

INFRARED PHOTOCELLS S10

Introduction

The infrared photocells ERONE mod. S2410 (Fig. 1) are a security device designed to the protection of areas in which are operating automatic closing systems.

The product is composed by a couple of fixed optic infrared devices TX and RX, operating at 880 nm wavelength. The rated range is 10 mt under all weather conditions (rain, fog, dust).

The reduced dimensions allow an easy installation procedure on any type of structure.

Technical specifications

Infrared emission with diode:	GaAlAs
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 NO / 1 NC
Max DC power on the relay contacts:	24 W / 48 V
Max AC power on the relay contacts:	60 VA / 48 V
Operating temperature:	-10°C / +55°C
Best alignment test point:	
Base plate in thermoplastic rubber:	
IP Grade:	IP55
Rated range in all conditions:	10 m
Dimensions (mm):	98 x 60 x 22
Conformity according to:	UNI8612
Marking:	CE

Packing list

Seals:	2
Transmitter:	1
Receiver:	1
Plastic covers:	2
Photocell fixing screws:	8
Cover fixing screws:	4
Plastic plugs Ø5:	8
Drilling template:	1

Advice

When two sets of photocells are installed, cross the transmitter photocells with the receiver photocells and keep a distance of 60 centimetres between the sets, for a 5 metres passage.

Installation phases

- 1 - Mark the location of the fixing holes using the drilling template supplied with the photocells (Fig. 2);
- 2 - Drill the 4 fixing holes for base. (Hole diam: 5mm) (Fig. 3);
- 3 - Locate the 4 plastic plugs provided (Fig. 4);
- 4 - Assemble the seal and the photocells (Fig. 5);
- 5 - Mount the photocell with the screws supplied (Fig. 6);
- 6 - Make the electrical connections, power the receiver (Fig. 8) and the transmitter (Fig. 9);
- 7 - After the adjustment (Fig. 10), fit the cover using the screws supplied (Fig. 14)

Recommended cable cross-section:

- transmitter photocells 2 x 0,6 mm²
- receiver photocells 4 x 0,6 mm²

Connect the output contact to the terminals C and NO for a normally open contact or C and NC for a normally closed contact (Fig. 7).

Adjustment

Alignment

Align the transmitter and the receiver so that the beam is established and the red led (LR) goes off (Fig. 7 and Fig. 12).

Sensitivity adjustment

If the distance between the transmitter and the receiver is less than 5 metres remove the bridge on the transmitter (Fig. 13).

Adjust the sensitivity with the trimmer on the receiver (Fig. 10).

The optimum detection is obtained when a voltage of 1 Vdc is read across terminals T and P (read the voltage with a voltmeter - Fig. 11).

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. 12);

- The red led is ON when the beam is not established (Fig. 12).

Fig. 1 / Bild. 1

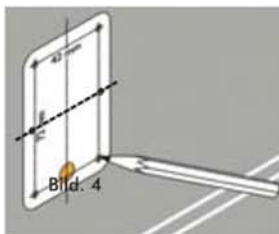


Fig. 2 / Bild. 2



Fig. 3 / Bild. 3

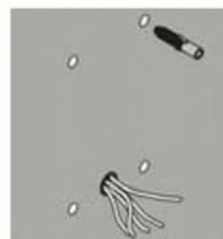


Fig. 4 / Bild. 4



Fig. 5 / Bild. 5



Fig. 6 / Bild. 6

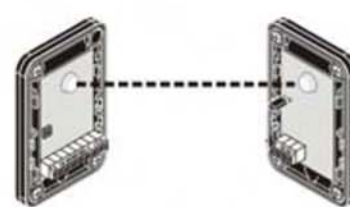


Fig. 7 / Bild. 7

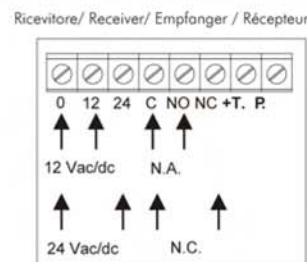


Fig. 8 / Bild. 8

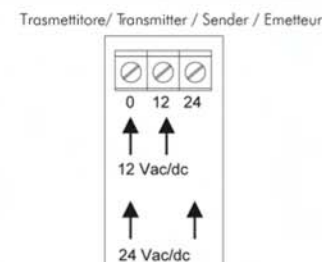


Fig. 9 / Bild. 9



Fig. 10 / Bild. 10



Fig. 11 / Bild. 11



Fig. 12 / Bild. 12



Fig. 13 / Bild. 13

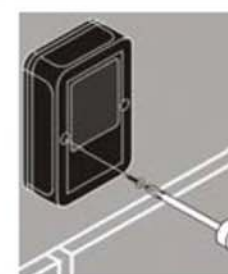


Fig. 14 / Bild. 14

GARANTIE

Die Garantie beträgt 24 Monate vom Innen angezeigten Herstellungsdatum.
Die Garantie umfasst die Funktion der elektronischen Bauteile unter Voraussetzung des korrekten Anschlusses.
Die Garantie umfasst keine äußeren Beschädigungen am Gehäuse durch Fremdeinwirkung oder falsche Installation.
Die Garantie wird beim Sitz des Herstellers geleistet.

GARANZIA

La garanzia su questo prodotto è di 24 mesi dalla data di fabbricazione apposta all'interno. Durante tale periodo, se l'apparecchiatura non funziona correttamente, a causa di un componente difettoso, essa verrà riparata o sostituita a discrezione del fabbricante. La garanzia non copre l'integrità del contenitore plastico. La garanzia viene prestata presso la sede del fabbricante.

GUARANTEE

The guarantee period of this products is 24 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at the discretion of the producer. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the producer's factory.

GARANTIE

La période de garantie des produits est de 24 mois, à compter de la date de fabrication. Durant cette période, si les produits ne fonctionnent pas correctement, cela en raison d'un composant défectueux, le produit sera réparé ou remplacé à la discrétion du fabricant. La garantie ne couvre pas le boîtier en plastique.



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