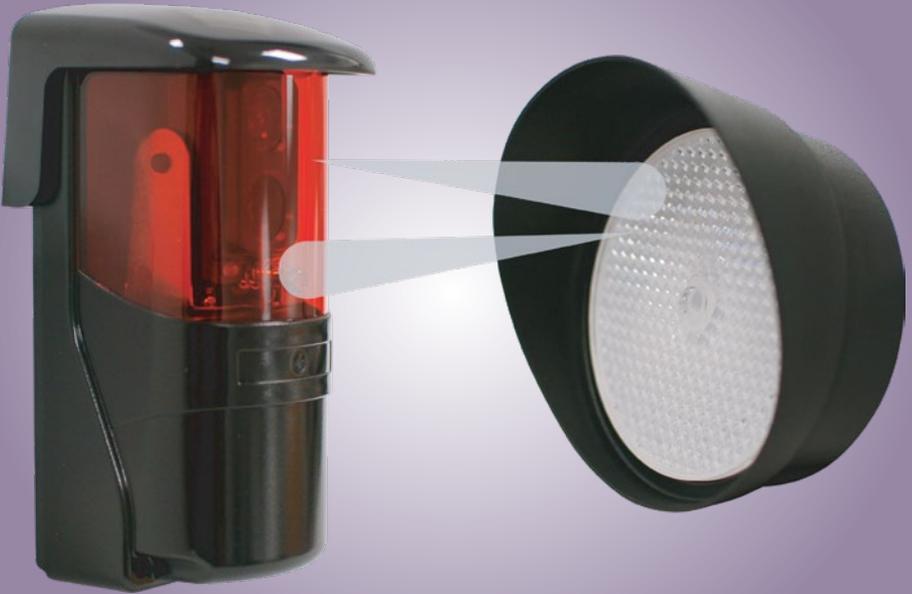


# iGAZER32P-10K/NC

## POLARIZED PHOTO EYES



Retro-Reflective & "POLARIZED". Twin Finish Housing Type

## INSTRUCTIONAL MANUAL

- 1] Specifications
- 2] Features & Applications
- 3] Mounting the Sensor
- 4] Wiring





# 1

## Specifications

|  |                                      |
|--|--------------------------------------|
| Input Volt.  | 12-30V DC/AC 60 Hz (Non Polarity)    |
| Current consumption                                  | 100 mA                               |
| Tx LED Element                                       | Infrared LED/Wave length 740 nm      |
| Beam Spreading angle                                 | 1.5 (half angle)                     |
| Contact Capacity                                     | 30VDC/AC, 0.5A                       |
| Response Time  | 10 msec                              |
| Delay Time of Relay                                  | 10 msec                              |
| Sensing Range  | 10 meters                            |
| LED Indicators:                                      |                                      |
| Red LED Off: Beam aligned / Red LED On: Beam broken  |                                      |
| Red LED flash: Beam alignment signal weak (Re-align) |                                      |
| Green LED on: Beam aligned proper                    |                                      |
| Additional Function                                  | Tamper switches                      |
| Wiring Connection                                    | Terminal block / Cable gland (IP-55) |
| IP   | IP-55                                |
| Environment/Storage Temp                             | -13°F to 140°F / -31°F to 176°F      |
| Dimension  | 122 (L) x 61 (W) x 62 (D) mm         |
| Cable wires  | 2517 / 24AWG / 5~7 cores             |
| Approvals  | UL325-2016 & CE                      |

**NOTE: For gate operators that require 10k use common and N.O. from the photo eye to the gate operator input.**

# 2

## Features & Applications

### FEATURES:

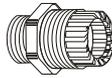
- "Polarized Sensor"- totally safety sensor
- Retro-reflective type
- Red infrared led element
- IP-55 water proof/cable gland
- PC casing, anti fog/dew/rains
- Round shape reflector-Dia.: 82.1mm
- Input Volt.: 12-30V DC/AC 60 Hz (Non Polarity)
- Twin colors led indicator for beam alignment
- Tamper switches included

### APPLICATIONS:

- Gateopener
- Swing gate
- Window
- Warehouse
- Automation control
- Overhead door
- Sliding door
- Terrace
- Parking lot



Nut



Body



Tight Ring

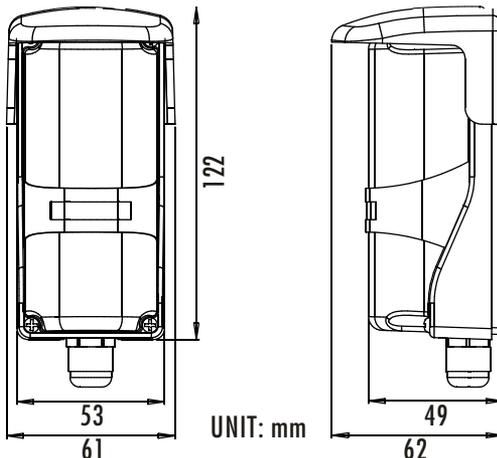


Knob

### CABLE GLAND

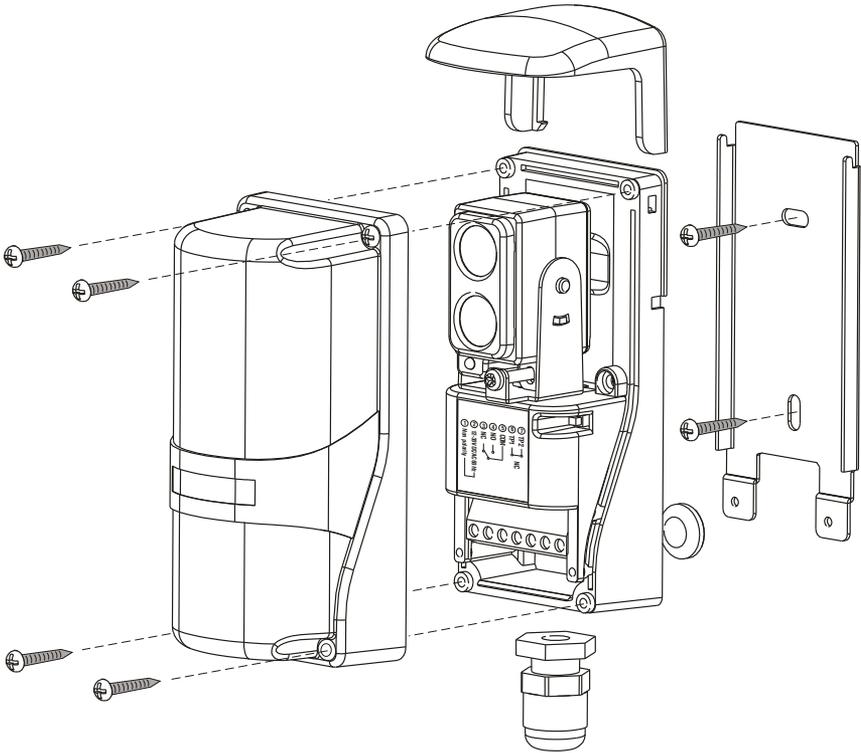
| Thread  | Cable Range (mm) | Thread O.D. C1(mm) | Thread Length C2(mm) | Spanner Size A&F(mm) |
|---------|------------------|--------------------|----------------------|----------------------|
| M12x1.5 | 3-6.5            | 12                 | 9                    | 18/15                |

### DIMENSIONS



# 3

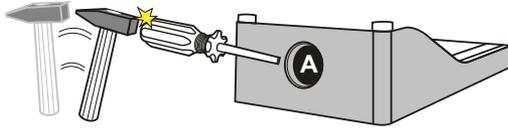
## Mounting the Sensor



1. Unscrew the 4 screws and remove the cover.
2. Loosen the captive screw to free the sensor from the mounting plate.
3. Using the included screws, mount the mounting plate to the wall.
4. Use the breakout and cable gland at the bottom of the sensor to run the wires.
5. Remove the terminal block using longnose pliers and wire the unit according to the wiring diagram above.
6. Hang the sensor back on to the plate, and use the captive screw to secure it in place.
7. Re-attach the cover, and use the included small screws to secure it.
8. Attach the hood to the top of the sensor.

# 4 Wiring

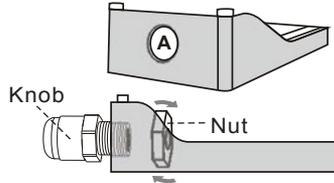
## 1 Break down & remove plastic pack **A**



Please use screwdriver & hammer to break **A** plastic pack down and remove pack **A**. Then insert the cable gland into the **A** empty hole. (See diagram 2)

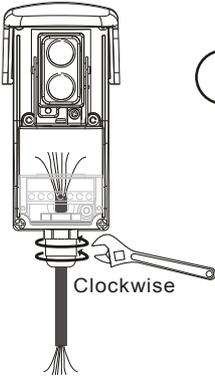
## 2 Install the cable gland

Screw the knob with the nut till fixed.

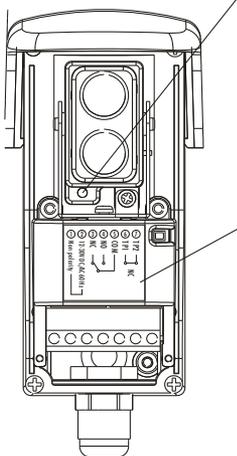


## 3 Finish the wiring connection:

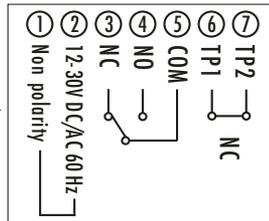
- Insert the cable wires into the cable gland.
- Connect the lead wires to the proper position of terminal block.
- Use spanner to tight the cable gland clock-wise until tight.



## WIRING



**PWR/  
Beam Alignment  
LED Indicator**



### Additional function:

TP1/TP2 - Tamper Switches, can be connected to control panel or siren as burglar alarm.

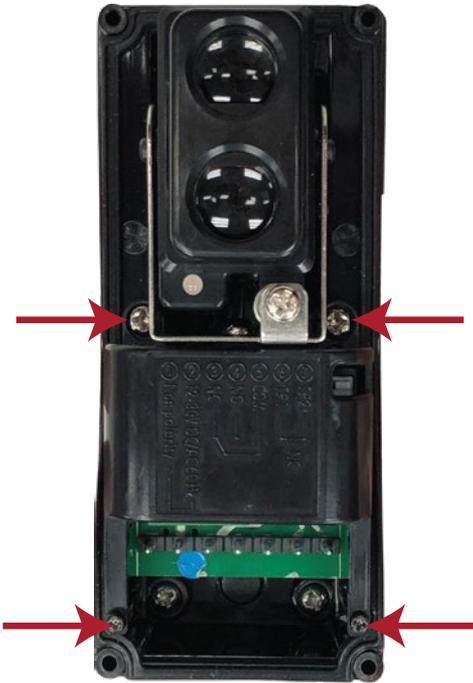
# Removing the 10K resistor

## TO MAKE THE PHOTO EYE WORK WITH N.O.

Take the following steps to remove the 10K resistor. This only removes the 10K resistor, the photo eye is still UL certified.

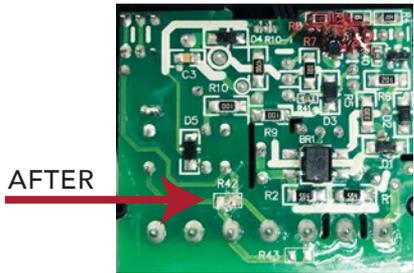
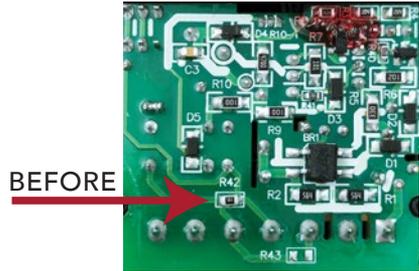
### STEP 1:

Remove 4 screws as shown.



### STEP 2:

Cut the R42 resistor on the board as shown.



This process must be followed for pre-2016 legacy operators that require normally open.

## **TRANSMITTER SOLUTIONS WARRANTY**

The warranty period of Transmitter Solutions photo eye is twenty-four (24) months. This warranty shall begin on the date the photo eye is manufactured. During the warranty period, the product will be repaired or replaced (at the sole discretion of Transmitter Solutions) if the product does not operate correctly due to a defective component. This warranty does not extend to (a) the photo eye case, which can be damaged by conditions outside the control of Transmitter Solutions, or (b) battery life of the photo eye. This warranty is further limited by the following disclaimer of warranty and liability:

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