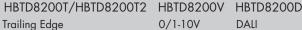
HBTD8200S HBTD8200T/HBTD8200T2 HBTD8200V Relay Control







Product Description

HBTD8200 series are designed to fit into a junction box or electrical box to make Push switch (retractive switch) to achieve on/off control, dimming control, colour tuning and even scene recall. Whether used for new build or retro-fit projects to add intelligent control to standard lighting fixtures, HBTD8200 series does it all. Simple device setup and commissioning can be done via **Koolmesh**™app.



On-off Version Trailing Edge (150VA)



DALI / 1-10V Version Trailing Edge (2 x 100VA)

App Features

- Grouping luminaires via mesh network
 - Two levels: room & group
 - Sychronization control



- 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)
- 闻 Floorplan feature to simplify project planning
- Status after re-powered on (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 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 ect.

Hardware Features

- HBTD8200S ON/OFF relay switch:
 - 400VA (capacitive)
 - 800W (resistive)
- HBTD8200T Trailing edge output: 1 50VA (capacitive)
- HBTD8200T2 Trailing edge output: 2 x 100VA (capacitive)
- HBTD8200V 1-10V output with relay control: 400VA (capacitive) and 800VV (resistive)
- HBTD8200D 100mA DALI broadcast output for up to 50 LED drivers
- 2 Push inputs for flexible manual control
- Zero crossing detection circuit to reduce in-rush current and prolong relay lifetime (HBTD8200S & HBTD8200V)
- Short-circuit protection
- Overload protection
- 5 year warranty

Bluetooth 5.0 SIG mesh











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EnOcean Self-powered Iol

Fully support EnOcean switch





Technical Specifications

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	7 dBm
Range (Typical indoor)	10~30m
Protocol	3 Bluetooth* 5.0 SIG Mesh

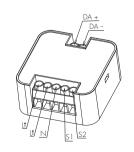
Environment		
Operation temperature	Ta: -20°C ~ +45°C	
Case temperature (Max.)		
HBTD8200S/F	Tc: +75°C	
HBTD8200T/F	Tc: +80°C	
HBTD8200V/F	Tc: +75°C	
HBTD8200D/F	Tc: +75°C	
HBTD8200DT2	Tc: +80°C	
Storage temperature	-20°C ~ 60°C	
Relative humidity	20 ~ 90%	
IP rating	IP20	
Insulation	Class II	

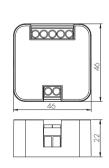
Input & Output Characteristics		
Operating voltage:		
HBTD8200S/F	220~240VAC 50Hz	
HBTD8200T/F	230VAC 50Hz	
HBTD8200V/F	220~240VAC 50Hz	
HBTD8200D/F	220~240VAC 50/60Hz	
HBTD8200T2	230VAC 50Hz	
Stand-by power	<0.5W	
Load ratings:		
HBTD8200V	400VA(Capacitive), 800VV(Resistive)	
HBTD8200D	100mA, 16VDC (max. 50 devices)	
HBTD8200T	150VA(Capacitive), 150W(Resistive)	
HBTD8200T2	2x100VA(Capacitive), 2x150VV(Resistive)	
HBTD8200S	400VA(Capacitive), 800W(Resistive)	

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

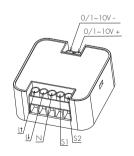
Mechanical Structure & Dimensions

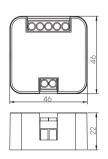
HBTD8200D - DALI Version



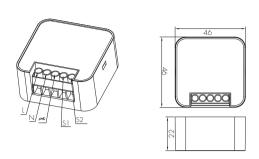


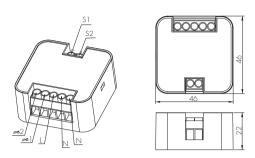
HBTD8200V - 1-10V Version



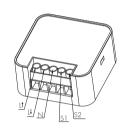


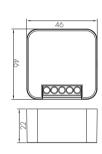
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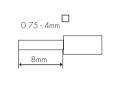






