EN

PILOT Instructions

12/04/21

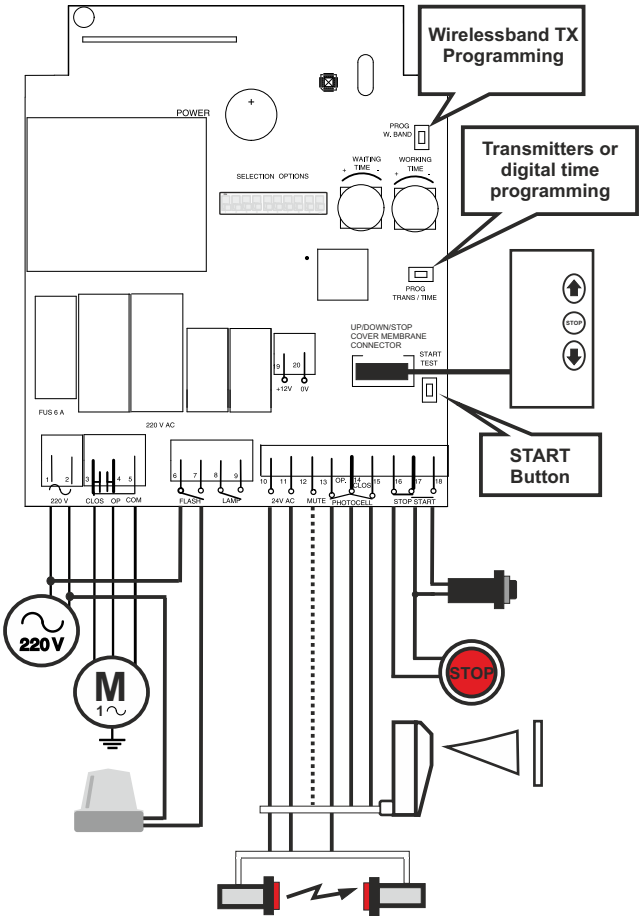
1. APPLICATIONS

Control Unit specially designed for roller shutters whose tubular motors have integrated mechanical limit switches. Both radio receiver for emitter operations and Wirelessband receiver for safety edges are built in. Maximum power of the motor: 1200 W.

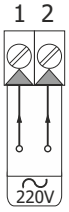
2. OPERATING INDICATIONS

Operations are carried out by Push buttons (UP/STOP/DOWN) or with emitters.
If an order is given during opening, the door will STOP. (OPEN/STOP/DOWN).
If an order is giving during closing, the door will invert. (STOP-OPEN).
On closing, the PHOTOCELL CLOSE activation will invert the manoeuvre.
WITH OPTION 3 OFF - On opening, the PHOTOCELL OPEN activation stop the manoeuvre.
WITH OPTION 3 ON – On opening, the PHOTOCELL OPEN activation stop and inverts the manoeuvre one second.
On closing, the PHOTOCELL OPEN activation will invert the manoeuvre.

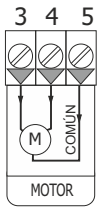
3. TERMINAL CONNECTIONS



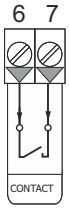
POWER SUPPLY



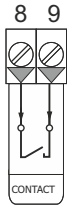
MONOPHASE MOTOR



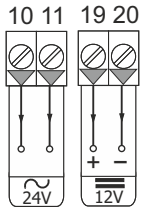
FLASH



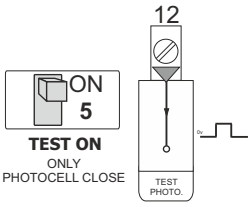
LAMP



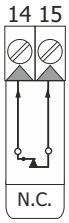
ACCESSORIES POWER SUPPLY



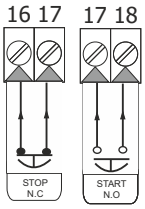
PHOTOCELL TEST (MUTE)



