Built-in Counter Reels

Bluetooth 5.0 SIG Mesh

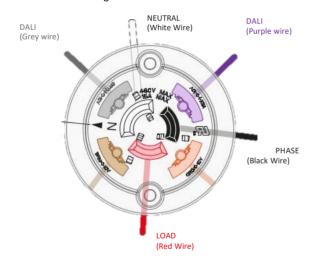
624544 - Controller BT HYT NEMA DALI Clue City IoT z HBTD8200D/F

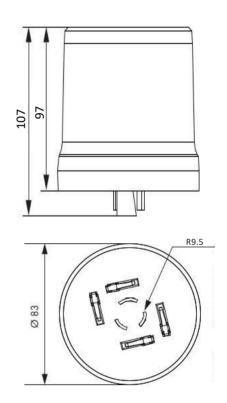






NEMA enclosure electrical connection diagram:





Product Description

HBTD8200/F controler series are designed as Bluetooth built-in receiver nodes. They can be used alongside our Bluetooth motion sensor range as Bluetooth receiver nodes. 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. An external antenna version is available for embeding in steel luminaires. Simple device setup and commissioning can be done via Lena Lighting Clue app.

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 Bluetooth product portfolio

Compatible with EnOcean BLEswitches

Continuous development in progress...

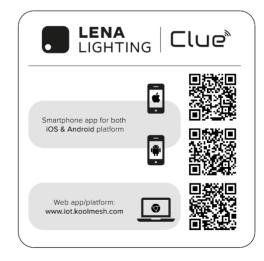
* Certain scenes which require external photocell can be achieved by using together with Bluetooth sensors, such as HBIR29, HCD038/BT + sensor head etc.



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

Hardware Features

- HBTD8200S/F: ON/OFF control with load ratings: 400VA (capacitive) & 800W (resistive)
- 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 5-year warranty



Technical Specifications

Bluetooth Transceiver	
Operation frequency	2.4 GHz -2.483GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	Bluetooth 5.0 SIG Mesh

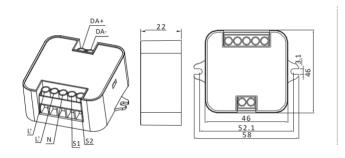
Environment	
Operation temperature	Ta: -20°C ~ +45°C
Case temperature (Max.)	
HBTD8200S/F	Tc: +75°C
HBTD8200V/F	Tc: +75°C
HBTD8200D/F	Tc: +75°C
Storage temperature	-20°C ~ 60°C
Relative humidity	20 ~ 90%
IP rating	IP20
Insulation	Class II

Input & Output Characteristics		
Operating voltage: HBTD8200S/F HBTD8200V/F HBTD8200D/F	220~240VAC 50Hz 220~240VAC 50Hz 220~240VAC 50/60Hz	
Stand-by power	< 0 . 5 W	
Load ratings: HBTD8200S/F HBTD8200V/F HBTD8200D/F	400VA(capacitive), 800W(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	

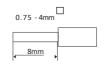
Mechanical Structure & Dimensions

HBTD8200D/F -DALI Version



Wire Preparation

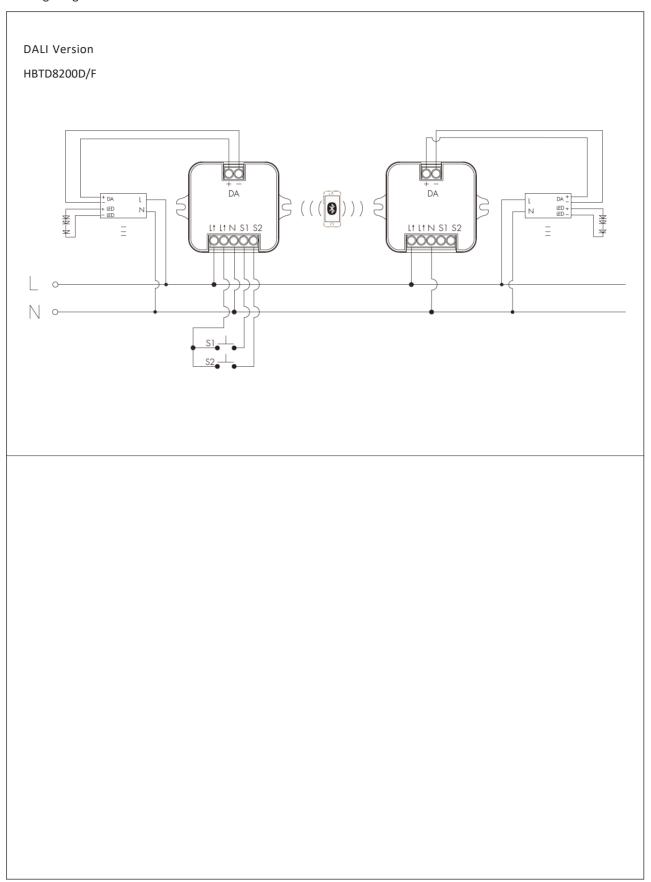




To make or release the wire from the terminal, use a screwdriver to push down the button.

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

Edition: 14 Jun. 2023



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 Lena Lighting Clue app.

Switch Function	Action	Descriptions	
	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Tumon/off - Recall a scene - Tum on only - Quit manual mode - Tum off only - Do nothing	
	Double push	- Tum on only - Quit manual mode - Tum 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	
* Sh 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 Lena Lighting Clue App	-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.	

For more information, contact iot@lenalighting.pl

Subject to change without notice. Edition: 14 Jun. 2023 Ver. A1 Page 5/5