

Wireless Dimmers with Bluetooth® 5.0 SIG Mesh

HBTD8200V/E

0/1-10V output

HYTRONIK®



Product Description

HBTD8200V/E is a Bluetooth to 0/1-10V dimmer that allows dimming control and scene recall for 0-10V or 1-10V drivers via an app. Whether for new installations or retrofitting existing projects, the HBTD8200V/E enables the addition of smart control to standard lighting fixtures. Simple device setup and commissioning can be done via **Koolmesh**® app.



App Features

- Floorplan feature to simplify project planning
- Grouping luminaires via mesh network
- Scenes
- 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 or HBGW02
- Interoperability with Hytronik Bluetooth product portfolio
- Continuous development in progress...

Hardware Features

- 0/1-10V output
- Compact design
- 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.

Bluetooth® 5.0 SIG mesh

for iOS for Android

Smartphone app for both iOS & Android platform

for iPad

Koolmesh Pro app for iPad

for Web

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

Technical Specifications

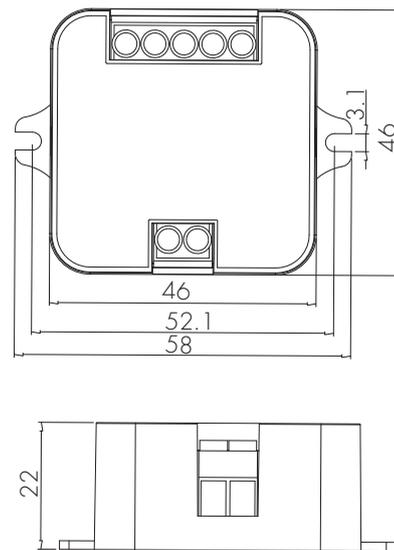
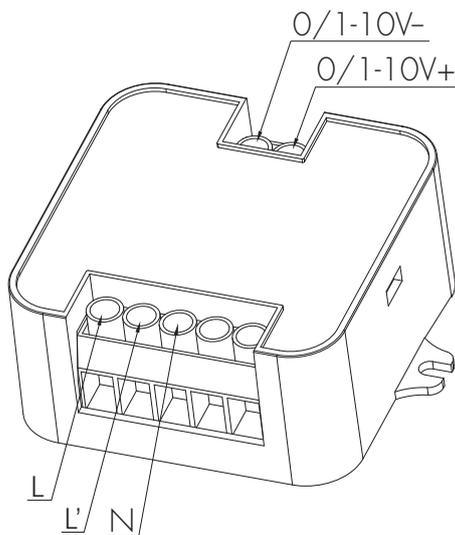
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	 Bluetooth® 5.0 SIG Mesh

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

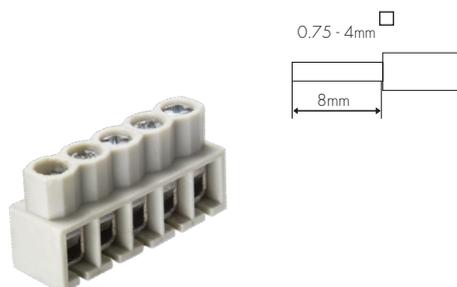
Input & Output Characteristics	
Operating voltage	220~240VAC 50/60Hz
Relay load (Max.)	250W , 150VA
O/1-10V Output current (Max.)	0.5mA
O/1-10V Source (Max.)	20mA
Stand-by power	< 0.5W

Safety & EMC	
EMC standard (EMC)	EN55015, EN61547, EN61000-3-2/-3-3
Safety standard (LVD)	EN61058-1, EN61058-2
Radio Equipment (RED)	EN300 328, EN301489-1/-17, EN50663
Certification	CE, UKCA, RCM

Mechanical Structure & Dimensions (unit:mm)

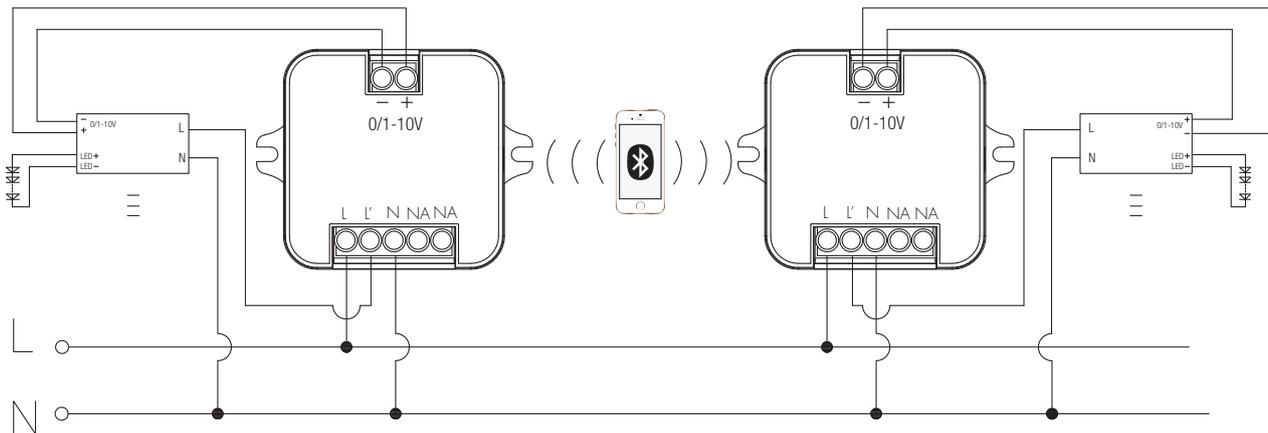


Wire Preparation



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

Wiring Diagram



*This product should be installed by a qualified electrician.

Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to <https://hytronik.com/product/hbtd8200v-e>
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to <https://hytronik.com/service/downloads> (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 <https://hytronik.com/products/controllers-dimmers>
4. Regarding Hytronik standard guarantee policy, please kindly refer to <https://hytronik.com/service/downloads> (Guarantee Conditions document)