Manuals+ — User Manuals Simplified.

HYTRONIK HBTD8200T Wireless Dimmer – 150VA Trailing Edge Version Instruction Manual

Contents

HYTRONIK ®

HYTRONIK HBTD8200T Wireless Dimmer – 150VA Trailing Edge Version

Technical Specifications

- Product type: Wireless Trailing Edge Dimmer Module
- Mains voltage: 230VAC 50Hz
- Rated load: 2x100VA (Capacitive) / 2x150W (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: 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 provide

- 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

Download the App

Free App for set-up and commissioning

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.
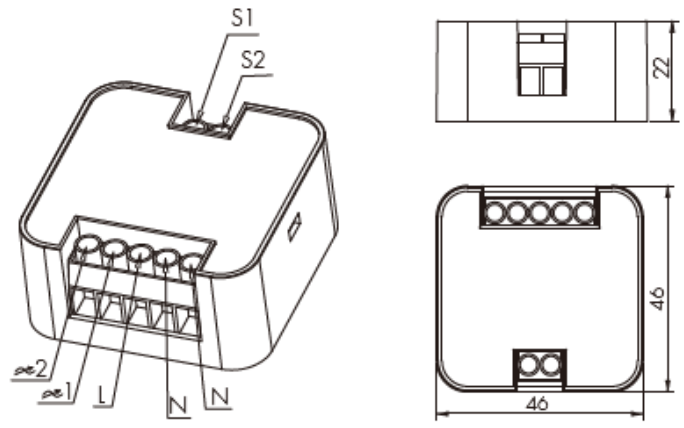
Switch Function	Action	Descriptions
	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	– Turn on/off – Recall a scene – Turn on only – Exit manual mode – Turn off only – Do nothing
	Double push	– Turn on only – Exit manual mode – Turn off only – Do nothing – Recall a scene
Push switch		

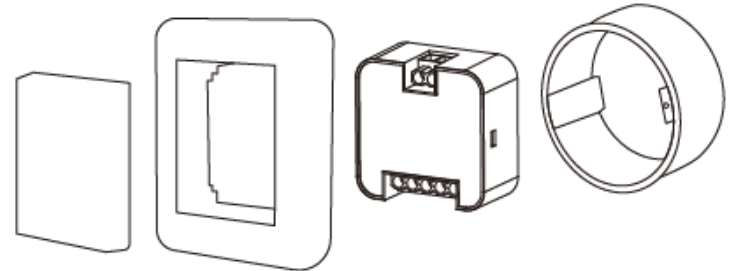|		
	Long press (≥1 second)	– Dimming – Colour tuning – Do nothing
Simulate sensor	/	– Upgrade a normal on/off motion sensor to a Bluetooth controlled motion sensor

Installation

Warnings:

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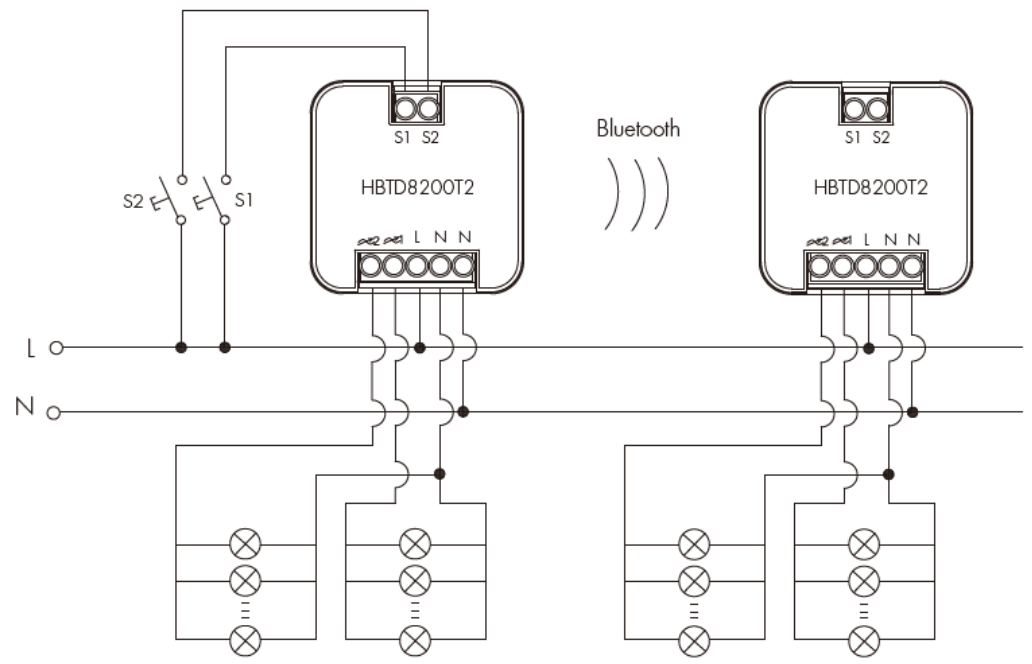3. Ensure environmental conditions are suitable for electronic equipment.

