

# **HYTRONIK HBIR29 PIR Standalone Motion Sensor Instruction Manual**

Home » HYTRONIK » HYTRONIK HBIR29 PIR Standalone Motion Sensor Instruction Manual





#### HBIR29

**Installation and Instruction Manual** PIR Standalone Motion Sensor with 5.0 SIG Mesh **One DALI Channel Output** 

#### **Contents**

- 1 Technical Specifications
- 2 Download the App
- 3 Dimming Interface Operation Notes Switch-Dim
- 4 Installation
- **5 Detection Range**
- **6 Additional Information / Documents**
- 7 Documents / Resources
  - 7.1 References
- **8 Related Posts**

## **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	
Stand-by power	<1W	
Operating voltage	220~240VAC 50/60Hz	
Switched power	20s	
Warming-up	Max. 40 devices, 80mA	
Sensor principle	PIR detection	
Detection range (Max.)* HBIR29	Installation Height : 5m Detection Range (Ø) :10m @ 3m height	
Detection range (Max.)* HBIR29/H	Installation height 15m (forklift) 12m (person) Detection range (Ø) 20m	
Detection angle	360 °	
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	

# **Download the App**

Free App for set-up and commissioning

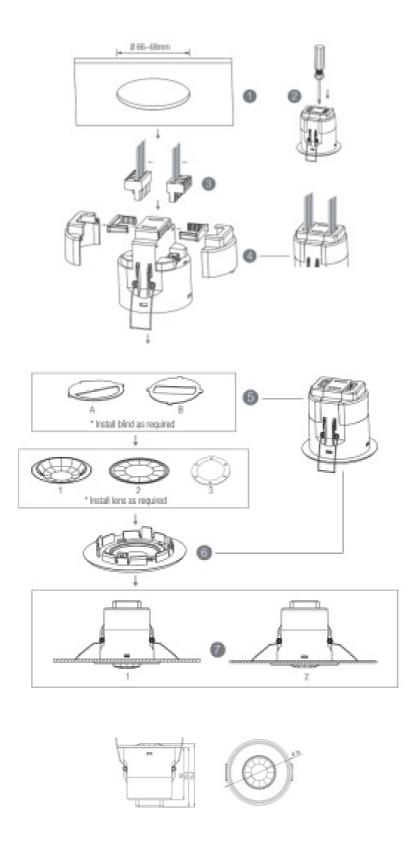


# **Dimming Interface Operation Notes Switch-Dim**

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.

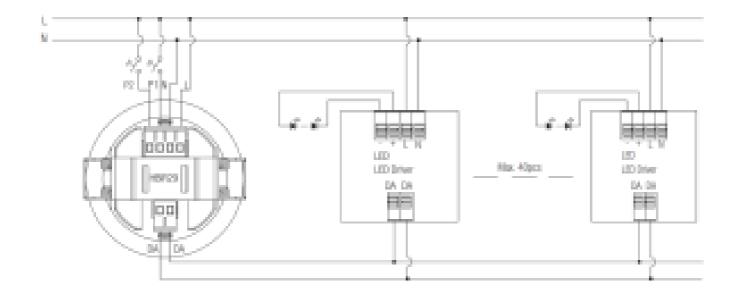
Switch Function	Action	Descriptions	
Push switch	Short press (<1 second)  * Short press has to be longer than 0.  1s, or it will be invalid.	<ul> <li>Turn on/off</li> <li>Recall a scene</li> <li>Turn on only</li> <li>Exit manual mode</li> <li>Turn off only</li> <li>Do nothing</li> </ul>	
	Double push	<ul> <li>Turn on only</li> <li>Exit manual mode</li> <li>Turn off only</li> <li>Do nothing</li> <li>Recall a scene</li> </ul>	
	Long press (1 second)	<ul><li>Dimming</li><li>Colour tuning</li><li>Do nothing</li></ul>	
Simulate sensor	/	Upgrade a normal on/off motion sensor to a     Bluetooth controlled motion sensor	

### Installation

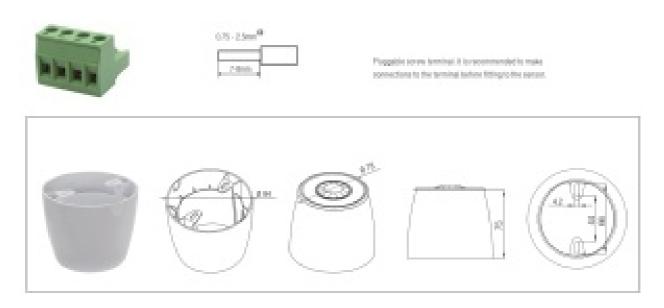


- 1. Ceiling (drill hole φ66~68mm)
- 2. Carefully prise off the cable clamps.
- 3. Make connections to the pluggable terminal blocks.
- 4. Insert plug connectors and secure using the provided cable clamps, then clip terminal covers to the base.
- 5. Fit detection blind (if required) and desired lens.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

## Wiring Diagram



# Wire Preparation



# **Detection Range**

HBIR29

Lens	Max. Detection	With Blind A	With Blind B
Convex	Height: 3m	Height: 3m	Height: 3m
	Max. range (0):10m	Max. range (0): 5m	Max. range (0): 8m
Flat	Height 3m	Height 3m	Height: 3m
	Max. range (0): 9m	Max. range (0): 4.5m	Max. range (0): 7m

		Installation height	15m (forklift)
		mstallation neight	12m (person)
		Detection range (0)	20m

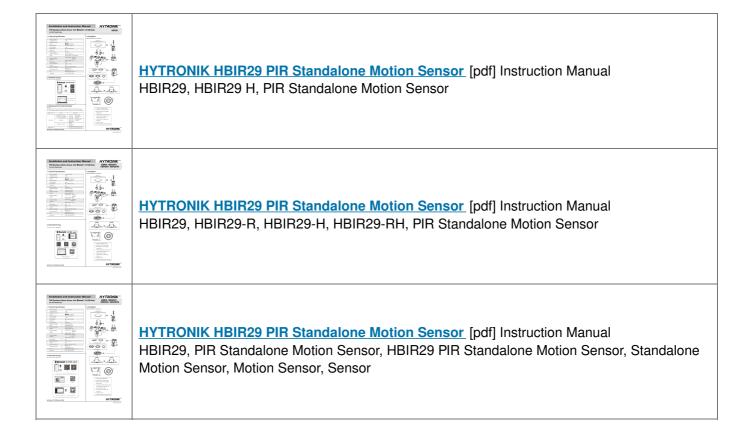
#### **Additional Information / Documents**

- 1. To learn more about detailed product features/functions, please refer to www.hytronik.com/download >knowledge ->Introduction of App Scenes and Product FunctionsInstallation
- 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**

Subject to change without notice. HBIR29-20200316-A0



#### References

- Microwave sensor\_Microwave motion sensor\_Hytronik Electronics Co., Ltd.
- **®** Catalogue Hytronik
- iot.koolmesh.com

Manuals+,