HYTRONIK®

🅱® CE UK RoHS ⊠

## Product Description

HBTD8200V/E is a Bluetooth to 0/1-10V dimmer that allows dimming control, color adjustment, 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.
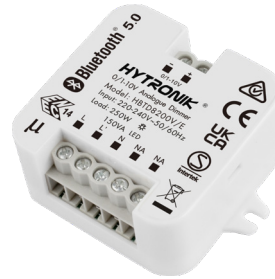
App Features

🖼 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

🔄 Interoperability with Hytronik Bluetooth product portfolio

🎁 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 etc.

Hardware Features

🕐 0/1-10V output

📏 Compact design

🔌 Short-circuit protection

5️⃣ 5-year warranty

🅱 **Bluetooth® 5.0 SIG mesh**

 iOS | for iOS | for Android
 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 ~ +50°C
Case temperature (Max.)	Tc: +75°C
Storage temperature	-10°C ~ +80°C
Relative humidity	20 ~ 90%
IP rating	IP20
Insulation	Class II

Input & Output Characteristics	
Operating voltage:	220~240VAC 50Hz
Max. load:	250W ,150VA
0/1-10V Sink:	0.5mA (Max)
Source:	20mA (Max)
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

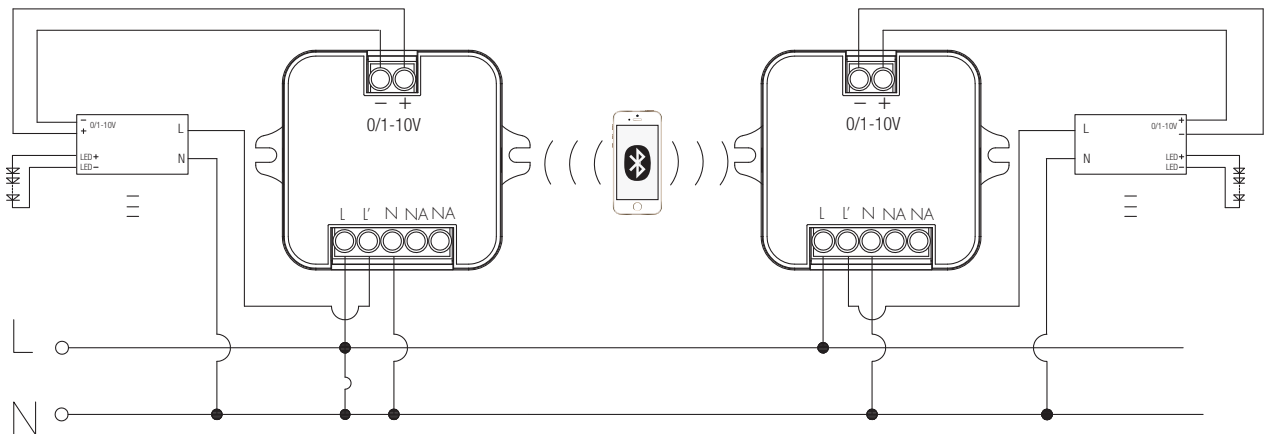## Mechanical Structure & Dimensions (unit:MM)
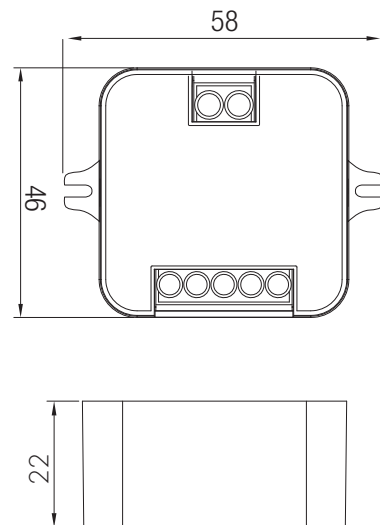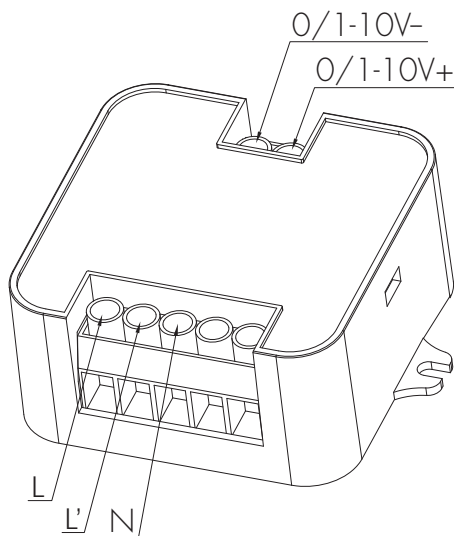
Wire Preparation
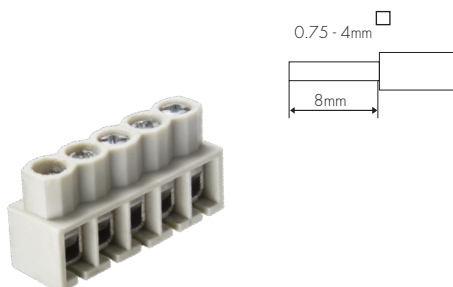
To make or release the wire from the terminal, use a screwdriver to push down the button.

Wiring Diagram

Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to
   https://hytronik.com/service/downloads (System Level Components)

2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to
   https://hytronik.com/service/downloads (Bluetooth Products Precautions for Product Iinstallation 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)