Specification

Product Name: PIR Switch sensor

Product Model: MC168S IR

Versions	Release/ Update Date	Reason	Publishing
V1.0	24-Jul-2024		James Guo

【**Product Feature**】

- Designed for LED fixtures, side mounted ON/OFF function PIR sensor.
- Easily programming detection area, hold time and daylight threshold by the rotary switch
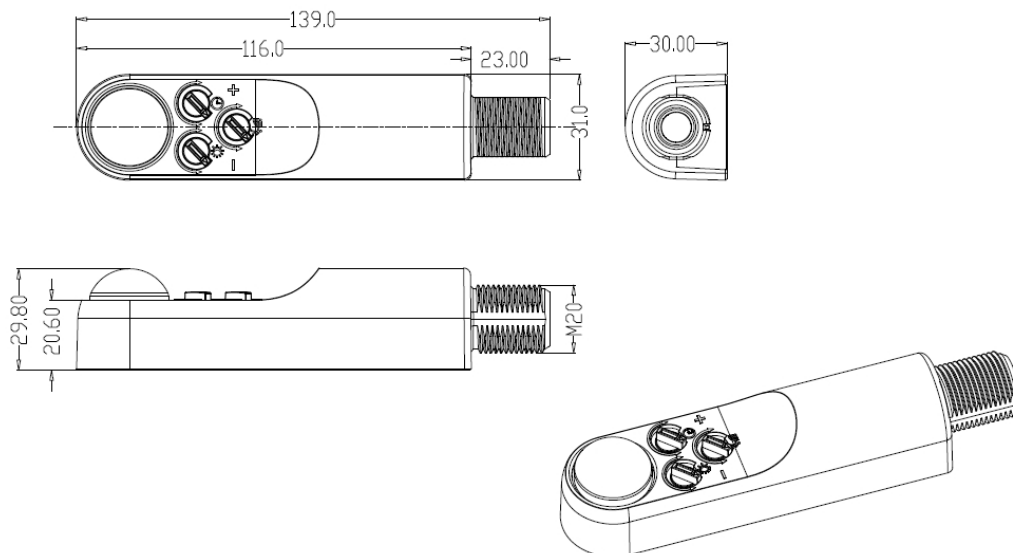- Max mounting height 6 m

【**Parameters**】

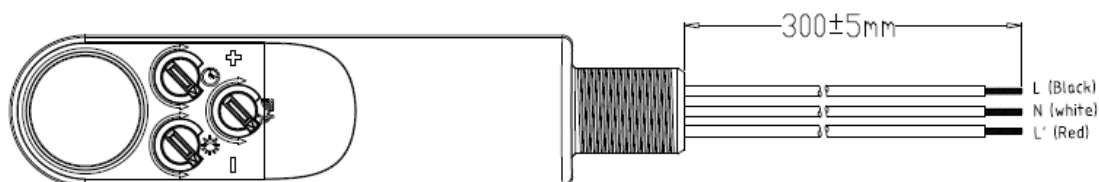| Input	
Operating Voltage	220-240Vac
Rated Voltage	230Vac
Stand-by Power	≤0.5W
Surge Test	1KV（L/N, EN61000-4-5）
Output	
Working Mode	ON/OFF
Load Type	Inductive Load/Resistive Load
Load Power	200W@230VAC(Inductive Load)，400W @230VAC(Resistive Load).
Load Surge Current	30A (50% Ipeak, Twidth 200us @230Vac full load, cold start)
Sensor Parameters	
Detection Way	PIR
Hold Time	5s/30s/1min/5min by rotary switch
Detection Area	100%/75%/50%/25% by rotary switch
Daylight Sensor	10Lux/30Lux//50Lux/Disable (Diffusion) by rotary switch
Detection Range(Radius)	Ceiling Mounting at 3m high, r≥3m@0.6~1m/s tangential direction Wall mounting at 1.2m high, r≥6m@0.6~1m/s tangential direction
	Test condition: 100% sensitivity, indoors, no direct sunlight to sensor, no wind, Temperature 25℃
Mounting Height	3m (6m Max)
Environment	
Operating Temperature	-20℃~+55℃
Storage Temperature	-40℃~+80℃, humidity≤85%（Non-condensing）
Certificate Standards	
Safety (LVD) standard	EN61058-1-2, EN61058-1
Surge	1KV（L/N, EN61000-4-5）
EMC Standards	EN55015
Environmental Requirement	Compliant to RoHS 2.0, Reach
Certificates	CE, RED
IP Rating	IP65
Product classification	Class II
Others	
Wiring	Lead wire, wire diameter: 0.75mm^2
Installation	External side mounting
Package	Bubble bag + cardboard + outer carton（K=A）

Net Weight	67.5±3g
Lifetime	3 years warranty@Ta 230Vac full load

【Product Information】

● Dimension（units：mm）

139.0
116.0
23.00
31.0
30.00

29.80
20.60
M20

● Wiring

300±5mm
L (Black)
N (white)
L' (Red)

● function

Adjustable Detection Area
Hold Time
Antenna module
N(white)
L(Black)
L'(Red)
Daylight threshold
Daylight Sensor
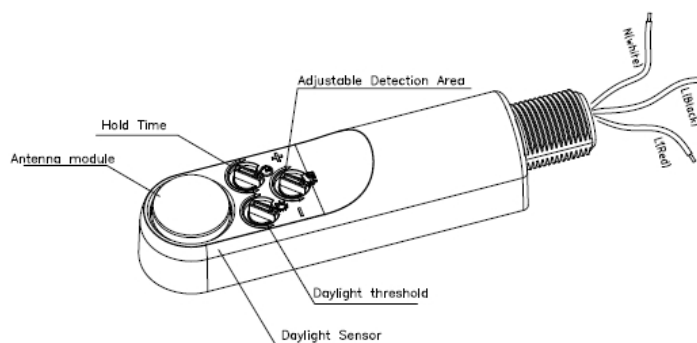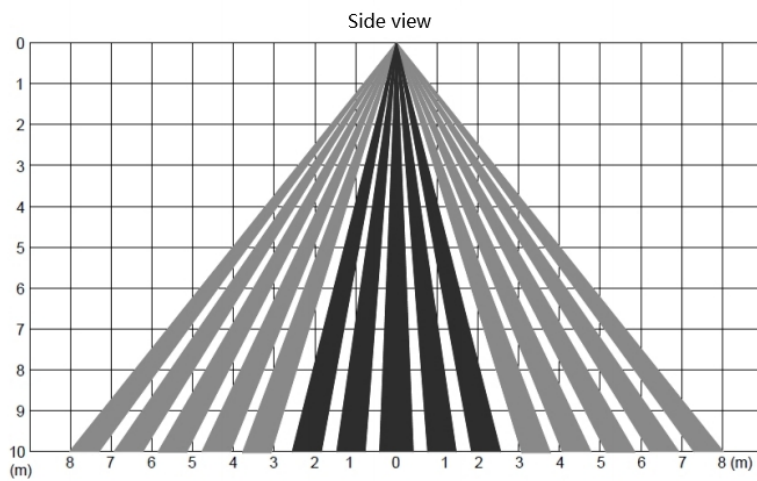
● 【**Installation Instruction**】

