

FOTOCELLULE A BATTERIA PHOTOCÉLULES À BATTERIE PHOTOCELLS WITH BATTERIES BATTERIEPHOTOZELLEN FOTOCÉLULAS A BATERÍA

cod. ACG8038

RX



**TX
WIRELESS**



CE

The photocells are fitted with a transmitter that can be powered by two 3V6 2.7Ah lithium Thionyl chloride batteries or with an external 12/24V AC/DC power supply, selectable with a jumper.

The optical unit (emitter diode + lens) of the transmitter and of the receiver can be oriented in three different directions so it can be adapted to different installation situations.

The photocell has two terminals for the connection of a free contact of an external safety device (safety edge) and two terminals for the connection of a resistive edge. The photocell is particularly suited for use on sliding

gates, mounted on the mobile part it can be connected to a wire or resistive safety edge, without having to lay cables or use re-wind cables. The battery life-span is more than 15 months.

This product can be connected to RIB control boards equipped with autotest in compliance with Norm EN13849-1:2007. It can therefore be used in order to create a system in compliance with the EN13241-1:2003.

MAIN TECHNICAL FEATURES

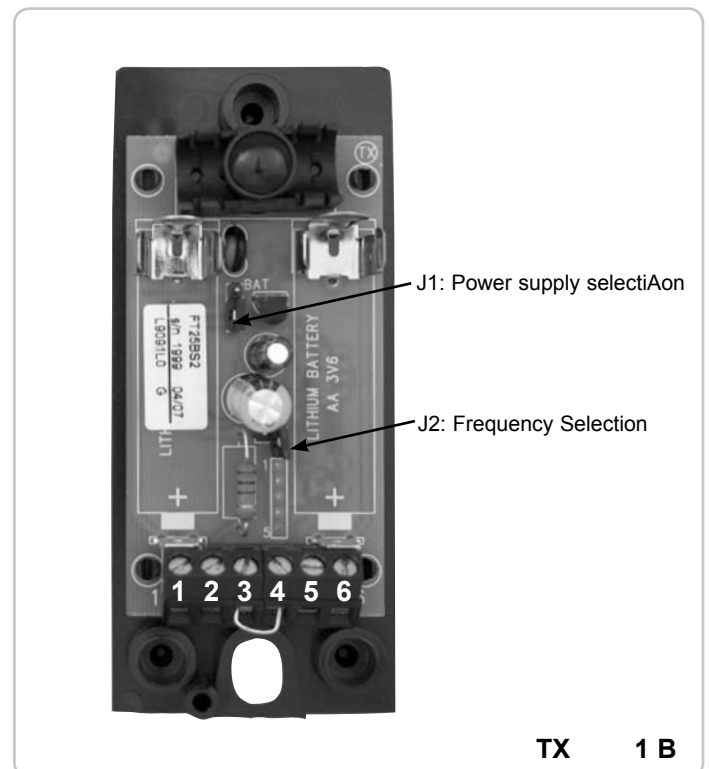
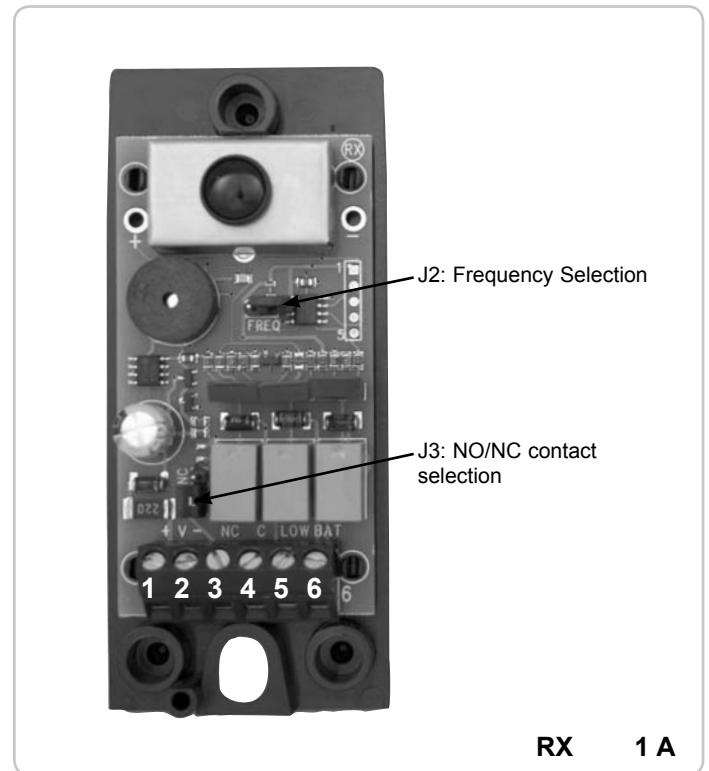
Power supply Transmitter	2 3,6V 2.7Ah Lithium Thionyl chloride batteries Alternatively 12 - 24 V AC/DC
Power supply Receiver	12 -24 V AC/DC
Consumption Transmitter	< 500 µA
Consumption Receiver	30 mA
Container	ABS
Dimensions/weight	110 x 50 x 25 mm 200g
Protection rating	IP 45
Infra-red wavelength	950 nm
Relay contact range	0.5 A @ 24 V AC/DC
Infra-red beam range	25 m nominal (8 m outdoor)
Operating temperature	-20 +55° C
Intervention time with triggering of photocell beam	< 40 ms
Intervention time with triggering of safety edge connected to terminal strip	< 60 ms
Reset time	< 150 ms

