Built-in Receiver Nodes with Bluetooth 5.0 SIG Mesh

HBTD8200S/F HBTD8200T/F
Relay Control Trailing Edge

HBTD8200V/F 0/1-10V HBTD8200D/F



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 **Colimesh** app.







Trailing Edge Version
On-off Version

App Features

Grouping luminaires via mesh network

- Two levels: room & group

- Sychronization control

7 types of scene options to set up*

- Generic Scenes
- Lux ON/OFF Scenes
- Daylight Harvest (Open loop)
- Daylight Harvest (Closed loop)
- Simple circadian rhythm without daylight sensor
- Advanced circadian rhythm with daylight sensor
- Time-based Scene
- Push switch configuration
- Schedule to run scenes based on time and date
- Astro timer (sunrise and sunset)
- Floorplan feature to simplify project planning
- Status after re-powered on (memory against power loss)
- Offline commissioning
- 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 range of wireless switches
- Device firmware update over-the-air (OTA)
- Continuous development in progress...
- * Certain scenes which require external photocell can be achieved by using together with Hytronik Bluetooth sensors, such as HBIR29, HCD038/BT + sensor head etc.

Hardware Features

- HBTD8200S/F: ON/OFF control with load ratings: 400VA (capacitive) & 800W (resistive)
- HBTD8200T/F: Trailing edge output 150VA (capacitive)
- HBTD8200V/F: 1-10V output: 400VA (capacitive) & 800VV (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 5-year warranty





EnOcean Self-powered IoT

Fully support EnOcean switch EWSSB/EWSDB

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

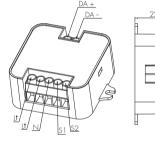
Environment		
Operation temperature	Ta: -20°C ~ +45°C	
Case temperature (Max.)		
HBTD8200S/F	Tc: +75°C	
HBTD8200T/F	Tc: +80°C	
HBTD8200V/F	Tc: +75°C	
HBTD8200D/F	Tc: +75°C	
Storage temperature	-20°C ~ 60°C	
Relative humidity	20 ~ 90%	
IP rating	IP20	
Insulation	Class II	

Input & Output Characteristics		
Operating voltage: HBTD8200S/F	220~240VAC 50Hz	
HBTD8200T/F HBTD8200V/F HBTD8200D/F	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), 800W(resistive) 150VA(capacitive), 150W(resistive) 400VA(capacitive), 800W(resistive) 100mA,16VDC(max.50 devices)	
Safety & EMC		

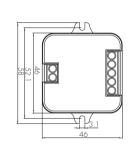
EMC standard (EMC) EN55015, EN61547, EN62479, EN61000 Safety standard (LVD) IEC/EN 61058, AS/NZS 61058 Radio Equipment (RED) EN300 328, EN301489-1/-17, EN62479 Certification Semko, CB, CE, EMC, RED, RCM