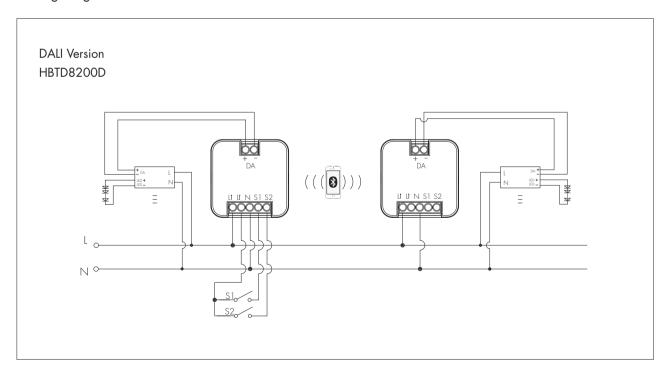
Wire Preparation



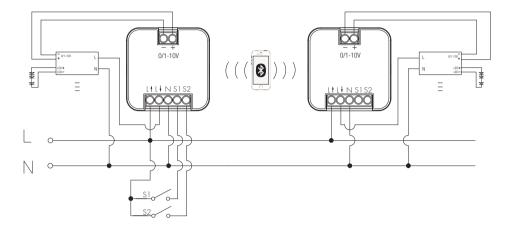


To make or release the wire from the terminal, use a screwdriver to push down the button.

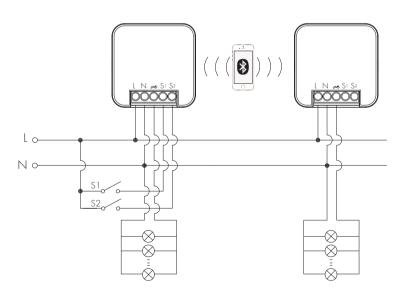
Wiring Diagram



1-10V Version HBTD8200V

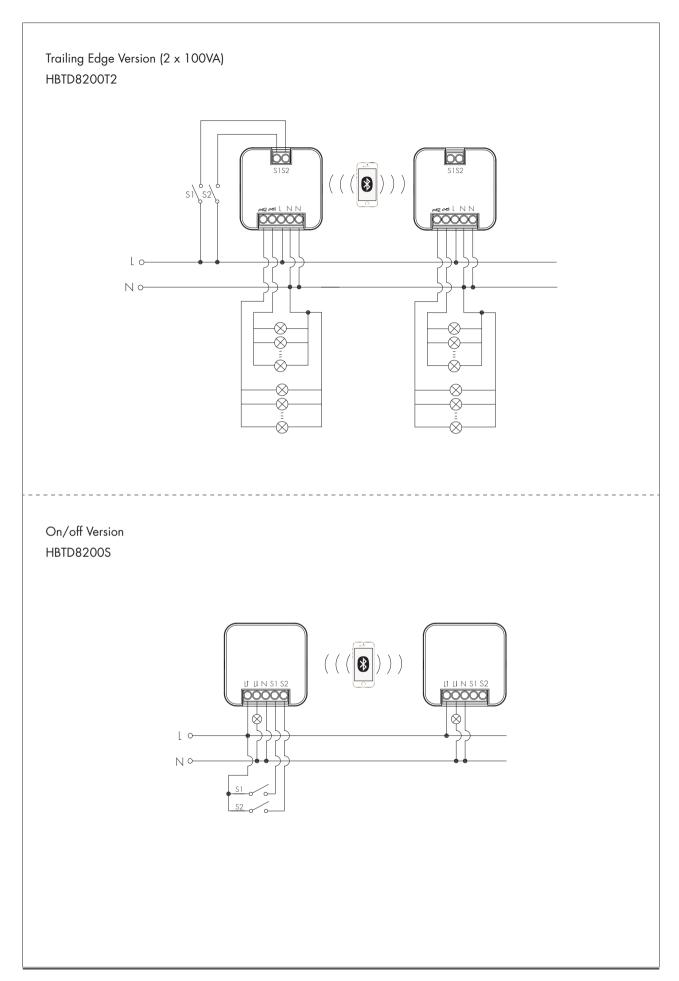


Trailing Edge Version (150VA) HBTD8200T



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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 (<0.4 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 (>0.4 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. 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
- 2. Data sheet is subject to change without notice. Please always refer to the most recent release on www.hytronik.com/products/bluetooth technology ->Bluetooth Dimmers
- 3. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download/knowledge ->Hytronik Standard Guarantee Policy

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