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...





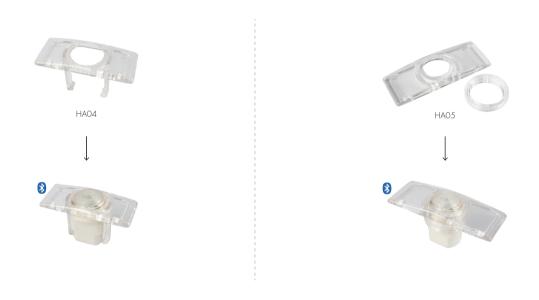
HYTRONIK ®

Technical Specifications

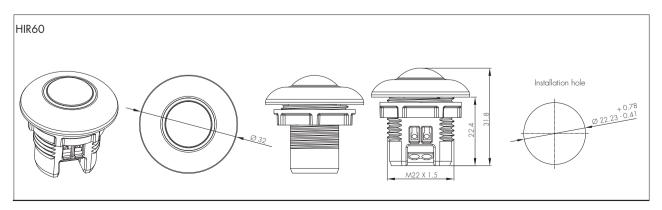
Bluetooth Transceiver		PIR Sensor Properties (HIR60 & HIR60/R)	
Operation frequency	2.4 GHz - 2.483 GHz	Sensor principle	PIR detection
Transmission power	4 dBm	Operation voltage	9.5~22.5VDC
Range (Typical indoor)	10~30m	Input current	Approx. 30mA
Protocol	₿Bluetooth [®] 5.0 SIG Mesh		HIR60
Environment			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

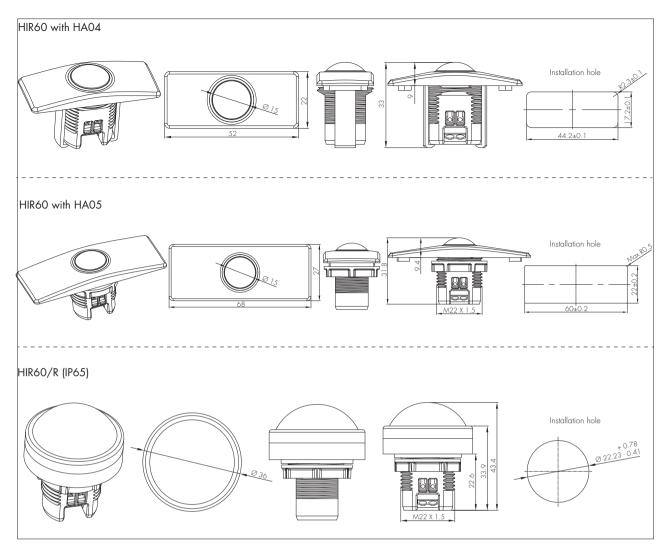


Mechanical Structure & Dimensions



Subject to change without notice.

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Wire Preparation

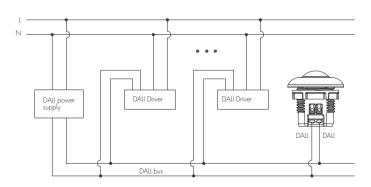




To make or release the wire from the terminal, use a screwdriver to push down the button.

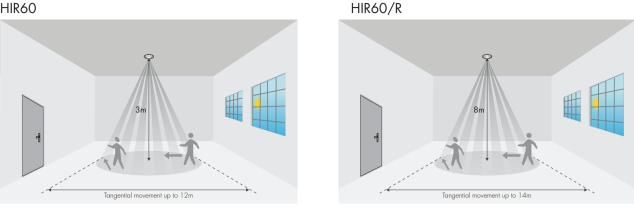
Wiring Diagram

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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