HBTD8200S/F HBTD8200T/F Relay Control Trailing Edge

HBTD8200V/F 0/1-10V

HBTD8200D/F DALI





Product Description

HBTD8200/F series are designed as Bluetooth built-in receiver node. They can be used alongside our Bluetooth motion sensor range as Bluetooth receiver nodes. Or, they can also be used solely as Bluetooth control unit for each luminaire. Whether for home use, commercial or industrial applications, HBTD8200/F series does it all. Simple device setup and commissioning can be done via **Koolmesh**™app.







Trailing Edge Version On-off Version

App Features

- Floorplan feature to simplify project planning
- ## Grouping luminaires via mesh network
- Scenes
- Push switch configuration
- Schedule to run scenes based on time and date
- Astro timer (sunrise and sunset)
- Device firmware update over-the-air (OTA)
- Power-on status (memory against power loss)
- ⋄ Offline commissioning
- P Different permission levels via authority management
- Network sharing via QR code or keycode
- Remote control via gateway support HBGW01
- (a) Interoperability with Hytronik Bluetooth product portfolio
- Compatible with EnOcean BLE switches
- 🕸 Continuous development in progress...

Hardware Features

- HBTD8200S/F: ON/OFF control with load ratings: 400VA (capacitive) & 800VV (resistive)
- HBTD8200T/F: Trailing edge output 150VA (capacitive)
- HBTD8200V/F: 1-10V output: 400VA (capacitive) & 800W (resistive) with relay control
- ➡ HBTD8200D/F: 100mA DALI broadcast output for up to 50 LED drivers
- Compact design with two screw holes to be built inside **luminaires**
- 2 Push inputs for flexible manual control
- Zero crossing detection circuit to reduce in-rush current and prolong relay lifetime (HBTD8200S/F and HBTD8200V/F)
- Short-circuit protection
- Overload protection
- 5 year warranty

* Certain scenes which require external photocell can be achieved by using together with Hytronik Bluetooth sensors, such as HBIR29, HCD038/BT + sensor head etc.



Fully support EnOcean self-powered switch module PTM215B (HBES01/W & HBES01/B)



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 |

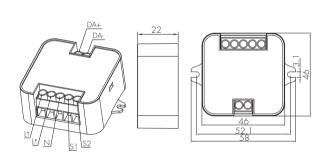
| Environment | | |
|-------------------------|-------------------|--|
| Operation temperature | Ta: -20°C ~ +45°C | |
| Case temperature (Max.) | | |
| HBTD8200S/F | Tc: +75°C | |
| HBTD8200T/F | Tc: +80°C | |
| HBTD8200V/F | Tc: +75°C | |
| HBTD8200D/F | Tc: +75°C | |
| Storage temperature | -20°C ~ 60°C | |
| Relative humidity | 20 ~ 90% | |
| IP rating | IP20 | |
| Insulation | Class II | |
| | | |

| Input & Output Characteristics | | |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Operating voltage: HBTD8200S/F HBTD8200T/F HBTD8200V/F HBTD8200D/F | 220~240VAC 50Hz 230VAC 50Hz 220~240VAC 50Hz 220~240VAC 50/60Hz | |
| Stand-by power | <0.5W | |
| Load ratings: HBTD8200S/F HBTD8200T/F HBTD8200V/F HBTD8200D/F | 400VA(capacitive), 800VV(resistive) 150VA(capacitive), 150VV(resistive) 400VA(capacitive), 800VV(resistive) 100mA, 16VDC(max. 50 devices) | |
| Safety & EMC | | |

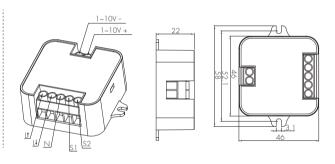
Safety & EMC EMC standard (EMC) EN55015, EN61547, EN62479, EN61000 Safety standard (LVD) IEC/EN 61058, AS/NZS 61058 Radio Equipment (RED) EN300 328, EN301489-1/-17, EN62479 Certification Semko, CB, CE, EMC, RED, RCM