S1
S2

22

46

46

∝2
∝1 L N N

Typical Switch Box Mounting

Wire Preparation

Rising clamp terminal.

0.75 - 4mm□

8mm

Wiring Diagram

S1 S2

Bluetooth

S1 S2

HBTD8200T2

HBTD8200T2

S2 ⊢ ⊢ S1

∝2∝1 L N N

∝2∝1 L N N

L ○

N ○

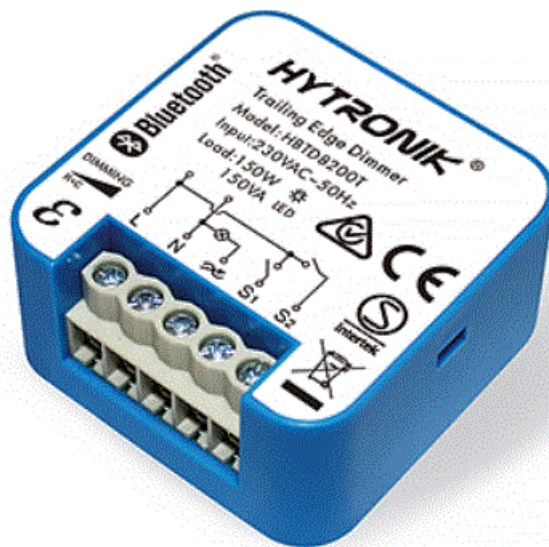# Additional Information / Documents

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 Sensor ->Receiver Nodes
4. Regarding Hytronik standard guarantee policy, please refer to **www.hytronik.com/download** ->knowledge -
   >Hytronik Standard Guarantee Policy

www.HYTRONIK.COM

r – 150VA Trailing Edge Version

Technical Specifications

Product type	🅱 Bluetooth® Wireless Trailing Edge Dimmer Module
Mains voltage	230VAC 50Hz
Load	1-150VA (Capacitive) / 1-150W (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
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EMC standard (EMC)	EN55015, EN61547, EN61000-3-2, EN61000-3-3
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Smartphone app for both iOS & Android platform

Koolmesh Pro app for iPad

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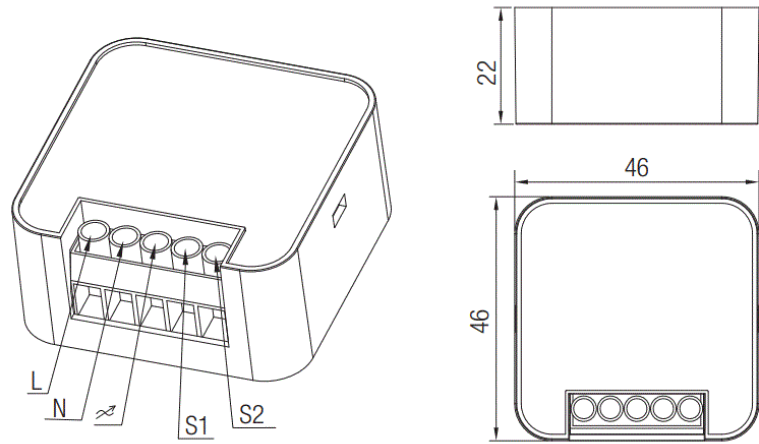
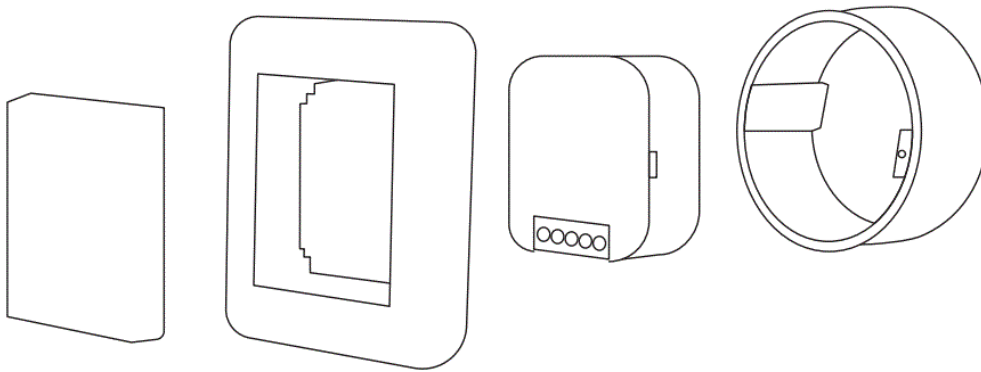| Switch Function	Action	Descriptions
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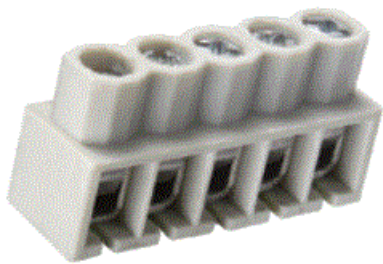
2. Disconnect power supply before installing.

