

Operated button  Bluetooth[®] 5.0 SIG Mesh

625961 4-button panel SHE BT HYT white IoT

625367 4-button panel SHE BT HYT black IoT



LENA
LIGHTING

Clue[®]



Product Description

The 4-button panel is available in black and white. As a communication element, it uses the HBTD8200P/F controller. The HBTD8200P/F controller has 4 SELV Push inputs (low voltage). A control signal is sent via Bluetooth to control on/off, dimming, changing the color temperature of the luminaire, or to call up scenes. Simple configuration and commissioning of the panel can be done using the Lena Lighting Clue application.



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
-  Different permission levels via authority management
-  Network sharing via QR code or keycode
-  Remote control via gateway support HBGW01
-  Interoperability with Bluetooth product portfolio
-  Compatible with EnOcean BLE switches
-  Continuous development in progress...

Hardware Features

-  Compact design
-  4 SELV Push switch inputs
-  5-year warranty

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

 EnOcean
Self-powered IoT



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



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Smartphone app for both
iOS & Android platform



Web app/platform:
www.iot.koolmesh.com

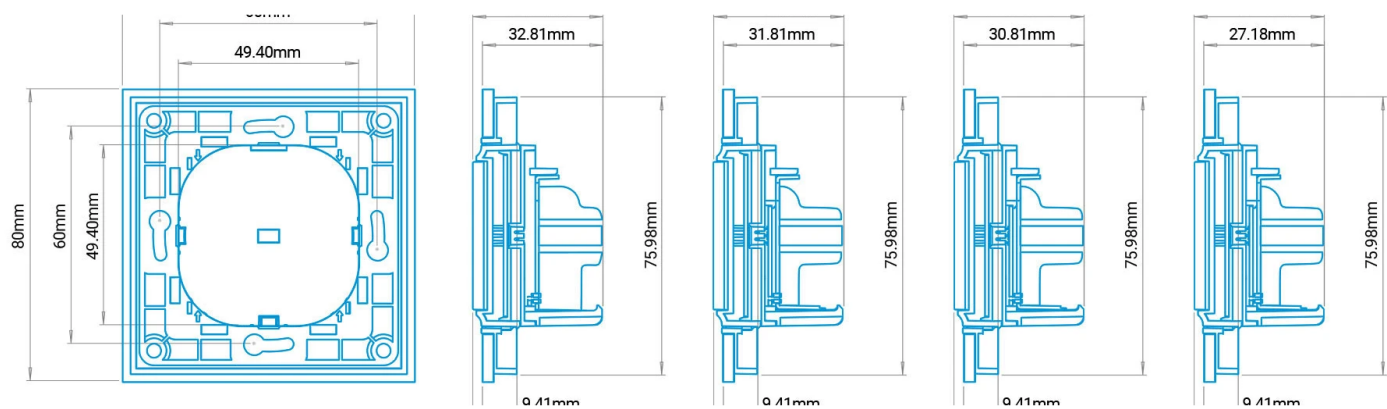


Technical specification of the panel

Physical	
Dimensions (HxWxD)	70x70x12 mm (without handle)
Material	Plastic
Colour	Black/White
Environment	
Ambient temperature	20° C to 70° C / -5° F to 158° F
Humidity	of the 85%

Electric	
Maximum switching voltage	12 VDC / 18 VAC
Maximum switching current	50mA

