

HEC7030/BF+HIR62

DALI DT6 LED Driver + Bluetooth PIR Lowbay Sensor Head

Subject to change without notice.

Installation & Quick Start Guide

Date: 18.08.2026

Edition: A1

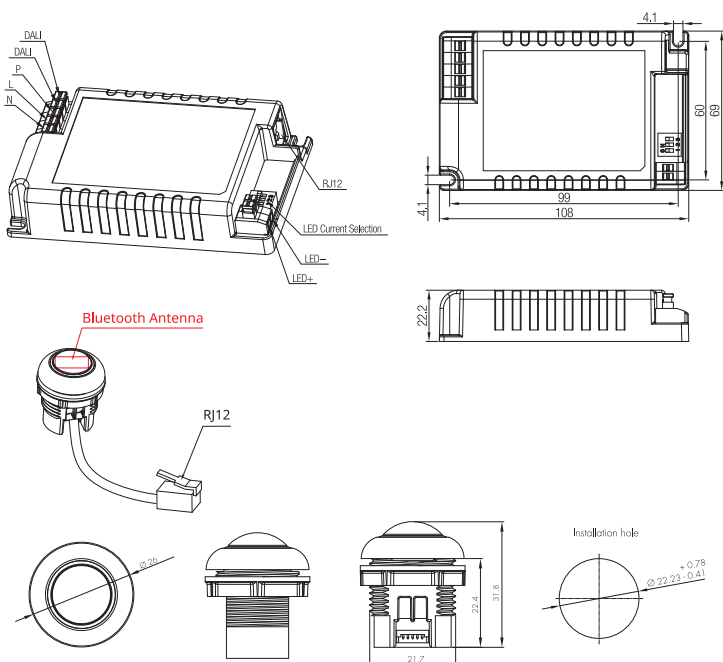
1 Safety Information



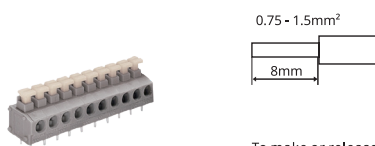
WARNING

- Installation by a qualified electrician only and in accordance with local electrical regulations.
- Disconnect mains power before installation, wiring, maintenance or replacement.
- Failure to follow the wiring diagram may result in product damage and malfunction.
- Refer to the Wire Preparation section for recommended wire diameter and strip length.
- Push inputs are mains-voltage inputs and must only be connected to mains-rated switches.
- Do not connect mains voltage (L/N) to the DALI terminals.
- For non-polarity-marked DALI terminals (DA/DA), DALI wiring is polarity-free.
- HIR62 is equipped with a built-in Bluetooth antenna. When the device is installed in a ceiling or recessed environment, ensure that the sensor head remains exposed and is not covered by metal structures or dense building materials, as this may affect Bluetooth communication performance. For optimal signal reliability, avoid installing the device inside fully enclosed metal housings or areas with strong signal interference.

3 Technical Drawing (Unit: mm)

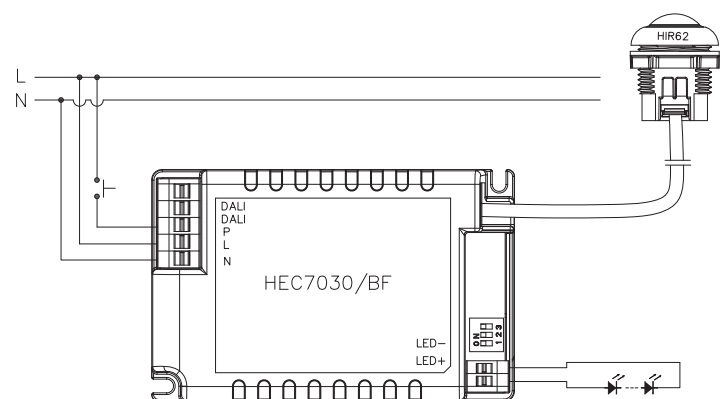


4 Wire Preparation



To make or release the wire from the terminal, use a screwdriver to push down the button.

5 Wiring Diagram

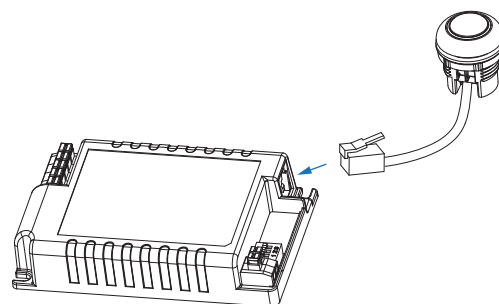


2 Specifications

HEC7030/BF	
Dimming Interface	Switch-Dim/DALI
Operating voltage range	220-240 VAC 50/60 Hz
Mains Current	0.17~0.16A
Power Factor	0.9
Max. Efficiency	86%
Output Current	350mA~900mA
Output Voltage	10-57V
Uout Max.	75V
Turn-on Time	<0.5s
Operation Temp.	-20 ~ +50°C
Case Temp. (Max.)	80°C
IP Rating	IP20
HIR62	
Dimming (Output) Interface	DALI
Connector Type	RJ12
Bluetooth Platform	Nordic nRF52832
Bluetooth frequency	2.4 GHz - 2.483 GHz
Bluetooth range	10-30m
Bluetooth transmit power	4 dBm
Bluetooth system	Koolmesh
Operating voltage range	5 VDC
Warming-up	20 s
Detection angle	360°
Lux range	<1000 lux
Max. Detection range (Diameter)	12.0 m
Maximum Mounting Height	3.0 m
Ambient temperature	-20 ~ +50 °C
Storage temperature	-40 ~ +70 °C
Humidity max	10 ~ 90%
IP Rate	IP20

