture	Description
Sensor + SCB model e.g. HBIR13DC/S + SCB01/BLE		(applicable SCB model: SCB01/BLE, SCB02/BLE) e.g. HBIR13DC/S delivered with pre-installed SCB01/BLE

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HMW27/PRO

Presence Detection HF sensor with DALI-2 control

HMW27/PRO

See pg. 152 for full details & specs information

Order code	Picture	Description
HMW27/PRO+HP05/2X1		1pc HMW27/PRO delivered with pre-installed sensor plug (for use with QCB02)
HMW27/PRO+HP06/2X1		1pc HMW27/PRO delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO, SCB03)
Sensor + QCB model e.g. HMW27/PRO+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) e.g. HMW27/PRO delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

NEW!

HMW21/PRO

Presence Detection HF sensor with 1-10V control

HMW21/PRO

See pg. 151 for full details & specs information

Order code	Picture	Description
HMW21/PRO+HP06/2X1		1pc HMW21/PRO delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO, SCB03)
HMW21/PRO+QCB03		(applicable QCB model: QCB03, QCB03/ECO, SCB03) e.g. HMW21/PRO delivered with pre-installed QCB03.

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIR27 series

PIR sensor with DALI-2 control

HIR27
- Max height: 6m
- Max detection range: Ø =9m

HIR27/R
- Max height: 6m
- Max detection range: Ø =10m

HIR27/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 157 for full details & specs information

Order code/Picture	Description
Sensor + HP05/5X1 e.g. HIR27 + HP05/1X1 	(applicable sensor model: HIR27, HIR27/R, HIR27/W) 1pc HIR27 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HIR27 + HP06/2X1 	(applicable sensor model: HIR27, HIR27/R, HIR27/W) 1pc HIR27 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO, SCB03)
Sensor + QCB model e.g. HIR27+QCB03 	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HIR27, HIR27/R, HIR27/W) e.g. HIR27 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIR32 series

PIR sensor with Dual-channel DALI-2 control

HIR32
- Max height: 6m
- Max detection range: Ø =9m

HIR32/R
- Max height: 6m
- Max detection range: Ø =10m

HIR32/W
- Max height: 6m
- Max detection range: Ø =18m

See pg. 158 for full details & specs information

Order code/Picture	Description
Sensor + HP05/2X1 e.g. HIR32+HP05/2X1 	(applicable sensor model: HIR32, HIR32/R, HIR32/W) 1pc HIR32 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + QCB/SCB model e.g. HIR32+QCB03 	(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HIR32, HIR32/R, HIR32/W) eg. HIR32 series delivered with pre-installed QCB03.

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIM11/HIM12

HIM11: 1-10V + Tri-level Control; HIM12: 1-10V + Daylight Harvest

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

See pg. 168-169 for full details & specs information

Order code	Picture	Description
Sensor + HP06/2X1 e.g. HIM11+HP06/2X1		(applicable sensor model: HIM11, HIM12) 1pc HIM11 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HIM11+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HIM11, HIM12) e.g. HIM11 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIM14/HIM15

HIM14: DALI + Tri-level Control; HIM15: DALI + Daylight Harvest

Optional: Blind Insert/Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

See pg. 169-170 for full details & specs information

Order code	Picture	Description
Sensor + HP05/2X1 e.g. HIM14+HP05/2X1		(applicable sensor model: HIM14, HIM15) 1pc HIM14 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HIM14+HP06/2X1		(applicable sensor model: HIM14, HIM15) 1pc HIM14 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HIM14+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HIM14, HIM15) e.g. HIM14 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HMW11/HMW12

HMW11: 1-10V + Tri-level Control; HMW12: 1-10V + Daylight Harvest

See pg. 161 for full details & specs information

Order code	Picture	Description
Sensor + HP06/2X1 e.g. HMW11+HP06/2X1		(applicable sensor model: HMW11, HMW12) 1pc HMW11 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HMW11+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HMW11, HMW12) e.g. HMW11 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HMW14/HMW15

HMW14: DALI + Tri-level Control; HMW15: DALI + Daylight Harvest

See pg. 162 for full details & specs information

Order code	Picture	Description
Sensor + HP05/2X1 e.g. HMW14+HP05/2X1		(applicable sensor model: HMW14, HMW15) 1pc HMW14 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HMW14+HP06/2X1		(applicable sensor model: HMW14, HMW15) 1pc HMW14 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HMW14+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HMW14, HMW15) e.g. HMW14 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HMW21/HMW22

HMW21: 1-10V + Tri-level Control; HMW22: 1-10V + Daylight Harvest

See pg. 163-164 for full details & specs information

Order code	Picture	Description
Sensor + HP06/2X1 e.g. HMW21+HP06/2X1		(applicable sensor model: HMW21, HMW22) 1pc HMW21 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HMW21+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HMW21, HMW22) e.g. HMW21 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HMW24/HMW25

HMW24: DALI + Tri-level Control; HMW25: DALI + Daylight Harvest

See pg. 164-165 for full details & specs information

Order code	Picture	Description
Sensor + HP05/2X1 e.g. HMW24+HP05/2X1		(applicable sensor model: HMW24, HMW25) 1pc HMW24 delivered with pre-installed sensor plug (for use with QCB02)
Sensor + HP06/2X1 e.g. HMW24+HP06/2X1		(applicable sensor model: HMW24, HMW25) 1pc HMW24 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HMW24+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HMW24, HMW25) e.g. HMW24 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

HIR21/HIR22

HIR21: 1-10V + Tri-level Control; HIR22: 1-10V + Daylight Harvest

Optional Surface Mount Box

HA02: Default IP20; IP65 is optional upon request

Optional Blanking Plate

Blind option 1
(Aisle detection)

Blind option 2
(180° detection)

See pg. 159 for full details & specs information

Order code	Picture	Description
Sensor + HP06/2X1 e.g. HIR21+HP06/2X1		(applicable sensor model: HIR21, HIR22) 1pc HIR21 delivered with pre-installed sensor plug (for use with QCB03, QCB03/ECO and SCB03)
Sensor + QCB/SCB model e.g. HIR21+QCB03		(applicable QCB model: QCB02, QCB03, QCB03/ECO, SCB03) (applicable sensor model: HIR21, HIR22) e.g. HIR21 series delivered with pre-installed QCB03

Please note: 1. Optional sensor accessories can be purchased upon request
2. The length of cable is 3m by default. 5m cable length can be supplied upon request

Dimmers & Controllers & Switches

Overview: Dimmers/Cotrollers/Switches for Projects (built-in junction box)

	Input	Output	Bluetooth 5.0 SIG Mesh	Push Switch	Sensor-link	Page
HBTD8200S	220~240Vac	On/off 400VA/800W	√	√	√	287
NEW! HBTD8200VFC	220~240Vac	On/off + Volt-free Dry contact 24VDC⩽2A, 250VAC⩽4A	√	√	√	287
HBTD8200D	220~240Vac	DALI Max. 100mA	√	√	√	287
HBTD8200V	220~240Vac	0/1-10V 400VA/800W	√	√	√	287
HBTD8200T	230Vac	Trailing Edge 150VA/150W	√	√	√	287
HBTD8200T2	230Vac	Trailing Edge 2x100VA 2x150W	√	√	√	288
NEW! HBTD8200P	220~240Vac		√	√ (SLEV switch)		288
NEW! HBTD8200PDC	12Vdc		√	√ (SLEV switch)		288
NEW! HBTD8200D/CA	220~240Vac	DALI Max. 100mA	√ (Casambi)	√	√	288
NEW! HBTD8200D/TY	220~240Vac	DALI Max. 100mA	√ (Tuya)			288
HD2200	230Vac	Convert Trailing edge to Switch-Dim 150W/200W		√		289

Overview: Dimmers/Cotrollers/Switches for Projects (built-in junction box)