RECEIVER TERMINAL STRIP

1	+V	Power supply 12 - 24 V AC/DC
2	-V	Power supply 12 - 24 V AC/DC
3	N.C./N.A.	Relay contact normally open or closed depending on NO/NC selection jumper
4	C	Relay contact normally open or closed depending on NO/NC selection jumper
5 - 6	LOW BAT	Flat battery Normally open contact

TRANSMITTER TERMINAL STRIP

1	+12 ÷ +24 V AC/DC	Power supply 12 - 24 V AC/DC
2	0 V	Common power supply
3 - 4	EDGE	Terminal for safety edge free contact (jump if not used)
5 - 6	EDGE 8K2	Terminal for 8K2 resistive edge (DON'T jump if not used)



INSTALLATION

- Fix the photocell using the supplied drilling template (fig. 2).
- Make connections as indicated in the previous paragraphs and select the transmitter power supply with the specific jumper (J1, Fig. 1B):
POSITION A: external power supply 12-24 V AC/DC
POSITION B: battery powered
- Select the same operating frequency on the receiver and on the transmitter with the specific jumpers (J2, fig 1A & 1B):
 Frequency 1: Jumper disabled
 Frequency 2: Jumper enabled
- Connect to the specific terminal strip (terminals 3 & 4, Fig. 1B) the safety edge or external safety device contact to the transmitter. **If this option is not used, jump terminals 3 and 4.**
- Connect to the specific terminal strip (terminals 5 & 6, Fig. 1B) the contacts of the 8K2 resistive edge external to the transmitter. **If this option is not used, do NOT jump terminals 5 and 6.**
- Select on the receiver the logic of the NO or nc output contact with jumper J3.
- Position on the transmitter the probe in the position from the three possibilities most suitable to the alignment.
- Align the beam to the receiver by adjusting the specific screws "A" (fig. 2) supplied, both on the receiver and the transmitter.
- With a voltmeter, measure the tension value on the receiver test-point. (Fig. 2). This value varies according to various parameters, among which the distance between the photocells. The higher the tension value on the test-point the better is the alignment. The ideal measure should be between 0.5 and 0.6 VDC.
- Check that the interruption of the infra-red beam causes the opening of the normally closed contact of the relay on the receiver and the lighting up of the red LED.

FLAT BATTERY SIGNAL

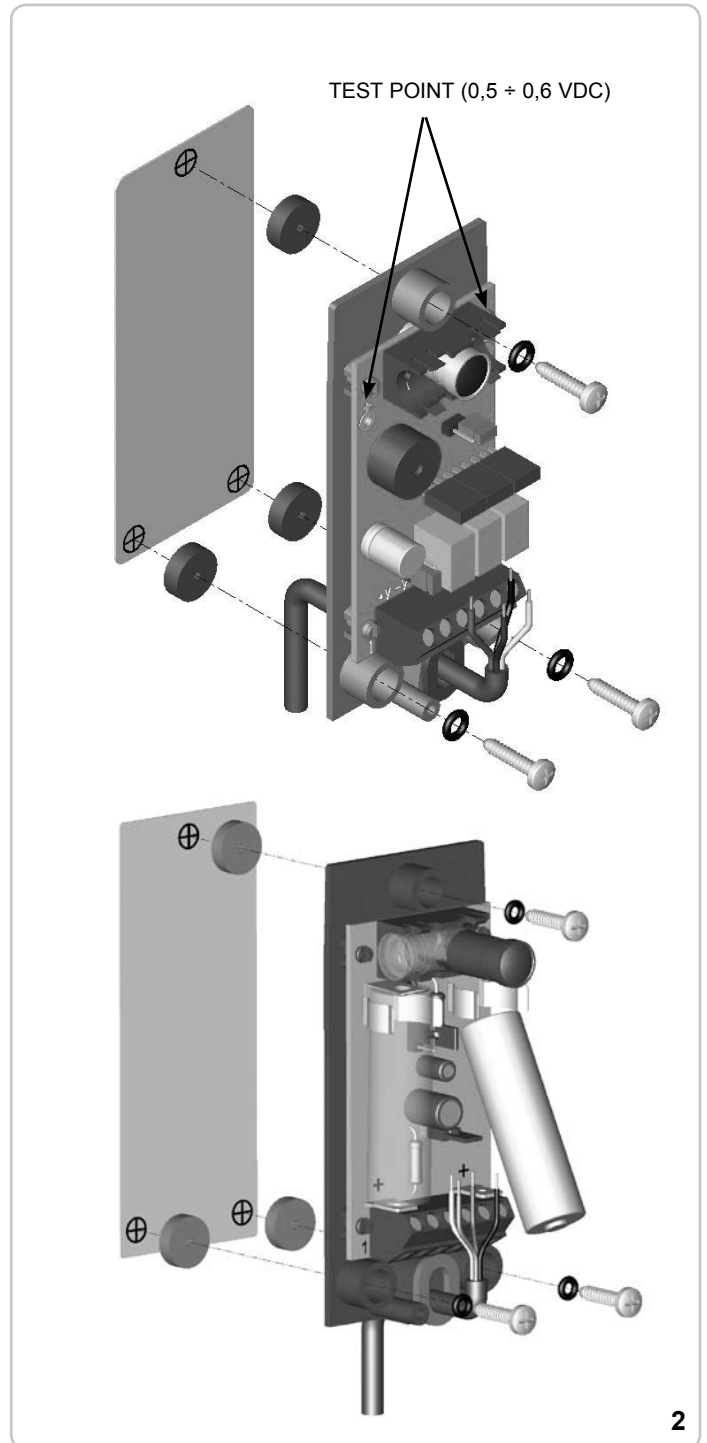
The flat battery situation is signalled optically by the transmitter to the receiver.

