HYTRONIK HBIR29-AA Bluetooth Multi-Directional PIR Sensor Instruction Manual

HYTRONIK ®

HBIR29/AA
Installation and Instruction Manual
Multi-Directional PIR Sensor with Bluetooth® 5.0 SIG Mesh
DALI Output

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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
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

Download the App

Free App for set-up and commissioning

Bluetooth 5.0 SIG mesh

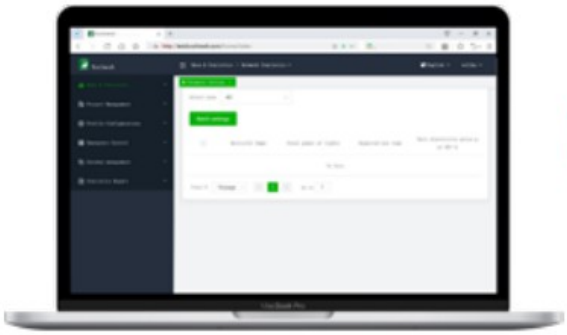
https://apps.apple.com/cn/app/koolmesh/id1483721878
https://play.google.com/store/apps/details?id=com.koolmesh.sig

Smartphone app for both iOS & Android platform

for iPad

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

Koolmesh Pro app for iPad



Web

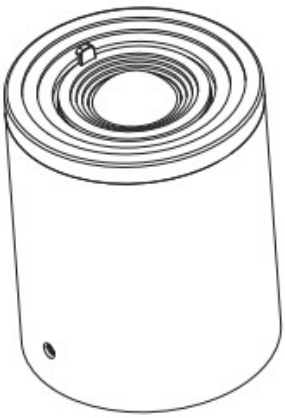
for Web

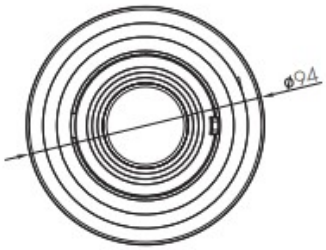
http://www.iot.koolmesh.com

Web app/platform: www.iot.koolmesh.com

Installation

Mechanical Structure & Dimensions

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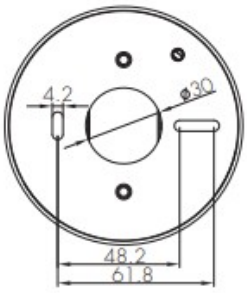
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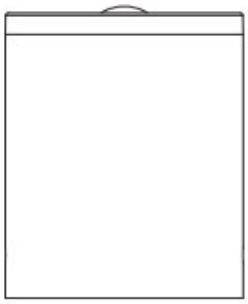