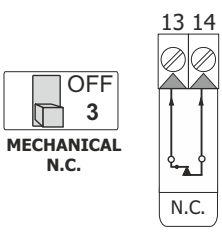
CLOSE SAFETY



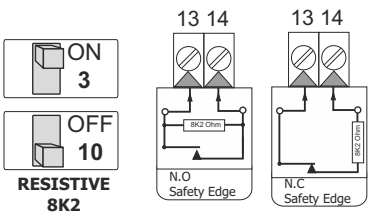
PUSH BUTTONS



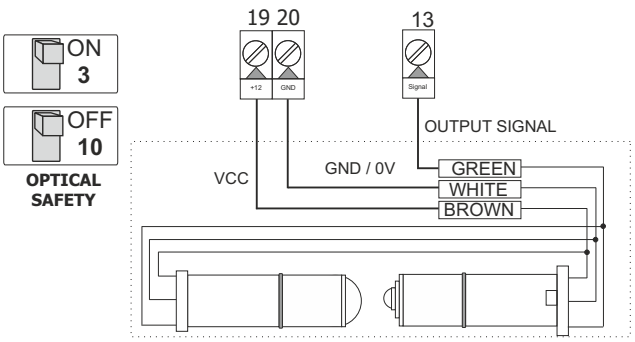
OPEN SAFETY



RESITIVE 8K2 SAFETY

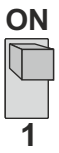


OPTICAL SAFETY



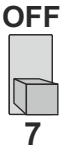
4. TIME REGULATIONS WITH POTENTIOMETERS

AUTOMATIC CLOSING TIME (GREEN)



Minimum - 5 sec
Maximum - 90 secs

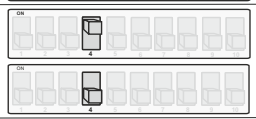
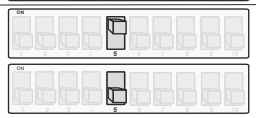
WORKING TIME (RED)

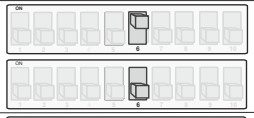
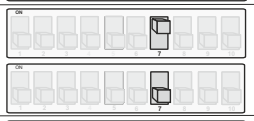


Alternative for digital programming

Minimum - 3 sec
Maximum - 60 secs

5. OPTION SELECTOR

1 AUTOMATIC CLOSING		Enabled. (see point 4) Disabled.
2 DISABLE STOP WHEN OPENING		Alternative start button and emitters are disabled when opening. Door stops when alternative start button or emitter is activated.
3 SAFETY INPUT PERFORMANCE (13-14)		8k2 safety edge Input, inverts the manoeuvre on closing. When opening it stops and inverts one second. Stop the manoeuvre on opening when connecting a Photocell.
4 DEAD MAN		Enabled. Disabled.
5 PHOTOCELL TEST		Enabled. Disabled.

6 RADIO PROGRAM.		Emitter radio pairing activated from control unit and from paired emitter (points 9.1/9.2) Emitter radio pairing only from control unit (point 9.1)
7 DIGITAL TIME PROGRAM.		Self-learnig programmation. (see point 8.) Analog programmation times with potentiometers.
8 CLASS 2 WB		Conforms normative UNE-EN 13849-2. Disabled. (by default)
9 WB TRANSMITTER FRECUENCY		869,85 Mhz. (same as transmitter) 868,95 Mhz. (same as transmitter)
10 WIRED SAFETY EDGE		Terminal 13 optical safety edge. Terminal 13 resistive or mechanical safety edge. (see option 3)

6. PHOTOCELL TEST

Checking status of PHOTOCELL OPEN & CLOSE before starting any operation.
E.g.: We could have a photocell with test in CLOSE input and no photocell connected in OPEN input (with wire bridge on terminals 13-14 because is a N.C. contact). The current scenario will be set as default.

TEST ON

When DIP Switch 5 actives the Photocell test function, if test is OK you'll hear one beep, if there's a fail you'll hear two beeps.
In case of failure you can only close the door in dead man.

WARNING!
Visual check on the photocell before working is highly recommended.

