Installation and Instruction Manual



PIR Standalone Motion Sensor with Bluetooth 5.0 SIG Mesh

HBIR28/2CH

On/Off control with two independent relay channel outputs

1. Technical Specifications

Operation frequency	2.4 GHz - 2.483 GHz	
Transmission power	4 dBm	
Range (Typical indoor)	10~30m	
Protocol	Bluetooth® 5.0 SIG Mesh	
Operating voltage	220~240VAC 50/60Hz	
Stand-by power	<1W	
CH1:	400VA	
CH2:	24VDC≤2A, 250VAC≤2A	
Warming-up	20s	
Sensor principle	PIR detection	
Installation height (Max.)	6m	
Detection range (Ø)	9m	
Detection angle	360°	
Operation temperature	Ta:-20°C~+50°C	
IP rating	IP20/IP54	
EMC standard (EMC)	EN55015, EN61000, EN61547	
Safety standard (LVD)	EN60669-1/-2-1	
Salety Stanual (LVD)	AS/NZS60669-1/-2-1	
RED	EN300328, EN301489-1/-17	
Certification	CB, CE, EMC, RED, RCM	

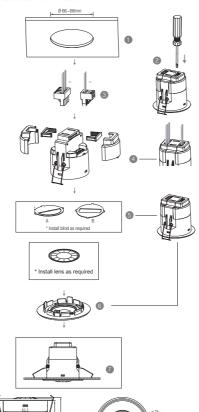
2. Download the App

Free App for set-up and commissioning



3. Installation

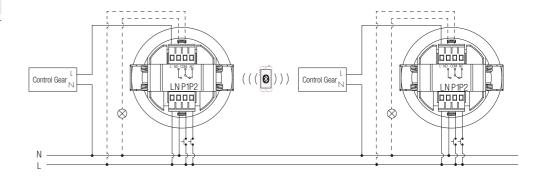
Mechanical Structure & Dimensions





- 2. Carefully prise off the cable clamps.
- 3. Make connections to the pluggable terminal blocks.
- Insert plug connectors and secure using the provided cable clamps, then clip terminal covers to the base.
- 5. Fit detection blind (if required) and desired lens.
- 6. Clip fascia to body.
- Bend back springs and insert into ceiling.

Wiring Diagram



Wire Preparation





Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor.





Subject to change without notice.

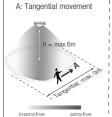
5. Detection Pattern & Optional Accessories

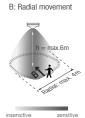
HBIR28/2CH (Low-bay)



HBIR28/2CH: Low-bay flat lens detection pattern for single person @ Ta = 20°C

(Recommended ceiling mount installation height 2.5m-6m)





T	
adial movement Mount height Tangential (A) Radial (B)	
2.5m max 50m² (Ø = 8m) max 13m² (Ø =	= 4m)
$h = \max_{max.6m} .6m$	= 4m)
4m max 38m² (Ø = 7m) max 13m² (Ø =	= 4m)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	= 4m)
ive sensitive 6m max 38m² (Ø = 7m) max 13m² (Ø =	= 4m)

ing/Surface Metal Mount Box: HA09/W, HA09/B, HA09/G



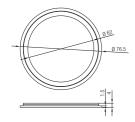








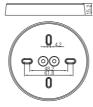
Small silicon water-proof gasket dimension(size:mm)















WWW.HYTRONIK.COM





Blind Option 2 --- 180° Detection

HYTRONIK

5. Dimming Interface Operation Notes

The provided Switch-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches. Detailed Push switch configurations can be set on Koolmesh app.

Switch Function	Action	Descriptions	
	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Recall a scene - Turn on only - Quit manual mode - Turn off only - Do nothing	
Push switch	Double push	- Turn on only - Quit manual mode - Turn off only - Do nothing - Recall a scene	
	Long press (≥1 second)	- Dimming - Colour tuning - Do nothing	
Sensor-link (VFC signal only)	/	- Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor	
Emergency Self-Test Function	Short press (<1 second) * Short press has to be longer than O.1s, or it will be invalid.	- Start Self test (Monthly) - Start Self test (Annually) - Stop Self test - Invalid	
	Long press (≥1 second)	- Start Self test (Monthly) - Start Self test (Annually) - Stop Self test - Invalid	
Fire Alarm (VFC signal only)	Refer to Kaalmesh* App User Manual V2.1	Able to connect the Fire Alarm system Once the fire alarm system is triggered, all the luminaries controlled by the Push Switch will enter the preset scene (normally it's full on), after the fire alarm system gives the ending signal, all the luminaries controlled by this Push Switch will revert back to normal status.	

6. 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. 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
- 4. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy

WWW.HYTRONIK.COM