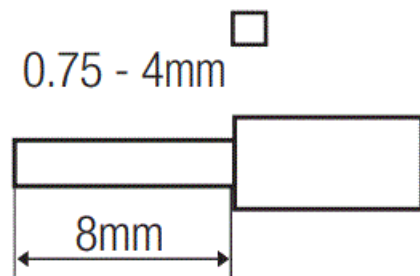3. Ensure environmental conditions are suitable for electronic equipment.

Typical Switch Box Mounting
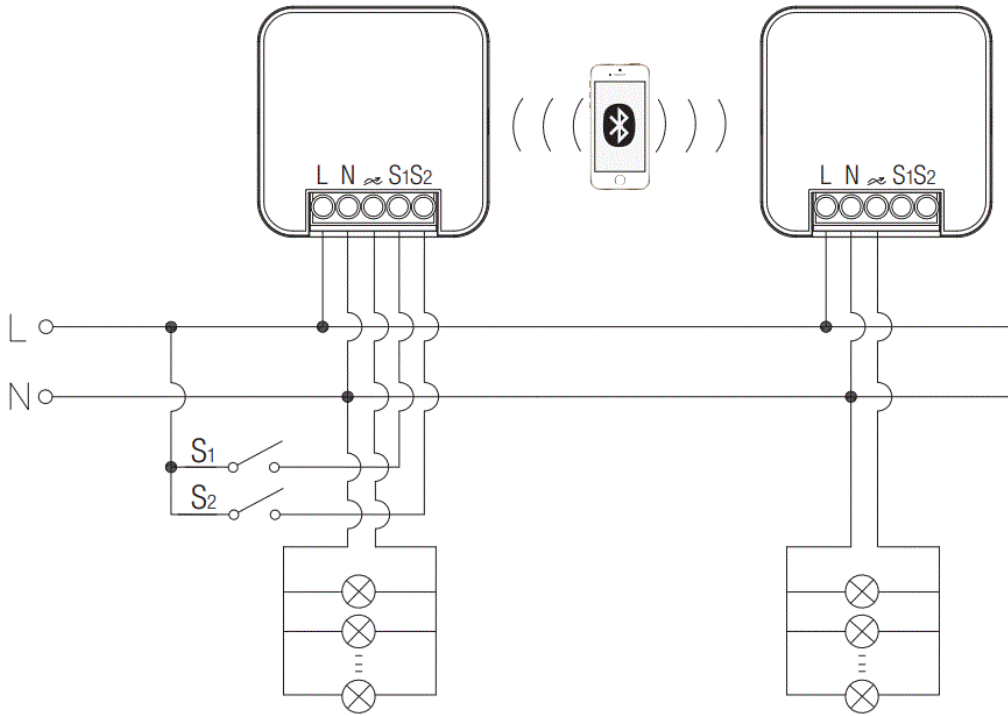
Wire Preparation

Rising clamp terminal.

0.75 - 4mm²

8mm

Wiring Diagram

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3. A datasheet 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's standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy

www.HYTRONIK.COM
Subject to change without notice.

Documents / Resources

HYTRONIK HBTD8200T Wireless Dimmer - 150VA Trailing Edge Version [pdf] Instruction Manual
Trailing Edge Version, 150VA, Wireless, Dimmer, Wireless Dimmer, HBTD8200T

References

- Ⓦ **Catalogue_Hytronik**

- **iot.koolmesh.com**

- **iot.koolmesh.com**