

1. Technical Specifications

Product type	Bluetooth® Wireless Trailing Edge Dimmer Module
Mains voltage	230VAC 50Hz
Load	2x100VA (Capacitive) / 2x150W (Resistive)
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: +80°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)	EN300328, EN301489-1, EN301489-17, EN62479

2. Download the App

Free App for set-up and commissioning

Bluetooth 5.0 SIG mesh



Android



iOS



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

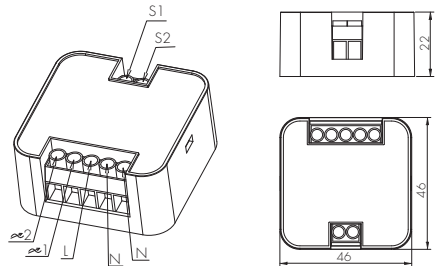
The provided Switch-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches. Detailed Push switch configurations can be set on Koolmesh app.

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
	Long press (≥1 second)	- Dimming - Colour tuning - Do nothing
Simulate sensor	/	- Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor

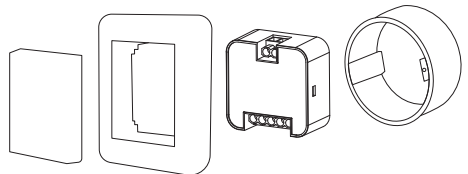
4. Installation

⚠ 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.