Waterproof O-type pad

【**Detection Range**】

Side view

Top view
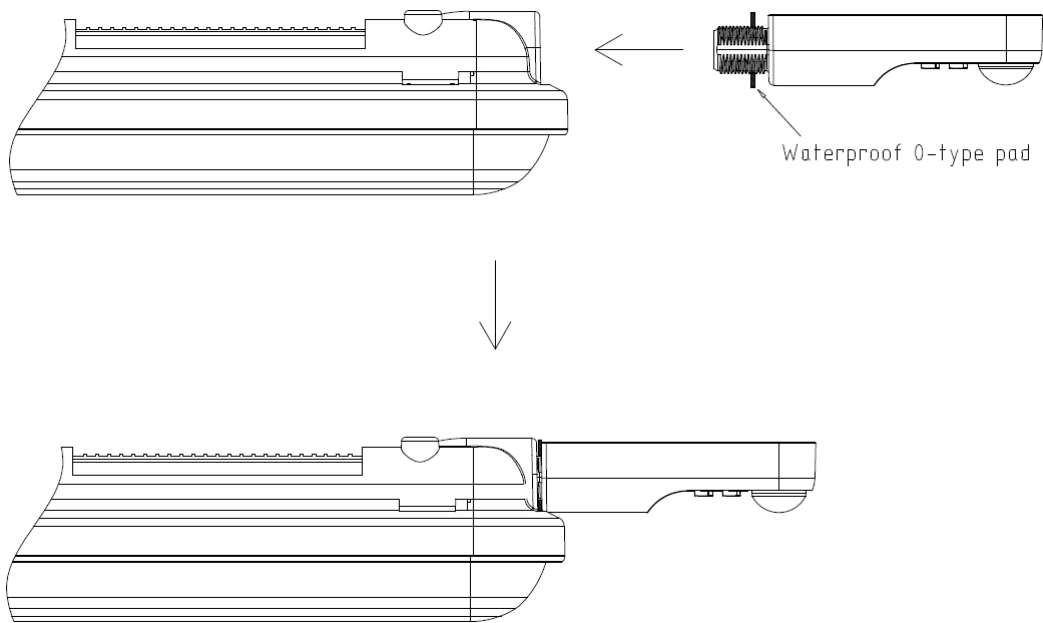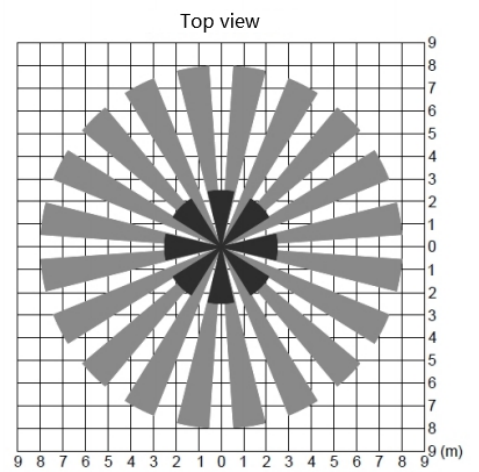
【rotary switch function】
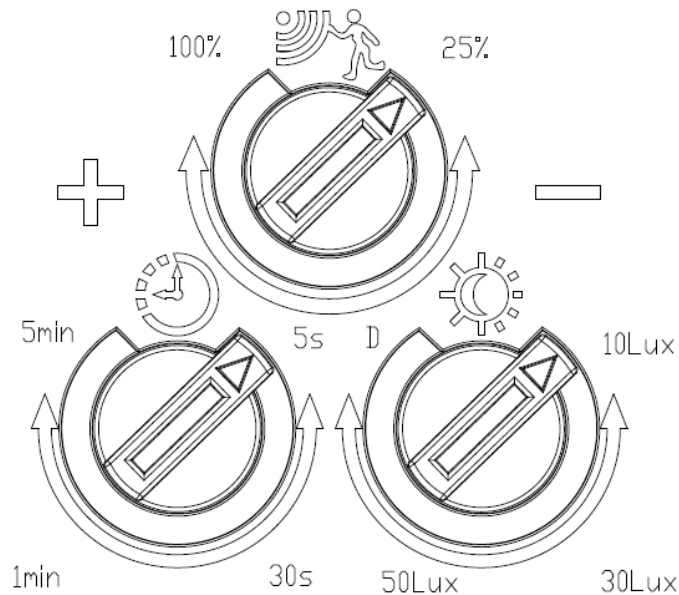
【Initialization】

After power on, the sensor automatically turns on light to 100% brightness and turns off light in 45±5 seconds. During initialization, sensor is not able to detect movement.

【Default setting】

Sensitivity: 100%   Hold-time: 5s   Daylight sensor: Disable

【Application Notice】

● Sensor should be installed by a professional electrician. Please turn off power before installing, wiring.

● The typical installation height is 3m. It's for indoor use only, in order to avoid false trigger by the ambient temperature. Pls do not install in locations sensitive to temperature or airflow changes, to avoid sensing failure due to false trigger or high temperature.

● Sensors should be kept away from air conditioners, refrigerators, exhaust vents, furnaces, and other places sensitive to changes in air temperature.

● Sensors should not be obstructed by screens, furniture, large bonsai or other isolating objects within the detection range.

● Reflective objects should be avoided directly in front of the sensor, reflecting light will cause the sensor to be triggered incorrectly.

● Sensors should not be installed indoors directly in front of a window, otherwise the disturbance of thermal airflow outside the window and the movement of people will cause false alarms. The sensitivity of PIR sensors to the human body is also highly related to the direction of human movement, radial movement is at the least sensitivity, while highly sensitive to the cross section direction (perpendicular to the radius).

● The distance detect standards: At night, indoor ambient temperature of 25℃, humidity 50-70%, the human body surface temperature of 36-37 degrees, people walk in the cross-section direction at the speed of 0.6 ~ 1m / s. The maximum sensing angle of the product is based on highest sensitivity setting, if set at low sensitivity can not fulfil the maximum sensing angle. The sensing distance is related to the height of the tester, the installation height and working environment etc.

● As PIR sensor probe is relatively fragile, pls pay attention to protection during production, storage, handling, transportation, consumer installation, and need to be gently held and put under no effective protective packaging. If the product falls may cause the infrared probe to appear hidden cracks or damage to the inner chip, then it will not work or false trigger.