



User Manual of Retro-Reflective Infrared Photocell Sensor (Item No. TRF3)

Specifications

Detection Method: Retro-Reflective	Angle: 1.5° approx.
Max. Sensing Range: 33 Feet (10 m)	Supply Voltage: 12-36VDC/12-24VAC
Output: Relay SPDT	Output Capacity: 1A/24VDC, 1A/120VAC
Protection Degree: IP66	

Part List

 Retro-reflective photocell (1PC)	 Reflector (1PC)	 X8
		 X8
 Water-proof Cover for Photocell (1PC)	 Water-proof Cover for Reflector (1PC)	 X1
		 X4

Installation

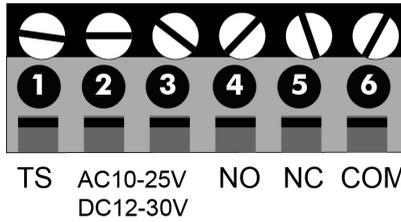
- ★ Do not touch un-insulated cables unless they are disconnected upstream. Do not install the sensor during storms with lightning.
- ★ If the cable is subjected to flexing, a coiled section should be used with a bending radius that prevents 90 degree bends in angle.



Install the photocell over the height of 20cm. Install the photocell vertically with the bracket. **Power on the photocell to determine the position of the reflector. Ensure there is no obstruction between photocell and the reflector. Fix the reflector when the working light of the photocell is Green.**

Wiring Connection

Definition of the terminals:



TS (#1): No use. Terminal for factory testing.

AC10-25V DC12-30V (#2 & #3): Power Input, 10-25VAC or 12-30VDC. No matter the polarity if the power input is DC power.

NO (#4): Output contact. **Normal open while the photo beam is aligned. Normal closed while the photo beam is obstructed.**

NC (#5): Output contact. **Normal closed while the photo beam is aligned. Normal open while the photo beam is obstructed.**

COM (#6): Common Output contact.

NOTE: You can refer to the user manual of the TOPENS gate opener to connect the photocell to the control board. For other brands of gate opener, you must confirm which terminal is power output and which terminal is the photocell input (accept the normal open or normal closed dry contact input). And then wire the AC10-25V DC12-30V (#2 & #3) to the power supply and wire the NO/COM or NC/COM to the photocell input (which is determined by the gate opener). If the gate opener does not have a 10-25VAC or 12-30VDC AUX. power output, then you should provide a separate power supply for the sensor.



TOPENS Website

www.topens.com

Any question, please do not hesitate to contact us:

E-mail: support@topens.com

Kindly include your Product Model, Purchasing Date & Site, Order #, and your contact information. All your concerns will be replied within 24 hours.

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