


















Product Description








HBTD15V is a Bluetooth broadcast dimmer with 0 -10V output and compatible with the Zhaga book 18 standard, it allows for precise dimming control. With a built-in real-time chip, it ensures uninterrupted timekeeping for up to 1 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.




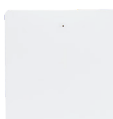




App Features

-  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 or HBGW02
-  Interoperability with Hytronik Bluetooth product portfolio
-  Compatible with EnOcean BLE switches
-  Continuous development in progress...





Hardware Features

-  Zhaga Book 18 standard
-  0 - 10V dimming control
-  Bluetooth range extender
-  Ability to keep real-time for up to 4 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

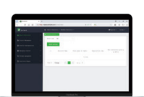


 **Bluetooth® 5.0 SIG mesh**

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

*The Bluetooth transmission distance of the iPad with the product (in meters):50 MAX.

*EnOcean and the transmission distance of the product via Bluetooth (in meters):25 MAX.

Input & Output Characteristics	
Operating voltage	12-36VDC (30mA MAX)
Output voltage	0 -10V Sink:2mA MAX. Source:100mA MAX.
Stand-by power	< 0.5W
Lux range	0~1000lux

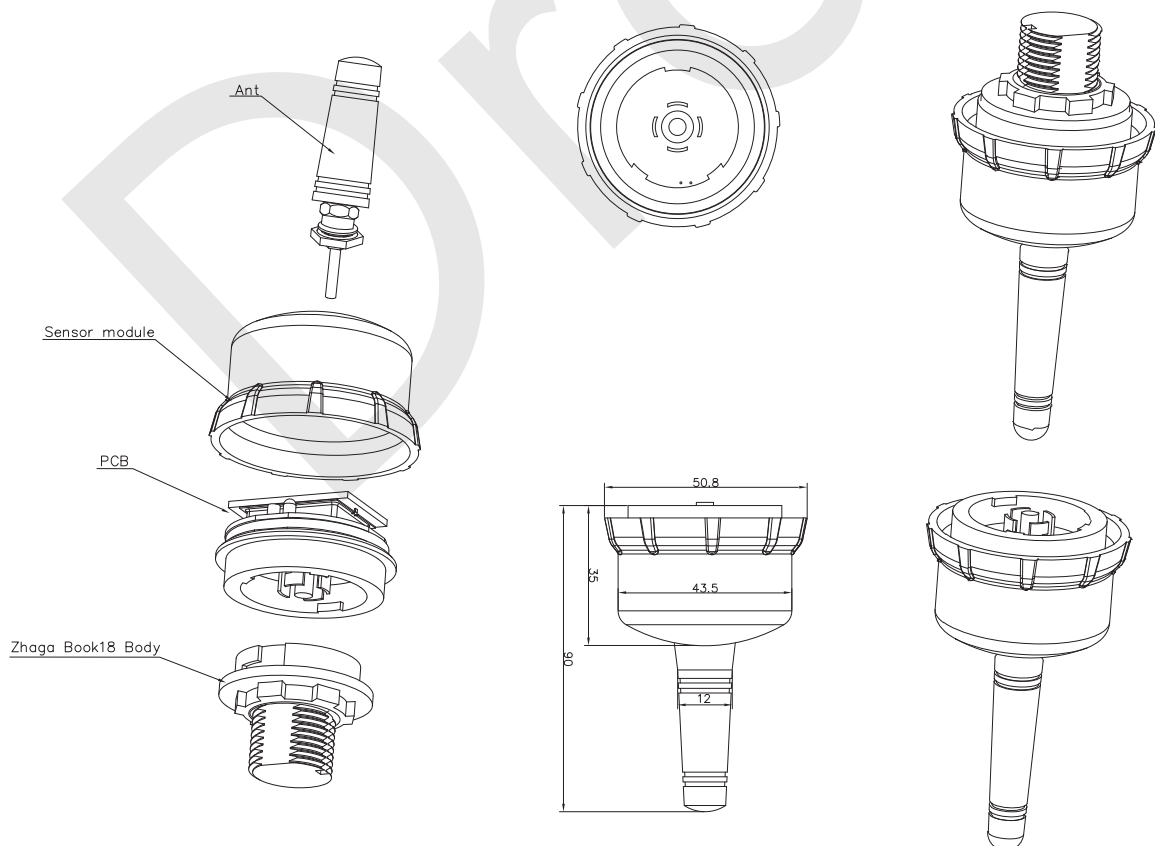
Environment	
Operation temperature	Ta: -20°C ~ +50°C
Storage temperature	-35°C ~ +55°C
Relative humidity	20 ~ 90%
IP rating	IP65
Insulation	Class II

