Installation and Instruction Manual



Bluetooth Receiver Node - DALI Version

WSE0011 | 624667 (HBTD8200D/F)

1. Technical Specifications

| Product type | Buetooth DALI Digitial Receiver Node (Flush mount) |
|---------------------------|--|
| Mains voltage | 220~240VAC 50/60Hz |
| Rated load | Max.100mA, 50 devices |
| 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 Illa |
| 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) | EN300 328, EN301489-1, EN301489-17, EN62479 |
| | |

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.

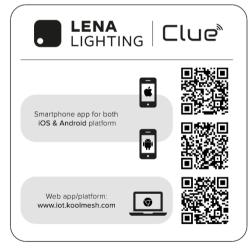
| Switch Function | Action | Descriptions |
|-----------------|--|---|
| | Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid. | - Turn on/off - Recall a scene - Turn on only - Exit manual mode - Turn off only - Do nothing |
| Push switch | Double push | - Turn on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

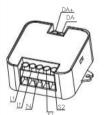
4. Installation

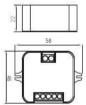
A Warnings:

- 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.

2. Download the App Free App for set-up and commissioning







Wire Preparation





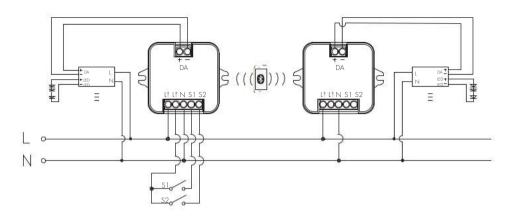
Rising clamp terminal.

1. 200 metres (total) max. for $1\,mm^2$ CSA (Ta = 50 °C)

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



HBTD8200D/F-20200403-A2



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 Sensor ->Receiver Nodes

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



Installation and Instruction Manual



Bluetooth Switch-ON/OFF Control

624162 | 624878 (HBTD8200S/F)

1. Technical Specifications

| Product type | OBluetooth Switch (Flush mount) | |
|---------------------------|--|--|
| Mains voltage | 220~240VAC 50Hz | |
| Rated load | 400VA(Capacitive); 800W(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: +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 Illa | |
| Glow wire | level 3, 850°C | |
| Protection | Built-in protection provide | |
| Type of switch | Single load(single-ploe disconnection) | |
| Insulation | Class II Pollution degree 2 | |
| 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 | |

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 |
|-------------------|--|---|
| | 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 |
| Push switch | 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 senso to a Bluetooth controlled motion senso |

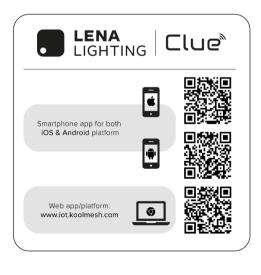
4. Installation

A Warnings:

- 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

2. Download the App

Free App for set-up and commissioning







Wire Preparation

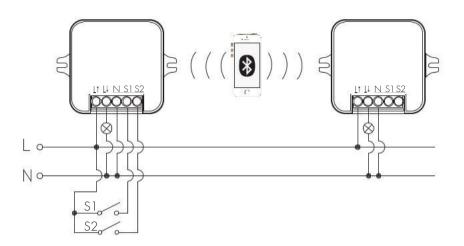


Rising clamp terminal.

0.75 - 4mm



HBTD8200S/F-20200403-A2



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 Sensor ->Receiver Nodes

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



Bluetooth 5.0 Real-time Keeper and Repeater

Index LL: 624926 | 624933 HTG01/F & HTG02/F

LIGHTING CLUE

Product Description

HTG01/F & HTG02/F are Bluetooth modules with a real-time chip built in that can keep real time running for up to 12 weeks during power loss, which is very convenient for Bluetooth system/network where there is constant need for power on/off. When a product group mesh network is created, the entire network takes HTG01/F or HTG02/F as the authoritative time. External Bluetooth antenna can be connected for a longer Bluetooth broadcast distance.



HTG01/F

HTG02/F

Funkcje

9

Compatible with EnOcean BLE switches Grouping luminaires via mesh network

Device firmware update over-the-air (OTA)

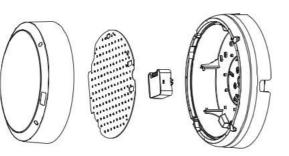
Continuous development in progress...

