Bluetooth[®] 5.0 PIR Motion Sensor with ZZhaga

HIR60

HIR60/R Mid bay with IP65

Low bay

Product Description

HIR60 & HIR60/R are Bluetooth 5.0 SIG mesh PIR motion sensors, designed with Zhaga D4i (Book 20 connection) that enables lighting designers/manufactures to freely connect to Zhaga Book 20 LED Drivers via plug'n'play. It's embedded with Bluetooth module, PIR sensor and also a daylight sensor, and yet comes with a surprisingly super-mini size! With Bluetooth wireless mesh networking, it makes communication between luminaires much easier without time-consuming hardwiring, which is always a headache especially for old buildings – you do not need any extra wirings to upgrade old buildings with smart lighting! Meanwhile, simple device setup and commissioning can be done via **Koolmesh**[™] app.

App Features

- 💪 Quick setup mode & advanced setup mode
- Tri-level control
- Daylight harvest
- Circadian rhythm (Human centric lighting)
- 🖳 Floorplan feature to simplify project planning
- 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
- Dusk/Dawn photocell (Twilight function)
- Schedule to run scenes based on time and date
- 🏂 Astro timer (sunrise and sunset)
- Staircase function (master & slave)
- 📆 Internet-of-Things (IoT) featured
- Device firmware update over-the-air (OTA)
- Device social relations check
- Bulk commissioning (copy and paste settings)
- Dynamic daylight harvest auto-adaptation
- Power-on status (memory against power loss)
- 🔅 Offline commissioning
- P Different permission levels via authority management
- Network sharing via QR code or keycode
- € Remote control via gateway support HBGW01
- B Interoperability with Hytronik Bluetooth product portfolio
- 😵 Continuous development in progress...



HIR60

HIR60 with HA04 HIR60 with HA05



Hardware Features

- 5-in-1: Bluetooth 5.0 + Zhaga + D4i + PIR motion sensor + Daylight sensor
- Optional accessories for different mounting style
- MINI Super compact mini size
- Plug'n'Play via Zhaga Book 20 connection
- 5-year warranty
- IP65 IP65 rated design for HIR60/R
- Coming soon...





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Technical Specifications

| Bluetooth Transceiver | | PIR Sensor Properties (HIR60 & HIR60/R) | |
|------------------------|--------------------------------------|---|--|
| Operation frequency | 2.4 GHz - 2.483 GHz | Sensor principle | PIR detection |
| Transmission power | 4 dBm | Operation voltage | 9.5~22.5VDC |
| Range (Typical indoor) | 10~30m | Input current | Approx. 30mA |
| Protocol | ₿Bluetooth [®] 5.0 SIG Mesh | | HIR60 |
| Environment | | | Max installation height: 3m Max detection range (Ø): 12m |
| Operation temperature | Ta: -20°C ~ 50°C | | HIR60/R Max installation height: 8m Max detection range (Ø): 14m |
| Storage temperature | -40°C ~ +70°C | | |
| Relative humidity | 10~90% | Detection angle | 360° |
| IP rating | IP20 | i i chian angla | |

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

Optional Accessories



Mechanical Structure & Dimensions



Subject to change without notice.

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Wire Preparation





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

Wiring Diagram

DALI Driver



Detection Pattern





*The detection patterns are based upon 5km/h movement speed.

Additional Information / Documents

- 1. To learn more about detailed product features/functions, please refer to www.hytronik.com/download ->knowledge ->Introduction of App Scenes and Product Functions
- 2. 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
- 3. Regarding precautions for PIR Sensors installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->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 www.hytronik.com/products/bluetooth technology ->Bluetooth Sensors
- 5. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy

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