	Input	Output	Bluetooth 5.0 SIG Mesh	Push Switch	Sensor-link	Page
HDD2200	220~240Vac	Convert DALI to trailing edge 200VA/200W				289
HDS2400	220~240Vac	Convert DALI to On/Off 400VA/800W				280
NEW! HD8200V	220~240Vac	Convert Push to 0/1-10V 400VA/800W		√		289
NEW! HDD8200	220~240Vac	Convert Push to DALI Max. 100mA		√		289

Overview: Dimming/Switching Modules for OEMs (built-in luminaire)

	Input	Output	Bluetooth 5.0 SIG Mesh	Push Switch	Sensor-link	Page
HBTD8200S/F	220~240Vac	On/off 400VA/800W	√	√	√	290
NEW! HBTD8200VFC/F	220~240Vac	On/off + Volt-free Dry contact 24VDC⩽2A, 250VAC⩽4A	√	√	√	290
HBTD8200D/F	220~240Vac	DALI Max. 100mA	√	√	√	290
HBTD8200V/F	220~240Vac	0/1-10V 400VA/800W	√	√	√	290
HBTD8200T/F	230Vac	Trailing Edge 150VA/150W	√	√	√	290
NEW! HBTD8200D/TY/F	220~240Vac	DALI Max. 100mA	√ (Tuya)	√	√	291
NEW! HBTD8200D/F/CA	220~240Vac	DALI Max. 100mA	√ (Casambi)	√	√	291
HBTD9200S/F	120~277Vac	On/off 400VA/800W	√	√	√	291
HBTD9200V/F	120~277Vac	0/1-10V 400VA/800W	√	√	√	291
HBTD9200VFC/F	120~277Vac	On/off + Volt-free Dry contact 24VDC⩽2A, 250VAC⩽4A	√	√	√	291

HBTD8200S & HBTD8200VFC & HBTD8200D & HBTD8200V & HBTD8200T

HBTD8200S

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- On/Off switch with relay output
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBTD8200VFC

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 24VDC≤2A, 250VAC≤4A
- VFC: Volt-free Contact / Dry Contact
- On/Off control with relay output
- Module settings via mobile/tablet app & PC web platform

HBTD8200D

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- DALI-2 dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200V

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- 0/1-10V dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200T

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 230V, 50Hz
- Output (Max Loading): 150VA capacitive / 150W resistive
- Trailing edge dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200T2

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 230V, 50Hz
- Output (Max Loading): 2x100VA capacitive / 2x150W resistive
- Dual trailing edge dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBTD8200P

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 220-240VAC, 50/60Hz
- SELV switch input module
- Module settings via mobile/tablet app & PC web platform
- 4 SELV switch input terminals

NEW!

HBTD8200PDC

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Bluetooth® 5.0 SIG Mesh
- Designed for junction box / electrical box installation
- Input: 12VDC
- SELV switch input module
- Module settings via mobile/tablet app & PC web platform
- 4 SELV switch input terminals

NEW!

HBTD8200D/CA

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Casambi Bluetooth® module built-in
- Designed for junction box / electrical box installation
- DALI dimmer & controller
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBTD8200D/TY

Suitable for

Commercial Lighting | Retrofit Upgrade | Domestic Lighting

- Tuya Bluetooth® module built-in
- Designed for junction box / electrical box installation
- DALI dimmer & controller
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HD2200 & HDD2200 & HDS2400 & HD8200V & HDD8200

HD2200

Suitable for

Commercial Lighting | Domestic Lighting

- Trailing edge dimmer & controller
- Designed for junction box / electrical box installation
- Input: 230V, 50Hz
- Output (Max Loading): 150W capacitive / 200W resistive
- Switch-Dim (PUSH) terminal
- Switch-Dim (PUSH) to trailing edge converter
- Adjustable minimum brightness level

HDD2200

Suitable for

Commercial Lighting | Domestic Lighting

- Trailing edge dimmer & controller
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 200VA capacitive / 200W resistive
- DALI to trailing edge converter
- DALI Addressable
- Optional terminal-caps

HDS2400

Suitable for

Commercial Lighting | Domestic Lighting

- On/Off switch & controller
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- DALI to On/Off converter
- DALI Addressable
- Optional terminal-caps

NEW!

HD8200V

Suitable for

Commercial Lighting | Domestic Lighting

- 0/1-10V dimmer & controller
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VAcapacitive / 800W resistive
- 2 Switch-Dim (PUSH) terminals
- Switch-Dim (PUSH) to 1-10V converter

NEW!

HDD8200

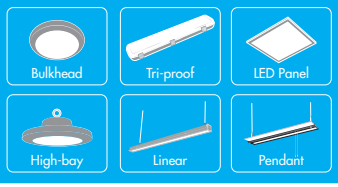
Suitable for

Commercial Lighting | Domestic Lighting

- DALI broadcast dimmer & controller
- Designed for junction box / electrical box installation
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- 2 Switch-Dim (PUSH) terminals
- Switch-Dim (PUSH) to DALI converter

HBTD8200S/F

Suitable for

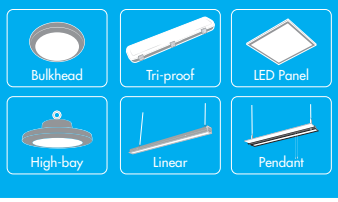


- Bluetooth® 5.0 SIG Mesh
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- On/Off switch with relay output
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBTD8200VFC/F

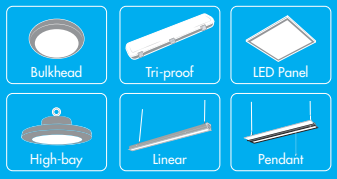
Suitable for



- Bluetooth® 5.0 SIG Mesh
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 24VDC≤2A, 250VAC≤4A
- VFC: Volt-free Contact / Dry Contact
- On/Off control with relay output
- Module settings via mobile/tablet app & PC web platform

HBTD8200D/F

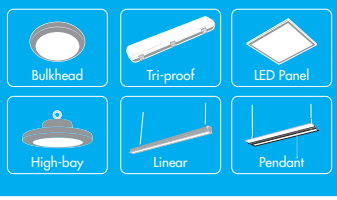
Suitable for



- Bluetooth® 5.0 SIG Mesh
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- DALI-2 dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200V/F

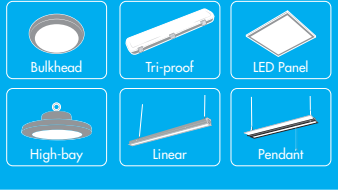
Suitable for



- Bluetooth® 5.0 SIG Mesh
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- 0/1-10V dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200T/F

Suitable for



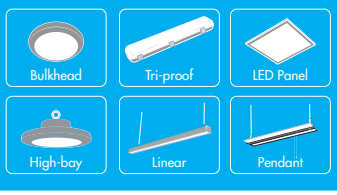
- Bluetooth® 5.0 SIG Mesh
- Input: 230V, 50Hz
- Output (Max Loading): 150VA capacitive / 150W resistive
- Trailing edge dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD8200D/F/CA & HBTD8200D/TY/F & HBTD9200S/F & HBTD9200V/F & HBTD9200VFC/F

NEW!