The receiver closes the free LOW BAT contact available in the terminal strip and activates an intermittent buzzer.

The flat battery indication is given one week before the battery is completely flat.

Once the batteries have been replaced, switch the receiver OFF then back ON to deactivate the LOWBAT contact and the buzzer.

However, this will happen automatically after 15 minutes.



SELF INSTALL - NEED TECHNICAL ASSISTANCE?

OPTION 1: DIRECT WITH THE SERVICE DESK – QUICKEST AND MOST EFFECTIVE METHOD

Submit your enquiry direct with the service desk at – service@automaticsolutions.com.au

The service desk has the most experienced staff in Australia to help with your problem but they need your help.

- Describe your problem in detail and as clearly as possible. Don't forget to include a telephone number.
- Be certain to detail which model or models of you are working with.
- Send photos of the installation – they love photos. The people at the service desk are good but they are even better when they can see the installation. Send photos of the overall scene so they can see the entire installation. Also send photos of the wiring to the control board and any other part of the installation you think is relevant.
- Send video if appropriate. Smartphone's these days take remarkably good video in small file sizes which can be emailed in a moment. If your problem needs a video to show the issue please feel free to send it.

**NOTE: THIS IS BY FAR THE FASTEST AND MOST SUCCESSFUL WAY TO SOLVE YOUR PROBLEM
PHOTOS AND VIDEOS ARE THE NEXT BEST THING TO BEING THERE**

OPTION 2: LODGE YOUR ENQUIRY LOCALLY - SLOWER BUT CAN STILL BE EFFECTIVE

Make contact with the store of purchase. Branch staffs are typically not technicians and dependent on their length of service will have varying degrees of technical knowledge. If they cannot help however they will certainly either source help locally from their technicians or make contact with the service technicians on your behalf.

OPTION 3: SERVICE CALL WITH AUTOMATIC SOLUTIONS TECHNICIAN – SLOWEST METHOD

If you fall within the local branch service area it may be possible to book a local technician to look at your installation. Wait times will vary dependent on local workloads. The cost is a service fee which includes the first half hour and the hourly rate thereafter. If any Automatic Solutions provided parts are found to be defective and within warranty these will be provided free of charge.

(NOTE: If you suspect that any parts are defective and within warranty you may wish to consider option 4)

A note on this option: If you decide on this option you will be asked to sign an "authorisation to proceed" which will provide legal authority and payment security. This form has three options available of which only the first two are available to you. The third option is for warranty repairs only for full install customers. Self install customers requiring warranty only service need to refer to option four below.

IMPORTANT: IN SHORT THIS OPTION WILL INCUR CHARGES

OPTION 4: RETURN THE PRODUCT IF BELIEVED TO BE FAULTY

As a self install customer who has purchased product if you believe the product to be faulty rather than an installation or site problem you have the option of returning the product for evaluation and to exercise your right to a replacement, repair or refund as applicable. All returned product is forwarded immediately to the service technicians for evaluation and response. There are two main methods available to return product –

- Direct to the service centre – this is the quickest method as it cuts out the branch delay
- Via the branch of purchase – slower because of the delay at the branch

When choosing this option you need to complete a product return form. This form gives you all the information on procedure involved and where to send to. These are available at the branch of purchase, can be emailed to you (contact your branch), or available here - <http://automaticsolutions.com.au/page/warranty.php>