

**OPERATION/PROGRAMMING MANUAL** 



ΕN

v1.1 REV. 07/2021

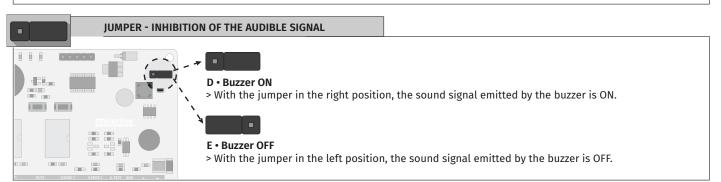
PORTUGAL

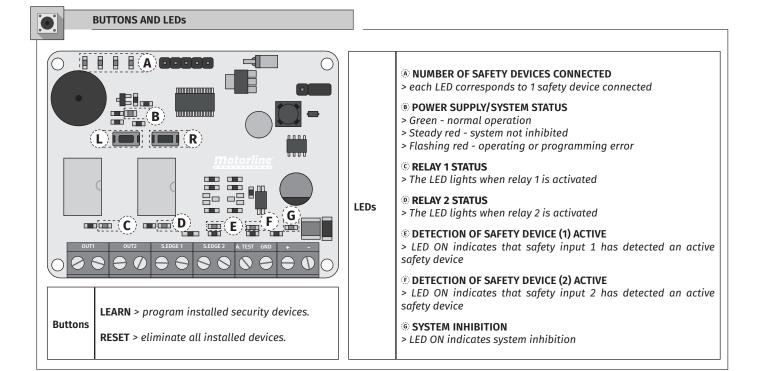


The MPC14 is a controller for 8k2 resistive safety bands and optical safety bands. With its 2 channels, it ensures continuous supervision of the security system and locks it if necessary.

TECHNICAL CHARACTERISTICS	
• Power Supply	12-24 Vdc / 12-24Vac
• Relay	30VDC 1A / 125VAC 0.5A
• Number of channels	2
8k2 safety bands by channel	2
OSE (optical safety bands) by channel	1
• IP	IP30
Dimension	81 x 65 x 20 (mm)

			1• + 12 - 24 Vdc / 12 - 24Vac Power supply   2• - -		12 – 24 Vdc / 12 – 24Vac Power supply	
	2 + () 3 Ng ()		3• 4•	GND A.TEST	Input for Auto Test > with the A.TEST terminal connected to the GND, the system works normally. > if not connected, the system will ignore any signal from the inputs. The outputs are disabled. When the signal is present, LED G lights up. When not used, shunt the GND.	
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	INPUTS	5• 6•	S.EDGE 2	Input for safety bands (input 6 - OSE signal - channel 2) > if using 8k2 security band, you must connect the respective terminals to the 5 and 6. > if using two bands you should connect them in parallel. > if using OSE you must connect the signal terminal to 6.	
	6 ° () 7 <sub>E</sub> ()		7• 8•	S.EDGE 1	Input for safety bands (input 8 - OSE signal - channel 1) > if using 8k2 security band you must connect the respective terminalsto the 7 and 8. > if using two bands you should connect them in parallel. > if using OSE you must connect the signal terminal to 8.	
	00112 8E	CH2	9• 10•	OUT 2	NC relay contact output (channel 2) > output actives when: - a safety band is pressed on channel 2; - the board is in error; - don't have sign of inhibition. NOTE • If you use this channel, NC output must be connected to the control board.	
	11 40 12 12 11 11 11 11 11 11 11 11 11 11 11	CH1	11 • 12 •	OUT 1	NC relay contact output (channel 1) > output actives when: - a safety band is pressed on channel 2; - the board is in error; - don't have sign of inhibition. NOTE • If you use this channel, NC output must be connected to the control board.	

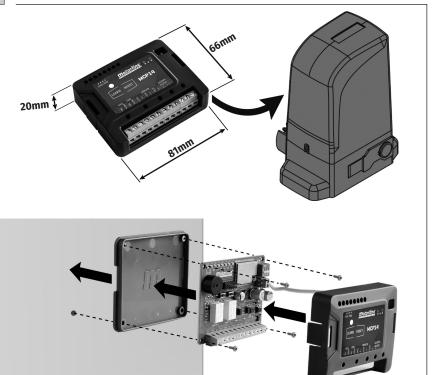




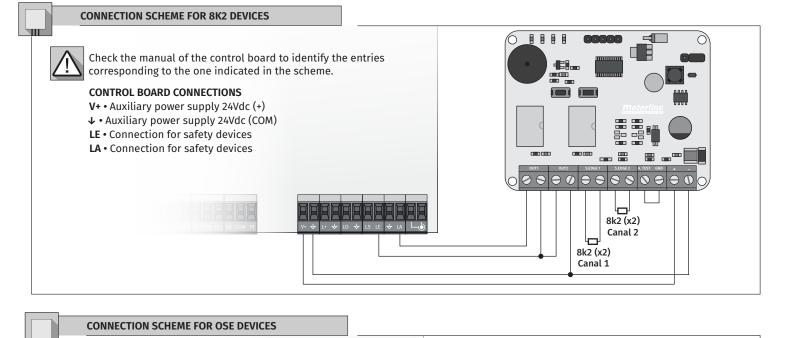
## PRODUCT INSTALLATION

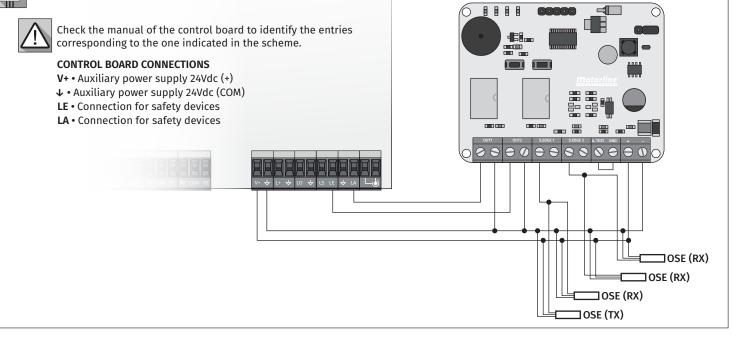
### **APPLICATION INSIDE THE MOTOR:**

> 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.





## PROGRAMMING

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Before programming, make sure that all connections between the safety/OSE bands and the control board are correct and that no safety device is being pressed, if they are wrong, the control board will not work correctly.

#### SAFETY BAND PROGRAMMING:

- 1 Press the LEARN button (L) with one click.
- 2 The buzzer will emit 1 beep, confirming the success of the operation.
- $\mathbf{3} \cdot \mathsf{LEDs} \textcircled{0}$  will light up according to the number of safety devices detected with the programming.
- The 1st and 2nd LEDs are related to channel 1, the 3rd and 4th to channel 2.

# PROGRAMMING OPTICAL SECURITY BAND (OSE):

- 1 Press the LEARN button (L) for 2 seconds.
- 2 The buzzer will emit 3 beeps, confirming the success of the operation.
- 3 LEDs (4) will light up according to the number of optical safety devices detected with the programming. The 1st LED is related to channel 1, the 3rd to channel 2.

**NOTE** • In case of a programming error, the LED flashes with a audible signal emitted by the buzzer. To make a new programming, press the RESET button to clear the programming error. The system will return to the normal state and will be able to make a new programmation.

After programming, if the number of connected devices is different from the number of detected devices, the MPC14 will go into error, with the LED flashing, with an audible signal emitted by the buzzer and the outputs are active. This situation can occur, for example, when one of the safety bands has a cut cable.