



MR14

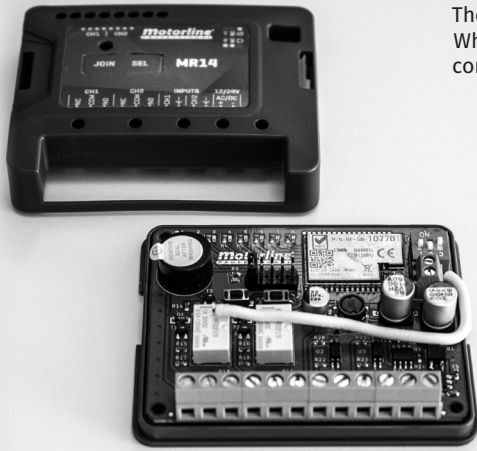


v3.3 REV. 08/2024



OPERATION / PROGRAMMING MANUAL

EN



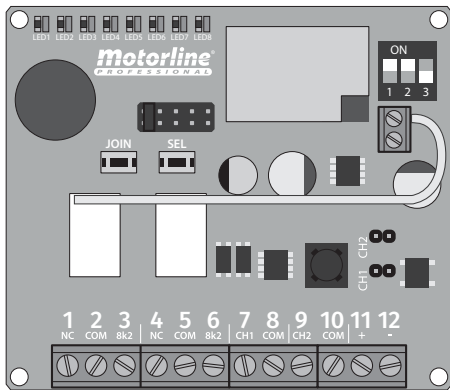
The MR14 receiver is a wireless receiver for managing multiple MX14 emitters. When receiving information from the emitter, it communicates with the automation control board via cable, so that the automation can be stopped or reversed.

TECHNICAL CHARACTERISTICS	
• Power Supply	12-32Vdc / 12-24Vac
• ECO Inputs	12/24V
• Relay	30Vdc 1A/125Vac 0.5A
• Working frequency	From 868.0 MHz to 869.8 MHz
• Memory for emitters	8
• Range in open field	50m
• Dimension	81 x 65 x 20 (mm)
• Protection degree	IP30

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

Basic operation:
Dipper 1 → ON;
Dipper 2 → OFF;
Dipper 3 → OFF.

1

ON	ON
1	1
2	2
3	3

WORKING MODE **ALWAYS ON**

2

ON	ON
1	1
2	2
3	3

30 SECONDS **7 SECONDS**

3

ON	ON
1	1
2	2
3	3

ACTIVED BUZZER **DEACTIVATED BUZZER**

Auto test is an external signal that checks the relay and communication (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**

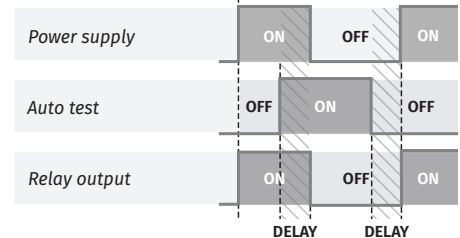
Dipper 3 • Buzzer (beep)

• **OFF – Active buzzer**

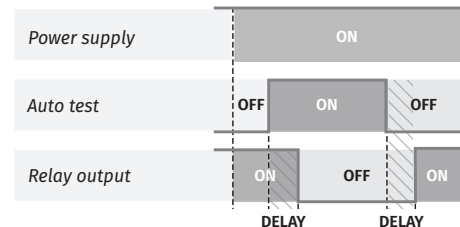
• **ON – Deactivated buzzer**

Graphic representation of the Auto Test:

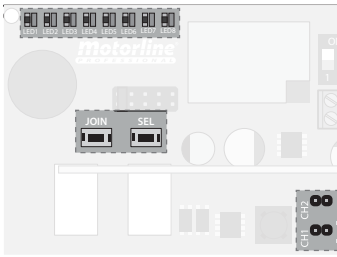
WORKING MODE



"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 or not detected.

• 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-tes;
- CH2** – Changes the polarity of channel 2 self-tes.

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 on the desired remote control until the JOIN LED starts flashing.
 - 4 • The position LED stops flashing and stays on, signaling the success of the operation.
- NOTE** • If there is already a emitter memorized in that position, it will replace the previous one with the new one.

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.

CHECK COVERAGE:

- 1 • Press the SEL button until the JOIN led starts flashing.
- The POSITION INDICATOR LEDs will start to flash depending on the signal coverage.*
To exit the mode, press the SEL button again until the JOIN led stops flashing or wait 5 minutes.

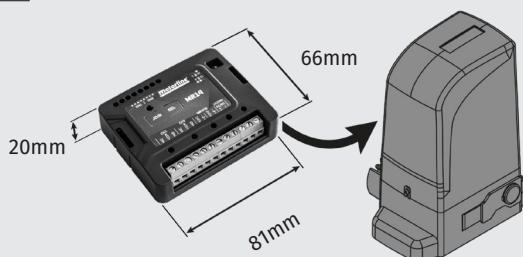
CHANGE FREQUENCY:

- 1 • Press the SEL and JOIN buttons at the same time until the JOIN led starts flashing;
 - 2 • Press the JOIN button as many times as necessary until you reach the desired frequency;
 - 3 • Press the SEL and JOIN buttons at the same time to save and exit
- LEDs 1 to 4 indicate the selected frequency.*

BLINKERS	SIGNAL COVERAGE
1	Very weak
2	Weak
3	Normal
4	Good
5	Very good
Always	Not detected

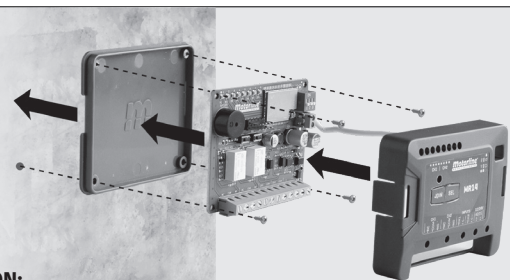
LEDs ON	FREQUENCY
1	868.0 MHz
2	868.6 MHz
3	869.2 MHz
4	869.8 MHz

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.

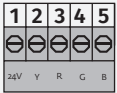


Whenever the MR14 is restarted, it can take up to 30 seconds for all MX14 to be active.

CONNECTION SCHEME



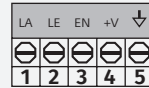
Check the manual for your control board to identify the entries corresponding to the one indicated in the diagram.



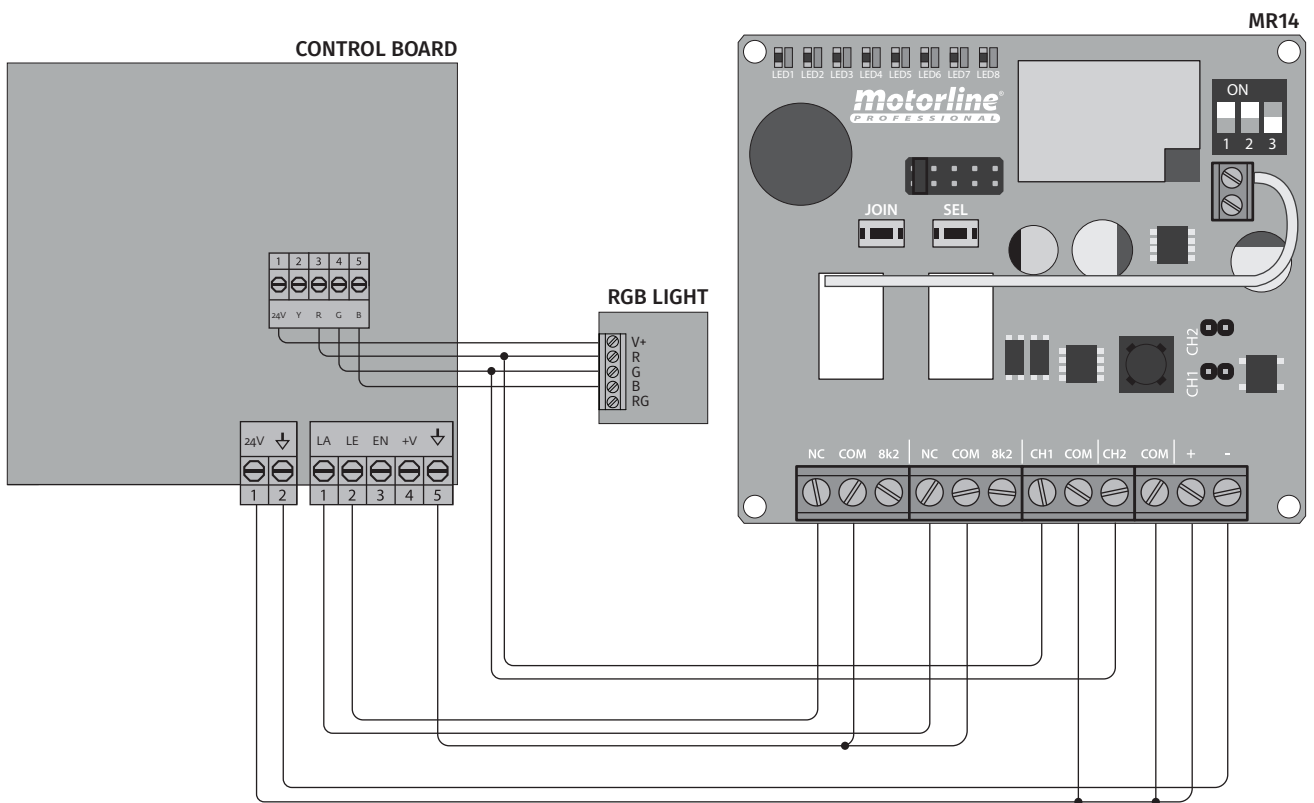
- 1 • 24V → 24V output
- 2 • (not used)
- 3 • R → 0V output - activated during closing maneuvers
- 4 • G → 0V output - activated during opening maneuvers
- 5 • B → 0V output - activated during pause time



- 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

Solar panel