HBTD8200D/TY/F

Suitable for

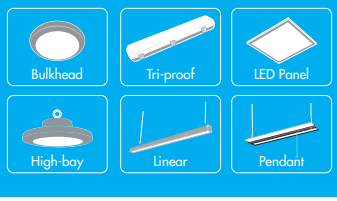


- Tuya Bluetooth® module built-in
- DALI dimmer & controller
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBTD8200D/F/CA

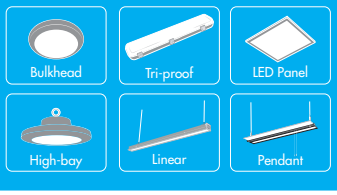
Suitable for



- Casambi Bluetooth® module built-in
- DALI dimmer & controller
- Input: 220V-240VAC, 50/60Hz
- Output (Max Loading): 100mA DALI power supply
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD9200S/F

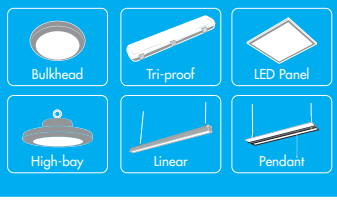
Suitable for



- Bluetooth® 5.0 SIG Mesh
- Input: 120-277VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- On/Off switch with relay output
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

HBTD9200V/F

Suitable for

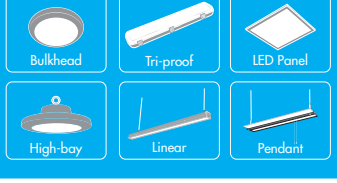


- Bluetooth® 5.0 SIG Mesh
- Input: 120-277VAC, 50/60Hz
- Output (Max Loading): 400VA capacitive / 800W resistive
- 0/1-10V dimmer & controller
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

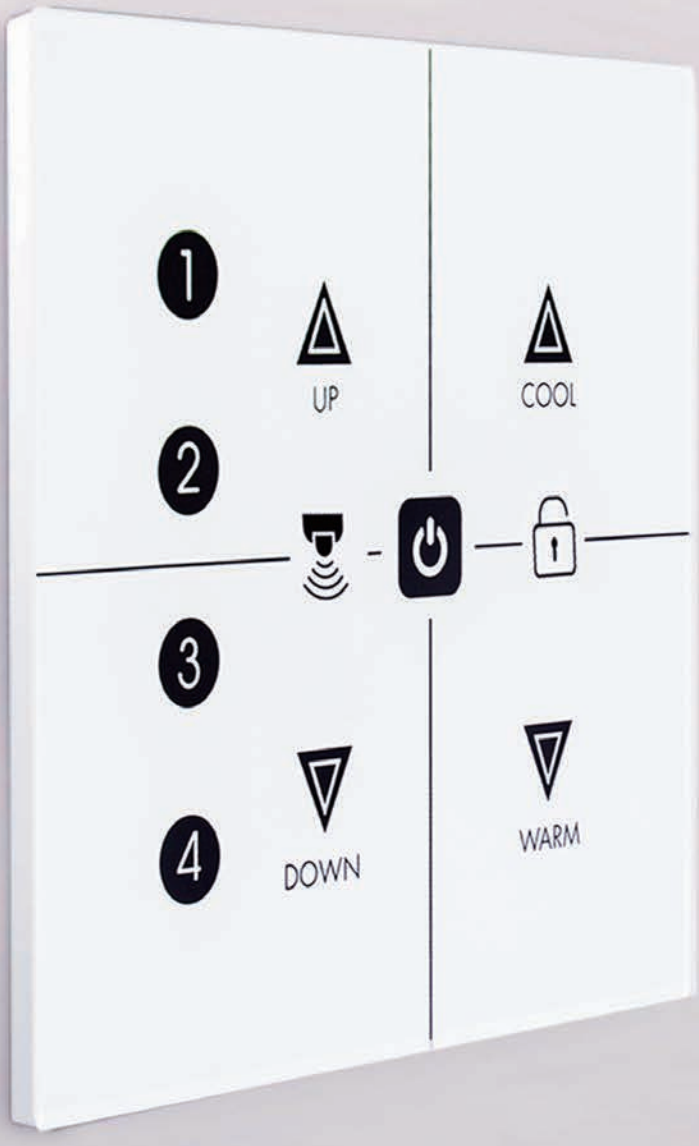
HBTD9200VFC/F

Suitable for



- Bluetooth® 5.0 SIG Mesh
- Input: 120-277VAC, 50/60Hz
- Output (Max Loading): 24VDC≤2A, 250VAC≤4A
- VFC: Volt-free Contact / Dry Contact
- On/Off control with relay output
- Module settings via mobile/tablet app & PC web platform

System Level Components



Bluetooth® Gateway

NEW!

HBGW01

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Input: 120V-277V, 50/60Hz
- Data transmission between Mesh network & Ethernet
- RJ45 Ethernet port 100M
- 2.4G+5G dual Wi-Fi
- Dual Wi-Fi antenna (both internal & external)
- Mobile/tablet app & PC web platform control
- Quick and easy trouble shooting
- Remote control & monitoring
- Real-time synchronization
- Internet-of-Things (IoT) features enabled

Bluetooth® Panel

HBP02

- Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- Touch Panel, designed for junction box / electrical box installation
- Input: 220V-240V, 50/60Hz
- RTC keeps real-time for up to 7-8 weeks against power failure
- 4 buttons for brightness/color temperature adjustment
- 6 scenes buttons can be assigned using the App
- Touch screen with vibration/beeper/LED indication
- Clean mode/Screen lock time
- One-key sensor take over function
- Manual adjustment: on/off, dim and color tuning
- Manual / Auto display screen brightness adjustment
- Mobile/tablet app control

DALI Panel

- Touch Panel, designed for junction box / electrical box installation
- Input: 9.5-22.5VDC
- DALI Broadcast
- Group control or broadcast control via rotary switch
- 4 buttons for brightness/color temperature adjustment
- 6 scenes buttons correspondent to DALI scene 1-4
- Touch screen with beeper/LED indication
- Clean mode/Screen lock time
- Manual adjustment: on/off, dim and color tuning

NEW!

HDP08

Bluetooth® EnOcean Self-Powered Wireless Switches

Self-powered IoT

NEW!

HBES01/W

Single Rocker: 2 push butons

Two Rockers: 4 push butons

*The package contains a single rocker and two smaller rockers altogether.

- EnOcean Self-Powered Switch (battery free)
- Equipped with EnOcean Bluetooth Module PTM215B
- Both single rocker (2 push) & two small rockers (4 push) are included for user to freely select and install
- Fully support Hytronik's Bluetooth Eco-system products

NEW!

HBES01/B

Single Rocker: 2 push butons

Two Rockers: 4 push butons

*The package contains a single rocker and two smaller rockers altogether.

- EnOcean Self-Powered Switch (battery free)
- Equipped with EnOcean Bluetooth Module PTM215B
- Both single rocker (2 push) & two small rockers (4 push) are included for user to freely select and install
- Fully support Hytronik's Bluetooth Eco-system products

Bluetooth® Real-time Keeper & Repeater Module

HTG01

- Input: 120V-277V, 50/60Hz
- Standard version with up to 30m transmission distance
- Ability to keep up to 12 weeks mesh network real-time against power failure
- Works as a Bluetooth repeater node to relay communication signal and extend mesh distance
- Stand-alone installation design to fix into junction box

HTG01/F

- Input: 120V-277V, 50/60Hz
- Standard version with up to 30m transmission distance
- Ability to keep up to 12 weeks mesh network real-time against power failure
- Works as a Bluetooth repeater node to relay communication signal and extend mesh distance
- Built-in design for OEMs with screw holes for mounting

HTG02 & HTG02/F & Demo Suitcase

HTG02

- Input: 120V-277V, 50/60Hz
- Reinforced version with up to 50m transmission distance
- Two styles of antenna to choose from
- Ability to keep up to 12 weeks mesh network real-time against power failure
- Works as a Bluetooth repeater node to relay communication signal and extend mesh distance
- Stand-alone installation design to fix into junction box

HTG02/F

- Input: 120V-277V, 50/60Hz
- Reinforced version with up to 50m transmission distance
- Two styles of antenna to choose from
- Ability to keep up to 12 weeks mesh network real-time against power failure
- Works as a Bluetooth repeater node to relay communication signal and extend mesh distance
- Built-in design for OEMs with screw holes for mounting

Bluetooth® Demo Suitcase

NEW!

Demonstration box with a complete Bluetooth 5.0 mesh eco-system built-in!

Daylight Sensors

Overview: Daylight Sensors

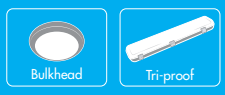
	Input	Output	Daylight Sensor	Pro-active Lux Switching	DIP-Switch Settings	Remote Controller	Page
DS05	220-240Vac 50/60Hz	On/off 400VA/800W	Photocell Advance™	√	√	√ HRC-11	299
DS06	220-240Vac 50/60Hz	Daylight harvest 400W/800W	Photocell Advance™	√		√ HRC-11	299
DS07	220-240Vac 50/60Hzt	Daylight harvest 80mA power supply (PSU)	Photocell Advance™	√		√ HRC-11	299

DS05

HRC-11

- Input: 220-240VAC, 50/60Hz
- Output (Max Loading):
  400VA capacitive / 800W resistive
- Warming-up period: 20s
- Ta: -20°C ~ +60°C; Tc: +80°C
- On/Off control with relay output
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Daylight settings via DIP switches handset HRC-11

Suitable for

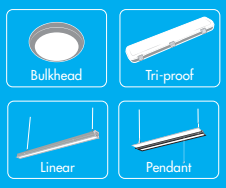


DS06

HRC-11

- Input: 220-240VAC, 50/60Hz
- Output (Max Loading):
  400VA capacitive / 800W resistive
- Warming-up period: 20s
- Ta: -20°C ~ +60°C; Tc: +80°C
- 1-10V control with relay output
- Daylight harvest
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Switch-Dim (PUSH) terminal
- Sensor settings via handset HRC-11
- Optional accessory: end-caps on both end

Suitable for

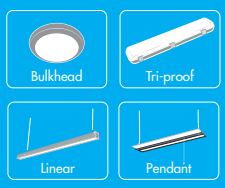


DS07

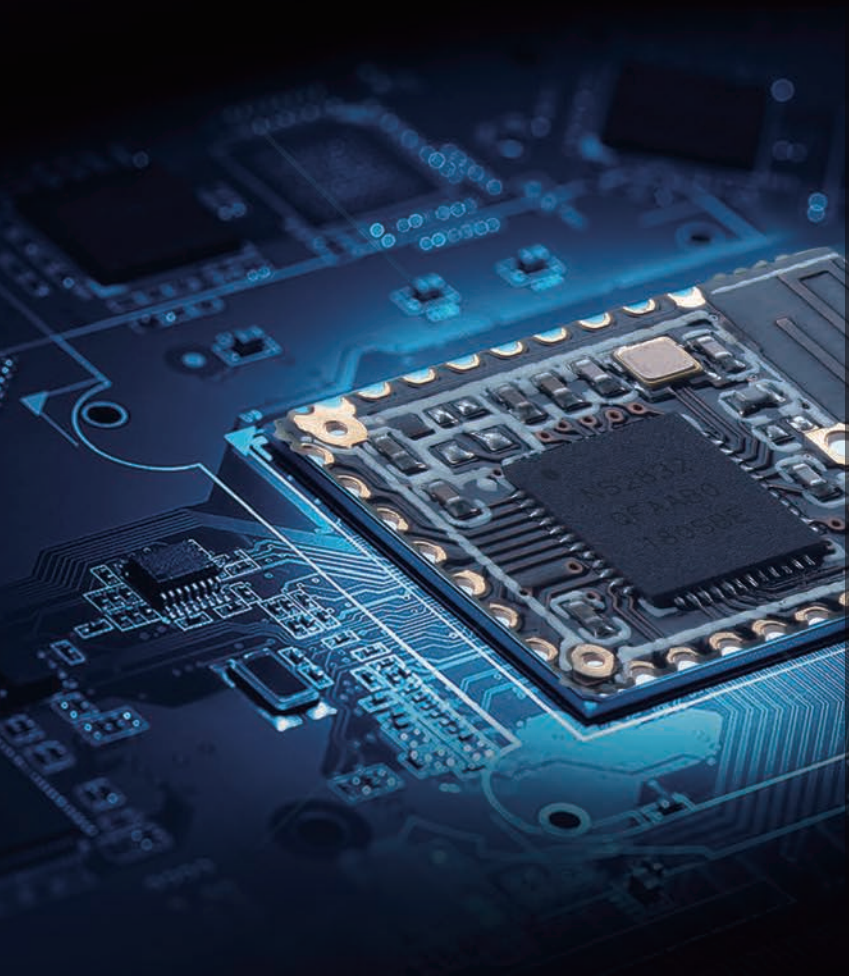
HRC-11

- Input: 220-240VAC, 50/60Hz
- Output (Max Loading): 80mA
- Warming-up period: 20s
- Ta: -20°C ~ +60°C; Tc: +80°C
- DALI broadcast output
- Daylight harvest
- Daylight sensor: Photocell Advance™ (*See pg. 14-17)
- Pro-active Lux Switching technology (*See pg. 16)
- Switch-Dim (PUSH) terminal
- Sensor settings via handset HRC-11
- Optional accessory: end-caps on both end

Suitable for



PCBA Modules (SKD)



Bluetooth 5.0 Mesh Modules

KMB01

- Bluetooth 5.0 SIG mesh (BLE) module (*See full details on pg. 05-11)
- L * W * D: 19.2mm*12.7mm*1.6mm
- nRF52832 chip design
- Frequency: 2404MHz-2480MHz
- Bluetooth transmission range: up to 50m in open air
- Supply voltage: DC1.7V-3.6V
- Current consumption: <10mA (normal mode)
- Mobile/tablet app & PC web platform control
- Ready for integration to LED drivers/dimmers etc.
- IoT(Internet-of-Things) featured
- Future proof: Continuous firmware maintenance (OTA)
- Highly open for all customization possibilities

Six Variants Available:

- KMB01-S: On/Off control
- KMB01-DIM: Dimming only
- KMB01-CCT: Dimming and color tuning (PWM output)
- KMB01-DA: Dimming and color tuning (DALI broadcast)
- KMB01-EM: Dimming and color tuning with Emergency function
- KMB01-PIR: For PIR sensor connecting, with daylight sensor and PUSH function Relay output/PWM output/1-10V putput/DALI output available

NEW!

KMB02

- Bluetooth 5.0 SIG mesh (BLE) module (*See full details on pg. 05-11)
- L * W * D: 19.2mm*12.7mm*1.6mm
- nRF52840 chip design
- Frequency: 2404MHz-2480MHz
- Bluetooth transmission range: up to 50m in open air
- Supply voltage: DC1.7V-3.6V
- Current consumption: <10mA (normal mode)
- Mobile/tablet app & PC web platform control
- Ready for integration to LED drivers/dimmers etc.
- IoT(Internet-of-Things) featured
- Future proof: Continuous firmware maintenance (OTA)
- Highly open for all customization possibilities

Six Variants Available:

- KMB02-S: On/Off control
- KMB02-DIM: Dimming only
- KMB02-CCT: Dimming and color tuning (PWM output)
- KMB02-DA: Dimming and color tuning (DALI broadcast)
- KMB02-EM: Dimming and color tuning with Emergency function
- KMB02-PIR: For PIR sensor connecting, with daylight sensor and PUSH function Relay output/PWM output/1-10V putput/DALI output available

