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.

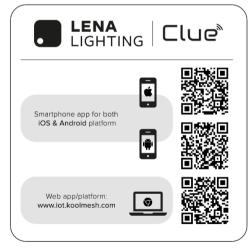
Switch Function	Action	Descriptions
	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Recall a scene - Turn on only - Exit manual mode - Turn off only - Do nothing
Push switch	Double push	- Turn on only - Exit manual mode - Turn off only - Do nothing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

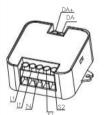
4. Installation

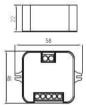
A Warnings:

- 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





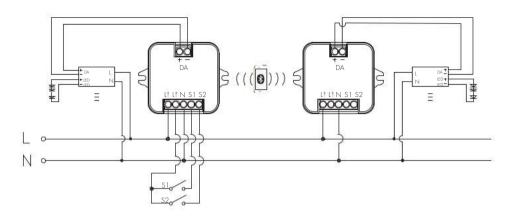
Rising clamp terminal.

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

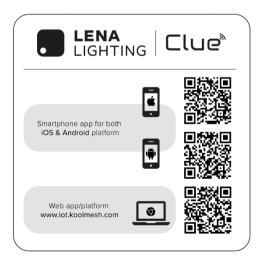
4. Installation

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

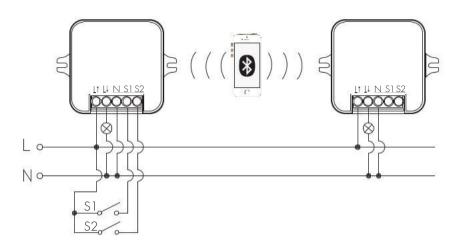


Rising clamp terminal.

0.75 - 4mm



HBTD8200S/F-20200403-A2



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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

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Compatible with EnOcean BLE switches Grouping luminaires via mesh network

Device firmware update over-the-air (OTA)

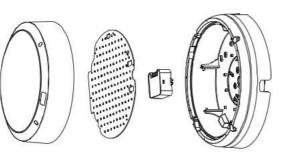
Continuous development in progress...

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

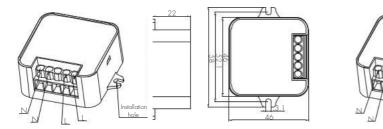
Bluetooth Transceiver		
Operation frequency	2.4 GHz - 2.483 GHz	
Transmission power	4 dBm	
Range (Typical indoor)	10~30m	
Protocol	Bluetooth® 5.0 SIG Mesh	
Safety & EMC		
EMC standard (EMC)	EN 55015, EN61547,	
	EN 61000-3-2/3-3	
Safety standard (LVD)	EN61347-1,EN61347-2-11	
RED	EN 300328, EN 301489-1/-17	

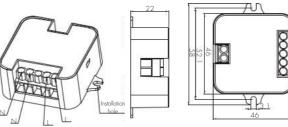
Mechanical Structure & Dimensions HTG01/F

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

HTG02/F

Input & Output Characteristics





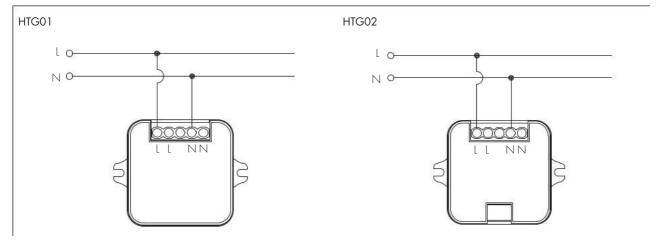
Wire Preparation





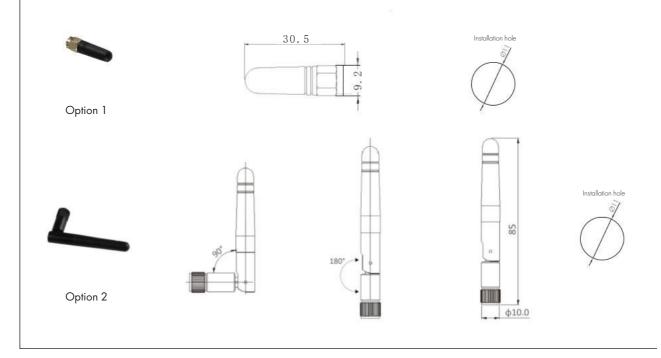
To make or release the wire from the terminal, use a screwdriver to push down the button.

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

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