Mechanical Structure & Dimensions

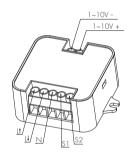
HBTD8200D/F - DALI Version



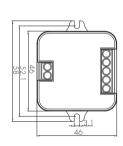




HBTD8200V/F - 1-10V Version

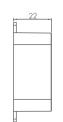


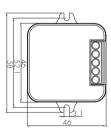




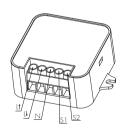
HBTD8200T/F - Trailing Edge Version

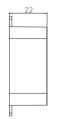


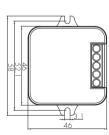




HBTD8200S/F - On/off Version

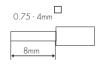




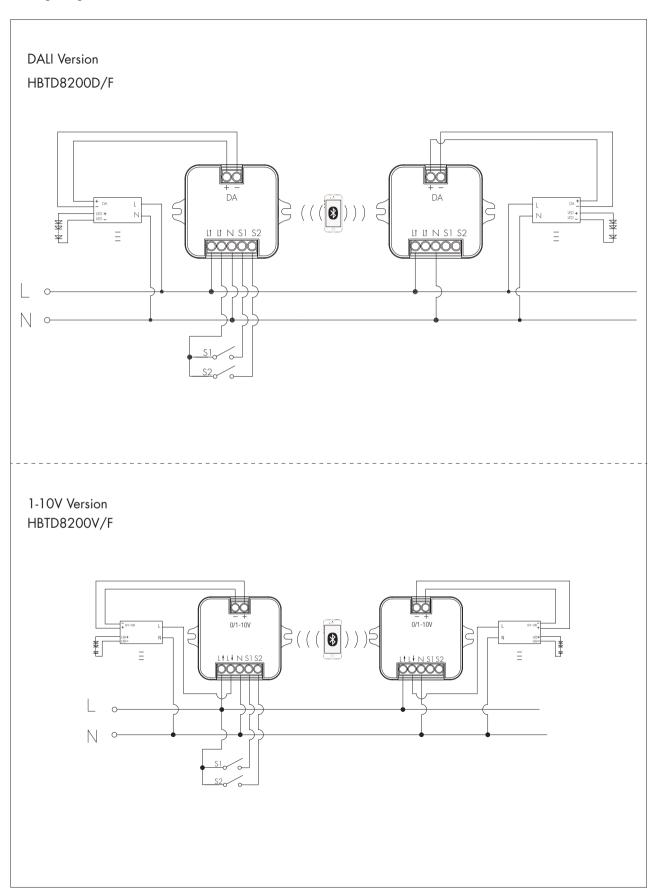


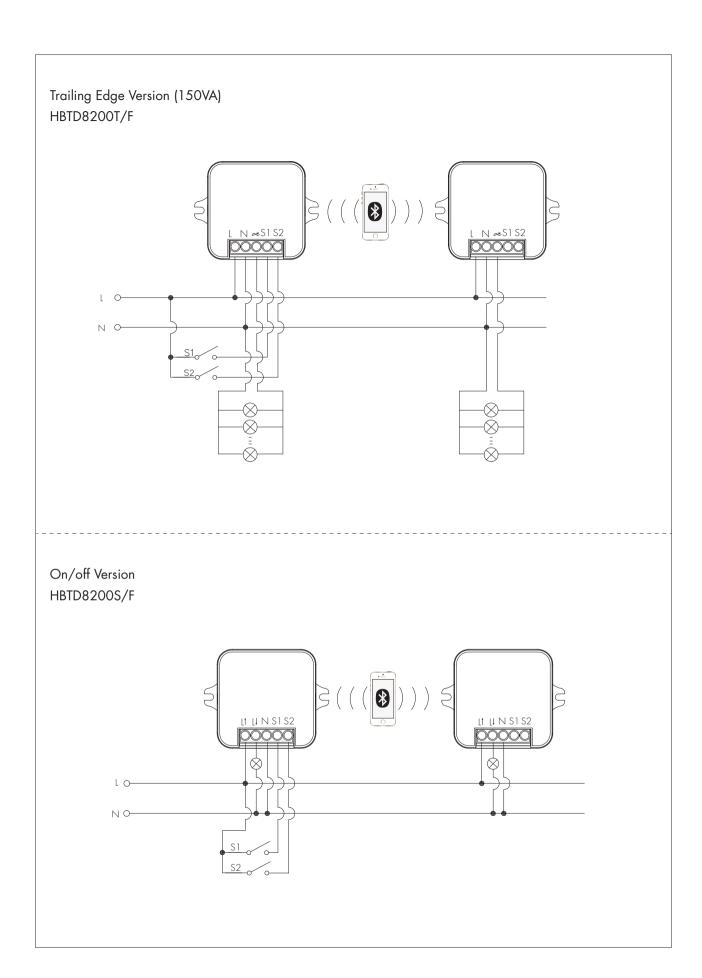
Wire Preparation





To make or release the wire from the terminal, use $\boldsymbol{\alpha}$ screwdriver to push down the button.





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

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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