

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 manufacturers worldwide. With our strong R&D competence, we are now gearing towards Bluetooth lighting control solution and building up a complete ecosystem of Bluetooth products.

Our ecosystem consists of motion sensors, LED drivers, emergency control gear, dimmers, gateway and other accessories like touch panel and quick connection box. We also cooperate with Koolmesh, Casambi, Silvair and EnOcean to provide a wider range of Bluetooth lighting solutions.

Our Cloud service supports remote control via gateway, emergency report generation and account/network managements etc. With our server based in Frankfurt, we are ready for IoT era. Meanwhile, we are open for all kinds of customization possibilities at affordable prices, including the products, app, cloud and server.



Features

- Device firmware update over-the-air (OTA)
- OffLine commissioning
- Server based in Europe
- Open for products, app, cloud and server customization



Bluetooth® Motion Sensors/Dimmers for Projects

Bluetooth PIR Motion Sensors for Projects

1 DALI Channel PIR Sensor



HBR29
(low-bay)

HBR29/H
(high-bay)

2 DALI Channels PIR Sensor



HBHC25
HBIR32
(low-bay)

HBHC25/H
HBIR32/H
(high-bay)

2 Trailing Edge Channels PIR Sensor



HBR36
(low-bay)

HBR36/H
(high-bay)

Touch Panel



HBPO1

Bluetooth Dimmers / Receivers for Projects

ON/OFF Relay Switch HBTD8200S



※400VA max. LED load

0/1-10V Version HBTD8200V



※400VA max. LED load

DALI Version HBTD8200D



※100mA max. 50 LED drivers

Trailing Edge Version HBTD8200T / HBTD8200T2



※ HBTD8200T: 150VA max.
※ HBTD8200T2: 2x100VA max.

Trailing Edge Example

Out with the old....



Replace the triac dimmer switch face plate with retractive switch type.

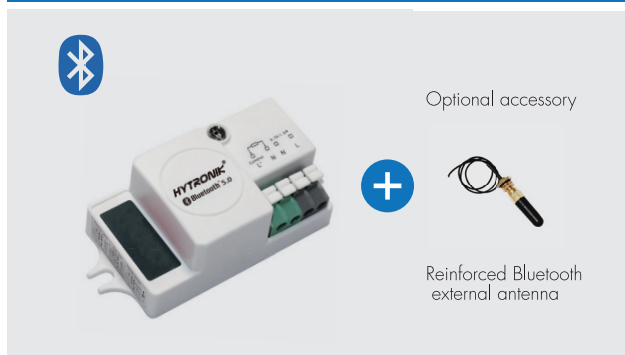
In with new....



The retractive switch inputs may be configured for on/off control, dimming control, and even scene recall!

Bluetooth® Motion Sensors/Receivers for OEM

Motion Sensor: Integrated Version



HC005S/BT:

- Microwave motion sensor with On/Off control
- Compact design
- Loop-in and loop-out terminals for efficient installation
- Most cost-effective solution to incorporate Bluetooth wireless control into the luminaires

Motion Sensor: Detached Version For **metal** luminaire design

Control Base + Bluetooth Sensor Head

1 HC038V	2 HCD038	3 HCD038/P
• 1-10V output • 1 push terminal	• DALI output • 1 push terminal	• DALI output • 2 push terminals



6 types of Microwave/PIR sensor head options!

Motion Sensor: Detached Version For **plastic** luminaire design

Bluetooth Control Base + Sensor Head

1 HC038V/BT	2 HCD038/BT	Optional accessory
• 0/1-10V output • 1 push terminal	• DALI output • 2 push terminals	Reinforced Bluetooth external antenna



10 types of Microwave/PIR sensor head options!

