



SENSIVA-WL

FOTOCELLULE DA PARETE SINCRONIZZATE E ORIENTABILI (180°) CON TRASMETTITORE ALIMENTATO A BATTERIA

GB

SYNCHRONIZED, ORIENTABLE (180 °), WALL MOUNTED PHOTOCELLS WITH BATTERY POWERED TRANSMITTER

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PHOTOCELLULES DE PAROI SYNCHRONISÉES ET ORIENTABLES (180°) AVEC ÉMETTEUR ALIMENTÉ PAR BATTERIE

E

FOTOCÉLULAS DE PARED SINCRONIZADAS Y ORIENTABLES (180°) CON TRANSMISOR ALIMENTADO POR BATERÍA P

FOTOCÉLULAS DE PAREDE SINCRONIZADAS E ORIENTÁVEIS (180°) COM TRANSMISSOR ALIMENTADO POR BATERIA

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SYNCHRONISIERTE UND SCHWENKBARE (180°) WANDSENSOREN MIT BATTERIEBETRIEBENEM SENDER

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GESYNCHRONISEERDE EN (180°) RICHTBARE WANDFOTOCELLEN MET ZENDER DIE GEVOED WORDT DOOR BATTERIJ

PL

ZSYNCHRONIZOWANE, REGULOWANE (180°) FOTOKOMÓRKI NAŚCIENNE Z NADAJNIKIEM -ZASILANIE BATERYJNIE

Fig. 1

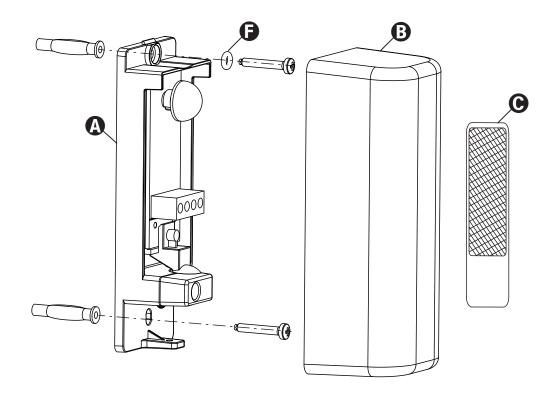


Fig. 2

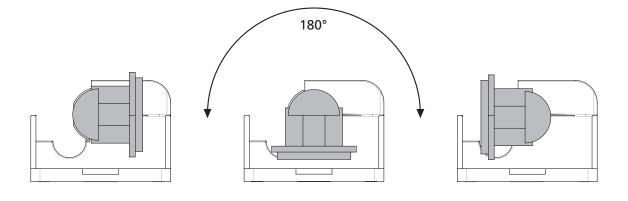
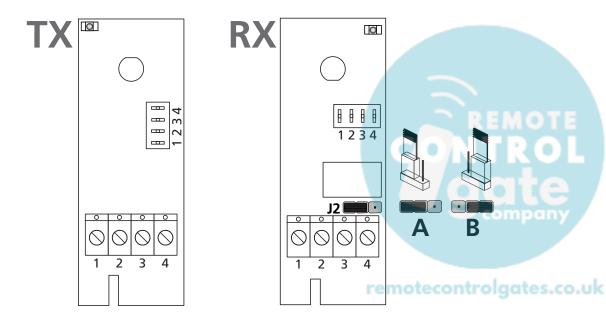


Fig. 3



DESCRIPTION OF THE DEVICE

The photocell SENSIVA-WL consists of a battery powered transmitter and a receiver that is powered by the control unit.

WARNING: It is not advisable to use photocells with DC motors and inverter motors

Features:

- 2 batteries included with the device
- Adjustable up to 180° on the horizontal axis and 30° on the vertical axis
- Possibility to connect a resistive or traditional safety edge on the transmitter: when the edge activates, the transmitter stops the transmission
- Ability to set two different transmission codes to simultaneously use two pairs of photocells without mutual interference
- Automatic signal detection slow down in the event of snow to avoid undesired activations caused by the fall of the flakes
- Maximum range adjustment on two levels
- · Led to simplify the tuning of the system
- Led to indicate when the battery is low

WALL INSTALLATION (Fig.1)

For correct installation, follow the instructions below very carefully:

 Decide where the photocells are to be installed, taking into account the need for the photocells to be fixed on a flat, linear surface.

PLEASE NOTE: position the photocells so as to avoid the receiver RX facing into the sun.

ATTENTION: the minimum distance between the transmitter and the receiver must be over 1 metre.

- Decide where to place the channels for the power supply cables.
- Open the photocell casing and use the base **A** to mark out the positions of the fixing holes.
- Fix the base using the gasket **F**.
- Make the electrical connections.
- Insert the batteries in the battery compartment of the transmitter.

