

# Rotatable Multi-angle Reflective Infrared Photocell Sensor

YET612 V1.0 < Blind Spot Free Version >

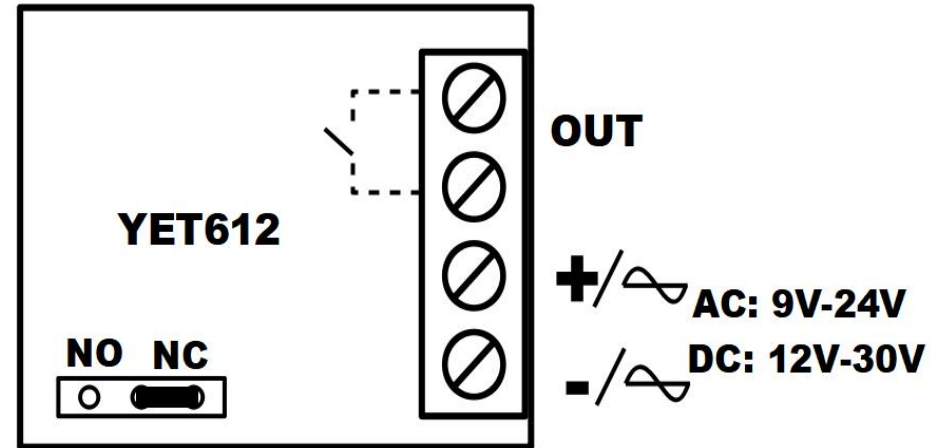
## I. Product Application

lift gate, revolving door, sliding door, perimeter security protection, window and balcony security, warehouse security, parking lot and other outdoor security occasions.

## II. Product Specifications

Input Voltage: AC: 9V~ 24V (AC Frequency: 50HZ/60HZ, I <sub>max</sub> =35mA) : DC: 12V~30V (I <sub>max</sub> =35mA)
Operating Current: 1) <35mA@12VDC 2) <19mA@24VDC
Sensing Distance: 1) ≅ 13m (with imported reflector) 2) ≅ 9m (with domestic reflector)
Response Time: ≥ 30mS
Ambient Light Intensity: Max.5000Lux
Emitter Specifications : 1) Wavelength: 740nm 2) Emission Type: Visible Red Light
Output Port Load Rating : 1) AC 0.3A/120VAC 2) DC 0.8A/30VDC
LED Indication: Green LED: 1) Power ON/OFF indication; 2) Flashing: indicates weak signal Yellow LED: Operating status indicator (ON: obstacle detected; OFF: no obstacle)
Rotation Angle: can be rotated from +90°~0° ~-90° (front face is defined as 0°)
Blind Spot Distance: <10mm
Operating Temperature: -25°C~+70°C
Storage Temperature: -35°C~+80°C
Product Dimensions (L*W*H) : 112.7*47*42.9mm
Reflector Dimensions: D82*H8.3mm
Product Weight: 151.5g (including sensor, reflector, mounting screw accessories, and rain cover)

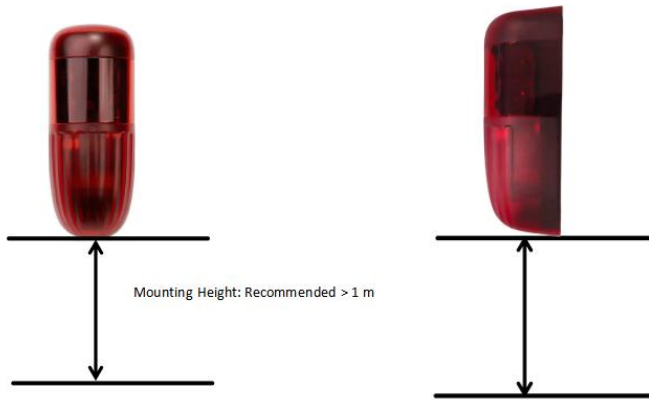
## III. Product Electrical Interface



## IV. Product Installation and Precautions

1. Do not exceed the maximum sensing distance during installation and commissioning.
2. Install the reflector at a suitable height, with its reflective surface facing the sensor.
3. Adjust the sensor horizontally and vertically to align with the reflector's center. 【Initial setup: Secure the sensor first, align the reflector, then move the reflector from near to far to the desired position.】
4. The infrared beam diverges with distance, so adjust the reflector up/down and left/right to find the optimal position. 【Ensure the infrared beam hits the reflector.】
5. Do not mount the unit on shaking or vibrating surfaces, as this may cause false triggering.

## V. Installation Precautions



**Install the sensor base >1 m above ground for optimal detection to reduce false triggers.**

**\*Special Warning\*: Risk of failure may occur under the following conditions.**

**Avoid them during installation and use!**

1. Risk of failure when detecting high-reflectivity (>90%) objects (e.g., mirrors, smooth tiles, still milk surfaces).
2. Risk of failure if the transmitter/receiver window is contaminated. Keep the window clean.
3. Risk of failure under severe weather (heavy storms, dense fog/haze).
4. Operating temperature:  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ . Do not use outside this range.
5. Storage temperature:  $-20^{\circ}\text{C} \sim 75^{\circ}\text{C}$ . Do not store outside this range.