

1. Technical Specifications

Product type	Bluetooth DALI Dimmer
Mains voltage	220–240VAC 50/60Hz
Rated load	Max:100mA, 50 LED Drivers
Stand-by power	<0.5W
Operation frequency	2.4 GHz – 2.483 GHz
Transmission power	4 dBm
Range (Typical)	10 – 30m
Protocol	Bluetooth 5.0 SIG Mesh
Operation temperature	Ta: -20°C – +45°C
Case temperature (Max.)	Tc: +75°C
Storage temperature	-20°C – +60°C
Max. relative humidity	20 – 90%
IP rating	IP20
Impulse withstand voltage	2.5KV
Duty type	S1
Insulation material	PTI material group IIIa
Glow wire	Level 3, 850°C
Protection	Built-in protection provided
Insulation	Class II
EMC standard (EMC)	EN55015, EN61547, EN61000-3-2, EN61000-3-3
Safety standard (LVD)	IEC 61058-1, EN 61058-1, IEC 61058-1-2 EN 61058-1-2, AS/NZS 61058.1
Radio Equipment (RED)	EN300 328, EN301489-1, EN301489-17, EN62479

2. Download the App

Free App for set-up and commissioning

Bluetooth 5.0 SIG mesh



iOS



Android



for iOS



for Android

Smartphone app for both iOS & Android platform





for iPad

Koolmesh Pro app for iPad



Web



for Web

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

3. Dimming Interface Operation Notes

Switch-Dim

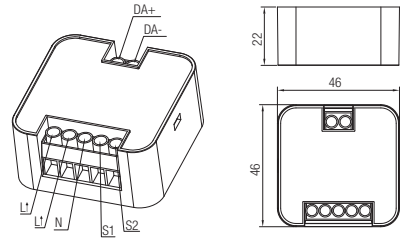
The provided Switch-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches. Detailed Push switch configurations can be set on Koolmesh app.

Switch Function	Action	Descriptions
Push switch	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Recall a scene - Turn on only - Exit manual mode - Turn off only - Do nothing
	Double push	- Turn on only - Exit manual mode - Turn off only - Do nothing - Recall a scene
Simulate sensor	Long press (≥1 second)	- Dimming - Colour tuning - Do nothing
	/	- Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor

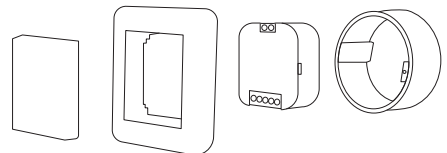
4. Installation

⚠ Warnings:

1. Installation must be carried out by a qualified engineer in accordance with local regulations.
2. Disconnect power supply before installing.
3. Ensure environmental conditions are suitable for electronic equipment



Typical Switch Box Mounting



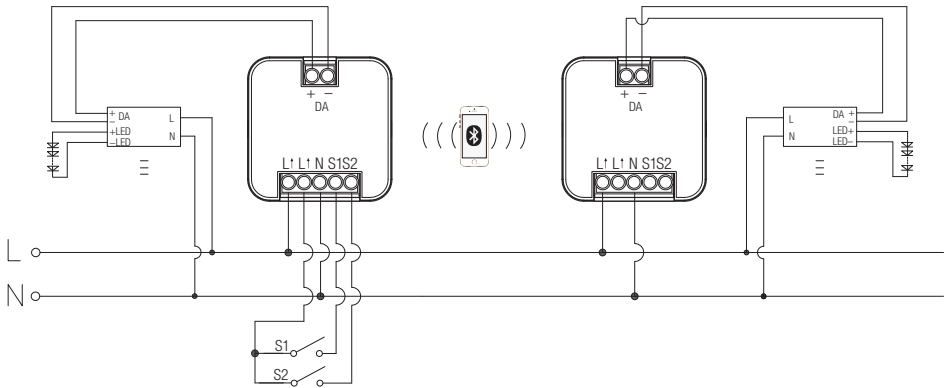
Wire Preparation



Rising clamp terminal.

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

Wiring Diagram



5. 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 Dimmers
4. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy