

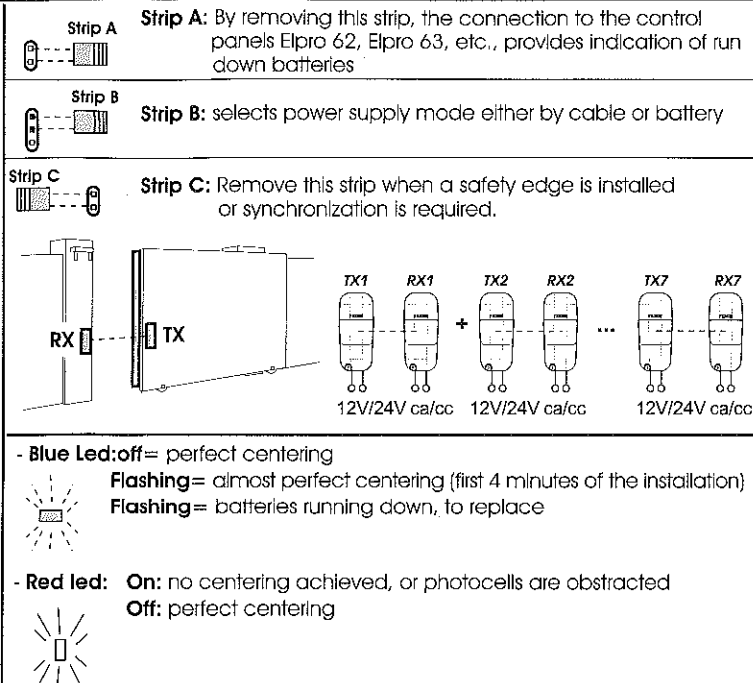
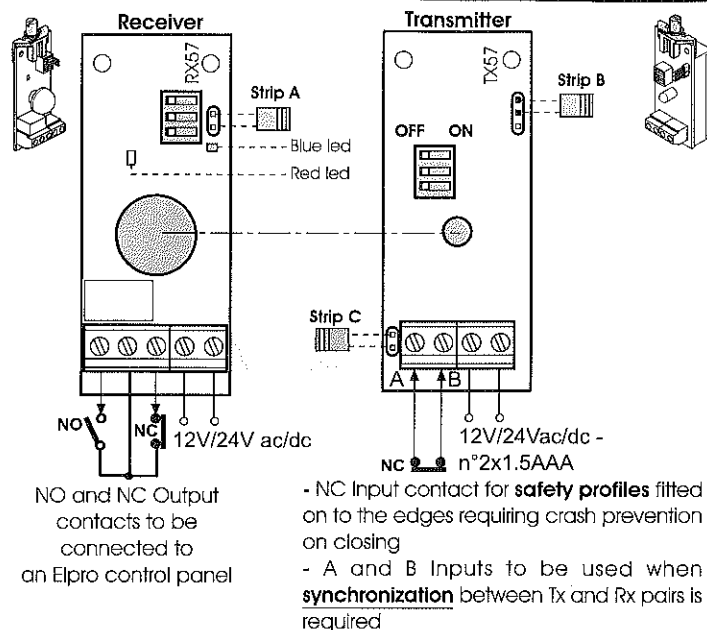
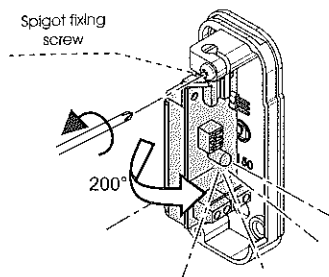
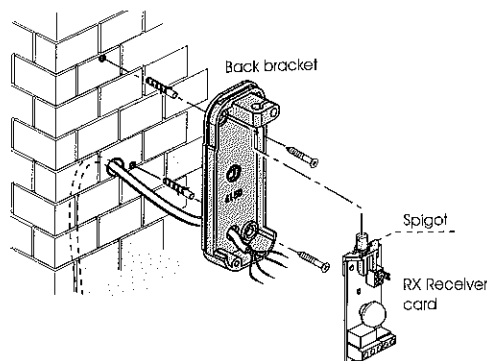
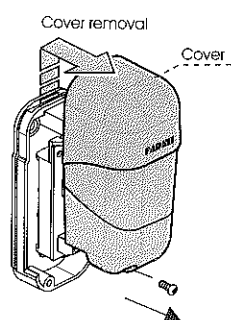
Photocells ORBITA 57: pair of infrared photocells, TX (transmitter) and RX (receiver), adjustable on the horizontal plane.

