HYTRONIK®

Bluetooth® | CE | UK CA | RED | IP65

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.
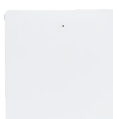
App Features

- 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 |

EnOcean
Self-powered IoT

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

Bluetooth® 5.0 SIG mesh

HYTRONIK Koolmesh | iOS | Android

for iOS | for Android
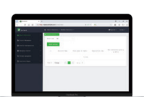
Smartphone app for both iOS & Android platform

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) 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.
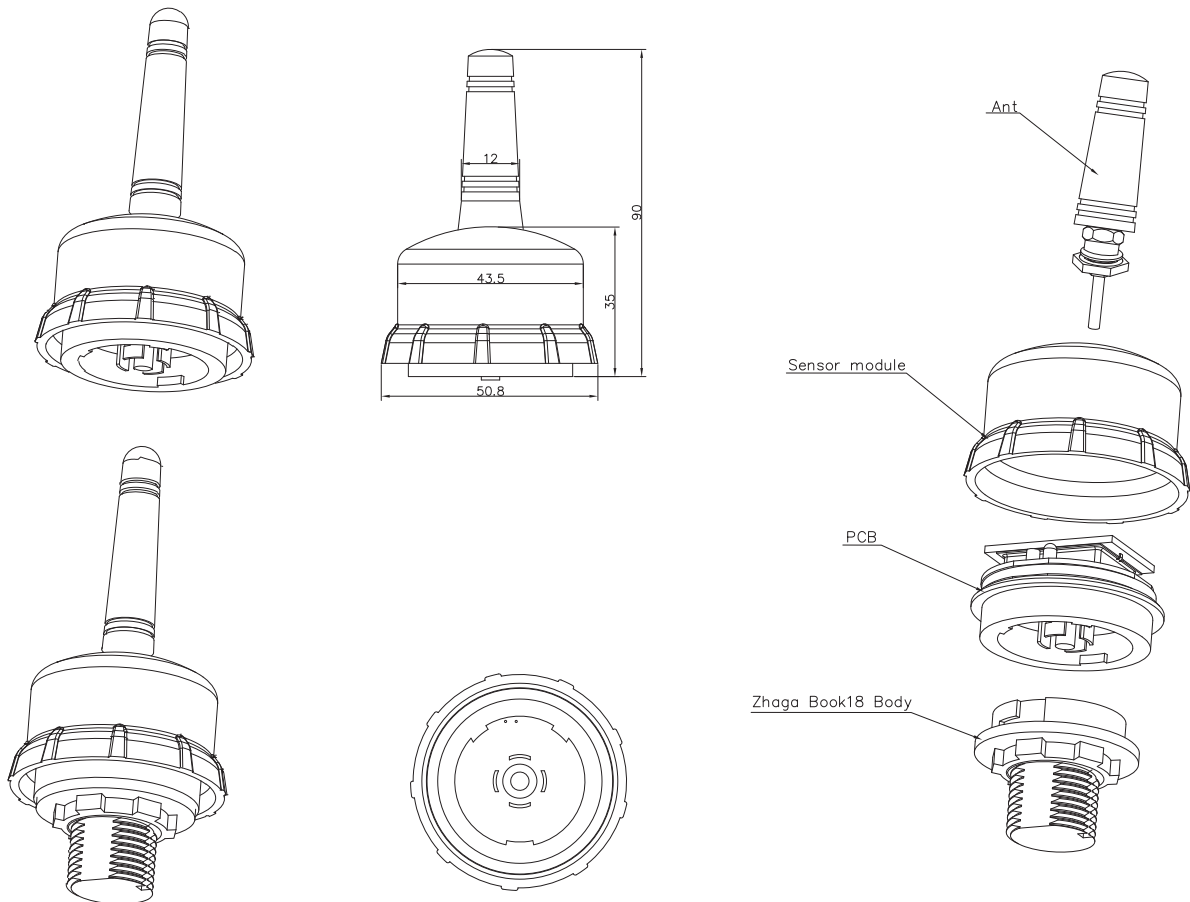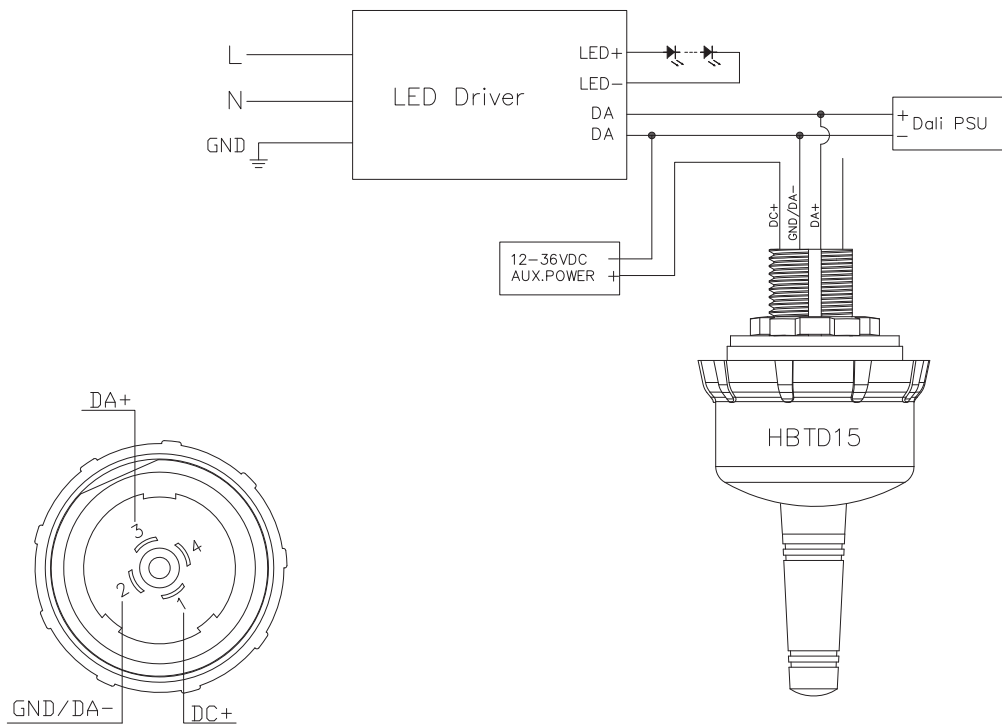
Receptacle Accessory

