Detached Motion Sensor with **Bluetooth**[®] 5.0 SIG Mesh WSED410 (HCD405/BT) DALI Output



Product Description

HCD405/BT is a Bluetooth built-in microwave sensor with 30mA DALI power supply built in. It is designed for professional lighting manufactures who would like to incorporate wireless control into their luminaires. It is suitable for any typical indoor applications such as office, classroom, car park, warehouse and other commercial/industrial areas. With Bluetooth wireless mesh networking, it makes communication much easier without any hardwiring, which eventually adds values to luminaires and saves costs for projects. Meanwhile, simple device setup and commissioning can be done via Lena Lighting Clue app.



App Features

- R Quick setup mode & advanced setup mode
- Eloorplan feature to simplify project planning
- B Web app/platform for dedicated project management
- Koolmesh Pro iPad version for on-site configuration
- 🕂 Grouping luminaires via mesh network
- Scenes
- Detailed motion sensor settings
- **Q** Dusk/Dawn photocell (Twilight function)
- Schedule to run scenes based on time and date
- 🌋 Astro timer (sunrise and sunset)
- Staircase function (primary & secondary)
- Compatible with EnOcean BLE switches
- Internet-of-Things (IoT) featured
- Device firmware update over-the-air (OTA)
- Y Device social relations check
- Bulk commissioning (copy and paste settings)
- The commissioning 🌾
- P Different permission levels via authority management
- Network sharing via QR code or keycode
- Remote control via gateway support HBGW01
- 🔊 Interoperability with Hytronik Bluetooth product portfolio
- 😵 Continuous development in progress...

Hardware Features

- 🔄 Photocell Advance
- DALI Dimmable with 30mA DALI broadcast output for up to 15 LED drivers
- Plug'n'Play for flexible installation and cost saving assemble
- Support to control DT8 LED drivers
- Zero crossing detection circuit reduces in-rush current and prolongs relay life
- (5) 5-year warranty



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

Technical Specifications

Bluetooth Transceiver		Input & Output Characteristics	
Operation frequency	2.4 GHz - 2.483 GHz	Operating voltage	220~240VAC 50/60Hz
Transmission power	4 dBm	Stand-by power	<1W
Range (Typical indoor)	10~30m	Load ratings:	30mA (max. 15 devices)
Protocol	Bluetooth 5.0 SIG Mesh	Warming-up	20s
Sensor Data		Safety & EMC	
Sensor principle	High Frequency (microwave)	EMC standard (EMC)	EN55015, EN61000, EN61547
Operation frequency	5.8GHz+/-75MHz	Safety standard (LVD)	EN60669-1, EN60669-2-1
Transmission power	<0.2mW	RED	EN300328, EN301489-1/-17
, Detection range(Max.)	Max installation height: 6m	Certification	Semko, CB, CE , EMC, RED, RCM
0.1	Max detection range: 10m (diameter)	Environment	
Detection angle	30°~150°	Operation temperature	Ta: -20°C ~ +22°C
		Case temperature (Max.)	Tc: +75₀C
		IP rating	IP20

* The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

Mechanical Structure & Dimensions











To make or release the wire from the terminal, use a screwdriver to push down the button.

1. 200 metres (total) max. for 1mm² CSA (Ta = 50°C)

2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50°C)

Wiring Diagram



Detection Pattern



Additional Information / Documents

- For full explanation of Hytronik Photocell Advance[™] technology, please kindly refer to www.hytronik.com/download ->knowledge ->Introduction of Photocell Advance
- 2. To learn more about detailed product features/functions, please refer to www.hytronik.com/download ->knowledge ->Introduction of App Scenes and Product Functions
- 3. Regarding precautions for Bluetooth product installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->Bluetooth Products Precautions for Product Installation and Operation
- 4. Regarding precautions for microwave sensor installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->Microwave Sensors Precautions for Product Installation and Operation
- 5. Data sheet is subject to change without notice. Please always refer to the most recent release on www.hytronik.com/products/bluetooth technology ->Bluetooth Sensors
- 6. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy