

# ENCODING PHOTOCELLS “ IR/IT 2135 NEW “



Wall-mounted encoding photocells, range of up to 15 mt.

The code for the transmitted signal, which must be set at the time of installation, minimises the possibility of interference between devices.

## TECHNICAL DATA:

- Max. range : 15 metres
- TX power supply : 12-24V AC-DC
- RX power supply : 12-24V AC-DC
- TX absorption : 10 mA Max.
- RX absorption : 25 mA Max.
- Relay contact capacity : 1A max at 30 VDC
- Operating temperature : -10 ÷ 55 °C
- Container : Polycarbonate
- Protection rating : IP 54
- Container dimensions : 82 x 56 x 25 mm.

## Selecting Operating Code “ A ” and “ B ” ( Jumper J2 ) :

The photocell has two operating encoding channels "A" and "B", in this way it is possible to install 2 pairs of the same model without any interference between them. Code "A" ( J2 pos. 1-2 "factory configuration" ) and code "B" ( J2 pos. 2-3 ), must be accordingly selected in the same way, at the time of installation, on both the transmitting part ( IT 2135 NEW ) and the receiving part ( IR 2135 NEW ).

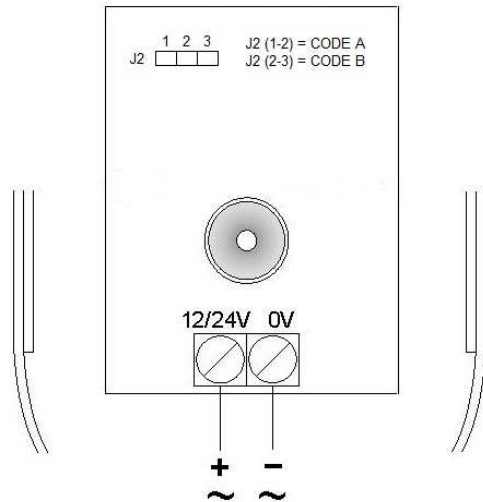
## IT 2135 NEW DESCRIPTION OF THE TRANSMITTER ( TX ) :

### Power supply:

The receiver can be powered with 12 or 24 Volts in either DC (observing the polarity) or in AC

### Connections:

- 1 – 12/24 Vac-dc
- 2 – 0V



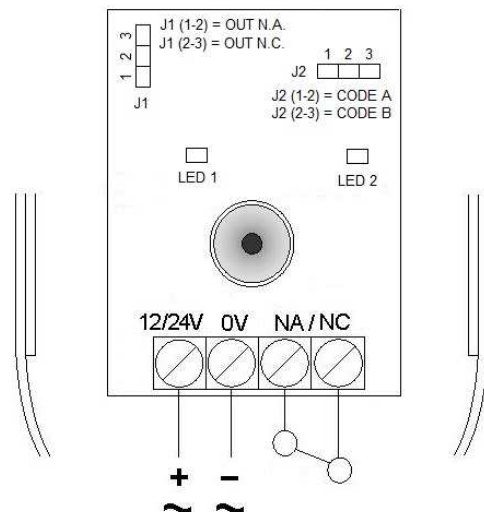
## IR 2135 NEW BESCHREIBUNG DES EMPFÄNGERS (RX):

### Power supply:

The receiver can be powered with 12 or 24 Volts in either DC (observing the polarity) or in AC.

### Connections:

- 1 - 12-24 Vac-Vdc Power Supply
- 2 - 0 Vac-Vdc Power Supply
- 3 - NO/NC photocell contact ( J1 selection )
- 4 - NO/NC photocell contact ( J1 selection )



### Selecting the NO/NC Relay Contact ( with Jumper J 1 ) :

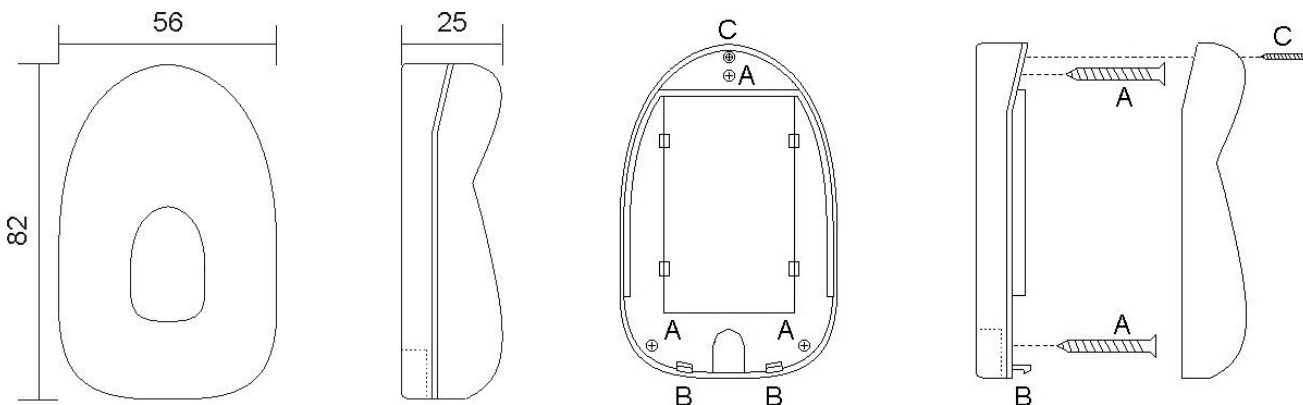
With jumper selection J1 it is possible to choose the type of relay contact as NO (Normally Open) or NC (Normally Closed).  
J1 position 1- 2 : NO relay contact.  
J1 position 2-3 : NC relay contact (factory configuration).

### Checking TX - RX (LED 1) alignment:

Led 1 is installed on the receiver indicating when the TX - RX pair of photocells is aligned.  
Led 1 will be on steadily when the infrared ray is aligned and will go off the when infrared ray goes off.

### Checking the quality of the received signal ( LED 2 ) :

Led 2 is installed on the receiver and flashes based on the quality of the signal received from its matching transmitter. The number of flashes is proportional to the intensity of the signal being received; four flashes, maximum signal, one flash is a weak signal.



### IMPORTANT FOR THE INSTALLER

- If installing multiple devices it is advisable to cross beams (i.e. transmitter A and receiver B on the left and transmitter B and receiver A on the right). If this were not possible maintain a distance (especially between receivers) of at least one metre.

### IMPORTANT FOR THE USER'S

- The device must never be used by children or persons with reduced physical-psychological abilities, unless supervised or trained on the functioning and the use modalities.
- Do not allow children to play with the device and keep the radio-controls away from their reach.
- ATTENTION: keep this instruction manual and respect the important safety prescriptions contained herein. The non compliance with the prescriptions may cause damages and serious accidents.
- Frequently examine the plant to detect any signs of damaging. Do not use the device if a repair intervention is necessary.

### Attention

All operations which require the opening of the casing (cables connection, programming, etc.) must be carried out by expert personnel during installation. For any further operation which requires the casing to be re-opened (re-programming, repair or installation amendments) contact the after-sales assistance.

the products: **IR/IT2135 NEW**  
are compliant with the specifications of Directive EMC 2004/108/EC.

