

**sensor**  
ACCESS TECHNOLOGY

# EB-09

## Install Guide

The EB-09 is a heavy duty, illuminated, vandal resistant, analogue timed switch, designed for both indoor and outdoor use.

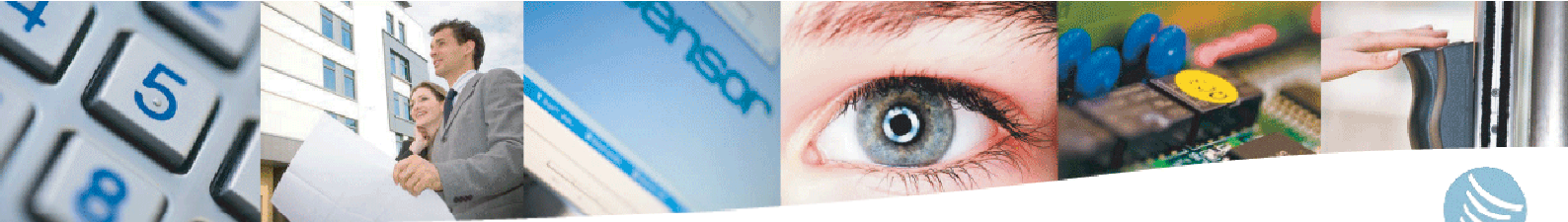
The Piezoelectric switch generates a dry contact N.O. and N.C. relay pulse simply by placing your finger on it with no physical movement or moving parts.

The EB-09 includes features such as solid state Piezoelectric Switch Technology, an adjustable output time of 1 to 60 seconds and field selectable illumination status. This feature allows you to select from a number or vibrant colour options to show relay ON or relay OFF status.

Dimensions	114mm (H) x 44mm (W) x 32mm (D)	
Weight	173g	
Operating Environment	Meets IP-65	
Input Current (Standby)	15mA @ 24vDC	
Input Current (Maximum)	140mA @ 24vDC	
Voltage Range	10 to 24 vDC from a regulated supply	
Colour	Silver	
Material	Brushed Stainless Steel	
Jumper Selectable Relay	Normally ON or OFF	
Operating Humidity	0 to 95% (non-condensing)	
Operating Temperature	-40°C to 63°C	
Relay Life Expectancy	100,000 @ 2A 30vDC 500,000 @ 1A 30vDC	

### Installation:

1. Select a flat wall in close proximity to the door or item the switch will control
2. Ensure that there are no iron beams, door frames or other obstructions that would prevent the insertion of the inlay in the wall.
3. Mark the dimensions of the inlay on the wall: 114mm x 44mm x 32mm
4. Make a hole in the wall measuring the required dimensions adding ½ cm on all sides in order for the gang box to slide in smoothly.
5. Unscrew the cover on the small box containing the jumpers.
6. Set the jumper connections located on the upper left side of the inlay box – see jumper settings.
7. Screw the sealed cover back on the small box containing the jumpers.
8. Test the switch before fixing to the wall.



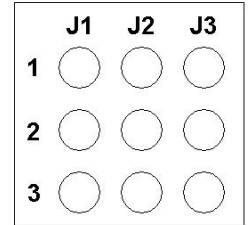
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### Jumper Settings:

The EB-09 has 3 internal jumpers that can be connected to enable various features, including:

- Setting the LED Colour
- Setting the mode and the time duration of colour change



### To set the LED Colour:

Determine the colour pattern desired and set the jumper connections accordingly

**Warning:** Selecting yellow is not recommended as it causes a higher electrical expectancy and may cause the unit to malfunction.

LED Colour Options	
Base Colour	Activated Colour
OFF	GREEN
GREEN	OFF
OFF	RED
OFF	YELLOW
GREEN	RED
RED	OFF
RED	GREEN
YELLOW	OFF



Jumper 1 Setting	Jumper 2 Setting
** No Jumper	Connect 1 - 2
** No Jumper	Connect 2 - 3
Connect 1 - 2	** No Jumper
Connect 1 - 2	Connect 1 - 2
Connect 1 - 2	Connect 2 - 3
Connect 2 - 3	** No Jumper
Connect 2 - 3	Connect 1 - 2
Connect 2 - 3	Connect 2 - 3

\*\* When using only one Jumper connection, put the second in a safe place for future use

### Mode Feature Jumpers

You can set a timer determining how long the LED remains activated after button press or whether the LED toggles between two colours by setting Jumper 2 as follows:

Jumper 2 set between posts 1 & 2	LED toggles between two colours
Jumper set between posts 2 & 3	The timer feature is activated

**Warning:** if jumper 2 is not set to either of these options then the switch will not work

### Toggle Feature

The toggle option allows you to toggle between two colours upon button press.

### Timer Feature

When Jumper 2 is connected between posts 2 and 3 it sets the timer for the relay activation and for the LED to remain lit between 1 and 60 seconds after button press, depending on the setting. The default time is 4 seconds.

### To set the timer:

Turn the potentiometer until the activated light stays lit for the desired amount of seconds.

Note: Turning the timer clockwise all the way sets the timer for one second. Turning the timer anti-clockwise all the way sets the timer for 60 seconds.