

The MR14 receiver is a wireless receiver for managing multiple MX14 emitters. When receiving information from the emitter, it communicates with the automation control board via cable, so that the automation can be stopped or reversed.

TECHNICAL CHARACTERISTICS

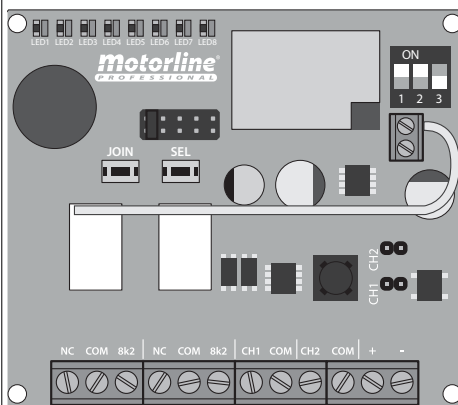
• Power Supply	12-32Vdc / 12-24Vac
• ECO Inputs	12/24V
• Relay	30Vdc 1A/125Vac 0.5A
• Working frequency	Self-adjusting 868 MHz
• Memory for emitters	8
• Range in open field	50m
• Dimension	81 x 65 x 20 (mm)
• Protection degree	IP30

AES encryption

INPUTS / OUTPUTS AND LEDS

LEDs

LED1, LED2, LED3 e LED4 - memory position indicators to be programmed for **channel 1**
LED5, LED6, LED7 e LED8 - memory position indicators to be programmed for **channel 2**



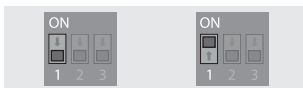
1 • NC	Relay output NO channel 1 > the output is active when any channel 1 emitter is in error (ex: Door hit an obstacle, communication failed or the battery ran out). The NC or NO output must be connected to the control board.
2 • COM	
3 • 8k2	
4 • NC	Relay output NO channel 2 > the output is active when any channel 2 emitter is in error (ex: Door hit an obstacle, communication failed or the battery ran out). The NO or NC output must be connected to the control board.
5 • COM	
6 • 8k2	
7 • CH1	12/24V mode input > used to activate channel 1 or 2 in ECO mode (Dipper 1 OFF). The control board must activate this input when the door starts to move.
8 • COM	
9 • CH2	
10 • COM	
11 • +	12/24Vdc/ac power supply
12 • -	

DIPPER

ON

Basic operation:

Dipper 1 → ON;
Dipper 2 → OFF;
Dipper 3 → OFF.

1**WORKING MODE****ALWAYS ON****2****30 SECONDS****7 SECONDS****3****ACTIVED BUZZER****DEACTIVATED BUZZER**

The **Auto test** is an external signal that checks the relay (there is one for each channel).

Dipper 1 allows you to select the desired type of operation.
• **OFF - Working mode** - Recommended for the optical sensor

> The working mode allows you to activate/deactivate the optical sensor. When the optical sensor is active, a communication test takes place. Communication is also tested every 7 or 30 seconds. This mode allows energy saving.

• **ON - "Always ON" mode** - Recommended with 8k2, NC, NO or tilt sensor

> The communication is tested every 7 or 30 seconds, according to the position of dipper 2.

In **dipper 2** can set the self check period.

> It makes automatic recognition every 30 seconds or every 7 seconds.

• **OFF** - 30 seconds

• **ON** - 7 seconds

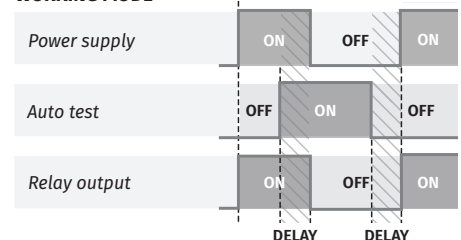
Dipper 3 • Buzzer (beep)

• **OFF** - Active buzzer

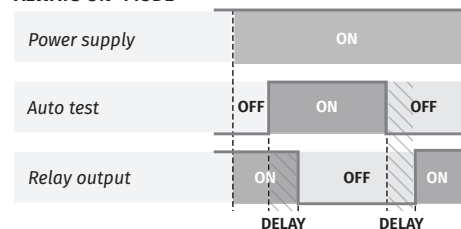
• **ON** - Deactivated buzzer

Graphic representation of the Auto Test:

