Dimmers with Bluetooth 5.0 SIG Mesh

HBTD8200SHBTD8200T/HBTD8200T2HBTD8200VHBTD8200DRelay ControlTrailing Edge0/1-10VDALI

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.

App Features

- E Floorplan feature to simplify project planning
- Grouping luminaires via mesh network
- Scenes
- Push switch configuration
- Schedule to run scenes based on time and date
- Stro 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
- Retwork 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...



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On-off Version Trailing Edge (150VA)



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

Hardware Features

- HBTD8200S ON/OFF relay switch:
 - 400VA (capacitive)
 - 800W (resistive)
- BTD8200T Trailing edge output: 150VA (capacitive)
- BTD8200T2 Trailing edge output: 2 x 100VA (capacitive)
- HBTD8200V 0/1-10V output with relay control: 400VA (capacitive) and 800VV (resistive)
- HBTD8200D 100mA DALI broadcast output for up to 50 LED drivers
- 🔊 Compact design
- 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



* 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)

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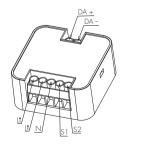
Technical Specifications

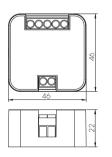
Bluetooth Transceiver		
Operation frequency	2.4 GHz - 2.483 GHz	
Transmission power	4 dBm	
Range (Typical indoor)	10~30m	
Protocol	₿Bluetooth® 5.0 SIG Mesh	
Environment		
Operation temperature	Ta: -20°C ~ +45°C	
Case temperature (Max.)		
HBTD8200S	Tc: +75°C	
HBTD8200T	Tc: +80°C	
HBTD8200V	Tc: +75°C	
HBTD8200D	Tc: +75°C	
HBTD8200T2	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	220~240VAC 50Hz	
HBTD8200T	230VAC 50Hz	
HBTD8200V	220~240VAC 50Hz	
HBTD8200D	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), 150VV(Resistive)	
HBTD8200T2	2x100VA(Capacitive), 2x150VV(Resistive)	
HBTD8200S	400VA(Capacitive), 800VV(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	

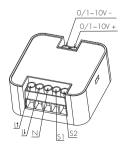
Mechanical Structure & Dimensions

HBTD8200D - DALI Version





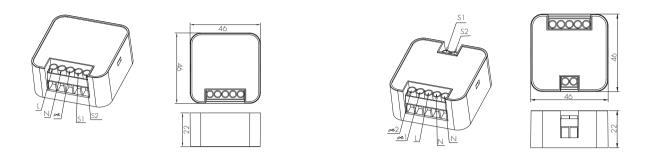
HBTD8200V - 0/1-10V] Version





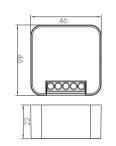
HBTD8200T - Trailing Edge Version (150VA)

HBTD8200T2 - Trailing Edge Version (2 x 100VA)



