iGAZESR32V PHOTO EYE

Thank you for choosing this Transmitter Solution product.
Please read this manual carefully
before installing the product.

DESCRIPTION

The infrared photo eyes iGAZESR32V are a security device designed for the protection of areas in which automatic closing systems are operating. The aluminum cover provides anti-vandalism protection. The product is composed of two fixed optic infrared devices – TX and RX – operating at 880 nm wavelength. The rated range is 32 feet under all weather conditions (rain, fog, dust, etc.). The small dimensions allow for easy installation on any type of structure.

TECHNICAL SPECIFICATIONS

Infrared emission with diode	DoA|As
Continuous modulation	1.5 KHz
Wavelength emission	880 nm
Power supply	12 - 24 VAC/DC
Current consumption at 12 VAC/DC	
- receiver	34 mA
- transmitter	45 mA
Current consumption at 24 VAC/DC	
-receiver	34 mA
-transmitter	42 mA
Double contact relay with serial exchange	Yes
Output contacts	1 N.O./ 1 N.C.
Max DC power on the relay contacts	24 W / 48 V
Max AC power on the relay contacts	60 VA / 48 V
Operating temperatures	-4°F to 131°F
Best alignment test point	
Base plate in thermoplastic rubber.	
IP Grade	NEMA 12X(IP55)
Rated range in all conditions	32 feet
Dimensions	3⅝ x 2⅔ x 2 inches
Conformity according to	UNI8612
Marking	CE

PACKING LIST

Rubber Gaskets	2	ISO M5 special screws for cover mounting	8
Transmitter	1	Plastic anchors	8
Receiver	1	Mounting aluminum plates	2
Aluminum covers	2	Drilling template	1
Photocell Mounting Screws	8	Special tool for M5 anti vandalism screws	1

INSTALLATION STEPS

1. Mark the location of the mounting holes using the drilling template supplied (Fig. 1)
2. Drill the 4 holes for the base (diameter:1/5 inch)
3. Locate the anchors provided (Fig 3).
4. Assemble the mounting plate, the seal and the photocells (Fig. 4).
5. Mount the photocell with screws provided (Fig. 5).
6. Make the electrical connections and power the receiver (Fig. 7) and the transmitter (Fig. 10).
   - 12 VAC/DC: Terminals 0-12
   - 24 VAC/DC: Terminals 0-24
7. After the alignment (Fig. 6) and the adjustment (Fig. 8), (see next paragraph) fit the cover using the special screws with anti vandalism heads using the tool supplied (Fig. 13).

Recommended cable cross section:
- transmitter photocells 2 x 22 gauge
- receiver photocells 4 x 22 gauge

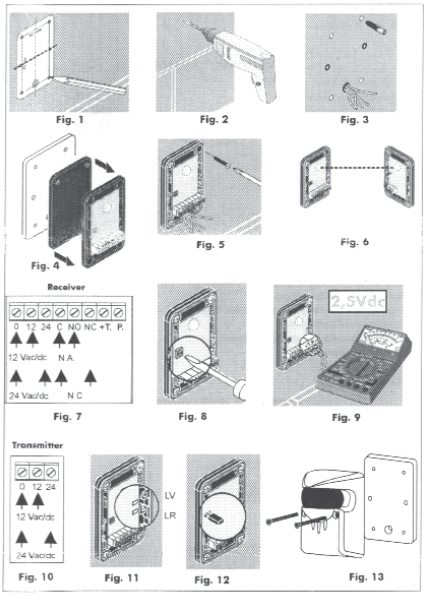
Connect the output contact to the terminals C and N.O. for a normally open contact or C and N.C.for a normally closed contact (Fig. 7).

ADJUSTMENT

Alignment
Align the transmitter and receiver so that the beam is established and the red LED lights (Fig. 6 and Fig. 8).
Sensitivity adjustment
If the distance between the transmitter and the receiver is less than 16 feet (5 meters) remove the bridge on the transmitter (Fig. 12).
Adjust the sensitivity with the trimmer on the receiver (Fig. 8).
The optimum detection is obtained when a voltage of 2.5 VDC is read across terminals T and P (read the voltage with a voltmeter - Fig. 9).

LED STATES

On the transmitter:
The green LED is ON when the transmitter is powered
On the receiver:
The green LED is ON when the receiver is powered (Fig. 11).
The red LED is ON when the beam is NOT established (Fig. 11).



WARRANTY

The warranty period of this product is 24 months, beginning from the manufacturing date. During this period, if the product does not operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Transmitter Solutions. This warranty does not extend to the product casing which can be damaged by conditions outside of the control of Transmitter Solutions.

Transmitter SOLUTIONS®

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