Bluetooth Receiver Nodes for OEM

ON/OFF Relay Switch



HBTD8200S/F
※ 400VA max. LED load

0/1-10V Version



HBTD8200V/F
※ 400VA max. LED load

DALI Version



HBTD8200D/F
※ 100mA max. 50 LED drivers

Trailing Edge Version



HBTD8200T/F
※ 150VA max. LED load

Bluetooth® LED Drivers & DALI2 LED Drivers

Bluetooth LED Drivers



HED6010/BT 10W
(Dimming only)



HED8025/BT 25W
(Dimming & Tunable white)



HED8030/BT 30W
(Dimming & Tunable white)



HED8035/BT 35W
(Dimming & Tunable white)



HED8045/BT 45W
(Dimming & Tunable white)



HED8050/BT 50W
(Dimming & Tunable white)

DALI2 DT6 & DT8 LED Drivers



HED6010/D2 10W (DT6)



HEC7030/BF/D2 30W (DT6)



HED1040/D2 40W (DT6)



HED6045/D2 45W (DT6)



HED8025 25W (DT8)



HED8030 30W (DT8)



HED8035 35W (DT8)



HED8045 45W (DT8)



HED8050 50W (DT8)

Highlights

- DALI2 standard compliant
- Intelligent thermal management
- Multi-current selection
- Tunable white
- 0-100% dimming, flicker-free
- Manual override via Switch-Dim
- <0.5W stand-by power

Bluetooth[®] Driver+Sensor & Emergency Drivers

Bluetooth Driver+Sensor Combo

 HBE9028 28W (Dimming only)	 HBE9028/KD 28W (Dimming only)	 HED1025 25W (Dimming only)
 HED1045 45W (Dimming only)	 HED1050H/HED1050L 50W (Dimming only)	 HED1080H 80W (Dimming only)
 HEC7030/BF 30W (Dimming only)	 HHC2045 45W (Dimming & Tunable white)	 HHC2050L 50W (Dimming & Tunable white)

Highlights

- Save cost & space
- Detachable/Integrated design
- Various HF & PIR sensor options
- Multiple current selection
- Multiple dimming interface for Hex-drive series
- Human centric lighting

Bluetooth Emergency Driver & Inverter

 HBEM01+HBT03 25W (Detached Design)	 HBEM02+HBT03 Inverter (Detached Design)	 HBEM03 28W (Integrated Design)
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Highlights

- Detachable/Integrated Bluetooth module design
- Emergency Watt 2W/3W/4W/5W with LiFePO4 battery available
- Various emergency working mode: Normal mode / Rest mode / Inhibit mode / Extended emergency mode
- Monthly / Quarterly / Annually self test with report generation
- Battery status check via app
- Real-time site alert
- Automatic email notification when fault is detected
- Retrievable usage data and report history
- Electronic maintenance log

