EnOcean Wireless Switch with 🟦 **Bluetooth**® 5.0 SIG Mesh

HBES01/W   HBES01/B

Single / Double Rocker

HYTRONIK ®

🟦® ⚠ CE RED

Product Description

HBES01/W & HBES01/B are wireless wall switches based on the maintenance-free, self-powered Bluetooth Low Energy (BLE) pushbutton transmitter module PTM215B. It provides single-rocker and double-rocker options to enable wireless communication by EnOcean energy harvesting technology. For instance, the rocker movement ("short" or "long" press) can create electrical energy by pushing down or releasing, to achieve on/off, dimming control, scene recall, and quit manual mode based on **Koolmesh**™app. All simple device setup and commissioning can be done via the **Koolmesh**™app.

HBES01/W

Single Rocker: 2 push butons   Double Rocker: 4 push butons

HBES01/B

Single Rocker: 2 push butons   Double Rocker: 4 push butons

App Features

*Before using the EnOcean switch, have to make sure the function is applied to the corresponding push switch function settings;

Up to 4 EnOcean switches can be added to a Koolmesh Bluetooth node, provided the corresponding functions of each EnOcean switch are the same as programmed on the Koolmesh node.

Single Short Press

1. On/Off control

2. Scene recall

3. Quit manual mode

Press And Hold

1. Dimming control

2. Colour tuning (Warm to Cool White)

🟦 **Bluetooth 5.0 SIG mesh**

Smartphone app for both iOS & Android platform

Koolmesh Pro app for iPad

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

Hardware Features

⟳ Inertia powered

Single & Double-rocker switch options (both switch options are supplied in the box)

Friendly installation for wall by 3M sticky pads

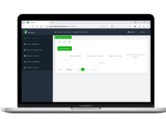## Technical Specifications & Dimensions

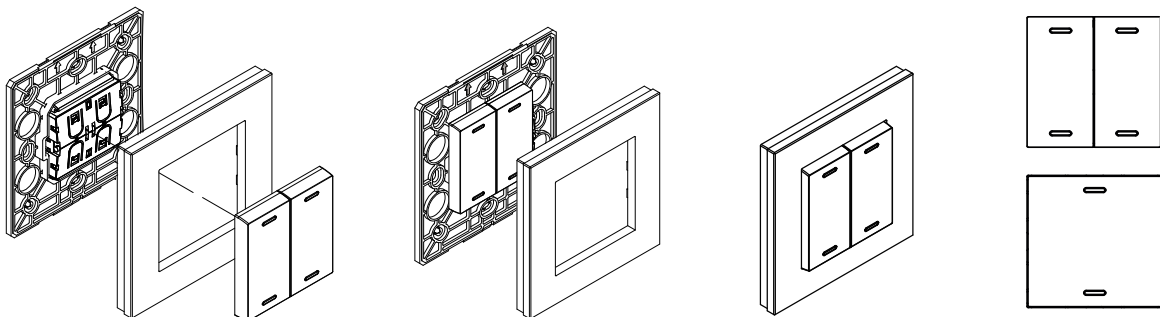| Bluetooth Transceiver	
Energy Source	Electro-dynamic energy generator, maintenance free
Operation frequency	2.4 GHz / Bluetooth Low Energy (BLE)
Transmission power	4 dBm
Range (Typical indoor)	Within one room (up to 10 m line of sight)
Protocol	❸Bluetooth® 5.0 SIG Mesh

Environment	
Operation temperature	Ta: -25°C ~ +65°C
Relative humidity	0% ~ 95% non-condensing (dry environment only)

Dimensions	
Overall Frame	81 x 81 mm
Total Installation Height	14 mm (frame lies directly against the wall)

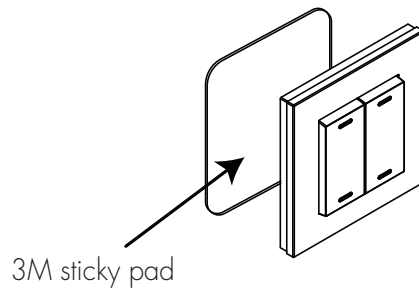| Feature Overview	
Radio Transmitter	PTM 215B pushbutton module with integrated antenna
Channels	2 or 4 (single or double rocker with medial position, pressed/released)
Mounting	Double sided adhesive pad option is being supplied in the box, for use on flat surfaces only
Lifetime	> 50.000 actuations (switching cycles) according to EN 60669 / VDE 0632
Packaging	Single unit is packed in cardboard box with both switch options
Certification	RED, FCC, ISED, ACMA

Mechanical Structure

Option 1: Wiring

Note: 1. Suggest mounting onto plastic backbox

2. Minimal depth back box required as the module is flat with rear surface of the faceplate

3. Fixing centres should fit UK standard single gang pattress/back box; If required, fixing centres are available to suit a single-gang BS back box for attaching to the wall box

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Option 2: Stick

3M sticky pad

Dimming Interface Notes

Detailed Push switch configurations can be set on Koolmesh app.

Switch Function	Action	Descriptions	
Push switch	Short press (<1 second) * Short press has to be longer than 0.1s, or it will be invalid.	- Turn on/off - Turn on only - Turn off only	- Recall a scene - Quit manual mode - Do nothing
	Long press (≥1 second)	- Dimming - Colour tuning (Warm to Cool White) - Do nothing	