

Microwave Touchless Switch (ClearWave)

Instruction Manual

Sensor Partners



CE 2150

U.S.
FCC ID: UXS-IPM165F

Canada
IC: 6902A-IPM165US

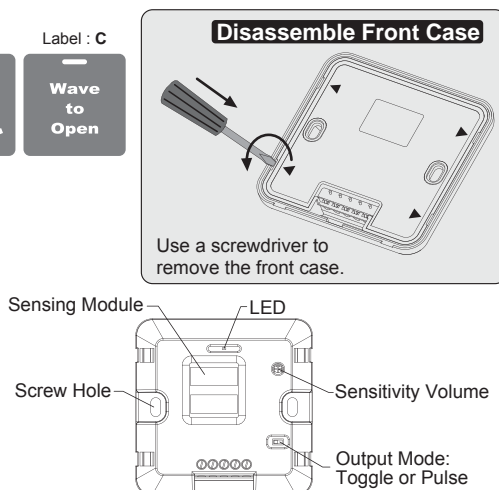
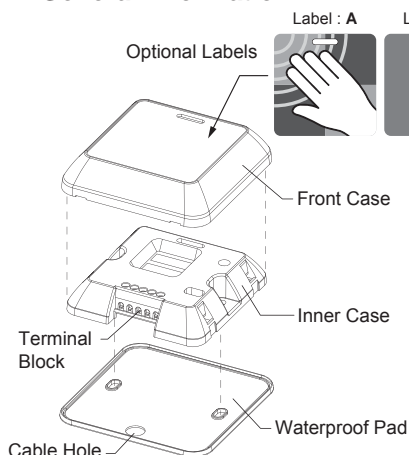
The ClearWave is a highly sensitive, high performance switch designed to activate automatic doors by detecting the movement of a person or object. For the safe and accurate use of this product, please read this instruction manual carefully.

1 Technical specifications

Technology : Microwave Motion Sensor
Microwave Module : 24.125GHz
Product Size : 85.9mm × 85.9mm × 20mm (W × L × H)
Detection Range [Hand] : ±5~40cm
Detection Mode : Motion (Bi-directional)
Speed of Target : Min. ±3cm/s, Max. ±1.5m/s

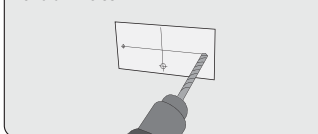
Power Supply : DC 12~30V, AC 12~24V
Current Consumption : < 1.4W
Output : Relay Contact (1A/24VDC)
Output Hold Time : 1.2Sec. (PULSE mode)
Operating Temp/Humidity : -20°C~+60°C/0~90%
International Protection : IP54

2 General Information

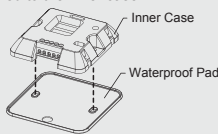


3 Installation Guide

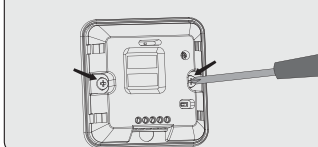
1 Affix mounting template and drill holes



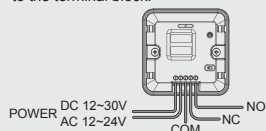
2 Waterproof pads are attached to the inner case.



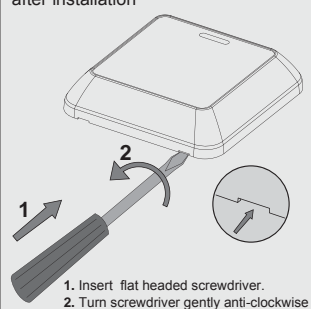
3 Fix the case to the wall



4 Connect power and relay wires to the terminal block.



How to remove the Clearwave cover after installation



Caution

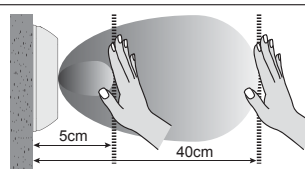
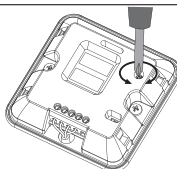
Do not supply power during installation.

Do not disassemble or modify the device, it may cause fire or electric shock

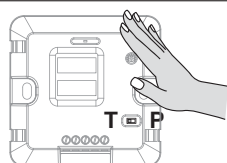
4 Sensitivity Adjustment

Sensitivity is adjustable by setting the volume on the sensor body

Min. 5cm
Max. 40cm

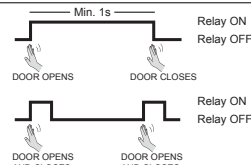


5 Toggle mode / Pulse mode



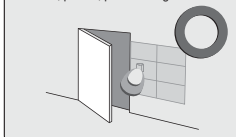
Toggle mode : Recommended for Switch applications. In toggle mode, a detection activates the relay and a second detection deactivates it again. In door applications, the door stays open after the first activation.

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).

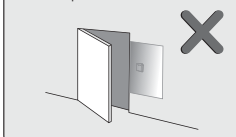


6 Mounting Information

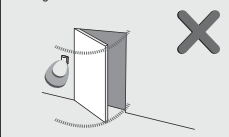
1 The sensor can be placed behind tiles, wood, plaster, plastic and glass.



2 Do not place the sensor behind metallic plates.



3 Do not place the sensor in the opening range of the door.



4 Avoid moving objects in front of the sensor