Hardware Features

*

- 🚺 Two optional reinforced antenna available
- H Bluetooth range extender
- S Ability to keep real-time for up to 12 weeks during power loss
- Compact design with two screw holes to be built inside luminaires
- 🖆 Short-circuit protection
- 5 -year warranty

Typical Switch Box Mounting

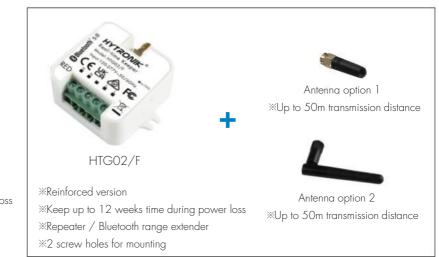




Optional accessory: Reinforced Bluetooth antenna



Standard version
Keep up to 12 weeks time during power loss
Repeater / Bluetooth range extender
Up to 30m transmission distance
screw holes for mounting



Subject to change without notice.

Technical Specifications

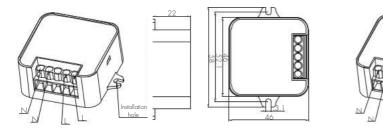
| Bluetooth Transceiver | | |
|------------------------|----------------------------|--|
| Operation frequency | 2.4 GHz - 2.483 GHz | |
| Transmission power | 4 dBm | |
| Range (Typical indoor) | 10~30m | |
| Protocol | Bluetooth® 5.0 SIG Mesh | |
| | | |
| Safety & EMC | | |
| EMC standard (EMC) | EN 55015, EN61547, | |
| | EN 61000-3-2/3-3 | |
| Safety standard (LVD) | EN61347-1,EN61347-2-11 | |
| RED | EN 300328, EN 301489-1/-17 | |

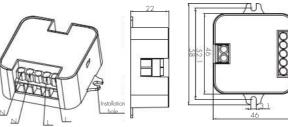
Mechanical Structure & Dimensions HTG01/F

| 120~277VAC 50/60Hz |
|--------------------|
| |
| |
| Ta: -20°C ~ +60°C |
| -40°C ~ 70°C |
| 10~90% |
| IP20 |
| Class II |
| |

HTG02/F

Input & Output Characteristics





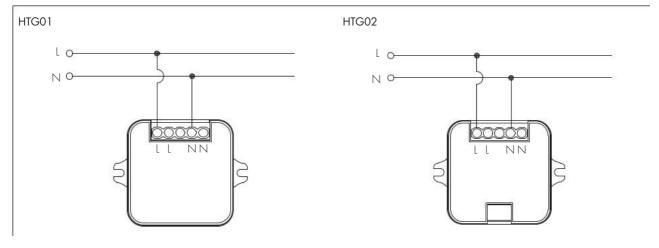
Wire Preparation





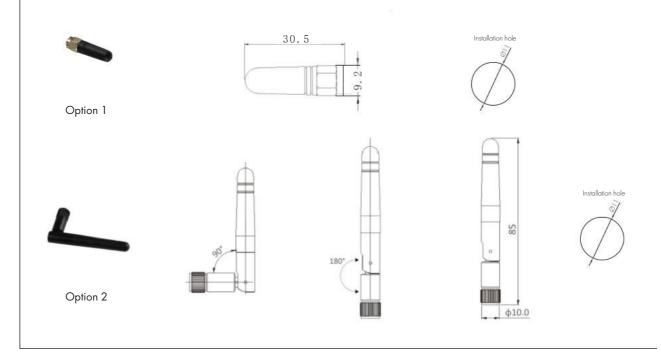
To make or release the wire from the terminal, use a screwdriver to push down the button.

Wiring Diagram



Optional accessory: Reinforced Bluetooth antenna

For some special Applications, customers may need a larger Bluetooth transmission for both smartphone to device and device to device. Thanks to the reinforced Bluetooth antenna (optional 1 or optional 2 to choose from), with it being added to the HTG01/F or HTG02/F, the transmission distance (smartphone to device) enlarges to 20m, the distance of device to device is around 50m.



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