

## Bluetooth® Kinetic Switch

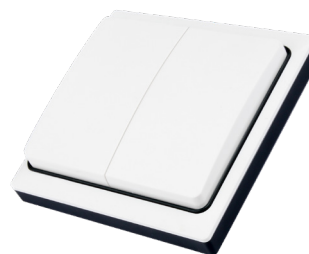
HBKS02D/W HBKS02D/B

Double Rocker Switch



### Product Description

HBKS02D series is a double rocker Bluetooth kinetic switch (self-powered), with a lifespan of 100,000 repeated presses, and available in black and white. It requires no batteries or wiring, offering the flexibility to be freely placed or adhered to according to the needs. Moreover, HBKS02D series features "short press" and "long press" button combinations, allowing to achieve dimming control, scene recall, and quit manual mode through the **Koolmesh®** app. All simple device setup and commissioning can be done via the **Koolmesh®** app.



### App Features

#### 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)

### Hardware Features

- Self powered
- Without battery
- Without wiring
- Freely placeable

### Technical Specifications & Dimensions

#### Bluetooth Transceiver

|                        |                     |
|------------------------|---------------------|
| Operation frequency    | 2.4 GHz - 2.483 GHz |
| Transmission power     | 0 dBm               |
| Range (Typical indoor) | 10~30m              |
| Protocol               | Bluetooth®          |

⚠ Note: Bluetooth transmission performance may be affected by various factors, including but not limited to the force applied to buttons during operation (which may impact power supply stability) and actual environmental conditions such as electromagnetic interference and physical obstructions.

#### Overview

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| Power supply          | Self-powered (kinetic energy)                                                     |
| Channels              | 4 (double rocker)                                                                 |
| Mounting              | Adhesive pad option is being supplied in the box, for use on smooth surfaces only |
| Lifetime              | 100,000 actuation (switching cycles)                                              |
| Housing material      | PC                                                                                |
| Switch pressing force | ≈800g (reference only, individual variations exist)                               |
| Dimensions            | 86 x 86 x 16.5mm                                                                  |
| Operation temperature | Ta: -10°C ~ +40°C                                                                 |
| IP rating             | IP20                                                                              |

