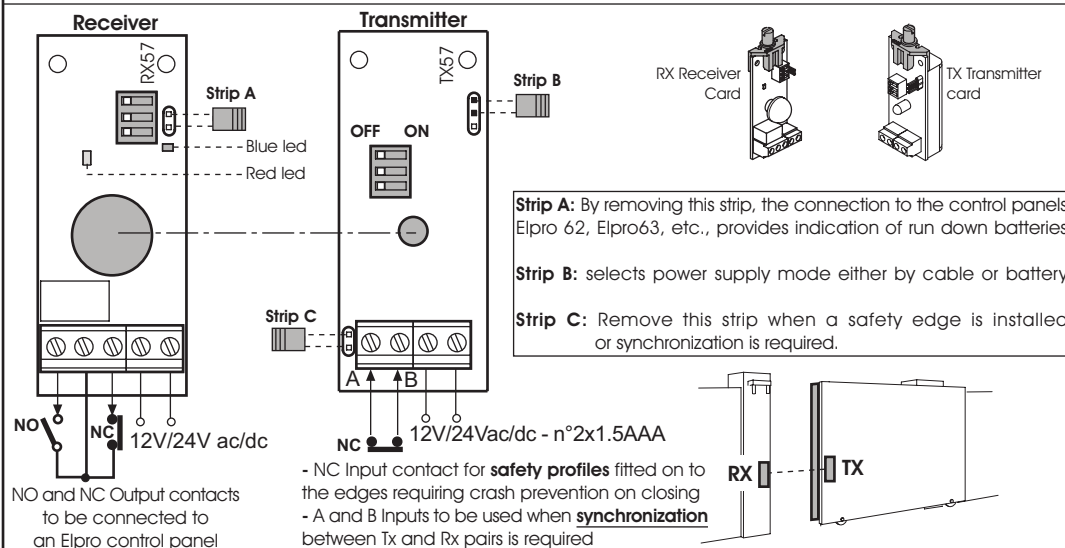
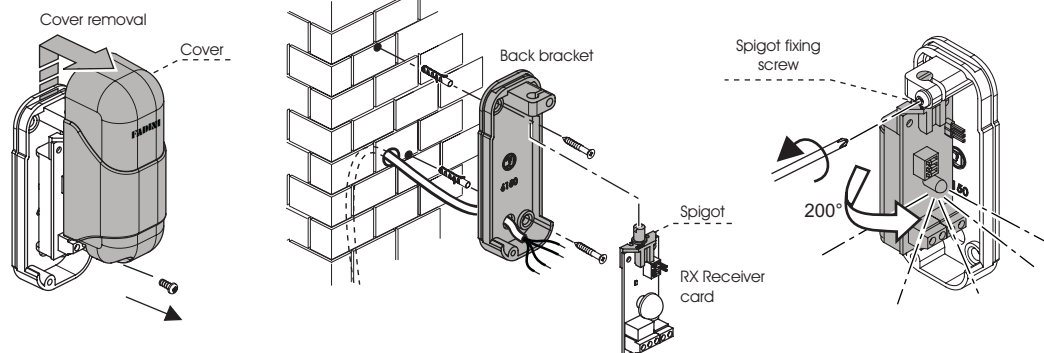


GB Photocells ORBITA 57: pair of infrared photocells, TX (transmitter) and RX (receiver), adjustable on the horizontal plane. Two options available:

- 1) The TX57 transmitter can be battery operated 2x1.5V AAA or 12V/24V ac/dc power supplied.
- 2) Synchronized operations achievable up to 7 pairs, but only with the 12V/24V ac/dc power supply option: one on top of the other, all the TX's on to one side and all the RX's on to the other. The barrier thus achieved is absolutely interference free (pair match Rx and Tx through the dip-switches).

For any required application use the NO and NC output contacts, and the NC input for the safety edge.



Technical data:

Power supply: 2x1.5AAA or 12V/24V ac/dc
Absorption TX: 11mA - 44μA (battery-operated)
Absorption RX: 16mA
Protection standards: IP54
Temperature: -20°C +80°C

Max. distance (*): 8m (battery-operated) - 15m
Output contact: 1A - 125V - 60VA max
Battery life: about 2 years
Recommended cable section: inferior to 0.5mm²

a (m):	4	5	6	7	8	9	10	11	12	13	14	15
battery	15	10	10	5	5							
b (cm):	12V/24V	80	70	50	40	30						

(* Distance range may decrease in case of dusts, fog or atmospheric precipitations)

Drwg. **6242** INSTRUCTIONS **ORBITA 57**



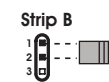
1° RX 12V/24V ac/dc voltage supplied TX battery-operated: 2x1.5V AAA

