



iGAZES32 Mini Photo Eyes

Description

The Transmitter Solutions infrared photo eyes model iGAZESR32 is a safety device for use with automatic closure systems. The system includes a pair of devices, working on 850 nm wavelength. The rated range is 32 feet to in all weather conditions (rain, fog, dust). The small size allows easy installations on any type of structure.

If supplied with AC power, the photo eyes are equipped with a synchronism system that allows the simultaneous operation of 2 pairs of photo eyes, interconnected.

Warning

Please read this manual carefully before installing the product. Improper use or connection can cause improper function of the product.

Conformity

This product complies with all the requirements of the European Directives: 89/336/CEE, 89/106/CE, 73/23/CEE, 98/37/CE and the following Regulations: EN 1297B, NFP25-336, IED 61496-2.

Technical Specifications

Infrared emission with diode:	GaAlAs
Digital modulation:	200 Hz
Wavelength emission:	850 nm
Power supply (± 10%):	12-24 VAC/DC
Current consumption @ 12-24 VAC/DC	
-receiver:	50 mA
-transmitter:	27 mA

Double contact relay with

serial exchange:	Yes
Output contacts:	1 N.C./ 1 N.O.
Max DC power on relay contacts:	24 W / 48 V
Max AC power on relay contacts:	60 VA / 48 V
Operating temperature:	-4°F-130°F
Reaction time:	40 mS
Housing protection:	NEMA 12X(IP55)
Rated range:	32 feet
Dimensions:	4 1/8 x 1 1/4 x 1 1/2"

Parts List

A-Wall anchors	F-Screws for electronics/angle
B-Back Gasket	G-Ring seal
C-Wiring Cutout	H-Cover
D-Electronics	I-Cover screws
E-Mounting Screws	L-Screw caps

Installing

1. Locate the position of the mounting holes using the back gasket as a template. (B) On the seal are 2 elliptic holes that allow for mounting and adjustment.
 2. Drill the 2 mounting holes.
 3. Insert the wall anchors (A) provided.
 4. Assemble the gasket (B), the electronic card (E), and the ring seal gasket (G).
 5. Feed the wires through the wiring cutout (C).
 6. Mount the electronics using the screws (F).
 7. Make the electrical connection and power up the units (Fig. 4).
- Voltage 12 Vac/dc: Terminals 0 - 12
-Voltage 24 Vac/dc: Terminals 0 - 24

8. Connect the relay output (C N.O./N.C.) - to the device.

Recommended wiring:

- Transmitting unit 2 - each 22 gauge
- Receiving unit 4 - each 22 gauge

Adjustment

The electronic card is mounted on the base with 3 screws.

Using a screwdriver, screw or unscrew the screws in order to change rotation of the electronic card plane. The upper screws allow adjustment on the vertical axes. The lower screw allows adjustment on the horizontal axis. (Fig. 2)

Optional Configuration

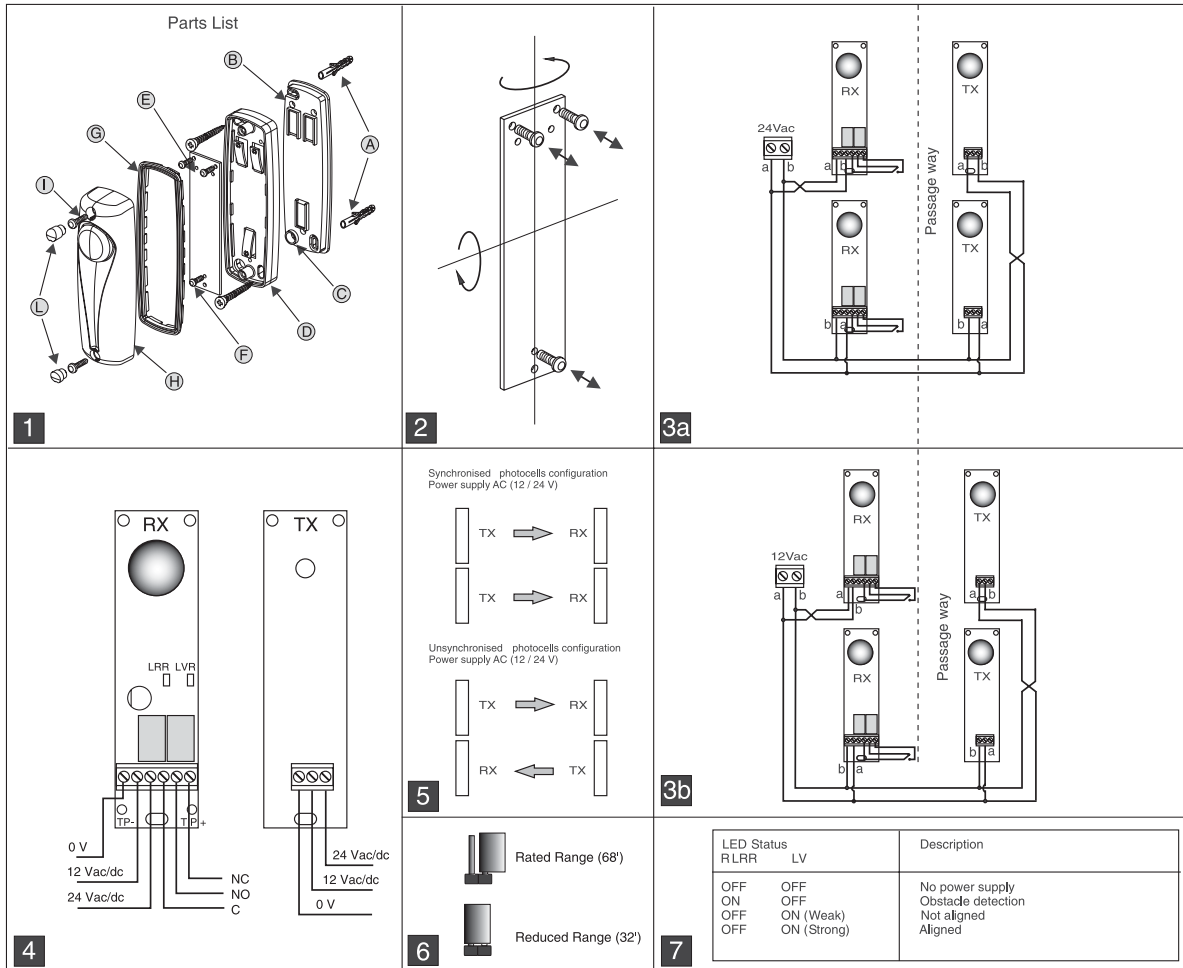
Thanks to the synchronization system, the photocells can be installed in pairs keeping two RX along the same side and two TX along the opposite side. (Fig. 5) this configuration is valid ONLY with AC power supply and following the diagram 3A or 3B. AVOID this layout if the power supply is DC. In this case the receiver could be kept aligned by the infrared beam coming from the emitter of the opposite pair (Fig. 5). The advantage of this configuration (not crossed) is on the connections: the wires that cross the opening are only those that carry the power supply of the emitters. Follow diagram 3a. for the wiring at 24 Vac and he diagram 3b. for wiring 12 Vac.

Completing the Installation

1. Mount the cover with the screws provided (I).
2. Insert the screw caps (L).

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.



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