for iOS for Android

Smartphone app for both iOS & Android platform

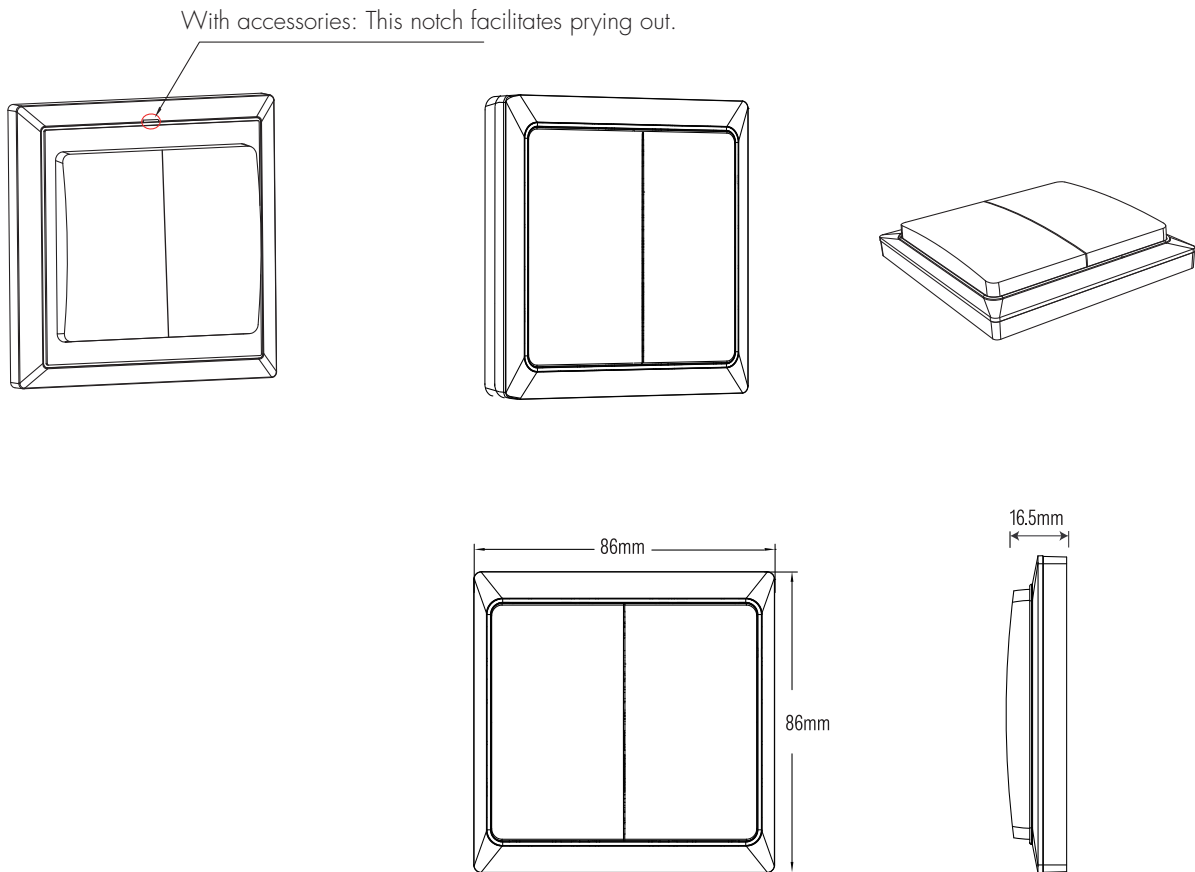
for iPad

Koolmesh Pro app for iPad

for Web

Web app/platform: [www.iot.koolmesh.com](http://www.iot.koolmesh.com)

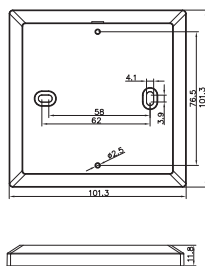
Mechanical Structure & Dimensions



Optional Accessories For Switch Bezel

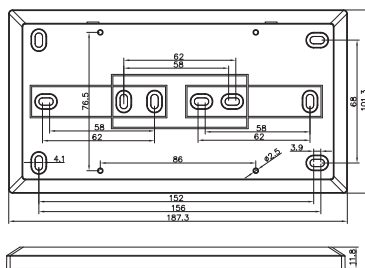
The Switch Bezel is an accessory for Hytronik kinetic switches. It enhances accessibility, especially for those with impaired vision or limited hand mobility. Compliant with the UK's Part M regulations, it ensures safe and easy usage for everyone.

HAKS01/W, HAKS01/B (size:mm)



For the installation of a single switch

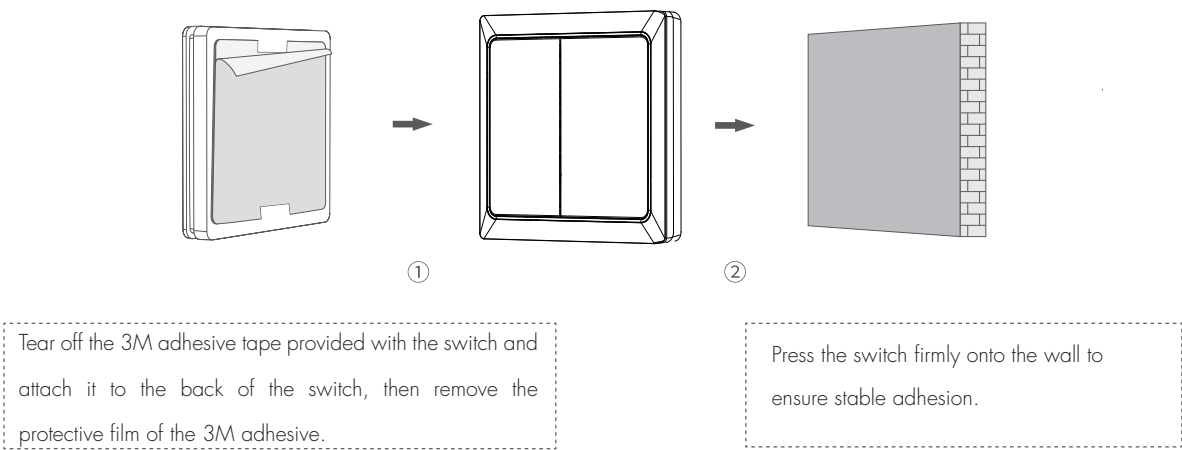
HAKS02/W, HAKS02/B (size:mm)



