

# iGAZER50LR-10K/NC

## LONG RANGE PHOTO EYES



Retro-Reflective & Long Range Type

## INSTRUCTIONAL MANUAL

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





# 1

## Specifications

Input Volt.	12-30 VDC/AC 60 Hz (Non Polarity)
Current consumption	100 mA
Tx LED Element	Infrared LED/Wave length 740 nm
Beam Spreading angle	5°
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	4.8 (L) x 2.4 (W) x 2.4 (D) inches
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:

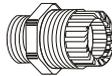
- Long Range Photo Eye
- Retro-reflective
- Infrared LED element
- IP-55 water proof/cable gland
- PC casing, anti fog/dew/rains
- Round shape reflector-Dia.: 82.1mm
- Input Volt.: 12-30V DC/AC 60 Hz (Non Polarity)
- Twin colors led indicator for beam alignment
- Tamper switches included

### APPLICATIONS:

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



Nut



Body



Tight Ring

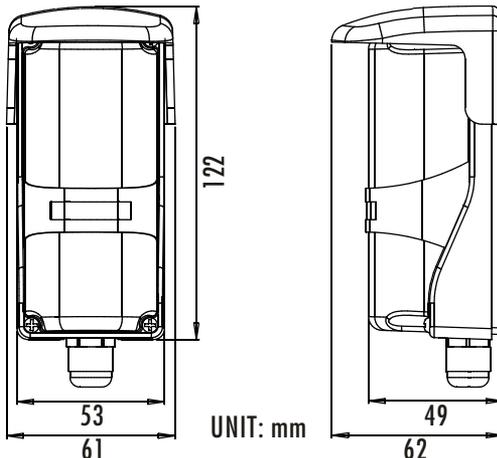


Knob

### CABLE GLAND

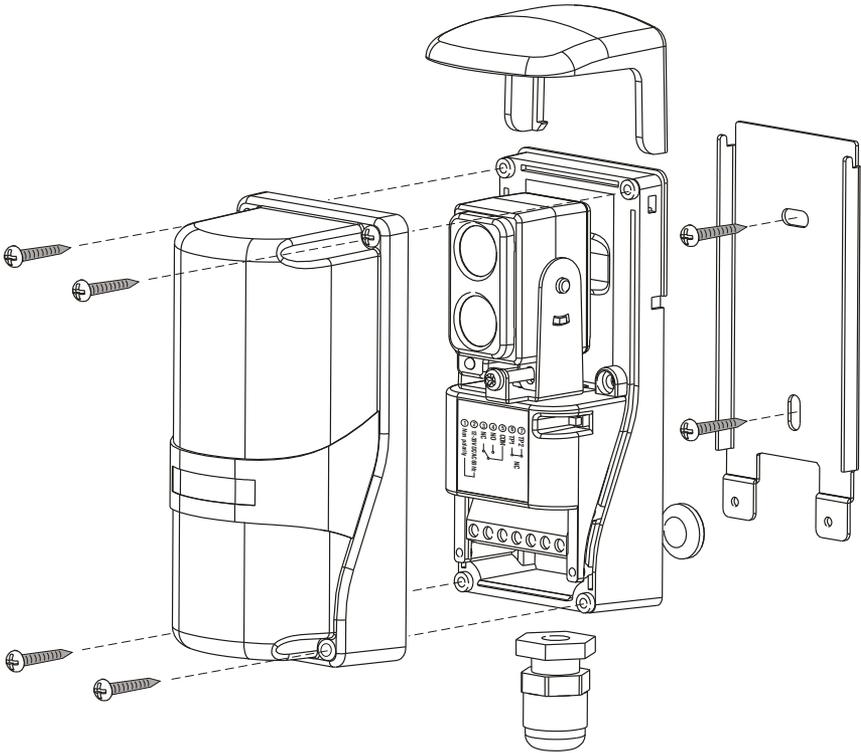
Thread	Cable Range (mm)	Thread O.D. C1(mm)	Thread Length C2(mm)	Spanner Size A&F(mm)
M12x1.5	3-6.5	12	9	18/15

### DIMENSIONS



# 3

## Mounting the Sensor

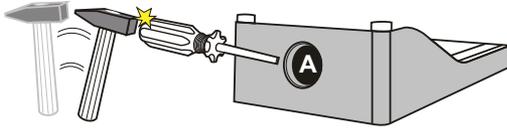


1. Unscrew the 4 screws and remove the cover.
2. Loosen the captive screw to free the sensor from the mounting plate.
3. Using the included screws, mount the mounting plate to the wall.
4. Use the breakout and cable gland at the bottom of the sensor to run the wires.
5. Remove the terminal block using 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

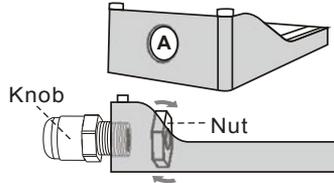
### 1 Break down & remove plastic pack **A**



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)

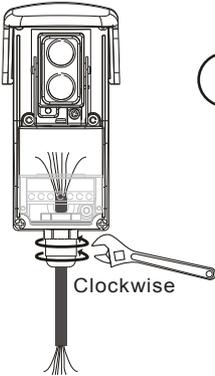
### 2 Install the cable gland

Screw the knob with the nut till fixed.

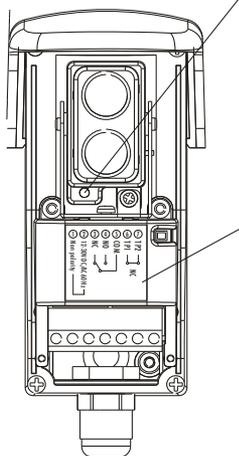


### 3 Finish the wiring connection:

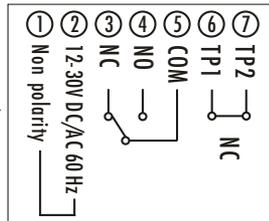
- Insert the cable wires into the cable gland.
- Connect the lead wires to the proper position of terminal block.
- Use spanner to tight the cable gland clock-wise until tight.



## WIRING



**PWR/  
Beam Alignment  
LED Indicator**



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

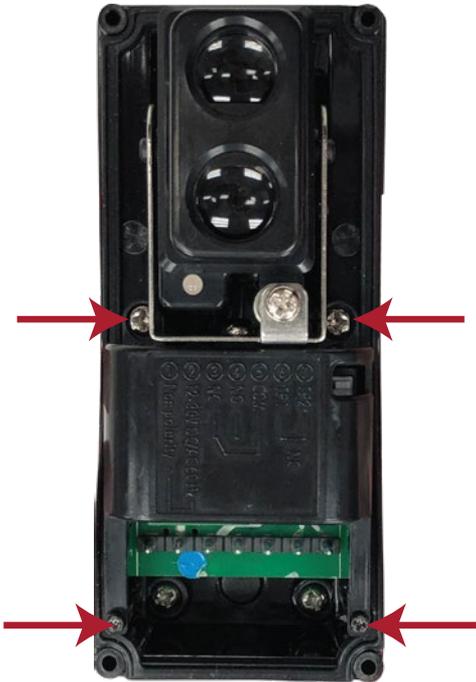
# Removing the 10K resistor

## 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.

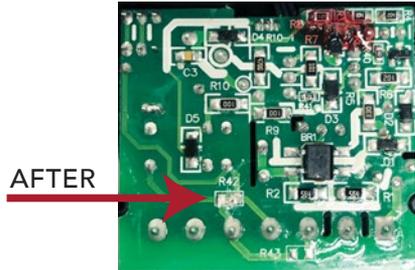
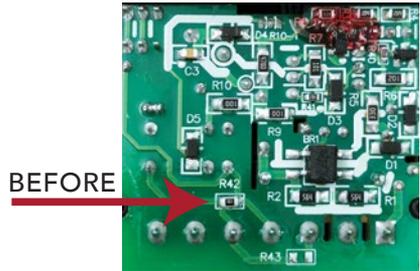
### STEP 1:

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:

EXCEPT AS SET FORTH ABOVE, TRANSMITTER SOLUTIONS MAKES NO WARRANTIES REGARDING THE GOODS, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. BUYER MAKES NO RELIANCE ON ANY REPRESENTATION OF TRANSMITTER SOLUTIONS, EXPRESS OR IMPLIED, WITH REGARD TO THE GOODS AND ACCEPTS THEM "AS-IS/WHERE-IS". TRANSMITTER SOLUTIONS SELLS THE GOODS TO BUYER ON CONDITION THAT TRANSMITTER SOLUTIONS WILL HAVE NO LIABILITY OF ANY KIND AS A RESULT OF THE SALE. BUYER AGREES THAT TRANSMITTER SOLUTIONS SHALL HAVE NO LIABILITY FOR DAMAGES OF ANY KIND, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURIES TO PERSONS OR PROPERTY, TO BUYER, ITS EMPLOYEES OR AGENTS, AS A RESULT OF THE SALE. BUYER ALSO AGREES TO HOLD TRANSMITTER SOLUTIONS HARMLESS FROM ANY CLAIMS BUYER, OR ANY THIRD PARTY, MAY HAVE AS A RESULT OF BUYER'S USE OR DISPOSAL OF THE GOODS. BUYER HAS READ THIS DISCLAIMER AND AGREES WITH ITS TERMS IN CONSIDERATION OF RECEIVING THE GOODS.



2480 South 3850 West, Suite B  
Salt Lake City, UT 84120  
(866) 975-0101 • (866) 975-0404 fax  
[www.transmittersolutions.com](http://www.transmittersolutions.com)