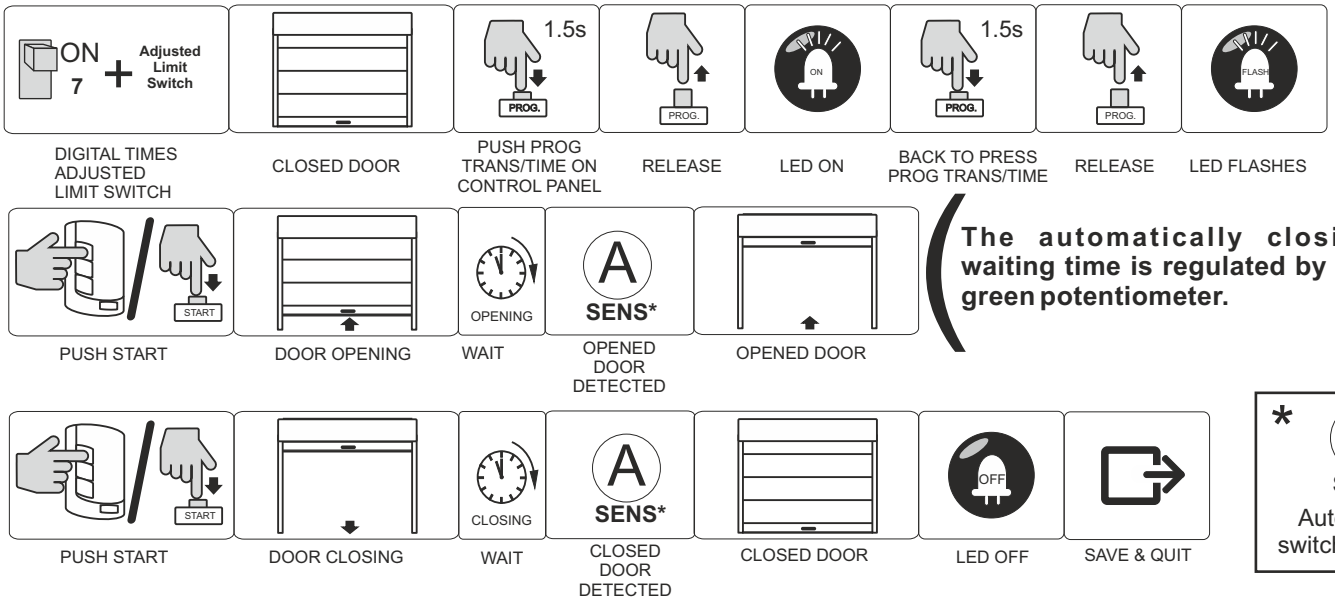
7. DEAD MAN

DEAD MAN
DISABLED

DEAD MAN
ON CLOSING

DEAD MAN
OPEN & CLOSE

8. MANEUVER SELF-LEARNING DIGITAL TIME PROGRAMMING (START button or Transmitter)



DIGITAL TIMES ADJUSTED LIMIT SWITCH | CLOSED DOOR | PUSH PROG TRANS/TIME ON CONTROL PANEL | RELEASE | LED ON | BACK TO PRESS PROG TRANS/TIME | RELEASE | LED FLASHES

PUSH START | DOOR OPENING | WAIT | OPENED DOOR DETECTED | OPENED DOOR

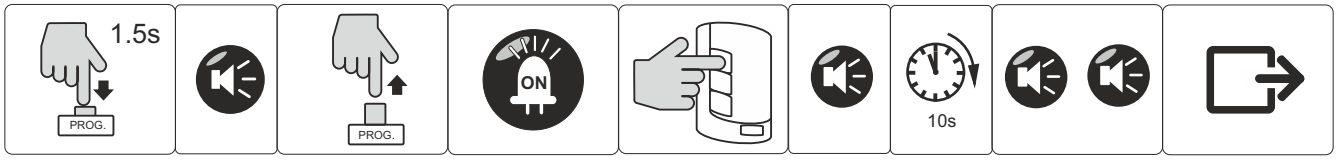
The automatically closing waiting time is regulated by the green potentiometer.

PUSH START | DOOR CLOSING | WAIT | CLOSED DOOR DETECTED | CLOSED DOOR | LED OFF | SAVE & QUIT

* A **SENS** Automatic limit switches detection

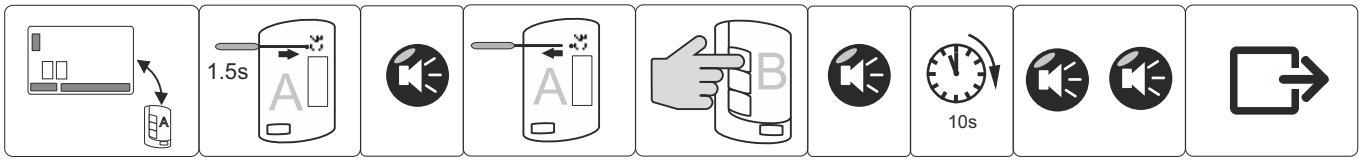
9. EMITTER PAIRING OPTIONS

9.1 EMITTER PAIRING FROM CONTROL UNIT



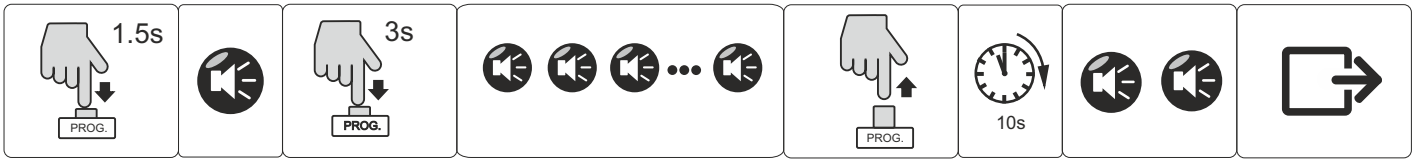
PUSH PROG. TRANS/TIME ON CONTROL PANEL | 1 X BEEP | RELEASE | LED ON | PUSH BUTTON | 1 X BEEP | WAIT | 2 X BEEPS | SAVE & EXIT

9.2 EMITTER PAIRING VIA RADIO



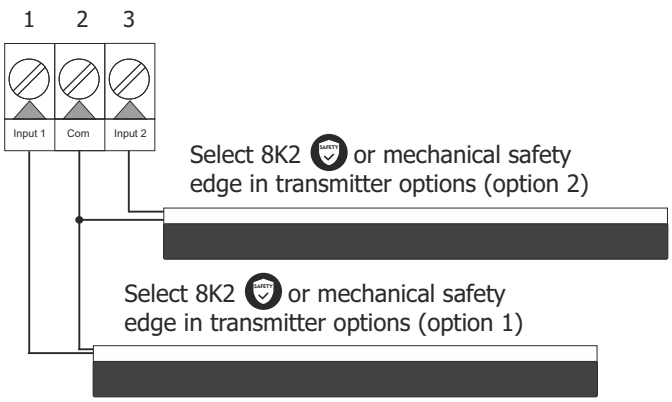
MUST HAVE A TRANSMITTER RECORDED IN A CONTOL UNIT | PUSH A SPECIAL FUNCTION | 1 X BEEP | RELEASE | PUSH BUTTON | 1 X BEEP | WAIT | 2 X BEEPS | SAVE & EXIT

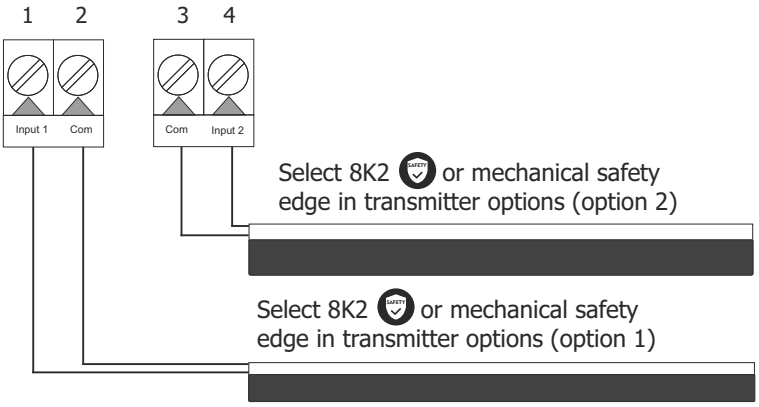
9.3 TIME AND EMITTER FULL MEMORY RESET



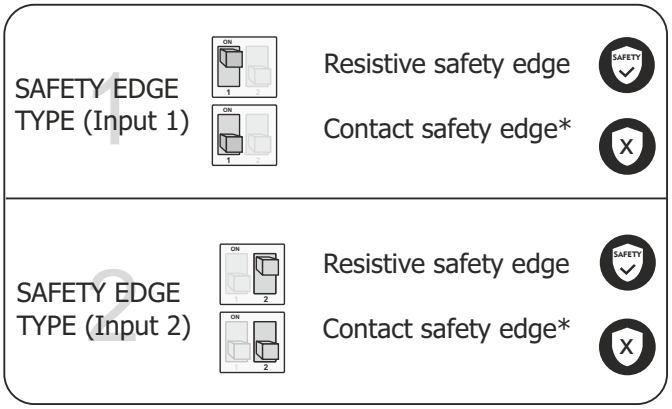
PRESS | 1 X BIP | KEEP IT PRESSED | # BEEPS | RELEASE | WAIT | 2 X BEEPS | SAVE & EXIT

10. WIRELESSBAND 2R TRANSMITTER



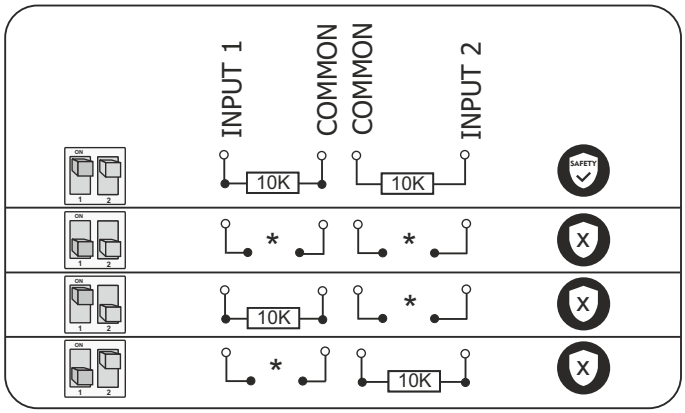


10.1 TRANSMITTER OPTIONS SELECTOR



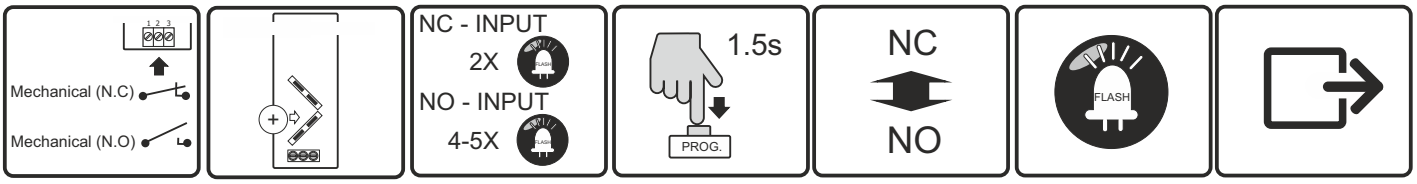
* To change from NO to NC, follow point 10.3

10.2 TRANSMITTER OPTIONS COMBINATION



* To change from NO to NC, follow point 10.3

10.3 SAFETY EDGE INPUT TYPE SELECTION N.C. or N.O. 3

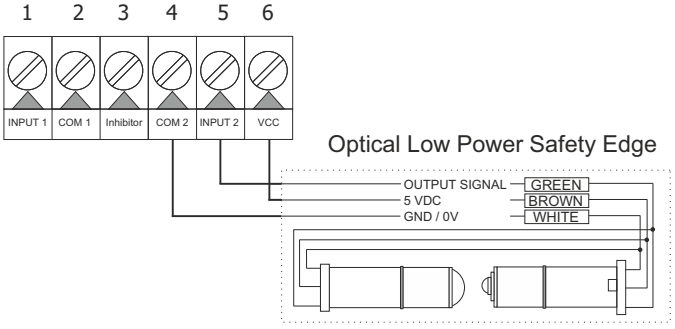


1. CONNECT SAFETY EDGE TO TRANSMITTER
2. INSERT BATTERY
3. STATUS INDICATION (DEFAULT NO)
4. PRESS TRANSMITTER FOR CHANGE STATUS
5. STATUS CHANGE
6. LED FLASH
7. SAVE & EXIT

You have 5 seconds after battery connection to make the change of safety edge status.
If you want to change again the status, please remove and connect batteries again.

