

Dimmers with  Bluetooth® 5.0 SIG Mesh

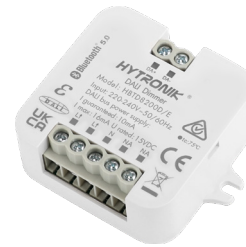
HBTD8200D/E

DALI Output



Product Description

HBTD8200D/E is a Bluetooth-enabled receiver node, compatible with our Bluetooth motion sensor range. It supports both DT6 and DT8 for dimming and tunable white. Alternatively, it can function as an independent Bluetooth control unit for each luminaire. Suitable for residential, commercial, and industrial applications, HBTD8200D/E does it all. 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

-  DALI Output: I guaranteed: 10mA
I max: 16mA
U rated: 14-16V
-  Tunable white
-  Compact design
-  Short-circuit 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.

 **Bluetooth® 5.0 SIG mesh**


Koolmesh
Android


for iOS


for Android

Smartphone app for both iOS & Android platform




for iPad

Koolmesh Pro app for iPad


Web


for Web

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

Technical Specifications

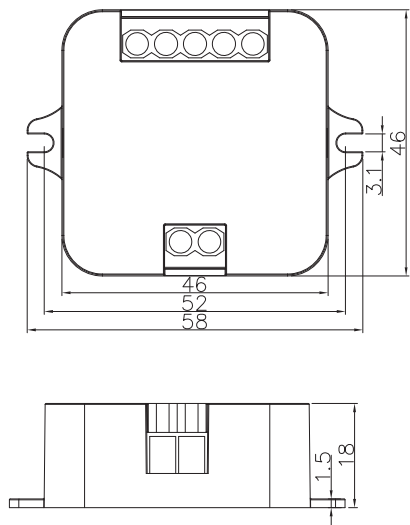
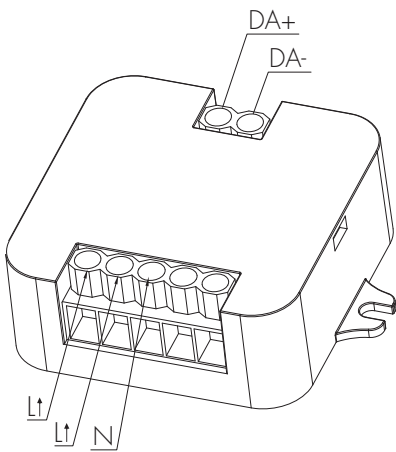
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	Bluetooth® 5.0 SIG Mesh

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

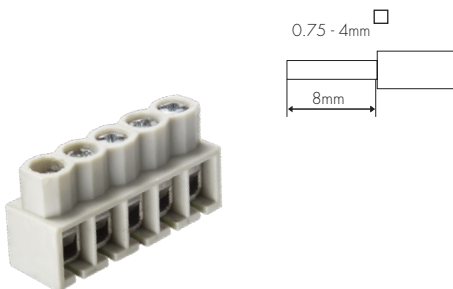
Input & Output Characteristics	
Operating voltage:	220~240VAC 50/60Hz
Power Supply	I guaranteed: 10mA I max: 16mA U rated: 14-16V
Stand-by power	< 0.5W

Safety & EMC	
EMC standard (EMC)	EN55015, EN61547, EN61000-3-2, EN61000-3-3
Safety standard (LVD)	EN61058-1/-2-1
Radio Equipment (RED)	EN300328, EN301 489-1/-17 EN50663
Certification	CE, RCM, UKCA

Mechanical Structure & Dimensions (unit:mm)



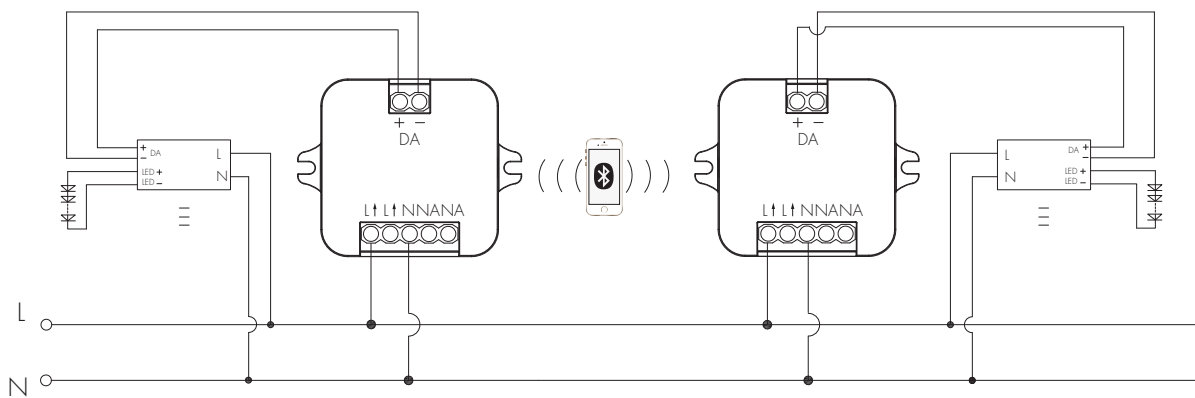
Wire Preparation



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

1. 200 metres (total) max. for 1 mm² CSA (Ta = 50 °C)
2. 300 metres (total) max. for 1.5 mm² CSA (Ta = 50 °C)

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/hbtd8200d-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)