



Product Description







HBTD15 is a Bluetooth DALI broadcast dimmer with Zhaga book 18 standard. When paired with a standard DALI2/D4i driver, it allows for precise dimming control and color tuning. With a built-in real-time chip, it ensures uninterrupted timekeeping for up to 2 months during power outages. Additionally, its external Bluetooth antenna design extends the broadcast range for enhanced connectivity. Simple device setup and commissioning can be done via **Koolmesh**® app.




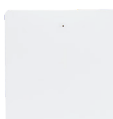




App Features

-  Floorplan feature to simplify project planning
-  Grouping luminaires via mesh network
-  Scenes
-  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 Hytronik Bluetooth product portfolio
-  Compatible with EnOcean BLE switches
-  Continuous development in progress...





Hardware Features

-  Zhaga Book 18 standard
-  Bluetooth range extender
-  Ability to keep real-time for up to 12 weeks during power loss
-  IP65 design
-  LED indicator
-  5-year warranty


 **Bluetooth® Kinetic Switch**













HBKS01 HBKS02 HBKS03 HBKS01D HBKS02D



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


Self-powered IoT

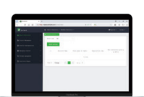

 **Bluetooth® 5.0 SIG mesh**

Smartphone app for both iOS & Android platform

Koolmesh Pro app for iPad

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) Max.	100m
Protocol	Bluetooth® 5.0 SIG Mesh

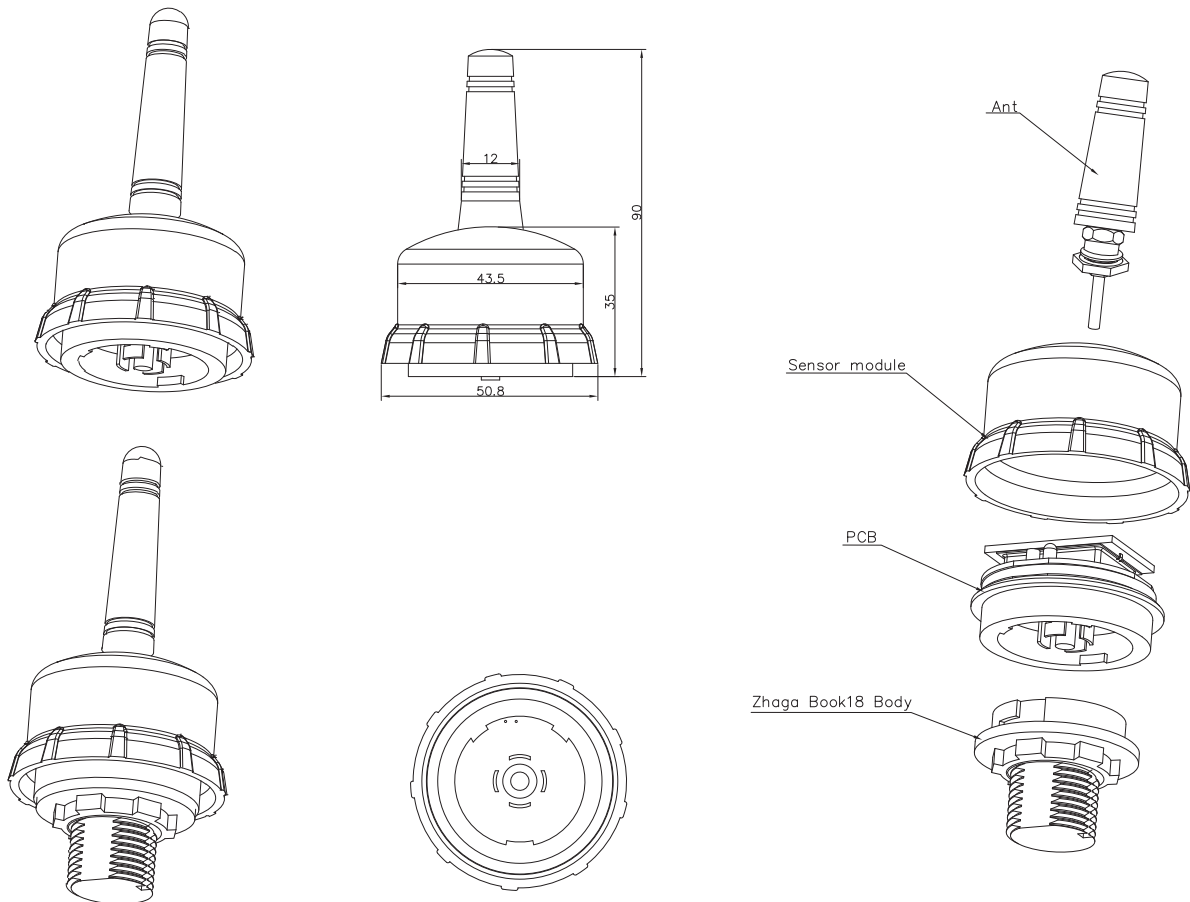
Input & Output Characteristics	
Operating voltage	12-36V
DALI Input voltage	9.5-22.5V
Standby current	2mA
Lux range	0~1000lux

Environment	
Operation temperature	Ta: -20°C ~ +50°C
Storage temperature	-35°C ~ +55°C
Relative humidity	20 ~ 90%
IP rating	IP65
Insulation	Class II

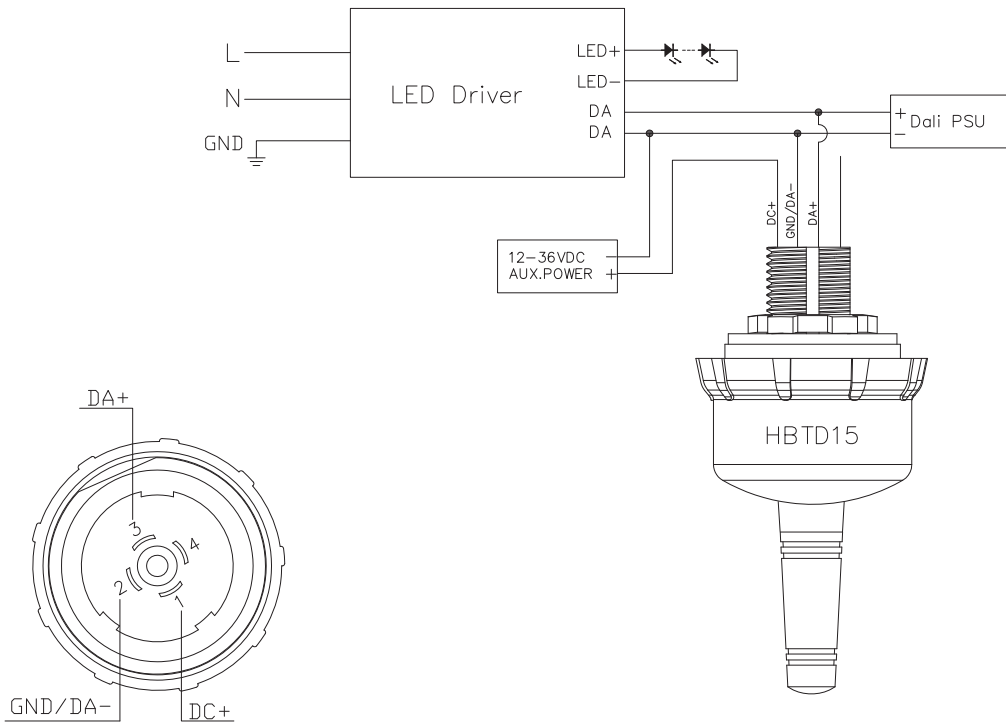
Safety & EMC	
EMC standard (EMC)	EN55015, EN61547 EN61000-3-2/-3-3
Safety standard (LVD)	EN 61347-1, EN 61347-2-11, EN62493
RED	EN300328, EN301489-1 EN301489-17, EN50663
Certification	CE, UKCA, RCM

Mechanical Structure & Dimensions (Unit: mm)

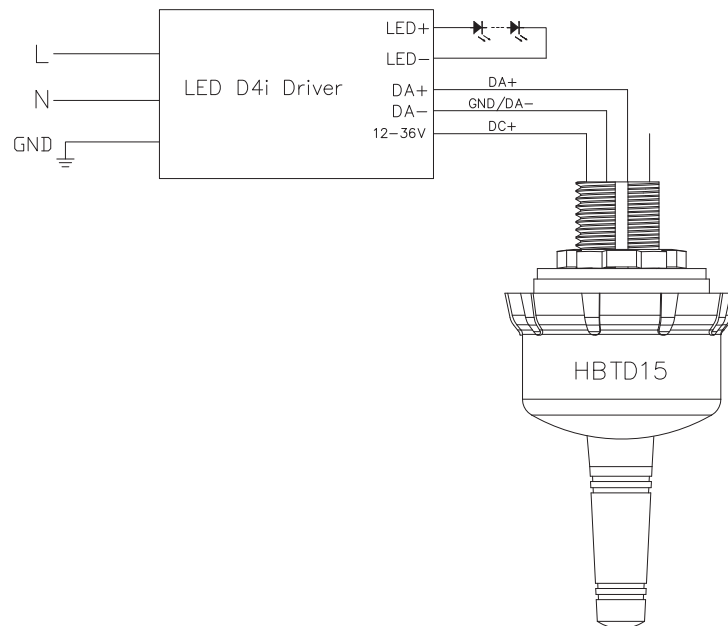
For some special Applications, customers may need a larger Bluetooth transmission for both smartphone to device and device to device. Thanks to the reinforced Bluetooth antenna, when there is a stable connection between two HBTD15s, the transmission distance (smartphone to devices) enlarges to 30m, the distance of device to device can reach 100m Max.



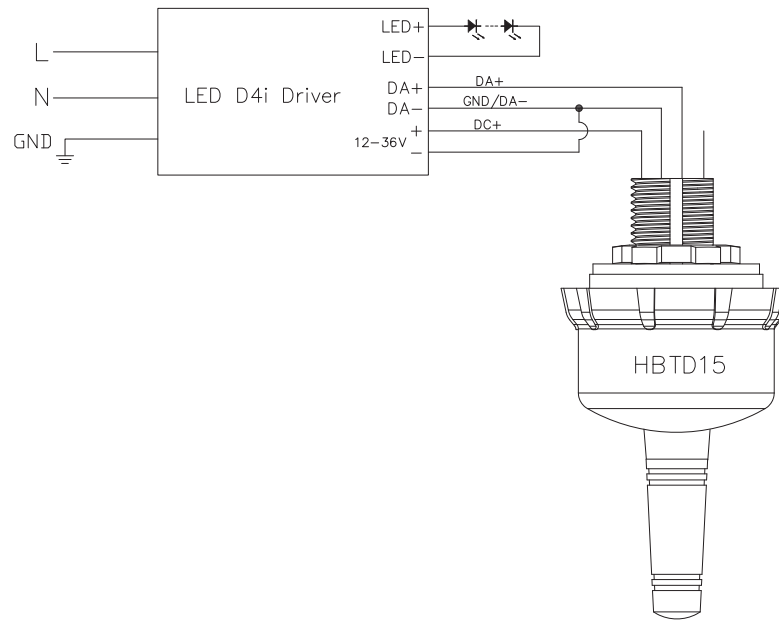
Wiring Diagram 1



Wiring Diagram 2



Wiring Diagram 3



Additional Information / Documents

1. To learn more about detailed product features/functions, please refer to [www.hytronik.com/download->knowledge->Introduction of App Scenes and Product Functions](http://www.hytronik.com/download->knowledge->Introduction%20of%20App%20Scenes%20and%20Product%20Functions)
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to [www.hytronik.com/download->knowledge->Bluetooth Products - Precautions for Product Installation and Operation](http://www.hytronik.com/download->knowledge->Bluetooth%20Products%20-%20Precautions%20for%20Product%20Installation%20and%20Operation)
3. Data sheet is subject to change without notice. Please always refer to the most recent release on [www.hytronik.com/products/bluetooth technology->Bluetooth Dimmers](http://www.hytronik.com/products/bluetooth%20technology->Bluetooth%20Dimmers)
4. Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download->knowledge->Hytronik Standard Guarantee Policy](http://www.hytronik.com/download->knowledge->Hytronik%20Standard%20Guarantee%20Policy)