Mechanical structure and panel dimensions



Technical Specifications Controller

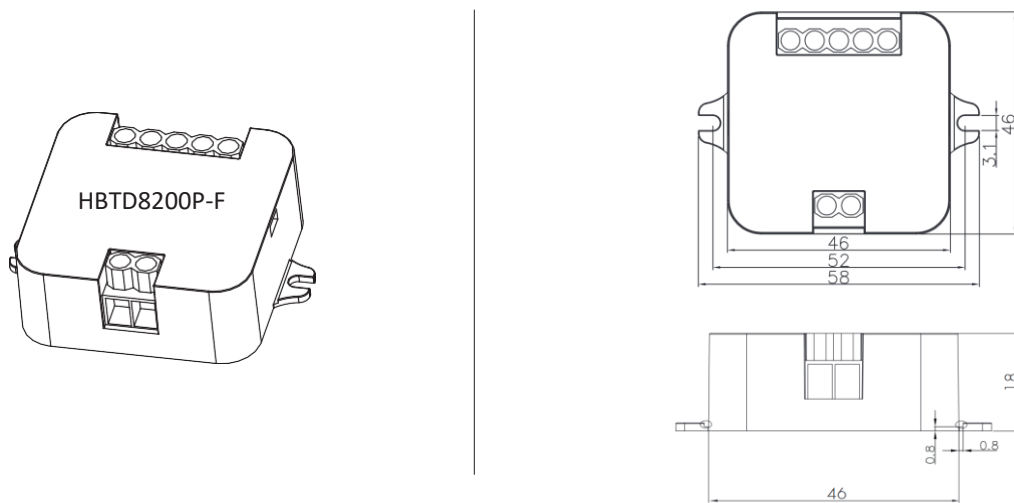
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	Bluetooth 5.0 SIG Mesh

Environment	
Operation temperature	Ta: -20°C ~ +50°C
Case temperature (Max.)	Tc: +75°C
Storage temperature	-40°C ~ +70°C
Relative humidity	10 ~ 90%
IP rating	IP20
Insulation	Class II

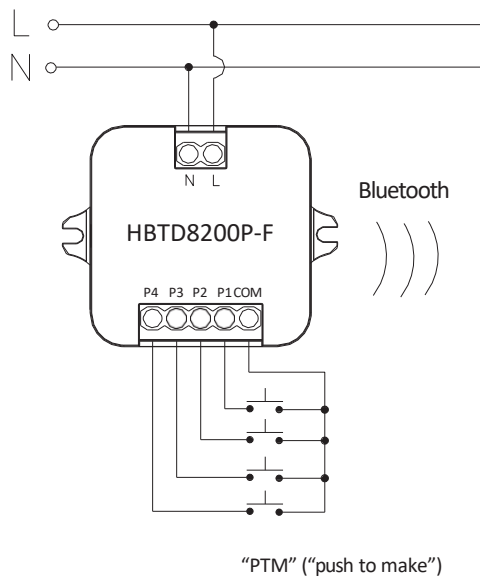
Input & Output Characteristics	
Operating voltage	220~240VAC 50/60Hz
Push switch voltage	14-16V
Stand-by power	<0.5W

Safety & EMC	
EMC standard (EMC)	EN55015, EN61547 EN61000-3-2/-3-3
Safety standard (LVD)	EN 61347-1, EN 61347-2-11, EN62493
RED	EN300328, EN301489-1 EN301489-17, EN50663
Certification	CE , UKCA, RCM

Mechanical Structure & Dimensions

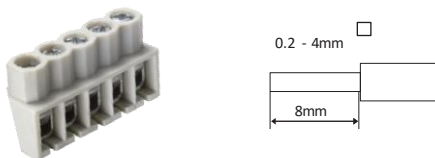


Wiring Diagram



Wire Preparation

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



Wiring precautions:

1. A wire diameter of 0.5-4 mm for the AC input port
2. There is a standard wire diameter of 0.2-4mm for the PUSH port voltage (15V DC). Depending on the diameter of the wire, cable length can vary to optimize effectiveness. When connecting 0.2-0.5mm, the maximum length is 50m; when connecting 0.75-4mm, the maximum length is 100m.

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
Push switch	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Turn on only - Turn off only - Recall a scene - Quit manual mode - Do nothing
	Double push	- Turn on only - Turn off only - Recall a scene - Quit manual mode - Do nothing
	Long press (≥1 second)	- Dimming - Colour tuning - Do nothing
Sensor-link (VFC signal only)	/	- 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) - Stop Self test - Start Self test (Annually) - Invalid
	Long press (≥1 second)	- Start Self test (Monthly) - Stop Self test - Start Self test (Annually) - 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