For the installation of double switches

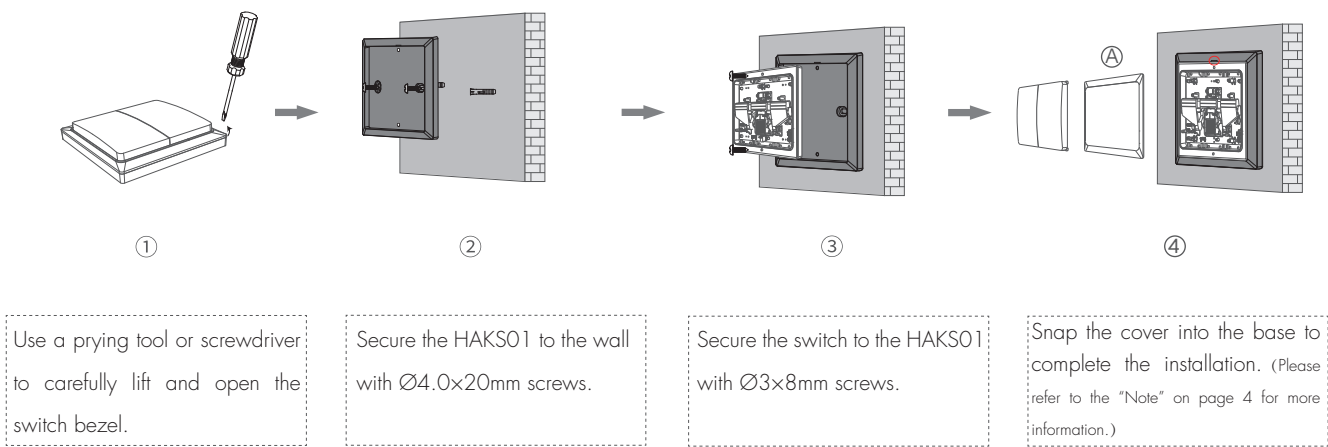
### Method 1: Adhesive Mounting

\*If the wall surface is clean and smooth, directly peel off the double-sided adhesive tape and stick the switch to the wall.

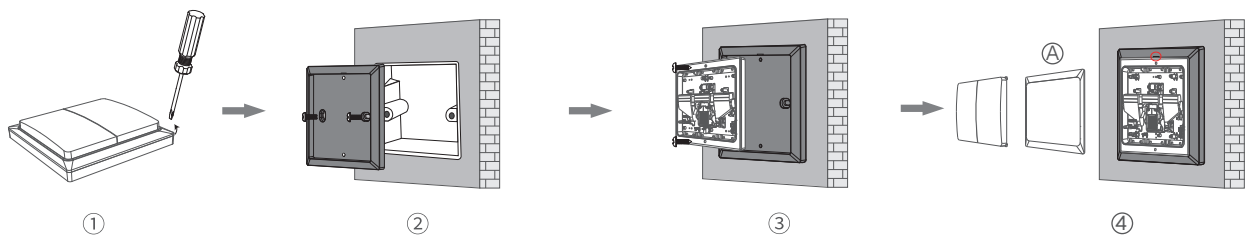


### Method 2: Installation Onto the Wall Using the HAKS01.

\*Without the switch bezel, the switch cannot be mounted directly onto the wall



### Method 3: Installation Onto the Switch Box Using the HAKS01.



① Use a prying tool or screwdriver to carefully lift and open the switch bezel.

② Secure the HAKS01 to the switch box with  $\varnothing 4.0 \times 30\text{mm}$  screws.

③ Secure the switch to the HAKS01 with  $\varnothing 3 \times 8\text{mm}$  screws.

④ Snap the cover into the base to complete the installation.  
(For details, refer to the "Note" below.)

⚠ \*Note: Please control the screw tightening torque during assembly (recommended  $\leq 0.1 \text{ N}\cdot\text{m}$ ) to avoid panel deformation caused by uneven stress, which may affect button feel or function. Proper torque ensures both structural stability and appearance quality.

\*Note: For future switch repositioning or replacement.

At the accessory groove, use a pry tool or a  $\varnothing 3\text{mm}$  screwdriver to gently lift and remove the A border. This will expose the two screw holes from installation step 3, enabling future disassembly or replacement.

### Dimming Interface Notes

Detailed Push switch configurations can be set on Koolmesh app.

| Switch Function | Action                                                                                          | Descriptions                                                                                                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Push switch     | Short press ( $< 1$ second)<br>* Short press has to be longer than 0.1s, or it will be invalid. | <ul style="list-style-type: none"> <li>- Turn on/off</li> <li>- Turn on only</li> <li>- Turn off only</li> <li>- Recall a scene</li> <li>- Quit manual mode</li> <li>- Do nothing</li> </ul> |
|                 | Long press ( $\geq 1$ second)                                                                   | <ul style="list-style-type: none"> <li>- Dimming</li> <li>- Colour tuning (Warm to Cool White)</li> <li>- Do nothing</li> </ul>                                                              |

## Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to  
<https://hytronik.com/product/hbks02d-w>
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to  
<https://hytronik.com/service/downloads> (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  
<https://hytronik.com/products/system-level-components>
4. Regarding Hytronik standard guarantee policy, please refer to  
<https://hytronik.com/service/downloads> (Guarantee Conditions document)