phoyocell **FOCUS / FOCUS FLASH**MOUNTING INSTRUCTION

1. Principle of operation.

Photocell includes transmitter and receiver (fig.1). The transmitter emit a coded Irfrared (IR) signal, invisible to the naked eye. Obstacle appearance (e.g. car) on photocell working area produces a detection signal on receiver output. Receiver has NC and NO type output contacts. Photocell is destined to work in gate automation system as external element. Built-in signal lamps in both, receiver and transmitter, supplied with 24V, fulfill signal function in gate system.

2. Technical data.

Guaranteed range

• Power supply of transmitter and receiver

• Current consumption of transmitter

Power supply of signal lamp

• Current consumtion of signalization lamp

•Working temperature (min. / max.)

• dimensions (szer. x głęb. x wys.)

Mounting

Output contacts

1-15 m

24VAC/DC

2x 25 mA

24VAC/DC

2x40mA

-20°C /+55°C

62x28x100mm

surface mounted, IP54

typu NO i NC

3. Photocell mounting.

For proper funcionality photocell must be mounted coaxial, 40-60 cm off the ground, receiver and transmitter distance not less than 1 m . Because of photosensitive elements it is recommended to mount receiver on less sun exposure side. Both receiver and transmitter must be mounted vertically. Terminal blocks and humidity carrying openings should be in the

bottom part of enclosure. Proper receiver and transmitter adjustment is facilitated by receiver's diode RX. RX diode lights when transmitter ray reaches receiver. Both enclosures should be mounted by 2 (diagonal mounting) or 4 screws available in set. To scale down photocell sensitivity (minor receiver and transmitter distance) it is recommended to dismount transmitter's lens.

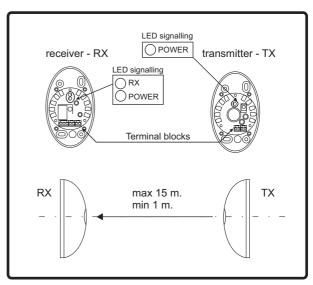


Fig. 1 Receiver - transmitter location



((

phoyocell **FOCUS / FOCUS FLASH**MOUNTING INSTRUCTION



Do not mount mirrors or reflection screens in photocell's working area Beware of optical receiver/transmitter elements staining while mounting.

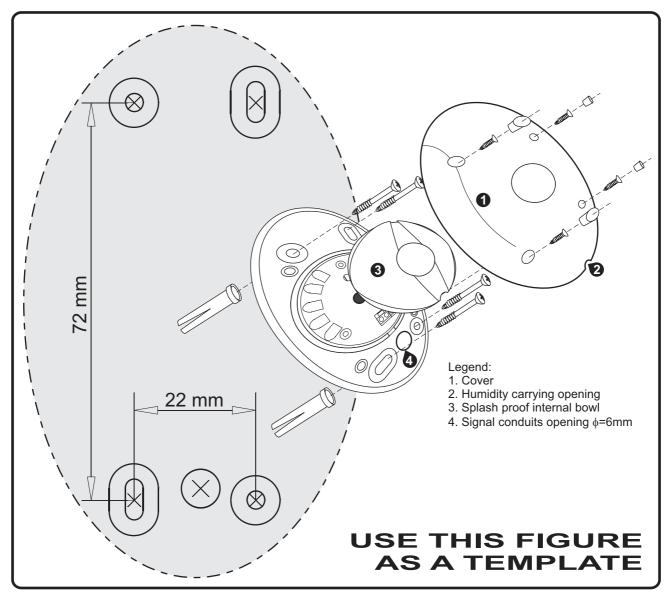


Fig. 2 Assembly dimentions - scale 1:1, transmitter (receiver) assembly drawing

4. Photocell connection

Photocell cooperates with most of gate controllers available on market. It is recommended to do electrical installation and photocell mounting by qualified person. Connect photocell according to fig. 3 scheme. First find 24V AC/DC clips (polarity is not important!) intended to power supply, in gate controller. Connect power supply to receiver and transmitter. When power is on red LED's (POWER) in receiver and transmitter light. Next connect gate controller input to photocell's receiver output (RX pins: 1,2 or 2,3). Pay attention





CONNECTION SCHEME

to controller's input type (NC or NO). Photocells usually works with NC mode in gate automatic. It is recommended to connect signal lamps parallely, supplied with 24V AC/DC, current consumption ab. 80mA.

5. Receiving tests

After photocell connection is done, it is recommended to check receiver (RX) reaction on Inrfarared signal breaks. Gate automation systems must be tested conformity to EN 12445 standard. Photocell test: 1. Supply power to receiver only and check if RX diode out. 2. Supply power to transmitter and check if RX diode light. 3. Displace roller of 5 cm diameter and 30 cm length, to break perpendicularly optical axis between receiver and transmitter. First in the vacinity of transmitter TX, next in the vacinity of receiver RX, next in the middle of distance between them. In all cases photocell should switch from standby to alarm mode, which is signalized by RX diode wane.

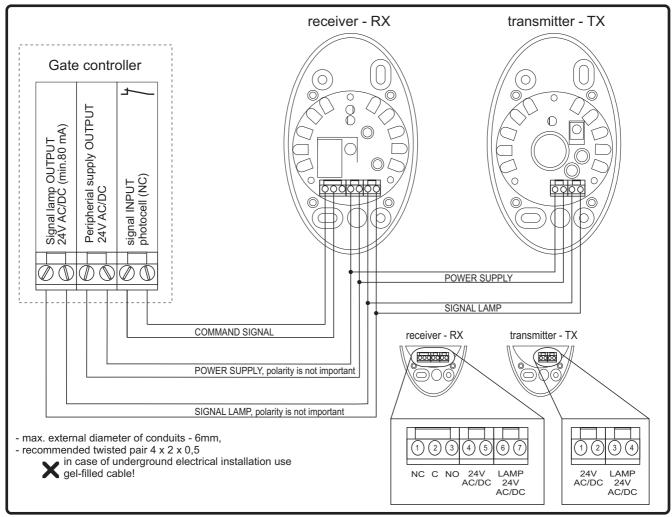


Fig. 3. Photocell connection electric scheme





phoyocell **FOCUS / FOCUS FLASH**MOUNTING INSTRUCTION

6. Warranty.

DTM System checks all the devices before shipping. The warranty time is 24 months from the selling date. This time is counted according to the warranty label. The manufacturer will fix all the problems which come because of his fault. Non functionaling device should be delivered back to the distributor with short problem description. The cost of mount/dismount is covered by user. The warranty do not cover: batteries in the remotes, faults caused by improper usage, user self repairs and adaptations, lightning strikes, over voltages or short circuits in the mains supply. Appropriate legal acts regulates details of the warranty.



The intention of the WEEE Directive (Directive 2002/96/EC on waste electrical and electronic equipment) is to reduce the amount of hazardous substances in waste.

The underlying purpose is to promote the avoidance, recovery and risk-free disposal of waste.