Safety & EMC	
EMC standard (EMC)	
Safety standard (LVD)	
RED	

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 HBTD15V, the transmission distance (smartphone to devices) enlarges to 30m, the distance of device to device can reach 100m Max.

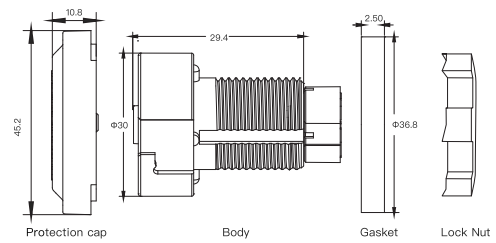
Note: To ensure optimal performance and long-term stability, we recommend installing the product in a downward-facing orientation within the fixture. This setup helps minimize exposure to direct sunlight, maintaining ideal operating conditions for reliable and lasting use.



Receptacle Accessory

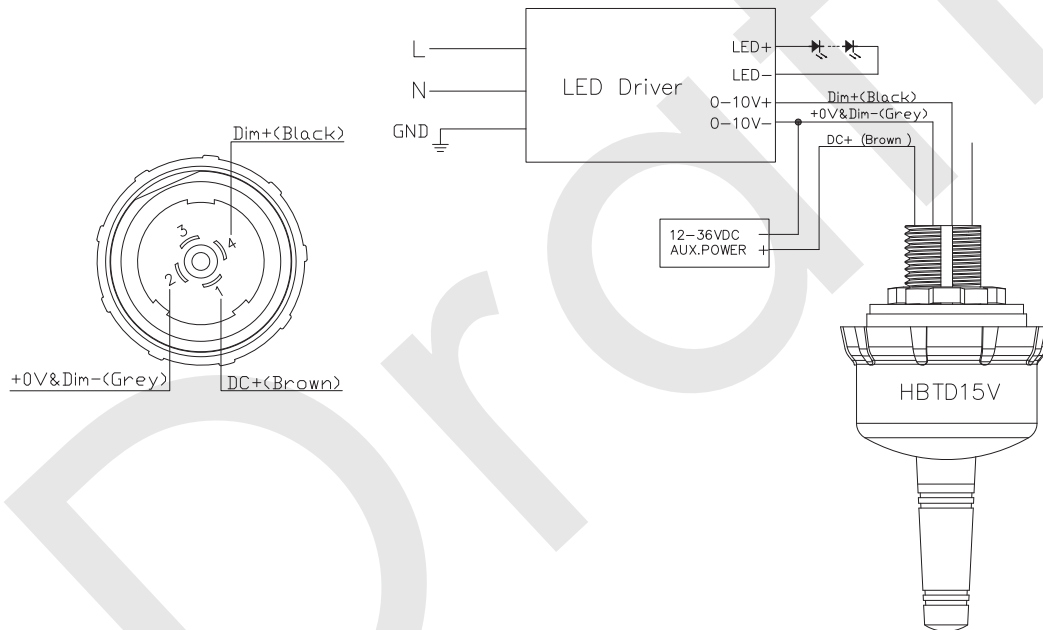
The HA18SKT receptacle is designed to be compatible with HBTD15V. It provides a Zhaga Book 18 standard interface, suitable for roadway lighting, area lighting, and occupancy lighting applications.

Mechanical Structure & Dimensions



For more details, please refer to <https://hytronik.com/product/ha18skt>
Note: HA18SKT not included in the package.

Wiring Diagram



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)