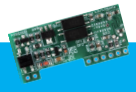
DALI-2 Modules

KMD01-DT6

- DALI-2 DT6 module (DALI device type 6)
- L * W * D: 37.5mm * 14mm * 7mm
- DALI dimmable (1% - 100%)
- Comply with IEC62386 -101/102/207 standards
- Supply voltage: DC 8.5V – 12V
- Current consumption: <20mA (±5mA)
- Convert the DALI signal to PWM 1KHz (can be customized)
- With 300Vac protection against overvoltages
- Ready for integration to DALI-2 LED drivers
- DALI terminal with 300Vac protection against overvoltage
- Switch-Dim (PUSH) terminal – same position as DALI terminals
- LED Fault detection
- Conformity: IEC62386-102:2018; IEC62386-207:2018

KMD01-DT8 & UC20DC & LEB02 & UC20RC

KMD01-DT8



- DALI-2 DT8 module (DALI device type 8)
- L * W * D: 37.5mm * 14mm * 7mm
- DALI dimmable (1% - 100%)
- Comply with IEC62386 -101/102/207 standards
- Supply voltage: DC 8.5V – 12V
- Current consumption: <20mA (±5mA)
- Convert the DALI signal to PWM 1KHz (can be customized)
- With 300Vac protection against overvoltages
- Ready for integration to DALI-2 LED drivers
- DALI terminal with 300Vac protection against overvoltage
- Switch-Dim (PUSH) terminal – same position as DALI terminals
- LED Fault detection
- Conformity: IEC62386-101:2018; IEC62386-102:2018; IEC62386-207:2018; IEC62386-209:2011

HF Modules

NEW!

UC20DC

- Microwave (HF) module
- L * W * D: 20mm * 20mm * 45mm
- On/Off control
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥20mA)
- Output (Max Loading): 5V, TTL
- Max installation height: 6m
- Max detection range: 10m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Robust HF antenna design against wireless interference (*See pg. 13)

LEB02

- Microwave (HF) module
- L * W * D: 23mm * 22mm * 7mm
- Frequency: 5.8GHz ±75MHz
- Supply voltage: DC 3.3V (can be customized)
- Current consumption: 5mA – 6mA
- High/Low level output or PWM output
- Max installation height: 3m
- Max detection range: 6m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Programmable sensor parameter settings

NEW!

UC20DC/RC

HRC-05

- Microwave (HF) module
- L * W * D: 20mm * 20mm * 45mm
- Tri-level dimming (*See pg. 01)
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥25mA)
- Output (Max Loading): 5V, PWM
- Max installation height: 6m
- Max detection range: 10m (diameter)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Sensor settings via handset HRC-05

NEW!

SAM12NH

- Microwave (HF) module
- L * W * D: 39mm * 19.5mm * 8.5mm
- Tri-level dimming (*See pg. 19)
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥25mA)
- Output (Max Loading): 5V, PWM
- Max installation height: 6m
- Max detection range: 10m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Sensor settings via DIP-Switches

NEW!

SAM12NH/RC05

HRC-05

- Microwave (HF) module
- L * W * D: 39mm * 19.5mm * 13mm
- Tri-level dimming (*See pg. 01)
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥25mA)
- Output (Max Loading): 5V, PWM
- Max installation height: 6m
- Max detection range: 10m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg.15)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Sensor settings via handset HRC-05

NEW!

SAM14NH

- Microwave (HF) module
- L * W * D: 78mm * 13mm * 13mm
- Tri-level dimming (*See pg. 01)
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥25mA)
- Output (Max Loading): 5V, PWM or 0-10V
- Max installation height: 6m
- Max detection range: 12m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Sensor settings via DIP-Switches

NEW!

SAM14NH/RC05

HRC-05

- Microwave (HF) module
- L * W * D: 78mm * 13mm * 13mm
- Tri-level dimming (*See pg. 01)
- Frequency: 5.8GHz ±75MHz
- Input: 12VDC (≥25mA)
- Output (Max Loading): 5V, PWM or 0-10V
- Max installation height: 6m
- Max detection range: 12m (diameter)
- Daylight sensor: Photodiode (PD)
- Active Lux Switching technology (*See pg.15)
- Robust HF antenna design against wireless interference (*See pg. 13)
- Sensor settings via handset HRC-05

Optional Accessories

HA01B / HA01W

- Optional accessory for reinforced Bluetooth signal
- Frenquency: 2.4-2.5GHZ
- Up to 50m distance outdoor

Applicable sensor models:

HCD038/BT

See pg. 88

HCD438/BT

See pg. 88

HC038V/BT

See pg. 88

HC438V/BT

See pg. 88

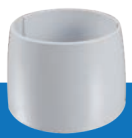
HCD038/CA

See pg. 88

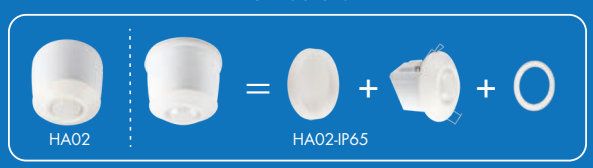
HCD438/CA

See pg. 88

HA02 / HA02-IP65



After installation



- Optional surface mount box
- Default IP20; IP65 is optional upon request

Applicable sensor models:

HIR21

HRC-11

See pg. 159

HIR22

HRC-11

See pg. 159

HMW20

HRC-11

See pg. 163

HMW21

HRC-11

See pg. 163

HMW22

HRC-11

See pg. 164

HMW24

HRC-11

See pg. 164

HMW25

HRC-11

See pg. 165

HA03 / HA03-IP65

- Optional surface mount box
- Default IP20; IP65 is optional upon request

Applicable sensor models:

HMW27/PRO

HRC-11
See pg. 152

HMW27/H

HRC-11
See pg. 152

HMW23D2/PRO
See pg. 153

HMW23D2/H
See pg. 153

HMW28VFC/PRO

HRC-12
See pg. 154

HMW28DCVFC/PRO

HRC-12
See pg. 154

HIR28 Series

HRC-11
See pg. 155

HIR28VFC Series

HRC-12
See pg. 155

HIR28DCVFC Series

HRC-12
See pg. 156

HIR27 Series

HRC-11
See pg. 157

HIR23/D2 Series
See pg. 157

HIR32 Series

HRC-11
See pg. 158

HA04

White color version

Transparent color version

After installation

White color version

Transparent color version

- Optional accessory for Zhaga Book 20 sensors
- Default white; transparent is optional upon request

Applicable sensor models:

HIR17

HRC-11
See pg. 83

HIR18

HRC-11
See pg. 92

HIR62

See pg. 87

HIR63

See pg. 90

HIR60

White color version

Transparent color version

See pg. 54

HIR60/SV **SILVAIR**

White color version

Transparent color version

See pg. 56

HIR61

White color version

Transparent color version

See pg. 54

HA05

- Optional accessory for Zhaga Book 20 sensors
- Default white; transparent is optional upon request

Applicable sensor models:

HIR17

See pg. 83

HIR18

See pg. 92

HIR62

See pg. 87

HIR63

See pg. 90

HIR60

See pg. 54

HIR60/SV **SILVAIR**

See pg. 56

HIR61

See pg. 54

HA06

- Optional flush mount box

Applicable sensor models:

HMW11

See pg. 161

HMW12

See pg. 161

HMW14

See pg. 162

HMW15

See pg. 162

HIM11

See pg. 168

HIM12

See pg. 169

HIM14

See pg. 169

HIM54

See pg. 170

HIM15

HRC-11

See pg. 170

HIM16

HRC-11

See pg. 171

HIM17

HRC-11

See pg. 171

HA07

After installation

IP20

- Optional flush mount box

Applicable sensor models:

SAM5/AA

HRC-05

See pg. 95

SAM7/AA

HRC-05

See pg. 81

SAM22/AA

See pg. 89

HIR01/AA

HRC-01

See pg. 82

HIR02/AA

HRC-05

See pg. 82

HIR05/AA

See pg. 90

HIR09/AA

HRC-11

See pg. 83

HIR11/AA

See pg. 90

HIR13/AA

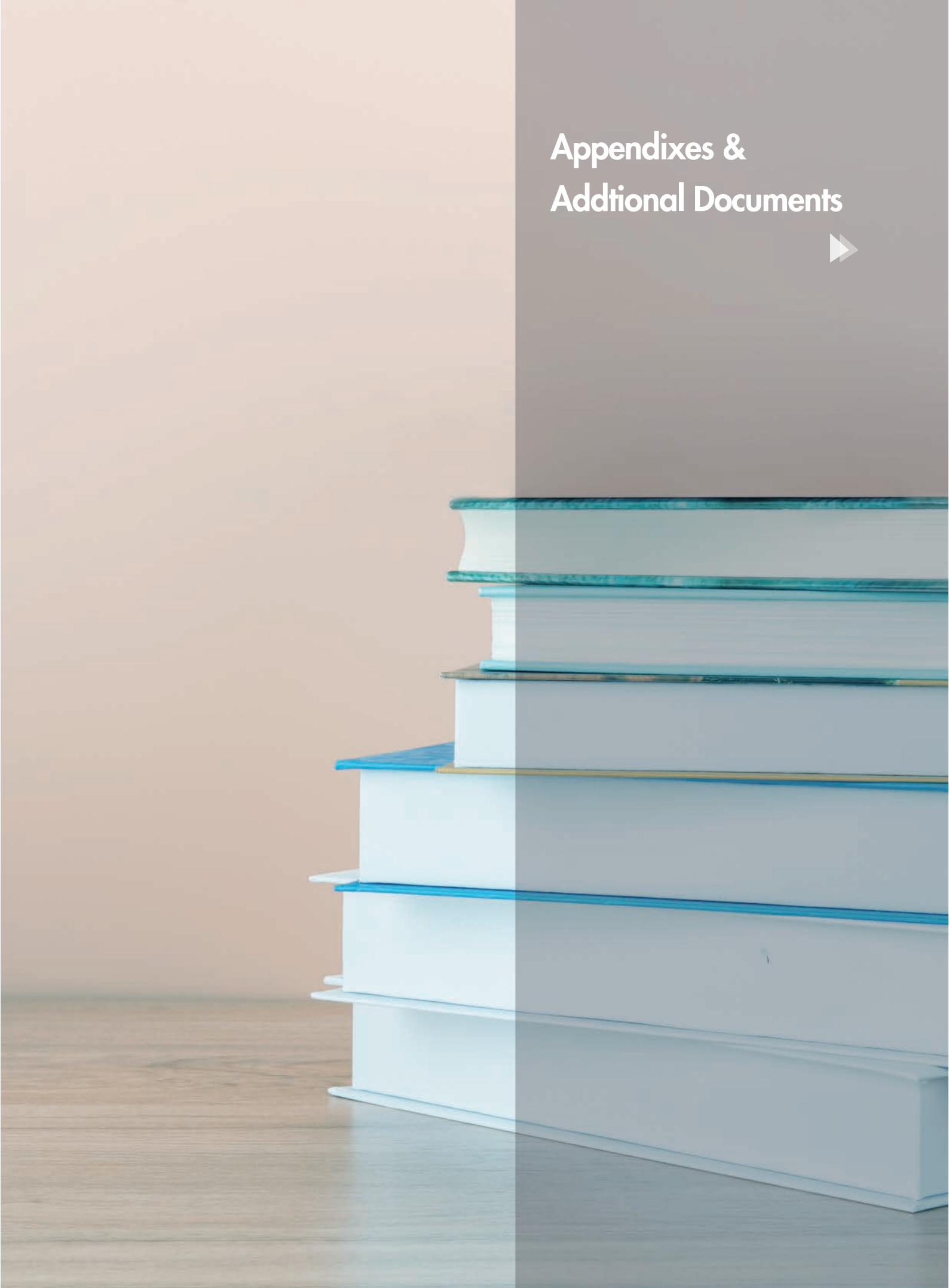
See pg. 87

HIR19/AA

HRC-11

See pg. 84

Appendixes & Addtional Documents



Remote Controller HRC-01

1. Temperary ON/OFF override:

Press this button for temporary ON or OFF. When pressing "AUTO" button or when the fixture is re-powered, then the fixture status will revert back to sensor mode.

3. Scene mode:

There are 6 scene modes fixed program built-in the remote control to choose for different applications, press buttons of detection range/hold-time/stand-by period/stand-by dimming level/daylight sensor to adjust the settings. The last setting stays in validity.

5. Detection range:

Set detection range at 100% / 75% / 50% / 10%.

7. Hold-time:

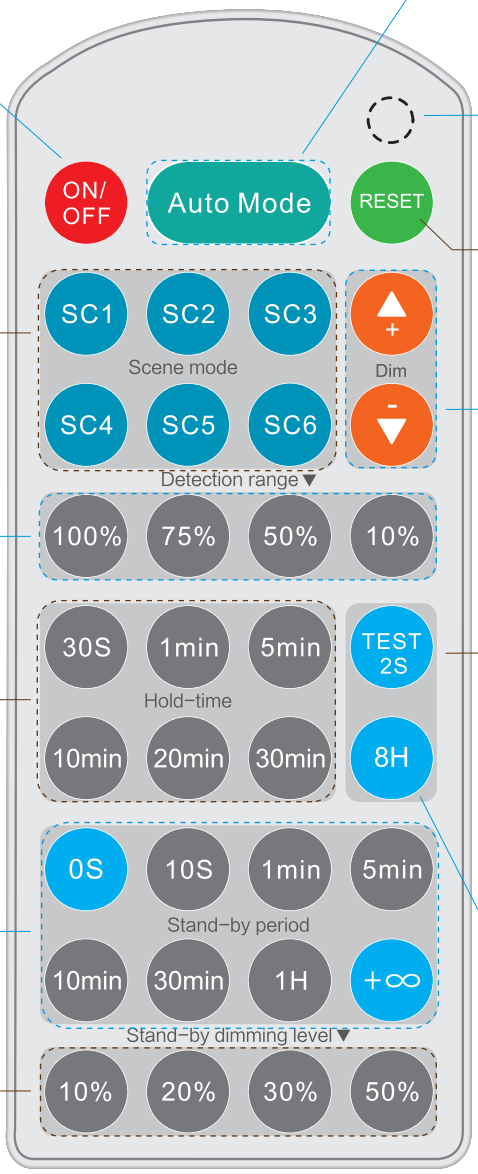
Set hold-time period.

9. Stand-by time settings:

Set stand-by time at 0s / 10s/ 1min/ 10min/5min / 30min / +∞.

11. Stand-by dimming level:

Set stand-by dimming level at 10% / 20% / 30% / 50%.



HRC-01

4. Auto mode:

Also known as presence detection / absence detection. In this mode, the light keeps ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

2. Load indication:

The light will flash ONCE rapidly after receiving the command from the remote control successfully.

6. Reset:

All settings goes back to DIP switches settings, or rotary switches settings, or factory default settings

8. Dim ±:

Brightness dimming.

10. Test mode::

This button is for testing purpose only. The sensor goes to test mode (hold-time is 2s) after commissoning, meanwhile the stand-by period and daylight sensor are disabled.

* This mode can be ended by pressing "reset" , or any button of "scene mode" and "hold-time" . The sensor settings are changed accordingly.

12. 8H permanent on mode:

In some circumstances, people want to disable the sensor and keep the light on for a certain period of time, even there is no motion detected. This function is built-in the software and can be achieved by pressing the "8H" button on the RC.

* Press "ON/OFF" , "Auto Mode" , "RESET" or "Scene mode" buttons to quit from this mode.

Remote Controller HRC-04

1. Temperary ON/OFF override:

Press this button for temporary ON or OFF. When pressing "AUTO" button or when the fixture is re-powered, then the fixture status will revert back to sensor mode.

4. Scene mode:

There are 4 scene modes fixed program built-in the remote control to choose for different applications, press buttons of detection range/stand-by dimming level/ hold-time/stand-by period/daylight sensor to adjust the settings. The last setting stays in validity.

6. Power output:

By pressing this button to select light output at 80% (at initial 10,000 hours) or 100%.

8. Detection range:

Set detection range at 100% / 75% / 50% / 10%.

9. Stand-by dimming level:

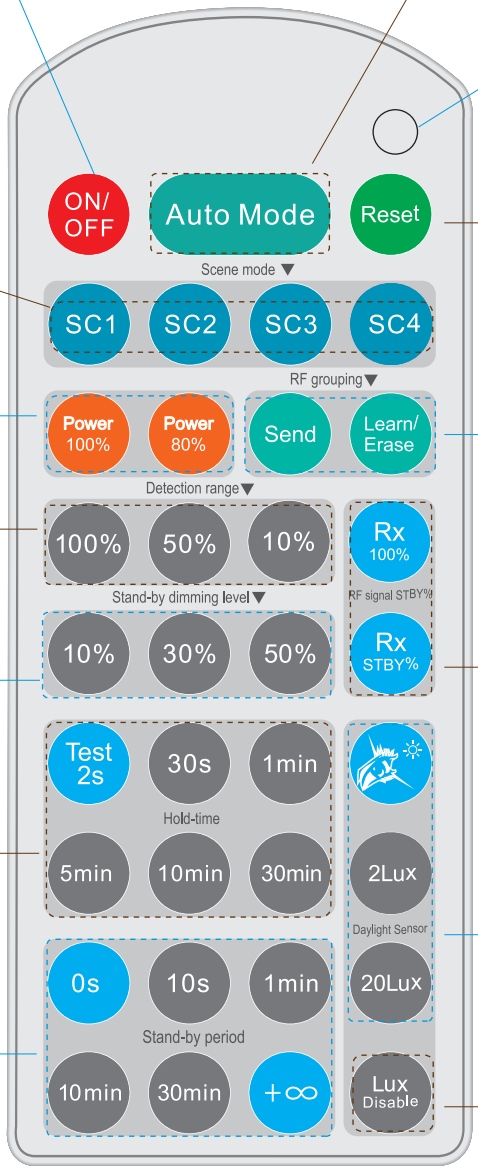
Set stand-by dimming level at 10% / 20% / 30% / 50%.

11. Hold-time:

Set hold-time period. 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode.

13. Stand-by time settings:

Set stand-by time at 0s / 10s/ 1min/ 10min/5min / 30min / +∞.



HRC-04

4. Scene mode:

Also known as presence detection / absence detection. In this mode, the light keeps ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

3. Load indication:

The light will flash ONCE rapidly after receiving the command from the remote control successfully.

5. Reset:

All settings goes back to default settings: Detection range: 100%; Hold-time: 1min; Stand-by period: 5min; Stand-by dimming level: 20%; Daylight sensor: Lux disable; Rx 100%

7. RF grouping:

Short press "Learn/Erase" button to activate pairing mode. By pressing "Send" button, the commander will beep and send the transmission signal. Long press "Learn/Erase" button for 3s, and the receiver unit clears all commands it has received before.

10. Brightness on RF signal

Press "Rx 100%" button, the light(s) on slave operate at 100% on upon receiving RF ON signal; Press "Rx STBY%" button, the light(s) switch on at the pre-set stand-by dimming level.

12. Daylight threshold setting & Ambient lux sampling:

Set daylight threshold value 2 lux / 20 lux.

Eye button: study the surrounding lux level and save it as the new daylight threshold / target lux level for daylight harvesting.

14. Lux disable:

By pressing this button, the built-in daylight sensor stops working, and all motion detected could trigger on the lighting fixture, no matter how bright the natural light is.

Remote Controller HRC-05

1. Auto mode:

Also known as presence detection / absence detection. In this mode, the light keeps ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

2. Load indication:

The light will flash ONCE rapidly after receiving the command from the remote control successfully.

3. Temperary ON/OFF override:

Press this button for temporary ON or OFF. When pressing "AUTO" button or when the fixture is re-powered, then the fixture status will revert back to sensor mode.

4. Reset:

All settings goes back to DIP switches settings, or rotary switches settings, or factory default settings

5. Scene mode:

There are 4 scene modes fixed program built-in the remote control to choose for different applications, press buttons of detection range/hold-time/stand-by period/stand-by dimming level/daylight sensor to adjust the settings. The last setting stays in validity.

6. Power output:

By pressing this button to select light output at 80% (at initial 10,000 hours) or 100%.

8. Dim ±:

Brightness dimming.

7. Detection range:

Set detection range at 100% / 75% / 50% / 10%.

9. Stand-by dimming level:

Set stand-by dimming level at 10% / 20% / 30% / 50%.

10. Daylight threshold setting & Ambient lux sampling:

Set daylight threshold value 2 lux / 10 lux / 50 lux.
Eye button: study the surrounding lux level and save it as the new daylight threshold / target lux level for daylight harvesting.

11. Hold-time:

Set hold-time period. 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode.

12. Lux disable

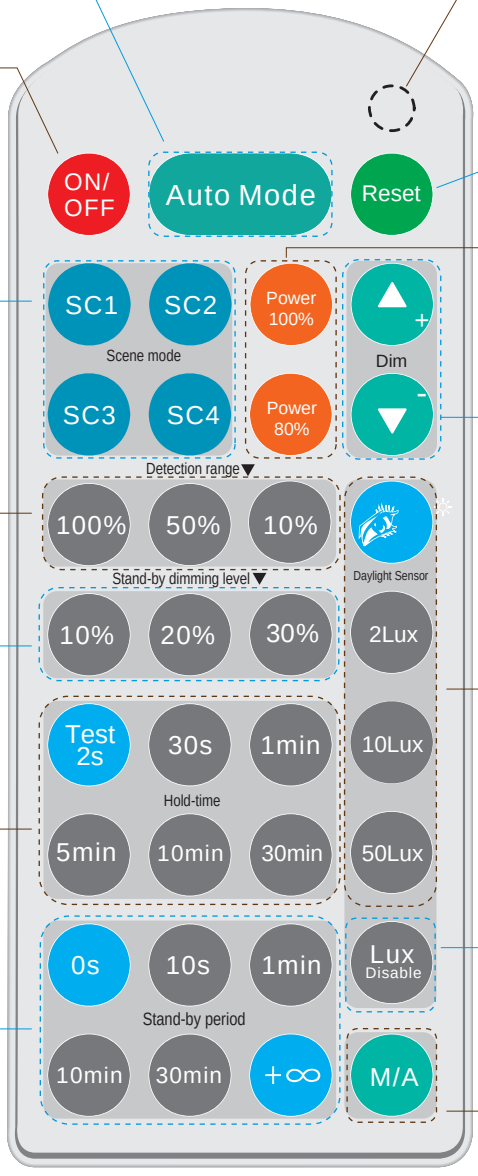
Brightness dimming.

13. Stand-by time settings:

Set stand-by time at 0s / 10s/ 1min/ 10min/5min / 30min / +∞.

14. Manual override / Semi-auto mode (absence detection):

By pressing this button, the sensor goes to manual override or Semi-auto mode (absence detection) function.
* The buzzer beeps twice if it' s manual override function, and beeps once if it shifts to Semi-auto mode (absence detection).



HRC-05

Remote Controller HRC-11

1. Auto / Semi-auto:
Also known as presence detection / absence detection. In semi-auto mode, the motion sensor is only activated on the manual press of push switch. The light keeps ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

3. Temperary ON/OFF override:
Press this button for temporary ON or OFF. When pressing "AUTO" button or when the fixture is re-powered, then the fixture status will revert back to sensor mode.