Mechanical Structure & Dimensions

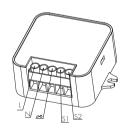
HBTD8200D/F - DALI Version

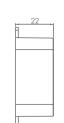


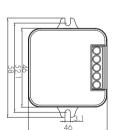
HBTD8200V/F - 1-10V Version



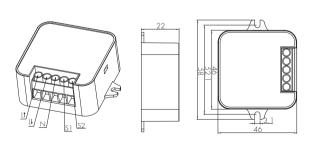
HBTD8200T/F - Trailing Edge Version





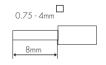


HBTD8200S/F - On/off Version



Wire Preparation

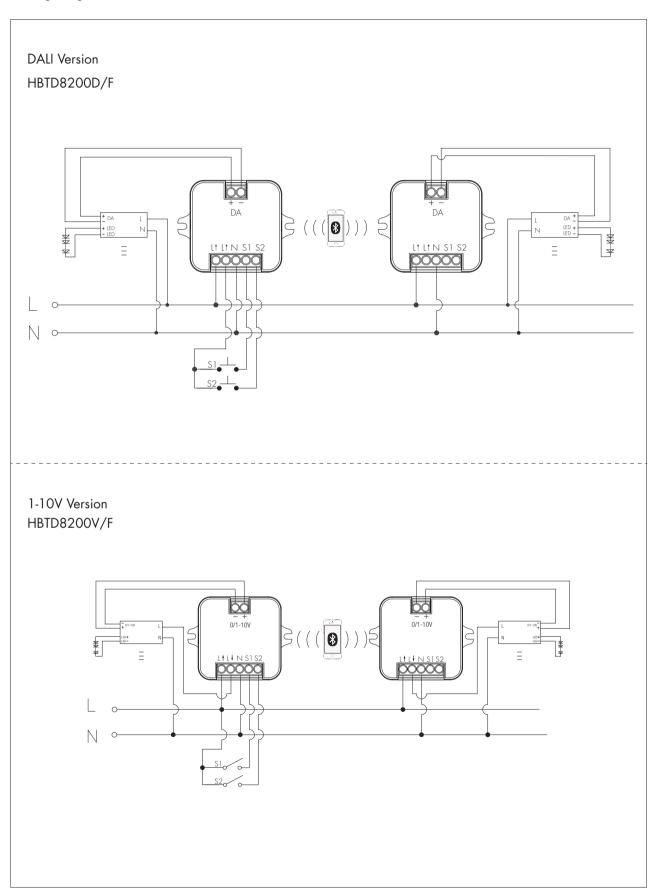




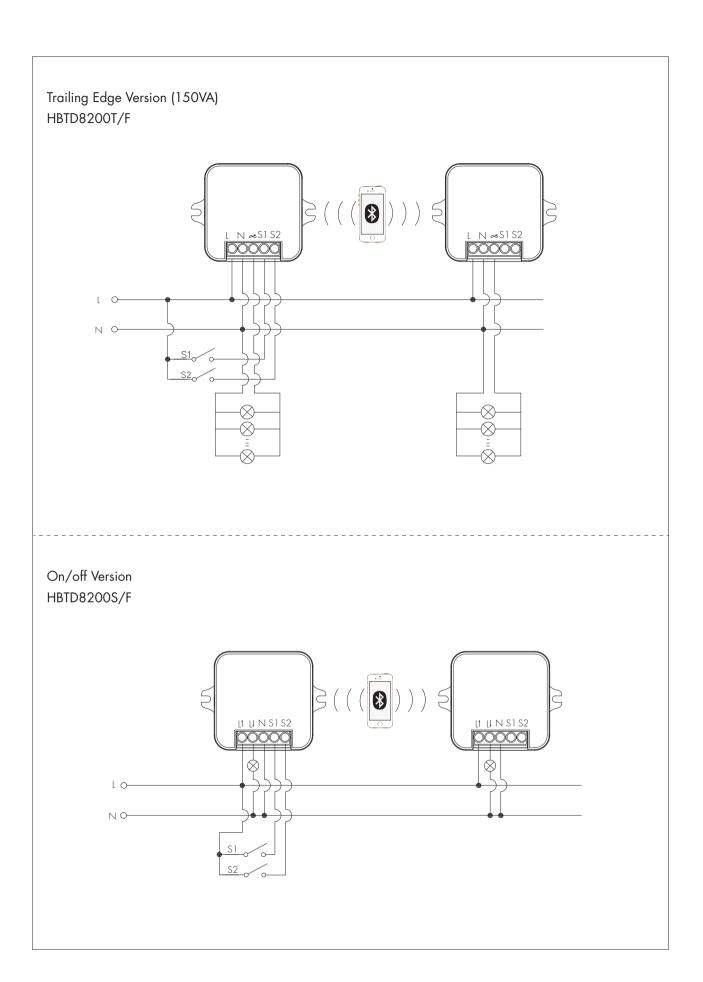
To make or release the wire from the terminal, use a screwdriver to push down the button.

- 1. 200 metres (total) max. for 1 mm² CSA (Ta = 50 °C)
- 2. 300 metres (total) max. for 1.5 mm² CSA (Ta = 50 $^{\circ}\text{C}$)

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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 O.1s, or it will be invalid. | - Turn on/off - Recall a scene - Turn on only - Quit manual mode - Turn off only - Do nothing | |
| Push switch | Double push | - Turn on only - Quit manual mode - Turn off only - Do nothing - Recall a scene | |
| | Long press (≥1 second) | - Dimming - Colour tuning - Do nothing | |
| Sensor-link | / | 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 O.1s, or it will be invalid. | - Start Self test (Monthly) - Start Self test (Annually) - Stop Self test - Invalid | |
| | Long press (≥1 second) | - Start Self test (Monthly) - Start Self test (Annually) - Stop Self test - 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. | |

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

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