EN **Installation and Instruction Manual**

HYTRONIK®

# WIRELESS DIMMER - 150VA TRAILING EDGE VERSION HBTD8200T

## 1. Technical Specifications

| | |
|---|---|
| Product type | Bluetooth® Wireless Dimmer Module |
| Mains voltage | 230VAC 50Hz |
| Rated load | 150VA (Capacitive) / 200W (Resistive) |
| Stand-by power | <0.5W |
| Operation frequency | 2.4 GHz - 2.483 GHz |
| Transmission power | 7.5 dBm |
| Range (Typical) | 15 ~ 30m |
| Protocol | Bluetooth® 4 Wireless Mesh |
| Operation temperature | Ta: -20℃ ~ +50℃ |
| Case temperature (Max.) | Tc: +80℃ |
| Storage temperature | -10°C ~ 60°C |
| Max. relative humidity | 20 ~ 90% |
| IP rating | IP20 |
| Insulation | Class Ⅱ |
| EMC standard (EMC) | EN55015, EN61547, EN62479, EN61000 |
| Safety standard (LVD) | IEC/EN 60669, AS/NZS 60669 |
| Radio Equipment (RED) | EN300 328, EN301 489, EN62479 |

## 3. Download the App

Free smartphone App for set-up and comissioning

Download on the APP Store

iOS Compatible with iOS 8.0 or later

ANDROID Android version coming soon...

Please refer to the Dimmer App User Manual for operating instructions.

## 4. Manual Override (S1 & S2 terminals)

The Switch-Dim terminal reserves the access of manual override function for the end-user to switch on/off, or adjust the light level by push-switch. Furthermore,by using the "push-sync" option in the App, entire groups of fixtures may be wirelessly controlled by a single switch. Please refer to the App user guide for further information.

* Short Push (<1s): permanent on/off function; can also be configured to recall scene selection
* Long Push (>1s): adjust the brightness level by turning the light up or down.

Notes:

1) Both the adjustment on App and push switch can overwrite each other, the last adjustment remains in memory.

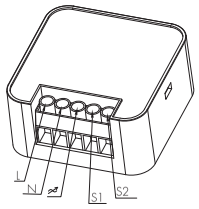
2) The switch functions are configured in the App.

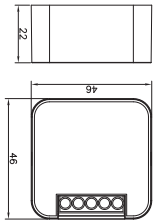
3) The S1 & S2 terminals may be left unconnected if no manual control is required.

## 2. Installation

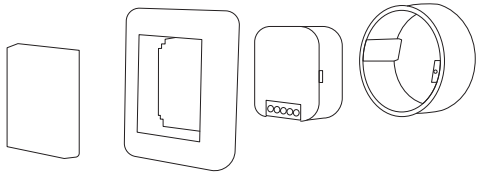
⚠ **Warnings:**

1. Installation must be carried out by a qualified engineer in accordance with local regulations.
2. Disconnect power supply before installing.
3. Ensure environmental conditions are suitable for electronic equipment.

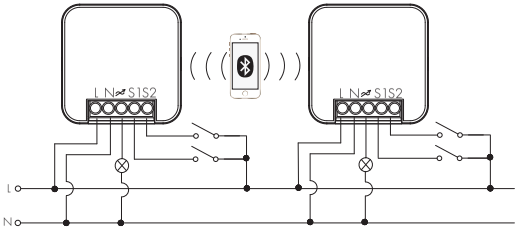



### Typical Switch Box Mounting

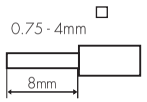


### Wiring Diagram



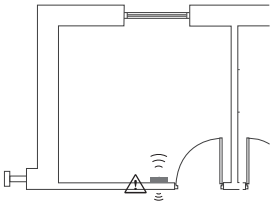

### Wire Preparation

Rising clamp terminal.

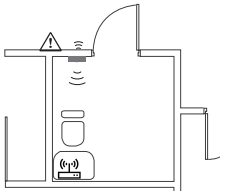



## 5 . Placement Guide and Considerations

Device to Device Placement



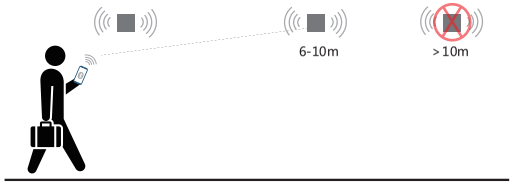
Concrete walls
Metals, and other
building materials
will reduce the range



⚠ Strong signal sources such as WiFi routers and microwave ovens will affect the range

Device placement may offer up to 30m communication distance. However, we recommend for indoor applications that device placements should be no further than 15m apart.

Smart Phone to Device Range




Notes:

The range for which a smart phone can communicate with the switch points will vary from model to model and is dependant on its Bluetooth® capability.

Device placement will also effect the smart phone communication range and may appear different for each switch position.

Finally, other environmental factors (as per opposite) will influence the ultimate achievable range of communication between smart phone and luminaire device.

## 6. Getting Started With App.

After downloading and installing the App, you will be required to either log in to your account or create a new account. AN INTERNET CONNECTION IS REQUIRED to register for the account. Accounts are used only for the purposes of backing up the mesh Network and settings information to a cloud based service. No other personal information is required other than a unique and valid e-mail address.

There are 2 account catagories; User or Installer. The User Account can be further selectable as 'Owner' or 'User'.

User Accounts:

Owner – This account is the top level account and is intended for the property owner. The owner account can manage permissions for other user accounts and can transfer ownership or invite other installer accounts.

User – This account at the base level may only operate simple features, such as scene selection or dimming. The Owner account holder may grant more permissions to a trusted user.

Installer Account:

This account type is intended for electrical contractors and commissioning engineers. This account will allow full access to the features of the App to set up the network and lighting controls on behalf of their client. When the work is completed, he may transfer the network details to the Owner account (client account).

Once registration is complete the App will guide the installer to add devices. The App has been designed to be intuitive and futher understanding of the App may be gained by referring to our Dimmer App Software guide.