The HA18SKT receptacle is designed to be compatible with HBTD15. It provides a Zhaga Book 18 standard interface, suitable for roadway lighting, area lighting, and occupancy lighting applications.

Mechanical Structure & Dimensions
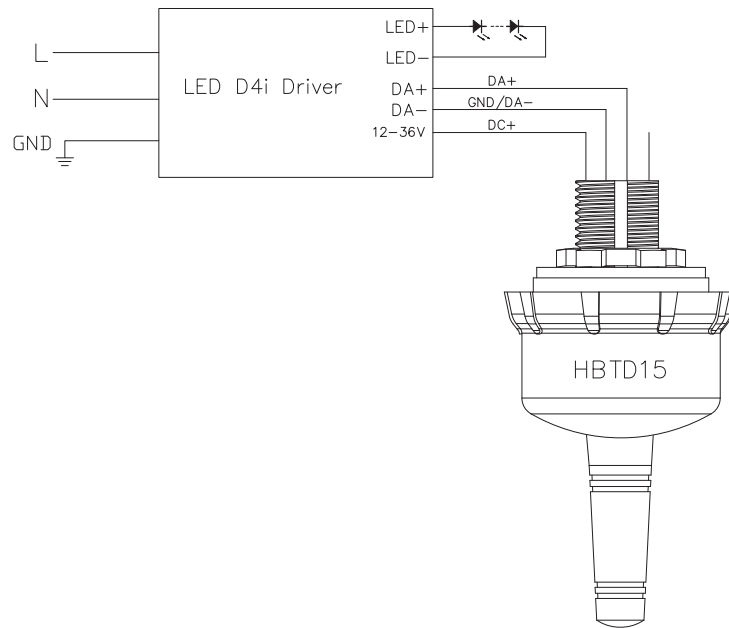

10.8	29.4	2.50

Protection cap   Body   Gasket   Lock Nut
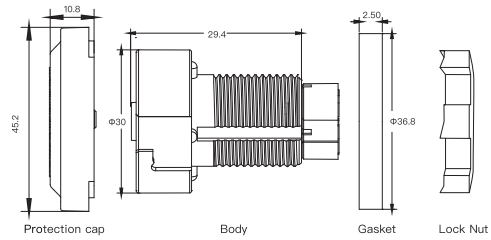
For more details, please refer to https://hytronik.com/product/ha18skt
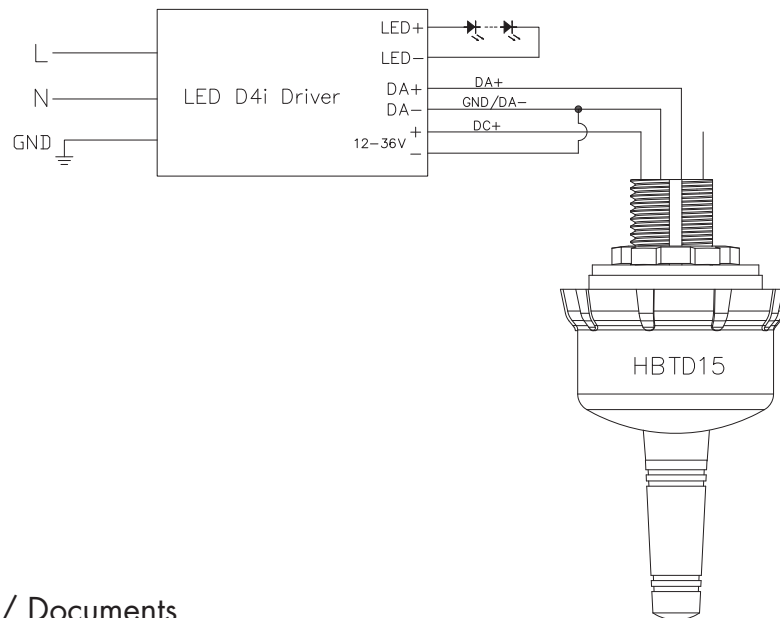Note: HA18SKT not included in the package.

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

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

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

4. Regarding Hytronik standard guarantee policy, please refer to
   www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy