Installation and Instruction Manual

HYTRONIK®

Bluetooth Receiver Node - 1-10V VERSION
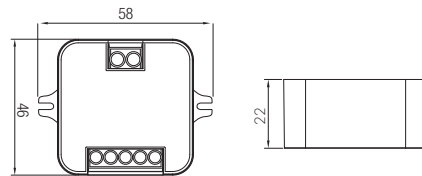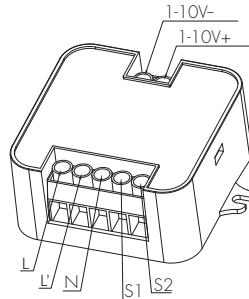HBTD8200V/F

1. Technical Specifications

Product type	Bluetooth® 1-10V Receiver Node (Flush mount)
Mains voltage	220~240VAC 50Hz
Rated load	400VA(Capacitive); 800W(Resistive)
Max. load (0/1-10V)	50mA
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 provide
Type of switch	Single load(single-ploe disconnection)
Insulation	Class II

2. Download the App

Free App for set-up and commissioning

Bluetooth 5.0 SIG mesh

iOS
Android

for iOS   for Android

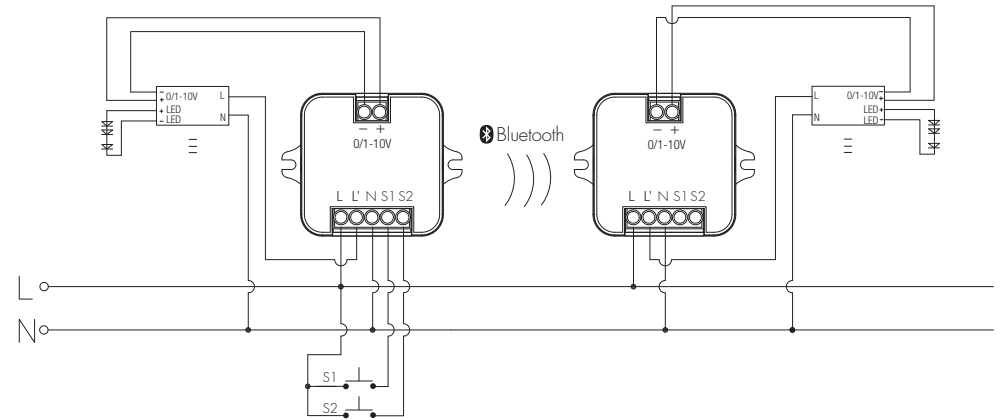Smartphone app for both iOS & Android platform

for iPad

Koolmesh Pro app for iPad

Web

for Web

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

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.

1-10V−
1-10V+

L L' N   S1 S2

58
46
22

Wire Preparation

Rising clamp terminal.

0.75 - 4mm
8mm

Wiring Diagram

──── This product should be installed by a qualified electrician.

4. 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 - Turn on only - Turn off only	- Recall a scene - Quit manual mode - Do nothing
	Double push	- Turn on only - Turn off only - Recall a scene	- Quit manual mode - Do nothing
	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	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Start Self test (Monthly) - Stop Self test	- Start Self test (Annually) - Invalid
	Long press (≥1 second)	- Start Self test (Monthly) - Stop Self test	- Start Self test (Annually) - Invalid
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 luminaries controlled by the Push Switch will enter the preset scene (normally it's full on), after the fire alarm system gives the ending signal, all the luminaries controlled by this Push Switch will revert back to normal status.	

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

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