WIRING

TRANSMITTER (TX)

- 1 2 RESERVED FOR FUTURE USE
- 3 4 Input for connection of the output of the safety edge

RECEIVER (RX)

- 1 power supply (+)
- 2 power supply (-)
- 3 4 relay output
 - relay output with NC contact J2 Position A
 - relay output with NO contact J2 Position B

LED SIGNALS

TRANSMITTER

The red led starts to flash when the battery begins to be low. Normally it is turned off.

RECEIVER

The red led is used to perform the tuning of the system, indicating the quality of the signal received from the transmitter.

DIP-SWITCHES AND JUMPERS (Fig. 3)

The dip-switches and jumpers on the electronic circuits of the photocells are used to set the operation of the system.

| TRANSMITTER (TX) | | |
|--------------------|--|--|
| DIP-SWITCH 1 - ON | Safety edge input enabled (3-4) | |
| DIP-SWITCH 1 - OFF | Safety edge input disabled | |
| DIP-SWITCH 2 - ON | 8K2 resistive edge | |
| DIP-SWITCH 2 - OFF | Traditional edge with N.C. contact | |
| DIP-SWITCH 3 | Transmission code: by setting the DIP to ON or OFF the TX transmits two different codes. TX and RX of the same pair must have the same setting. Two pairs in the same installation must have different settings to avoid mutual interference | |
| DIP-SWITCH 4 - ON | - Range from 10 to 20 m - Consumption = 100 μA - Autonomy = 1.5 years | |
| DIP-SWITCH 4 - OFF | - Range from 5 to 10 m - Consumption = 30 μA - Autonomy = 4 years | |

NOTE: To reduce consumption and prolong battery life, it is recommended to set dip-switch 4 correctly.

| RECEIVER (RX) | | |
|----------------------|--|--|
| DIP-SWITCH 1 - 2 - 4 | Keep on OFF | |
| DIP-SWITCH 3 | Transmission code: by setting the DIP to ON or OFF the TX transmits two different codes. TX and RX of the same pair must have the same setting. Two pairs in the same installation must have different settings to avoid mutual interference | |
| JUMPER J2 | Position A - relay output with normally closed contact Position B - relay output with normally open contact | |



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ADJUSTMENT

Having completed the installation, check that the system is operating correctly:

- 1. Ensure there are no obstacles between the transmitter and the receiver.
- 2. Power-up the system:
 - The receiver LED is off: The photocell is not centred; perform centring.
 - The receiver LED is on: the photocell is centred, move on to
 - The led on the receiver blinks slowly: the signal is too weak; improve the alignment or increase the range to 20 m (DIP-SWITCH 4 set to ON on the TX)
 - The led on the receiver blinks quickly: the signal is too strong, reduce the range to 10 m (DIP-SWITCH 4 set to OFF on the TX)
- 3. Place the cover **B** over the photocell and ensure it is operating correctly without removing the adhesive attenuation filter C (the filter simulates adverse weather conditions such as rain, fog etc.)
- 4. Then remove the attenuation filter.
- 5. Break the infrared beam a number of times: the receiver LED must switch itself off and the relay must switch.

REPLACING BATTERY

When the red led of the transmitter starts to blink, it is necessary to replace the batteries.

WARNING: Batteries contain pollutant elements, must be disposed of in accordance with environmental regulations. The devices contains pollutant elements too; follow the same procedure to dispose.

Should the batteries lose electrolytic substances, please replace them immediately avoiding with care any contact with such substances.

TECHNICAL SPECIFICATIONS

| | · |
|-----------------------------|---|
| Optical range | max. 20 m min. 1 m |
| Dimensions | 115x41x38 mm |
| Power supply RX (VIN - GND) | 12÷24 Vac / 15÷36 Vdc |
| Power supply TX | 2 batteries 1,5V AAA |
| Signal | modulated infrared 2 KHz λ = 940 nm |
| Relay contact | 1A max 30 VDC |
| Absorption | TX = 30 / 100 µA (DIP 4) RX = 20 mA (Vin = 24Vdc) |
| Operating temperature | This parameter depends on the technical characteristics of the batteries. The temperature range of the electronic cards is -20° + 60° C |
| Protection degree | IP44 |

EU DECLARATION OF CONFORMITY

The manufacturer V2 S.p.A., headquarters in Corso Principi di Piemonte 65, 12035, Racconigi (CN), Italy

Under its sole responsibility hereby declares that the products: SENSIVA-WL

comply with the following directives:

2014/30/EU, ROHS-3 2015/863/EU

Racconigi, 01/06/2019 Legal representative, V2 S.p.A.

Sergio Biancheri