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.



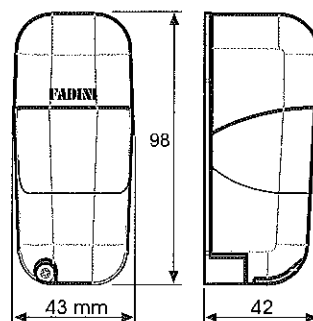
Technical data:

Power supply: 2x1.5AAA or 12V/24V ac/dc
Absorption TX: 11mA - 44µA (battery-operated)
Absorption RX: 16mA
Protection standards: IP55
Temperature: -20°C +80°C

Max. distance (*): 8m (battery-operated) - 15m (12V-24Vcc/ca)
Output contact: 1A - 125V - 60VA max
Battery life: about 2 years
Recommended cable section: inferior to 0.5mm²
Max. rotation: 200°

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

(* Distance decreases by approx. 30-50% in case of fog, rain or dusts.



Manufacturer's Declaration of Conformity

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
- Electro-magnetic Compatibility Directive of 2004/108/CE



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The Responsible Manager

Fadini

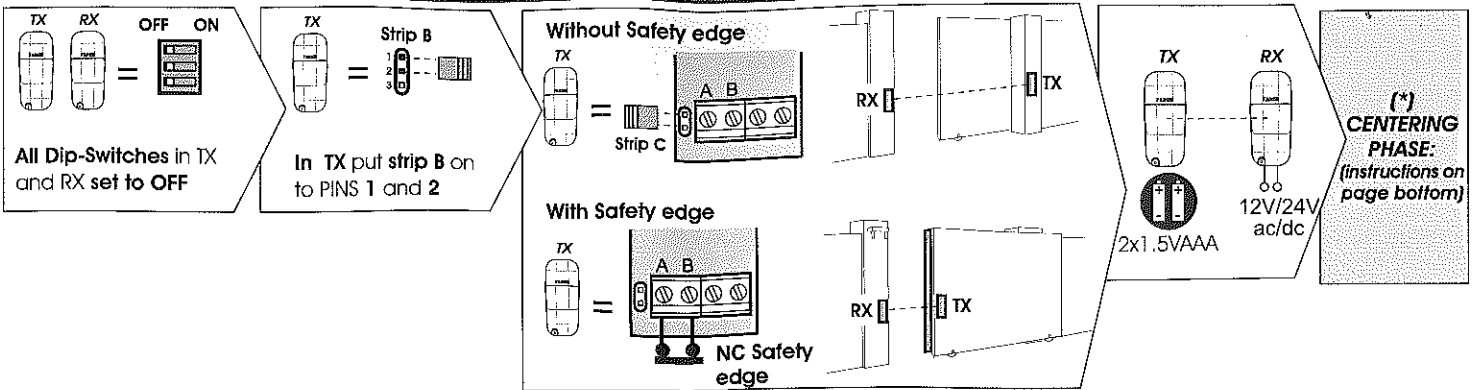
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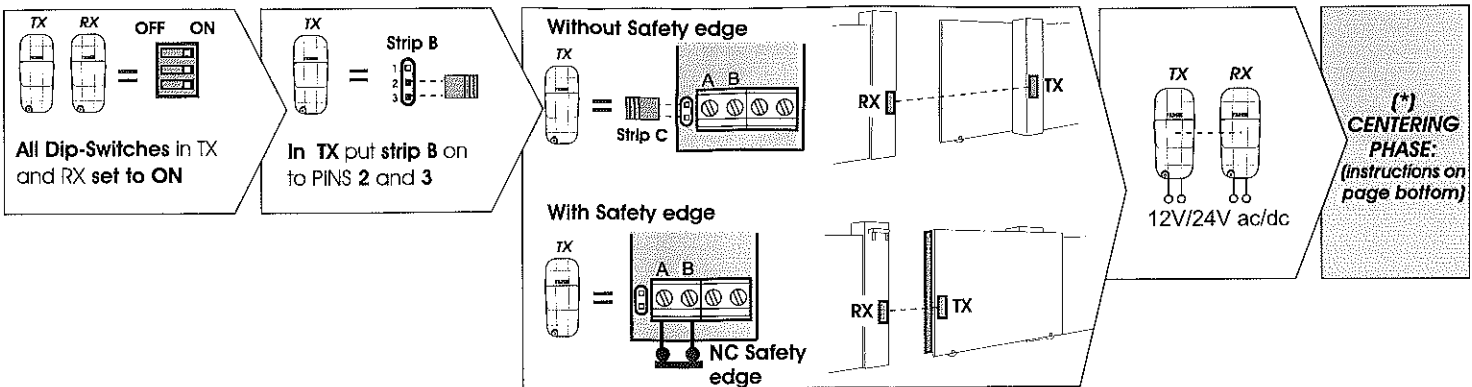
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Functioning by battery (only Transmitter TX): Max. distance between TX and RX 8m (one pair)