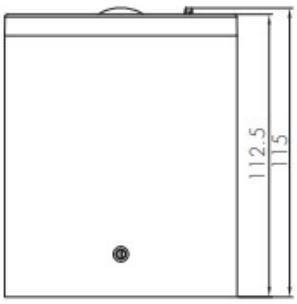
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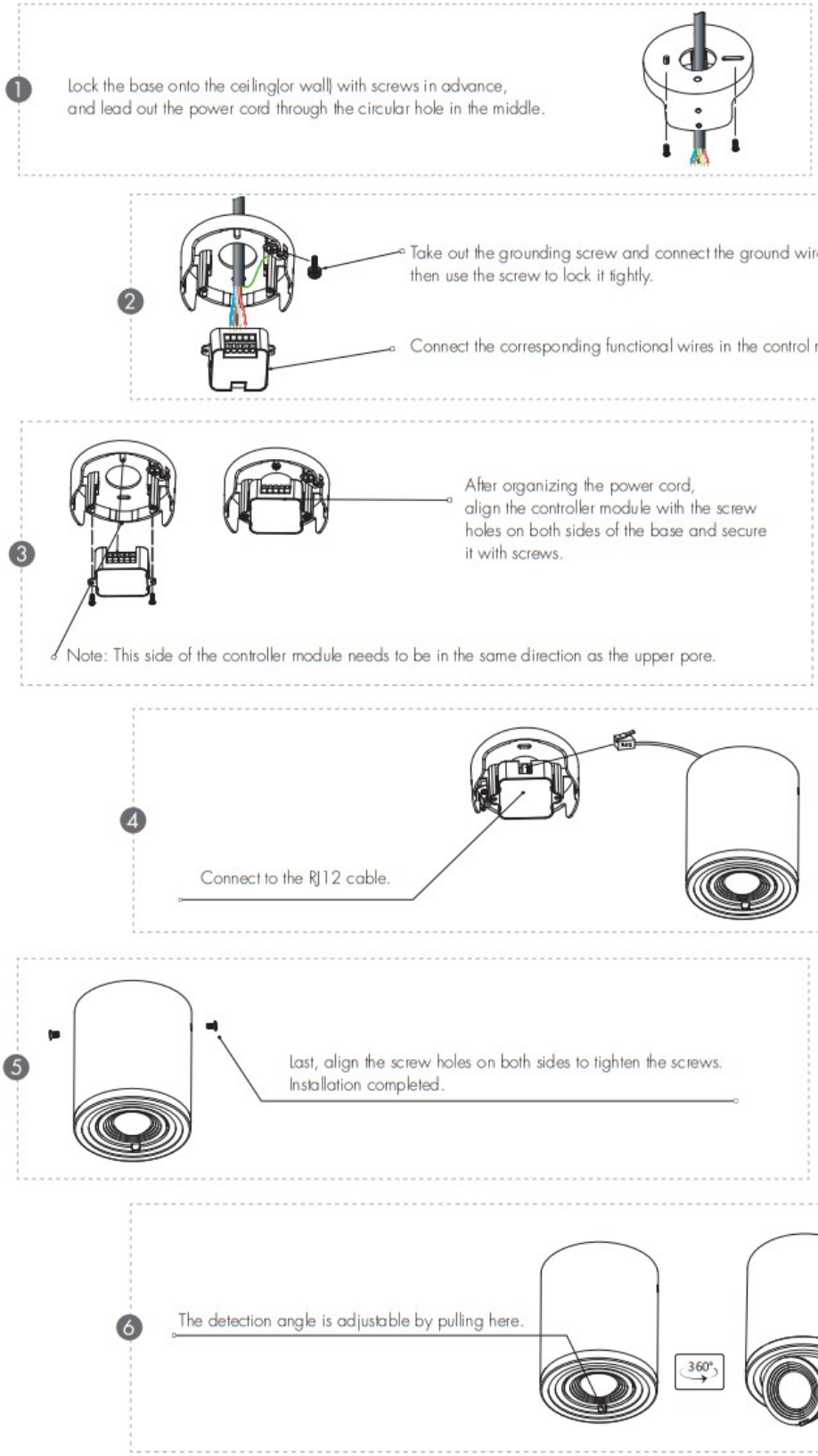
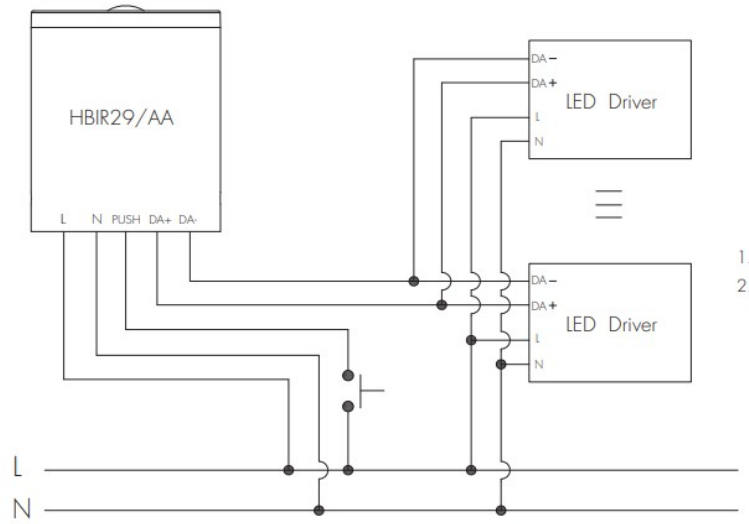