6 Installation Process

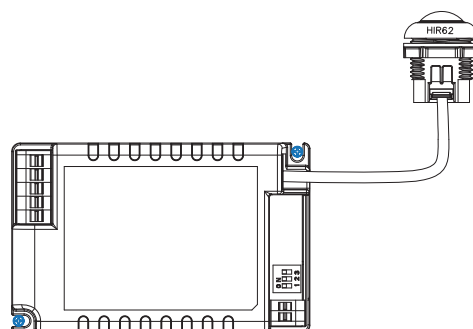
1



Connecting the RJ12 Sensor Cable

- Align the RJ12 connector of the sensor cable with the RJ12 port on the side of the device. Push firmly until a "click" is heard, indicating the connector is securely locked in place.

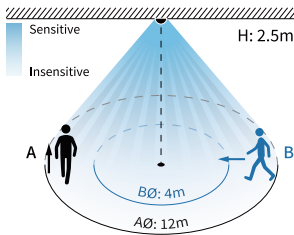
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Screw Mounting

- Fix the unit securely in place with two fixing screws and ensure it is firmly mounted.

7 Detection Range (Only HIR62)



A. Tangential Movement

H[m]	2.5
Ø[m]	12

B. Radial Movement

H[m]	2.5
Ø[m]	4

8 Koolmesh App Guide & Bluetooth Range



For additional information, please refer to:
<http://faq.koolmesh.com/>



iOS



Android

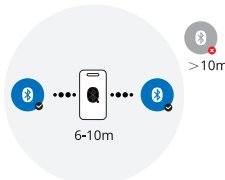


iPad



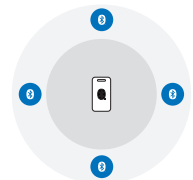
Web

1 Phone/Pad to Device



During commissioning, the installer must remain within Bluetooth range of the target device when adding it via the App.

2 Device to Device



After commissioning, devices communicate through the mesh network. Users can access the network by connecting to any active mesh node.

9 Switch Input Function Configuration

The provided push switch interface supports commercially available non-latching (momentary) and latching wall switches when configured accordingly. Push switch functions can be configured via the Koolmesh App. For detailed information on connection, configuration and operation with Bluetooth sensors, dimmers and other compatible devices, please refer to the Bluetooth Device & Push Switch Application Guide.

Note: Single press, double press and press-and-hold actions can each be assigned to an individual function via the app. Once configured, each action triggers only its assigned function. A single action cannot activate multiple functions.

Switch function	Action	Description
Fire Alarm Function	Refer to https://support.koolmesh.com/	- Can be connected to a fire alarm system. - Once the fire alarm system is triggered, all luminaires controlled by the Push Switch will enter the preset scene (normally full ON). When the fire alarm system sends the end signal, all luminaires controlled by the Push Switch will return to normal operation.
ON/OFF Switch (Latching Switch)	/	Upgrade a standard on/off control to Bluetooth control, enabling one latching switch to control multiple luminaires or zones while reducing wiring and the number of switches required.
Normal PUSH (Retractive Switch)	Single press (> 0.1s) Double press Press and hold (>= 1s)	- ON/OFF - ON only - OFF only - Recall this scene - Sensor take over - Not in use
Sensor-Link	/	- Hold time/scene - Stand-by time/scene - Upgrade a normal on/off motion sensor to a Bluetooth-controlled motion sensor

10 Default Settings (Factory Settings)

Sensor Setting		Push Switch Setting	
Control Object	Zone	Push Switch Function	Normal PUSH (Retractive switch)
Sensor Status	Sensor ON	Control Object	Zone
Detection Range	100%	Single Press	ON/OFF
Hold Time	20min	Double Press	Disable
Hold Time Dimming Level	ALL ON	Press and Hold	Brightness dimming
Stand-by Time	5s	Driver Setting	
Stand-by Dimming Level	10%	Dimming Method	DT6
Sensor Mode	Auto	Load type	Logarithm
Mode in Priority	Manual prior to sensor	DALI Dimming mode	standard DALI Dimming
		Brightness level range	1%-100%

11 Troubleshooting (Only HIR62)

Malfunction	Possible Cause	Remedy
Fixture does not light up	Incorrect daylight threshold setting	Adjust daylight threshold setting
	Faulty fixture	Replace fixture
	No power supply	Check power to sensor
	Detection zone not targeted	Check detection area setting
Fixture is always on	Continued movement in the detection zone	Check detection area setting
Fixture turns on unexpectedly	Sudden temperature change, airflow, open windows or weather influence	Adjust zone, change installation site