Max. distance between TX and RX 8m



All Dip-Switches in TX and RX set to OFF

2° In TX put strip B on to PINS 1 and 2



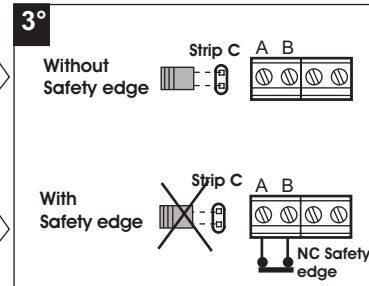
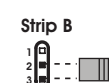
1° RX 12V/24V ac/dc voltage supplied TX 12V/24V ac/dc voltage supplied:

Max distance between TX and RX 15m



All Dip-Switches in TX and RX set to ON

2° In TX put strip B on to PINS 2 n 3



CENTERING PHASE:

Important: Power supply TX and RX. 4 minutes are available for this phase, during which the Blue Led is flashing and the Red Led is steady on thus indicating that centering between Tx and Rx is no good.

Drive the fixing screw so that the cards are held in in position, but not too hard, and adjust them until aligned: **alignment is achieved when the blue and red leds are both off**, then tighten the fixing screw thoroughly.

The Red led indicates centering failure (as well as obstacle detection), while the Blue Led helps with centering by indicating that the infrared beam "cone" of the Transmitter is only partly centered with the receiver. After 4 minutes from powering, the Blue Led goes off, even if no centering has been achieved; it starts flashing again in case the batteries are running down. If the electrical power is disconnected, on powering back the photocells (should they not been aligned), the Blue Led flashes for 4 minutes (the time available for a new centering), on expiring of this time, the led sets back to run down battery mode.

- Blue Led: off= perfect centering

Flashing= almost perfect centering (first 4 minutes of the installation)

Flashing= batteries running down, to replace

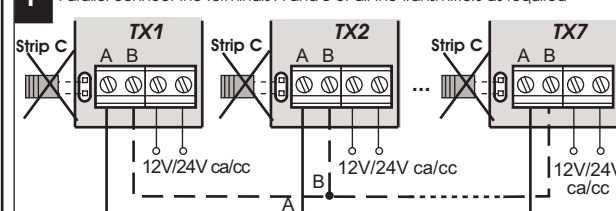
- Red led: On: no centering achieved,

or photocells are obstructed

Off: perfect centering

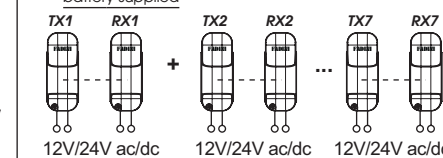
Synchronization up to 7 pairs: Remove Strip C and series connect all the NC contacts of the receivers to the Control board
Important: the transmitter TX and the receiver RX must be 12V/24V ac/dc voltage supplied

1° Parallel connect the terminals A and B of all the transmitters as required

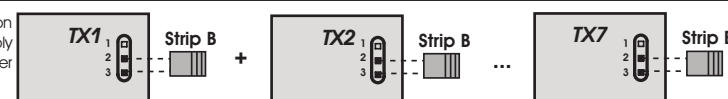


2° Voltage supply all the required RX Receivers and TX transmitters.

No synchronization is possible if the TX transmitters are battery supplied

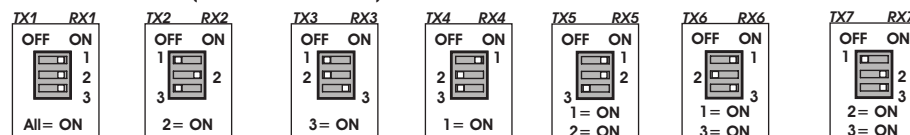


3° With all the required Tx transmitters, position Strip B so to link the pins 2 and 3 to supply the units with 12V/24V ac/dc electric power



4° Each pair TX and RX must have the same Dip-Switch configuration.

MOST IMPORTANT: AMONG ALL THE POSSIBLE CONFIGURATIONS AVOID THAT WHERE ALL DIP-SWITCHES ARE SET TO OFF AND CONFIGURATION 1 (ALL DIP-SWITCHES TO ON) MUST ALWAYS BE INCLUDED



Manufacturer's Declaration of Conformity



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Meccanica Fadini declares under its own responsibility that the model ORBITA 57 is a safety accessory conceived to be traded and installed into a comprehensive "automatic system", including the accessories and components as recommended by the Manufacturing Company.

The installer is required to release his own Declaration of Conformity and carry out all the tests to assess conformity with the current norms. The manufacturing company is not liable for incorrect applications or misuse of its products. This product complies with the following norms:

- Low Voltage Directive of 2006/95 CE and previous ones
- Electro-magnetic Compatibility Directive of 2004/108/CE and 92/31 CEE and previous ones

The Responsible Manager

[Signature]