Wiring Diagram

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

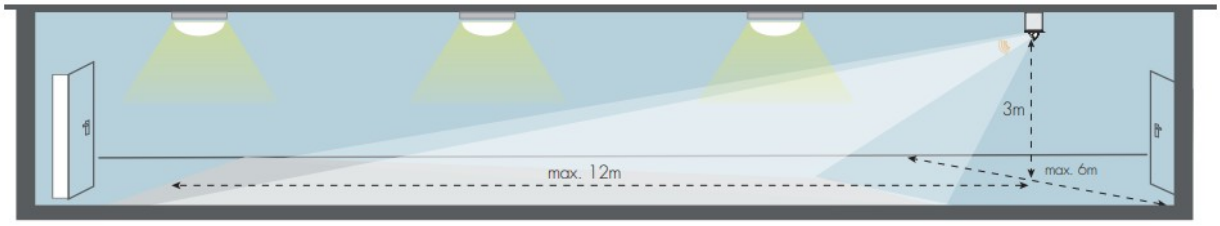


1. 200 metres (total) max. for 1mm² CSA (Ta = 50℃)
2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50℃)

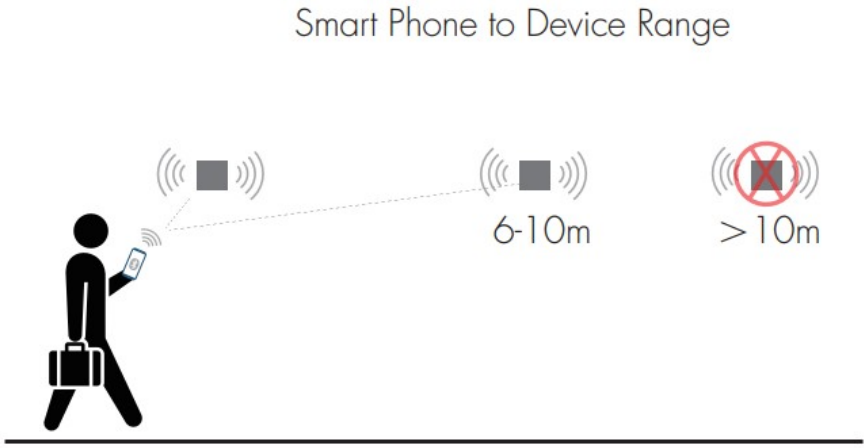
This product should be installed by a qualified electrician.

Detection Pattern

Sensitivity set to maximum, Sensor head angle set to maximum
Installation height: 3m



Placement Guide and Typical 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.

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 tha n 0.1s, or it will be invalid.	– Turn on/off – Recall a scene – Turn on only – Quit manual mode – Turn off only – Do nothing
	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 o nly)	/	– Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor
Emergency Self-Test Fun ction	Short press (<1 second) * Short press has to be longer tha n 0.1s, or it will be invalid.	– Start Self test(Monthly) – Start Self test (Annually) – Stop Self test – Invalid
	Long press (l second)	– Start Self test (Monthly) – Start Self test (Annually) – Stop Self test – Invalid
Fire Alarm fVFC signal on ly(	Refer to Koolmesh™ App U ser Manual V2.1	– Able to connect the Fire Alarm system – Once the fire alarm system is triggered, all th e luminaries controlled by the Push Switch will enter the preset scene (normally it's full on), af ter the fire alarm system gives the ending sign al, all the luminaries controlled by this Push S witch will revert back to normal status.

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.
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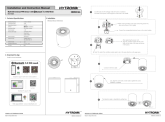
Documents / Resources

	HYTRONIK HBIR29-AA Bluetooth Multi-Directional PIR Sensor [pdf] Instruction Manual HBIR29-AA Bluetooth Multi-Directional PIR Sensor, HBIR29-AA, Bluetooth Multi-Directional PIR Sensor, Multi-Directional PIR Sensor, Directional PIR Sensor, PIR Sensor, Sensor

References

- Microwave sensor_Microwave motion sensor_Hytronik Electronics Co., Ltd.
- Catalogue_Hytronik
- iot.koolmesh.com

Manuals+,