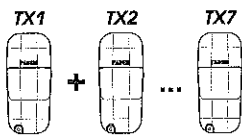
Functioning by 12-24Vac/dc: Max distance between TX and RX 15m (one pair)



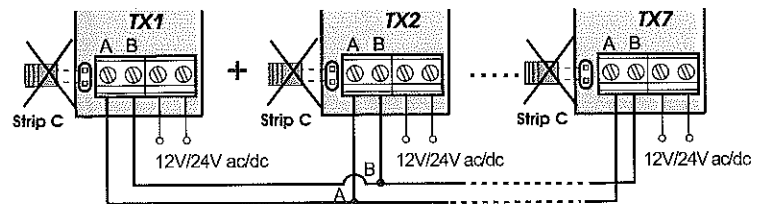
Synchronization up to 7 pairs 12-24V ac/dc supply voltage: Max distance between TX and RX 15m

Installation where the receivers RX are all on one side and the transmitters TX are all on the opposite side

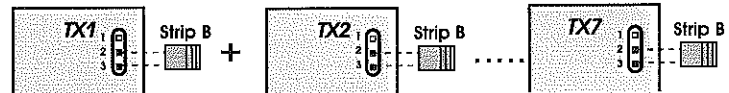
1) From all the transmitters TX:



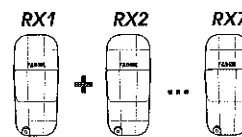
Remove the **Strip C** and parallel connect the A and B terminals of all the transmitters in the system



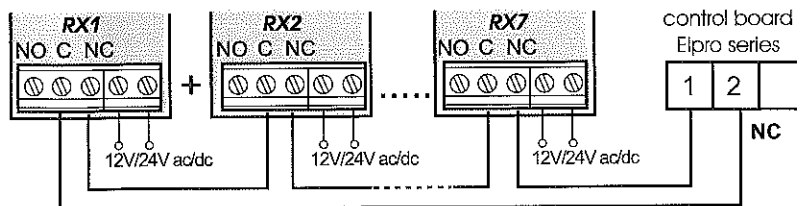
With all the required Tx transmitters, position **Strip B** so to link the pins 2 and 3 to supply the units with 12V/24V ac/dc electric power



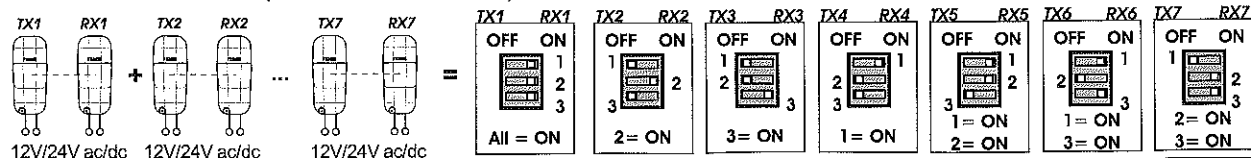
2) On all the Receivers RX:



Series connect all the NC contacts of the receivers to the Control board



3) 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



(*) CENTERING PHASE (for Orbita 57 in any mode of functioning)

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 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 Flashing 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 (if this option applies) 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.