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HYTRONIK HBIR29/2CH PIR Standalone Motion Sensor Instruction Manual

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Manual



PIR Standalone Motion Sensor with 5.0

DALI control with two independent channel outputs HBIR29/2CH

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Technical Specifications

Operation frequency 2.4 GHz – 2.483 GHz

Transmission power 4 dBm Range (Typical indoor) 10~30m

Warming-up 20s

Sensor principle PIR detection

 $\begin{array}{ll} \text{Installation height (Max.)} & \text{6m} \\ \text{Detection range (\emptyset)} & \text{9m} \\ \text{Detection angle} & 360^{\circ} \\ \end{array}$

Operation temperature Ta:-20 °C~+50 °C

IP rating IP20

EMC standard (EMC) EN55015, EN61000, EN61547
Safety standard (LVD) EN60669-1/-2-1, AS/NZS60669-1/-2-1

RED EN300328, EN301489-1/-17
Certification CB, CE , EMC, RED, RCM, UKCA

Download the App

Free App for set-up and commissioning











for iOS



for Android





for iPad

https://apps.apple.com/cn/app/koolmesh/id1570378349



for Web

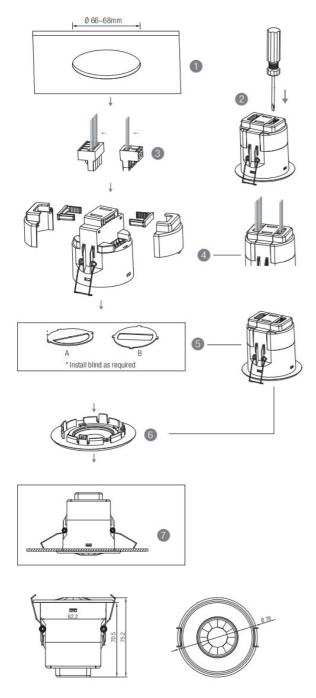
http://www.iot.koolmesh.com



Koolmesh Pro app for iPad

Installation

Mechanical Structure & Dimensions

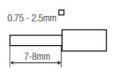


- 1. Ceiling (drill hole φ66~68mm)
- 2. Carefully prise off the cable clamps.
- 3. Make connections to the pluggable terminal blocks.
- 4. Insert plug connectors and secure using the provided cable clamps, then clip terminal covers to the base.
- 5. Fit detection blind (if required) and desired lens.
- 6. Clip fascia to body.
- 7. Bend back springs and insert into ceiling.

Wire Preparation

Wire Preparation

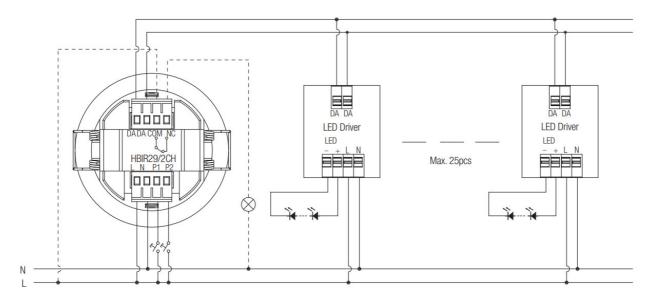




Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor.

- 1. 200 metres (total) max. for 1mm² CSA (Ta = 50 $^{\circ}$ C)
- 2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50 °C)

Wiring Diagram



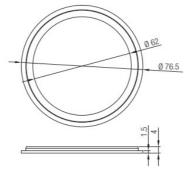
Dimming Interface Operation Notes

Switch-Dim

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.

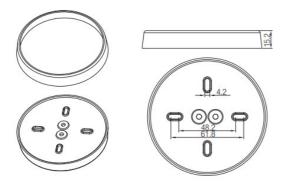
Switch Function	Action	Descriptions
Push switch	Short press (<1 second) 'Short press has to be longer than 0.1s, or it v be invalid.	– Turn on/off – Recall a scene vill – Turn on only – Exit manual mode – Turn off only – Do nothing
	Double push	– Turn on only – Exit manual mode – Turn off only – Do nothing – Recall a scene
	Long press (1 second) Colour tuning	Dimming –Do nothing
Simulate sensor	/	Upgrade a normal ort/off motion sensor to a Bluetooth controlled motion sensor

Big and small silicon gasket used to make IP54 degree protection when HBIR29/2CH series device mounted into HA03 housing for ceiling mount



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

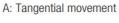
Big silicon water-proof gasket dimension(size:mm)

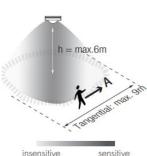


HBIR29/2CH (Low-bay)

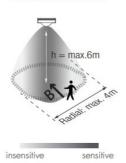


HBIR29/2CH: Low-bay flat lens detection pattern for single person @ Ta = 20 °C (Recommended ceiling mount installation height 2.5m-6m)





B: Radial movement



Mount height	Tangential (A)	Radial (B)
2.5m	$\max 50m2 (\emptyset = 9m)$	max 13m2 (Ø = 4m)
3m	max 64m2 (\emptyset = 10m)	max 13m2 (Ø = 4m)
4m	max $38m2 (Ø = 8m)$	max 13m2 (Ø = 4m)
5m	max $38m2 (Ø = 8m)$	max 13m2 (Ø = 4m)
6m	$\max 38m \ (\emptyset = 8m)$	max 13m2 ($\emptyset = 4m$)

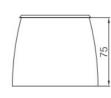
Ceiling/Surface Mount Accessory HA03: Default IP20, IP65 can be request with extra big & small water-proof gaskets

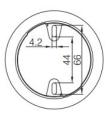












Optional Accessory — Blind Insert for Blocking Certain Detection Angles











Blind Option 2 --- 180° Detection

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

Subject to change without notice. HBIR29/2CH-20220424-A0



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References

- $\overline{\mathbb{W}}$ Microwave sensor_Microwave motion sensor_Hytronik Electronics Co., Ltd. $\overline{\mathbb{W}}$ Catalogue_Hytronik
- Diot.koolmesh.com

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