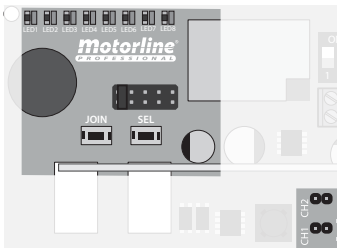
WORKING MODE



"ALWAYS ON" MODE



BUTTONS AND LEDES



SEL → BUTTON TO SELECT THE EMITTER POSITION TO ADD/CHANGE:

- > The selected LED is flashing;
- > Each click increases a position, if you pass the last position it returns to LED 1;
- > If you do not press any button for 10 seconds, the selected LED turns off and is no longer in "selection mode".

JOIN → Button to enter or exit the "add emitter" mode:

- > Press this button after selecting the position to add/change;
- > To exit without adding a new emitter, press this button again.

• LED 1 to 8 → MEMORY POSITION INDICATORS TO PROGRAM:

- ON** – Emitter programmed in this position;
- OFF** – Free position;
- Blink** – Emitter programmed, but with error.

• LED JOIN → MEMORY POSITION INDICATORS TO PROGRAM:

- ON** – Programming mode active;
- OFF** – Programming mode inactive.

• PIN HEADERS → CHANGE POLARITY:

- CH1** – Changes the polarity of channel 1 self-test;
- CH2** – Changes the polarity of channel 2 self-test.

PROGRAMMING EMITTER:

- 1 • Press SEL button to select the position where you want to program the emitter.
- 2 • Press the JOIN button to open the selected position (the position LED will flash quickly)
- 3 • Press the JOIN button of the desired emitter.
- 4 • The position LED stops flashing and stays on, signaling the success of the operation.

NOTE • If a emitter is already stored in that position, the new emitter will replace the previously programmed emitter.

DELETE EMITTER:

- 1 • Press the emitter's JOIN button until the transmitter's JOIN LED flashes once.

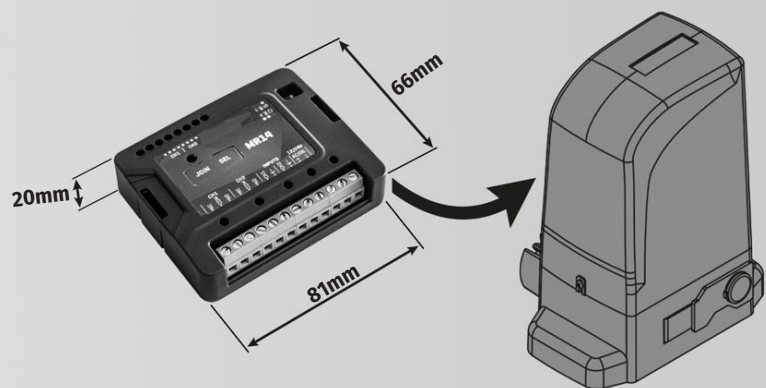
OR

- 1 • Press SEL button to select the position you want to delete.
- 2 • Press the JOIN button to open the selected position (the position LED will flash quickly).
- 3 • Press the JOIN button again to delete the emitter from that position.
- 4 • The position LED stops flashing and goes off, signaling the success of the operation.

PRODUCT INSTALLATION

APPLICATION INSIDE THE MOTOR:

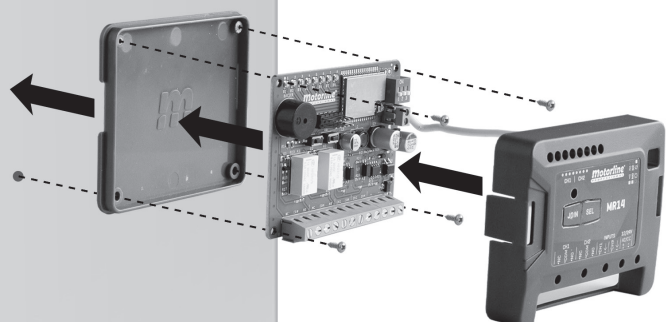
- > Insert the device into the motor cover, to facilitate connections to the control board and to avoid infiltration of moisture.



INSTALLATION:

- > The device can be applied in other locations. Secure with 2 screws.

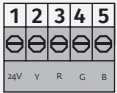
NOTE • It is not advisable to install inside an iron box as it can create noise in the communication.



CONNECTION SCHEME



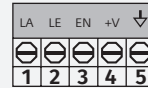
Check the manual for your control board to identify the entries corresponding to the one indicated in the diagram.



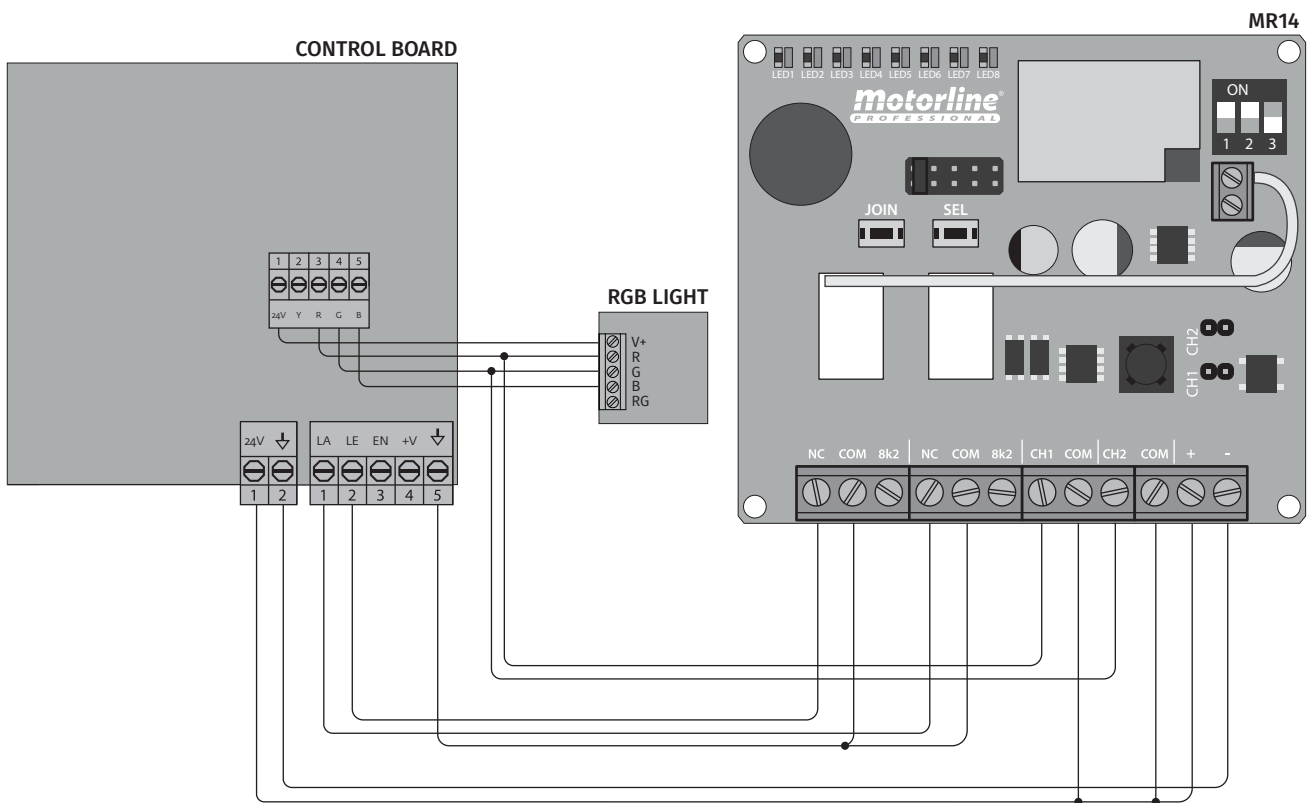
- 1 • 24V → 24V output
- 2 • (not used)
- 3 • R → 0V output - activated during closing maneuvers
- 4 • G → 0V output - activated during opening maneuvers
- 5 • B → 0V output - activated during pause time



- 1 • 24V output (minimum → 100mA)
- 2 • COM



- 1 • LA → Security band input
- 2 • LE → Photocells input
- 3 • (not used)
- 4 • (not used)
- 5 • COM



Dry contact safety devices NO

Signal inhibitor

• When closed (NC), the emitter will ignore signals from inputs 8k2 NO/NC and optical sensor.

Optical sensor

8k2 or NC resistive safety rubber

• To use, remove the resistance that comes from the factory at inputs 5 and 6.

Solar panel