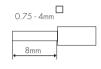
HBTD8200S - On/off Version





Wire Preparation



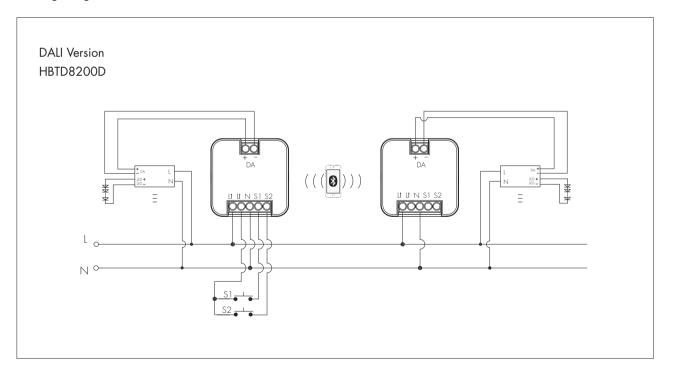


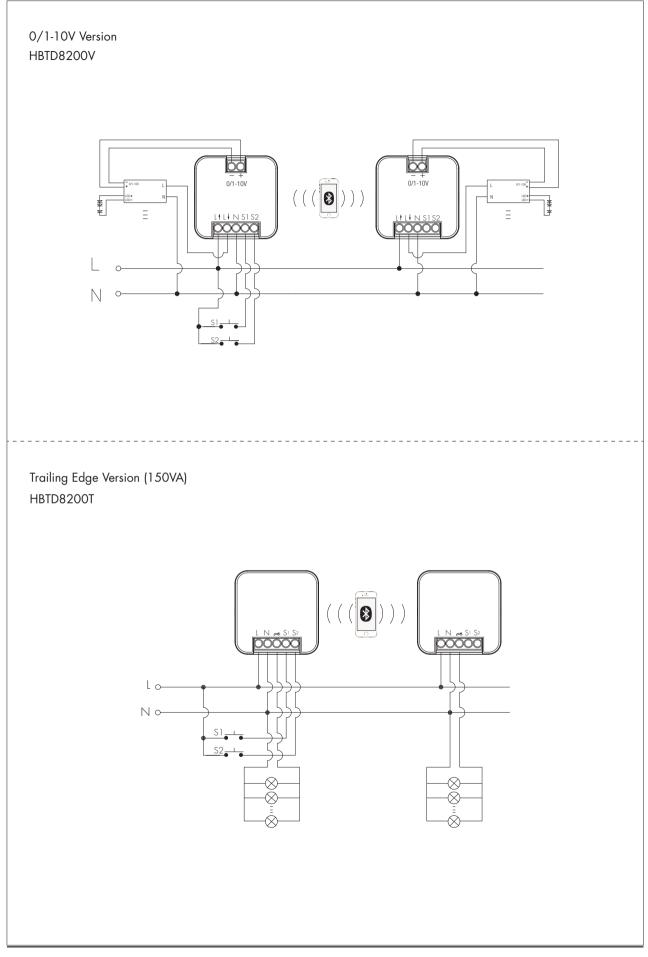
To make or release the wire from the terminal, use a screwdriver to push down the button.

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

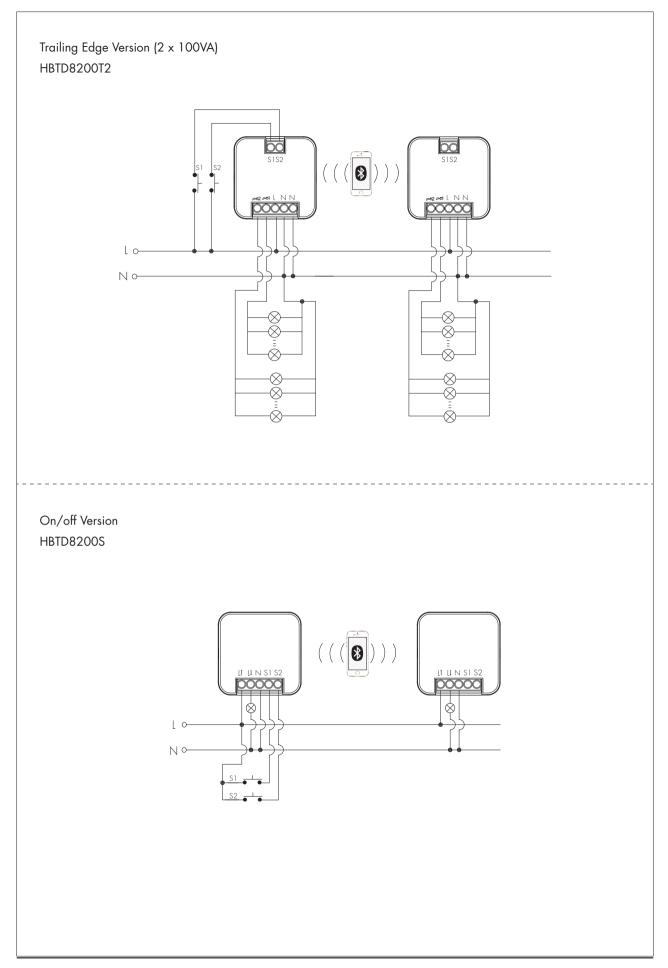
2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50 $^\circ\text{C}$)

Wiring Diagram





Subject to change without notice.



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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 0.1s, 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 0.1s, 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 Dimmers
- 4. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy