

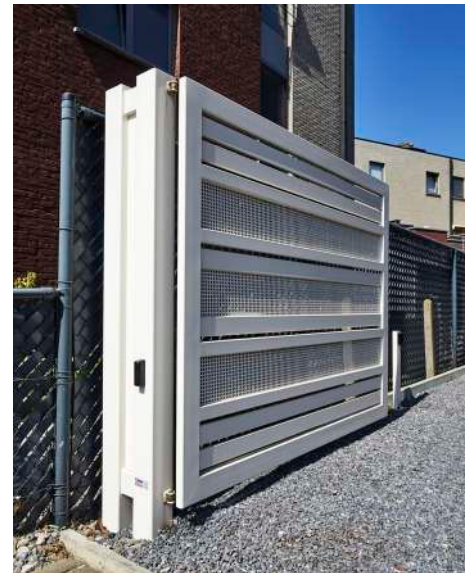
# Photocell

Zoom 180°

## Description

A photoelectric cell consists of a transmitter and a receiver. The transmitter sends the infrared beam to the receiver. If this beam is interrupted, the photoelectric cell sends an action to an installation.

For example, the controller of a door or gate opener, so that it stops in good time if someone is standing in the entrance.

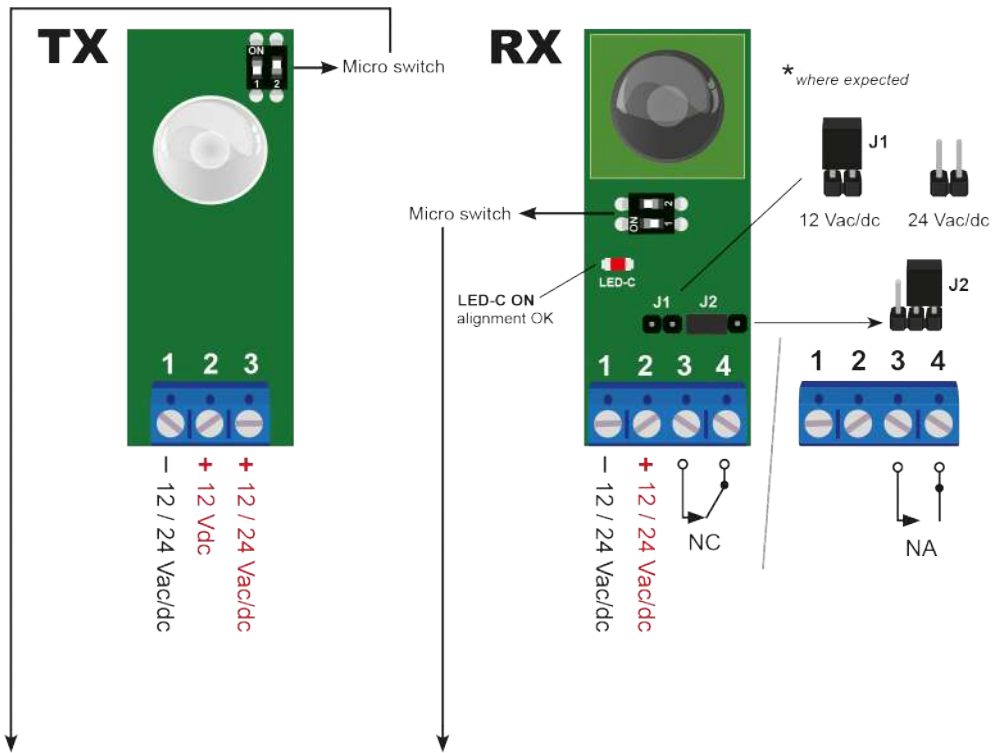


## Photocell as pulse sender

When someone interrupts the infrared beam between the transmitter and receiver of a photoelectric cell system, the system converts this interruption into an electronic pulse. This pulse can for example control an access installation, so that a door, gate, or barrier opens in good time ahead of the person.

## Photocell as safety mechanism

A photoelectric cell is only used 20% of the time as a pulse sender for a barrier or door opener. Much more often (80%) a photoelectric cell is used as protection for a door, gate or barrier. Think for example of the anti-trapping mechanism on an automatic sliding door. Someone passing between the two closing panels of the sliding door interrupts the beam of the photoelectric cell. The photoelectric cell detects this interruption and converts this into an electronic signal to the sliding or revolving door. In response to this signal the door panels immediately halt and/or reopen.

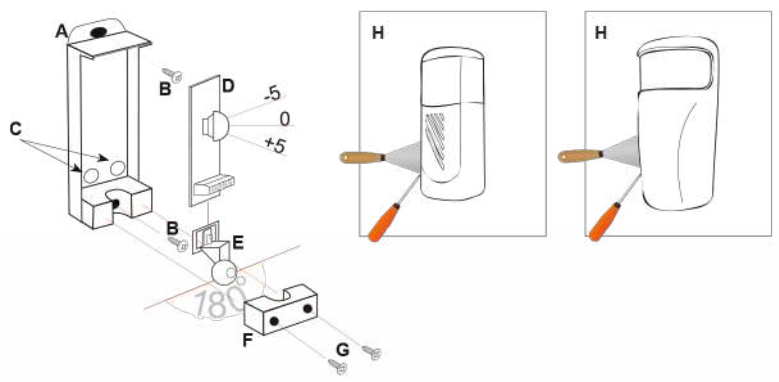
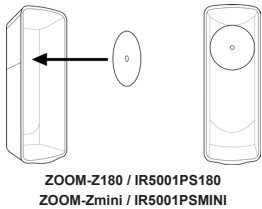


1 ON: activate the synchronisation only 12/24 Vac  
 1 OFF: deactivate the synchronisation  
 2 ON: max. power  
 2 OFF: min. power (avoid reflections)

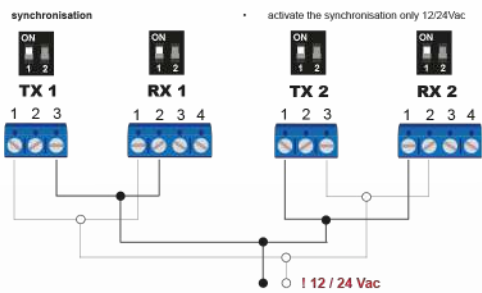
1 ON: activate the synchronisation  
 1 OFF: deactivate the synchronisation  
 2 ON: deactivate the planning intervention time and you can use the synchronisation  
 2 OFF: planning intervention time of 300 mS relé, "snow"

• **GB It is recommended:** TX Micro switch 2-OFF minimum power and apply the adhesive inside the container of the RX photocell, in particular in cases of reflection (floors, walls, and shiny or particularly reflecting surfaces, etc). If using two pairs of photocells simultaneously, for example inside and outside a sliding gate, pay attention on the parallelism to prevent any undesired reflection phenomenon.

**Adhesive power reduction RX**



• Open the photocell with a screwdriver between the bottom and the wall.  
 A. bottom / B. wallmount fixing screws / C. holes passage spin connection / D. circuit / E. sphere support / F. rotating block / G. fixing screws rotating block / H. cover



• When you use in AC and the synchronisation is activated, the light receiver remains partially lit.

Power supply: 13,5 Vac / 24 dc  
 12 Vac / 24 dc  
 Limit power supply: 18-35 Vdc  
 15-28 Vac  
 Max. range up: 20 m  
 Operating temp.: -10°C - +60°C  
 TX Power absorption: 25 mA  
 RX Power absorption: 35 mA  
 Output relay contact: max 500mA  
 e 48 Vac / dc  
 Protection: IP 55 EN 60529