# **Installation and Instruction Manual**



Multi-Directional PIR Sensor with Bluetooth 5.0 SIG Mesh

### HBIR29/AA

## 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	
DALI bus power supply	I guaranteed : 64mA I max : 80mA U rated : 15VDC	
Sensor principle	PIR detection	
Detection range	Installation height : 3m Max. diameter (Ø) :12m	
Detection angle	360°	
Operation temperature	Ta:-15°C~+45°C	
IP rating	IP20	

### 3. Installation

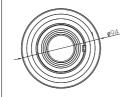
Mechanical Structure & Dimensions

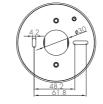


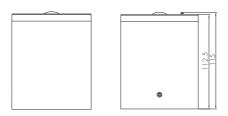
## 2. Download the App

Free App for set-up and commissioning







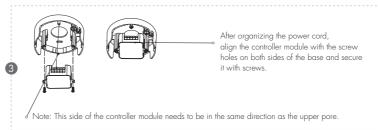


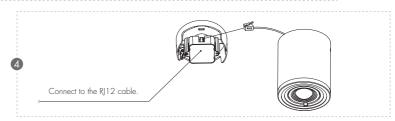


Lock the base onto the ceiling(or wall) with screws in advance, and lead out the power cord through the circular hole in the middle.

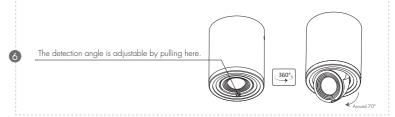












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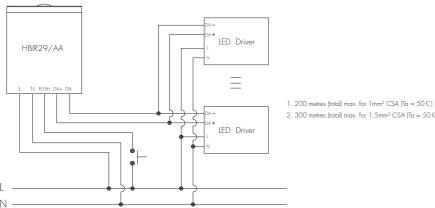
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#### Wiring Diagram

Note: It is recommended that the wiring length be > 100mm for installation convenience.



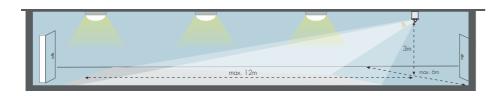
- 2. 300 metres (total) max. for 1.5mm<sup>2</sup> CSA (Ta = 50°C)

-This product should be installed by a qualified electrician.

### 4. Detection Pattern

Sensitivity set to maximum, Sensor head angle set to maximum

Installation height: 3m



# Placement Guide and Typical Range

Smart Phone to Device Range



The smart device with the App installed will have a typical range of 10m, but varies from device to device. During commissioning, the installer will need to be in range of the devices when searching for devices to add to the network.

Once the devices have been added to the network via the App, the devices will start communicating within the wireless mesh. This means that once the network is complete, all devices are accessible from the smart device when in a 20m range of a single point.

### 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 only	- Recall a scene - Quit manual mode - Do nothing
Push switch	Double push		- Quit manual mode - Do nothing
	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) - Stop Self test	- Start Self test (Annually) - Invalid
	Long press (≥1 second)	- Start Self test (Monthly) - Stop Self test	- Start Self test (Annually) - Invalid
Fire Alarm (VFC signal only)	Refer to <b>Kaoimesh</b> " 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





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