PIR Motion Sensor with Bluetooth 5.0 SIG Mesh

HBIR38DC

SELV (low-volt) DC

Product Description

HBIR38DC is a Bluetooth PIR motion sensor equipped with an RJ45 network port. It connects to SCB01/BLE or SCB02/BLE via an external RJ45 cable and is powered by a 12V DC supply from the SCB01/BLE or SCB02/BLE. With Bluetooth wireless connectivity, communication between devices is more convenient. Meanwhile, simple device setup and commissioning can be done via **Koolmesh**[®] app.



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App Features

- ∫ Quick setup mode & advanced setup mode
- B Web app/platform for project deployment & data analysis
- Koolmesh Pro app on iPad for on-site configuration
- Floorplan feature to simplify project planning
- 合导One-key device replacement
- Device social relations check
- Staircase function (primary & secondary)
- 健 Remote control via gateway support HBGW01
- Heat map
- 🔊 Dynamic daylight harvest auto-adaptation
- 🛱 Grouping luminaires via mesh network
- Scenes
- Dusk/Dawn photocell (Twilight function)
- 🔁 Circadian rhythm (Human centric lighting)
- Detailed motion sensor settings
- 📸 Schedule
- -- Astro timer (sunrise and sunset)
- O Power-on status (memory against power loss)
- ✤ Offline commissioning
- **E** Bulk commissioning (copy and paste settings)
- P Different permission levels via authority management
- Compatible with EnOcean BLE switches
- 🖧 Interoperability with Hytronik Bluetooth product portfolio
- Internet-of-Things (IoT) featured
- Device firmware update over-the-air (OTA)
- Development in progress...

Hardware Features

Magnetic Reset Switch

- **IP** IP20
- Fixing washers accessory
- 5 year warranty



Subject to change without notice.

Technical Specifications

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	₿Bluetooth [®] 5.0 SIG Mesh

Input & Output Characteristics	
Operating voltage	12VDC
Stand-by power	<0.5W
Power Supply	12VDC:20MA MAX:<30MA

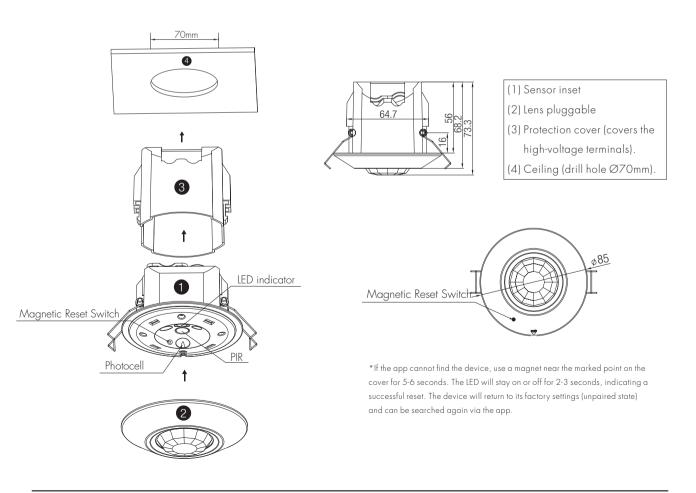
Environment	
Operation temperature	Ta: -20°C ~ +50°C
Storage temperature	-25°C ~ +70°C
Relative humidity	20 ~ 90%
IP rating	IP20
Insulation	Class I

Mechanical Structure & Dimensions (unit:MM)

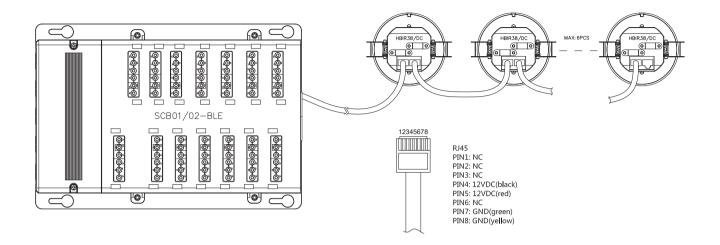
Sensor Data	
Sensor principle	PIR detection
Detection range (Max.)	Installation Height : 6m Detection Range(Ø) : 10m
Detection angle	360°

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

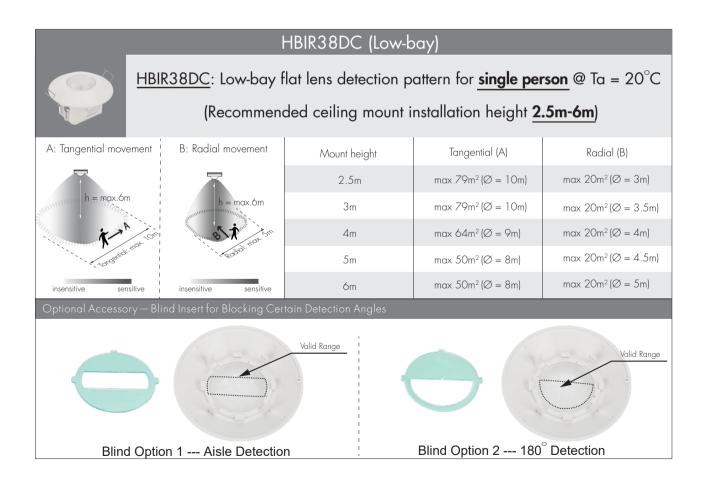
Safety & EMC	
EMC standard (EMC)	EN61547
Safety standard (LVD)	EN61347-1, EN61347-2-11
RED	EN300 328, EN301 489-1/-17
Certification	CE , UKCA



Wiring Diagram

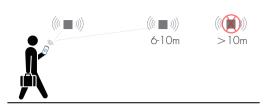


*An SCB01/02BLE can only support up to 8 HBIR38DC devices.



Placement Guide and Typical Range

Smart Phone to Device Range



The smart device with the App installed will have a typical range of 10m, but varies from device to device. During commissioning, the installer will need to be in range of the devices when searching for devices to add to the network.

Once the devices have been added to the network via the App, the devices will start communicating within the wireless mesh. This means that once the network is complete, all devices are accessible from the smart device when in a 20m range of a single point.

Additional Information / Documents

- 1. To learn more about detailed product features/functions, please kindly refer to https://hytronik.com/product/hbir38dc
- 2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to https://hytronik.com/service/downloads (Bluetooth Products Precautions for Product linstallation and Operation)
- 3. Regarding precautions for PIR Sensors installation and operation, please kindly refer to https://hytronik.com/service/downloads (PIR Sensors Precautions for Product Installation and Operation)
- 4. Data sheet is subject to change without notice. Please always refer to the most recent release on https://hytronik.com/products/motion-daylight-sensors
- 5. Regarding Hytronik standard guarantee policy, please kindly refer to https://hytronik.com/service/downloads (Guarantee Conditions document)