5. Sensor off mode:
The function of motion detection is disabled. The function of photocell is also disabled.

7. Power Output:
Press to select light output at 80% (at initial 10,000 hours) or 100%.

9. One-key commissioning:
Use "Start" , "Memory" and "Apply" button to save a set of sensor parameters and send to all the target fixtures, quick and simple!

11. Tri-level & Daylight harvest:
Shift between tri-level control mode and daylight harvest mode.

13. Detection range:
Set detection range at 100% / 75% / 50% / 10%.

16. Hold-time:
Set hold-time period. 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode.

15. Stand-by time settings:
Set stand-by time at 0s / 10s/ 1min/ 10min/5min / 30min / +∞.

18. Stand-by dimming level:
Set stand-by dimming level at 10% / 20% / 30% / 50%.

20. Rx Stand-by:
Choose one of the four detection mode: "HF only", "PIR only", "HF / PIR" or "HF & PIR".

19. RF pairing mode:
Short press "learn / erase" button to activate pairing mode, then press "transmit" on a primary mode and all the receiver modules will beep 3 times in 1s to indicate the success of paring. Long press the "learn / erase" button for 3s will erase all the commands received previously.

6. Twilight mode:
The function of motion detection is disabled. The function of photocell is still working, and the product becomes a pure dusk / dawn daylight sensor.

8. CCT ±:
Color tuning.

2. Load indication:
The light will flash ONCE rapidly after receiving the command from the remote control successfully.

4. Reset:
All settings goes back to DIP switches settings, or rotary switches settings, or factory default settings

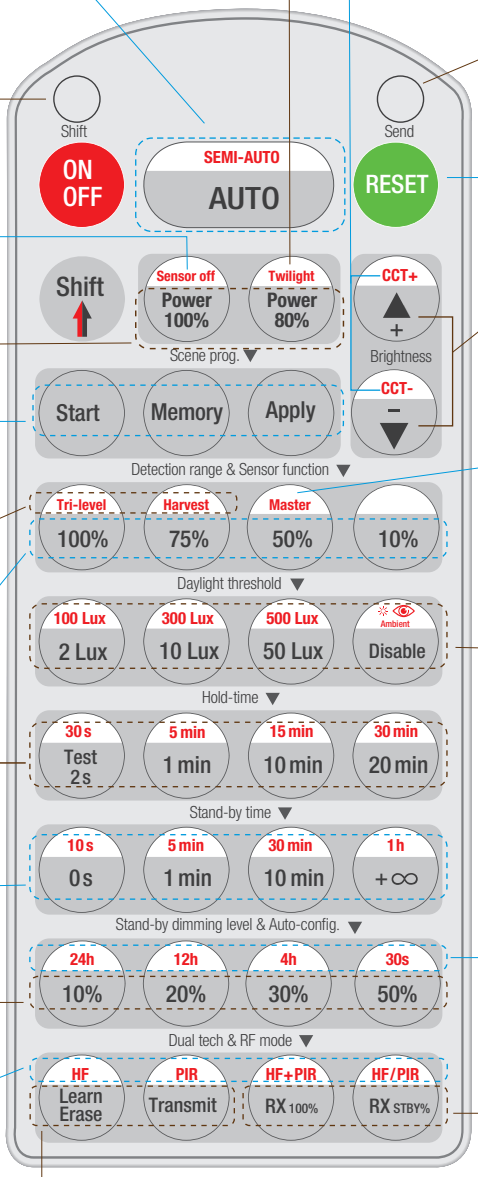
10. Dim ±:
Brightness dimming.

12. Master DALI sensor in a DALI line:
Select a DALI sensor in a DALI line to be a "master", so that all other DALI sensors in the same DALI line will perform daylight harvesting/tri-level control based on the lux reading from this "master" sensor' s daylight sensor.

14. Daylight threshold setting & Ambient lux sampling:
Set daylight threshold value 2 lux / 10 lux / 50 lux / 100 lux / 300 lux / 500 lux. Eye button: study the surrounding lux level and save it as the new daylight threshold / target lux level for daylight harvesting.

17. 24h auto-configuration:
Select a time period and the sensor will do light level measurement and determine / save the lowest light level (commission line) wih 100% on, so as to automatically set the target lux level for daylight harvesting.

21. Rx Stand-by:
Press button RX100%, the light on receiver unit is 100% upon receiving RF on signal; Press button RX STBY% button, the light(s) goes to pre-set stand-by dimming level directly.



HRC-11

Note:
For On/Off control products, the stand-by time setting still works and accumulates to hold-time. These products include HMW28/PRO, HMW28/H, HMW28VFC/PRO, HC049S, HIR28 series, HMW20, HMW30 and HIM30.e.g. For HC049S, when set hold time to 5min, and set stand-by time to 10min, then the HC049S will be 100% on for 15min before it switches off the fixture.

Remote Controller HRC-12

1. Temperary ON/OFF override:

Press this button for temporary ON or OFF. When pressing "AUTO" button or when the fixture is re-powered, then the fixture status will revert back to sensor mode.

2. Load indication:

The light will flash ONCE rapidly after receiving the command from the remote control successfully.

3. Reset:

All settings goes back to DIP switches settings, or rotary switches settings, or factory default settings.

4. Auto / Semi-auto:

Also known as presence detection / absence detection. In semi-auto mode, the motion sensor is only activated on the manual press of push switch. The light keeps ON in the presence, and dims down in the absence, and eventually switches off in the long absence.

5. Hold-time:

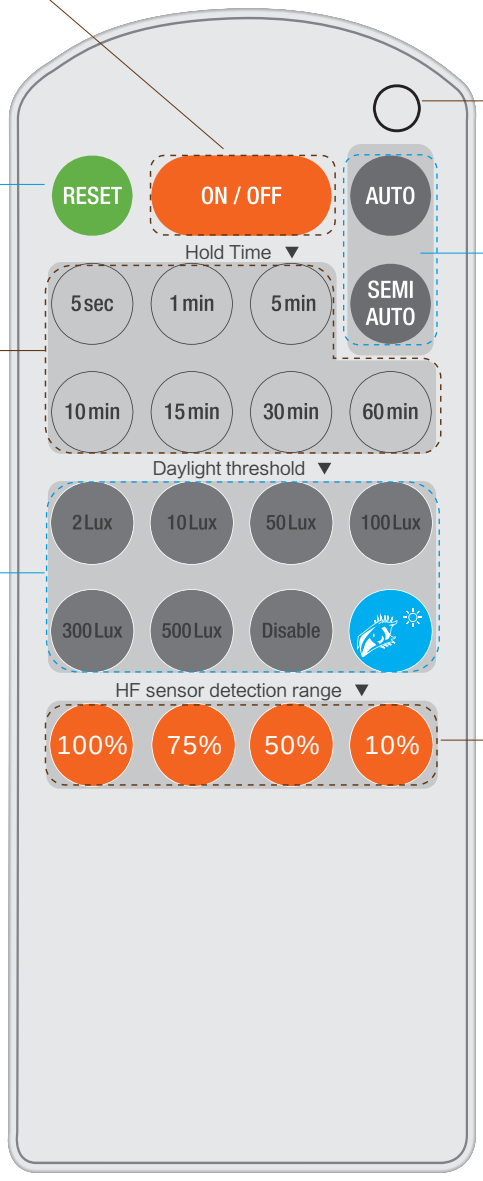
Set hold-time period.

6. HF sensor detection range:

Set detection range at 100% / 75% / 50% / 10%.

7. Daylight threshold setting & Ambient lux sampling:

Set daylight threshold value 2 lux / 10 lux / 50 lux / 100 lux / 300 lux / 500 lux. Eye button: study the surrounding lux level and save it as the new daylight threshold / target lux level for daylight harvesting.



HRC-12

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