

Infrared Touchless Switch (J-Wave)

User Manual

HOTRON
INSPIRING CONFIDENCE



The J-Wave is a highly sensitive, high performance switch designed to activate automatic doors by detecting the movement of a person or object. For the safe and accurate use of this product, please read this instruction manual carefully.



1 Technical specifications

Composition	Proximity Sensor Switch	1EA
	Cable	1EA
	Mounting Template	1EA
	Screw	2EA
	User Manual	1Copy
Specification	Power Supply	DC12~30V, AC12~24V
	Dimensions	40mm x 117mm x 19.5mm (W x L x H)
	Technology	Active Infrared
	Detection Range	10~30cm ±3~5cm
	Detection Mode	Motion
	Output	Relay Contact (1A/30VDC)
	Output Hold Time	1~2 Sec. (PULSE mode)
	Current Consumption	< 1.5W
	Operating Temp/Humidity	-20°C~+50°C / 0~90%
	International Protection	IP54

2 General Information

LED Indicator

Front Case

Output Mode: Toggle or Pulse

Sensitivity volume

Sensor

Connector

Screw Hole

Waterproof Pad

Cable Hole

LED Indicator

- Green : Standby
- Red : Detecting

Disassemble Front Case

Use a ⊖screwdriver to remove the front case.

3 Installation Guide

- 1 Affix mounting template and drill holes**
- 2 Waterproof pads are attached to the inner case.**
- 3 Screw the Inner Case and Waterproof Pad to the wall**
- 4 Connect the power cable to the sensor body**
- 5 Assemble the Front Case.**
 - 1** While holding up the front case at a right angle (90°), fit it onto the inner case from the top.
 - 2** Before completely fitting the bottom side of the J-Wave draw out with your nail the part where the waterproof pad is caught, and then assemble completely.



Caution

Do not supply power during installation.
Do not disassemble or modify the device, it may cause fire or electric shock

4 Wiring Diagram

2 power wires & 2 relay contact wires.

POWER LINE
DC 12~30V
AC 12~24V

CONTACT LINE

5 Sensitivity Adjustment

Sensitivity is adjustable by setting the volume on the sensor body

Min. 10cm Max. 30cm

10cm 30cm

6 Toggle mode / Pulse mode

Toggle mode : Recommended for Switch applications.
In toggle mode, a detection activates the relay and a second detection deactivates it again. In door applications, the door stays open after the first activation.

Min. 1s

Relay ON
Relay OFF

DOOR OPENS DOOR CLOSSES

Pulse mode : Recommended for automatic door applications.
In pulse mode, a detection activates the relay for a short period of time (depending on the duration of the movement in front of the sensor).

Relay ON
Relay OFF

DOOR OPENS AND CLOSSES DOOR OPENS AND CLOSSES

7 Mounting Information

- 1 Avoid its exposure to direct sunlight**
- 2 Avoid objects in front of the sensor**