Bluetooth® Quick Connection Box

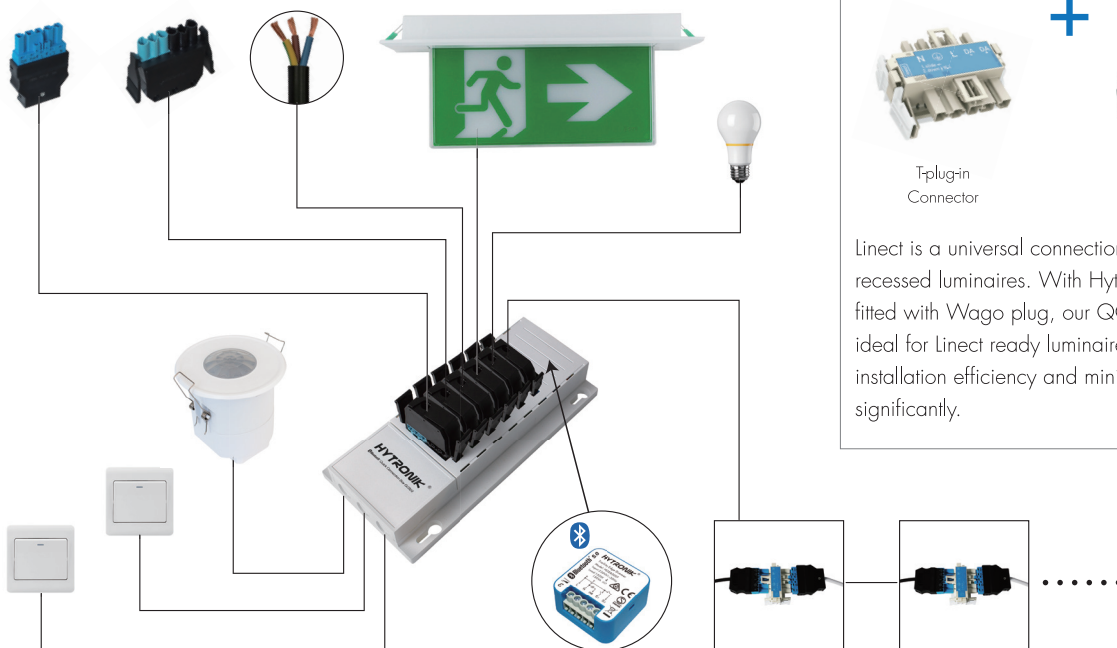


Features

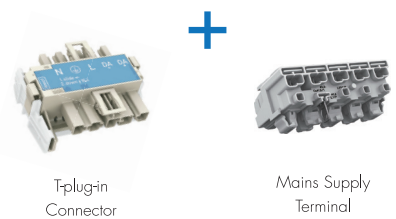
- Supports On/Off, Switch Dim, 1-10V, DALI and emergency control
- 2 Push switch inputs
- 2 hooks on plugs to secure good connection to the main socket
- Double terminals for loop-in and loop-out to the next quick connection box
- **linect** system enabled
- QCB02 & QCB04: 4 alternative Bluetooth modules of On/Off, 1-10V, trailing edge and DALI

Model	Plug Type	Bluetooth	Channel Outputs
QCB01	Wieland	N/A	8 Channels
QCB02		 Built-In	6 Channels
QCB03	Wago	N/A	8 Channels
QCB04		 Built-In	6 Channels

Hytronik provides various options of plug cables. Plugs on both ends can be fitted either with Wieland plugs, Wago plug or just loose ends. Meanwhile, we also offer flexible cable options from 3-core to 6-core, length from 1 meter to 20 meters.



Connecting to **linect** System



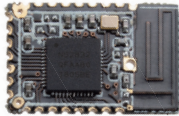
Linect is a universal connection system for recessed luminaires. With Hytronik cable fitted with Wago plug, our QCB series is ideal for Linect ready luminaires to maximize installation efficiency and minimize labor cost significantly.

Partnership

Koolmesh

Bluetooth® 5.0
SIG Mesh Solution

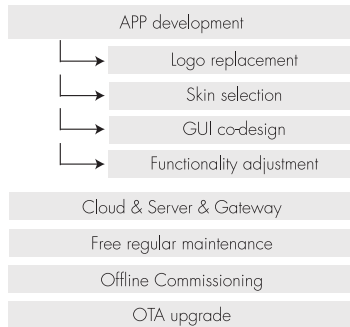
DALI2 DT6 DT8



KMB01 BLE module



KMD01 DALI2 module



CASAMBI

Standalone PIR Motion Sensor



HBIR30/CA
(low-bay)



HBIR30/CA/H
(high-bay)

Detached design Motion Sensor



HCD038/CA



Sensor head options

SILVAIR

Standalone PIR Motion Sensor



HBIR29/SV
(low-bay)



HBIR29/SV/H
(high-bay)



The access to Silvoir apps

Mobile app: Silvoir on the App Store

Web app: platform.silvoir.com

EnOcean

Self-powered IoT



Easyfit Bluetooth®
Single / Double Rocker Wall
Switch EWSSB / EWSDB

※ All Hytronik Bluetooth products fully support
EnOcean switch functions!



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