Installation and Instruction Manual

PIR Standalone Motion Sensor with Bluetooth[®] 5.0 SIG Mesh Two DALI Channels Output

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 Channel 1	50mA, Max. 25 LED drivers	
DALI Channel 2	30mA, Max. 15 LED drivers	
Sensor principle	PIR detection	
Detection range (Max.)*	Installation Height : 6m	
HBHC25	Detection Range (Ø) :9m	
Detection angle	360°	
Operation temperature	Ta:-20°C~+50°C	
IP rating	IP20	
EMC standard (EMC)	EN55015, EN61000, EN61547	
0.(.)	EN60669-1/-2-1	
Safety standard (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





HYTRONIK ®

HBHC25

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HBHC25-20200302-A0



Wire Preparation

Wiring Diagram





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 $^\circ C$)

4. Detection Pattern & Optional Accessories

acement Guide and Typical Rang



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.





Subject to change without notice.

HBHC25 (Low-bay)



5. 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	
	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 0.1s,	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Start Self test (Monthly) - Start Self test (Annuc - Stop Self test - Invalid	ally)
	Long press (≥1 second)	- Start Self test (Monthly) - Start Self test (Annua - Stop Self test - Invalid	ally)
Fire Alarm (VFC signal only)	Refer to Koolmesh [®] App User Manual V2.1	 Able to connect the Fire Alarm system Once the fire alarm system is triggered, all the l controlled by the Push Switch will enter the press (normally it's full on), after the fire alarm system gives the signal, all the luminaries controlled by this Push Switch back to normal status. 	set scer ne endir

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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