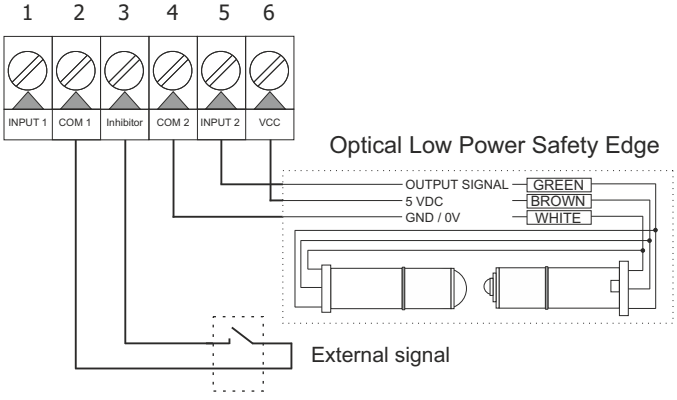
11. WIRELESSBAND 2 OSE TRANSMITTER

11.1 REGULAR FOR OSE CONNECTIONS



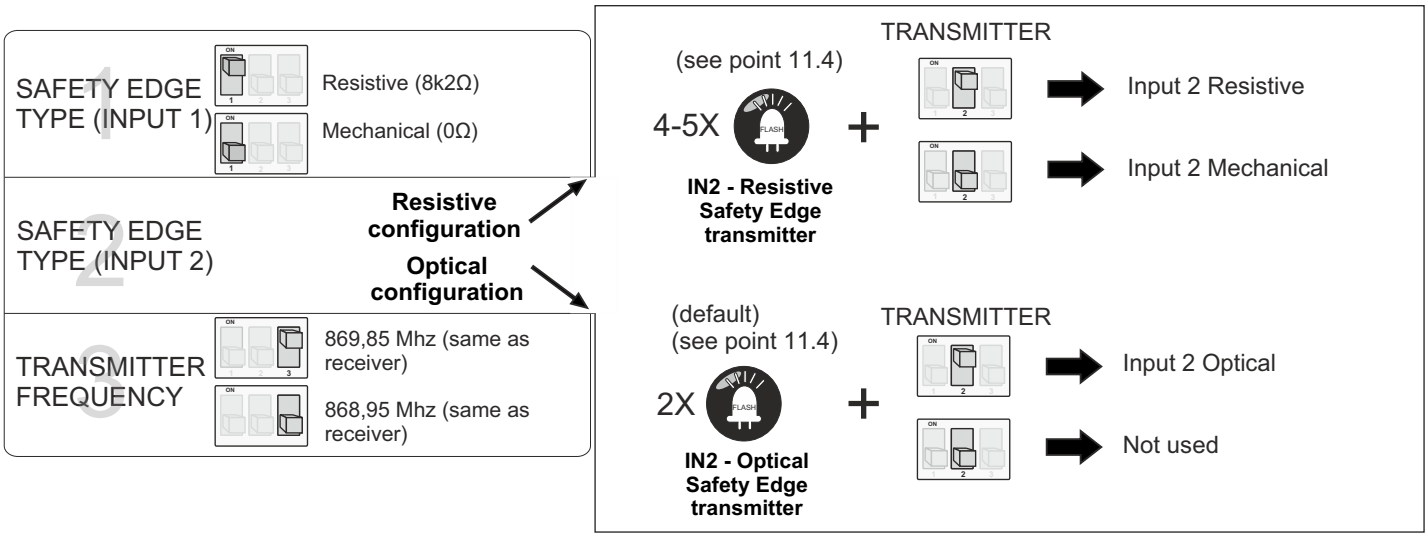
Configuration for Optical Safety Edge
(see point 11.4)
Sleeping mode active in receiver (ON)
2X +

11.2 OTHER CONNECTIONS

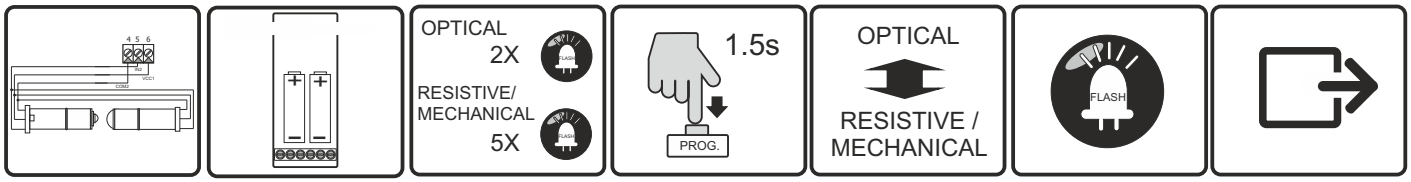


To avoid safety edge activation before end of closing.
E.g.: Uneven floor scenario.

11.3 OPTION SELECTOR



11.4 Input 2 LOW POWER OPTICAL SAFETY EDGE or RESISTIVE PROGRAMMING PROCESS

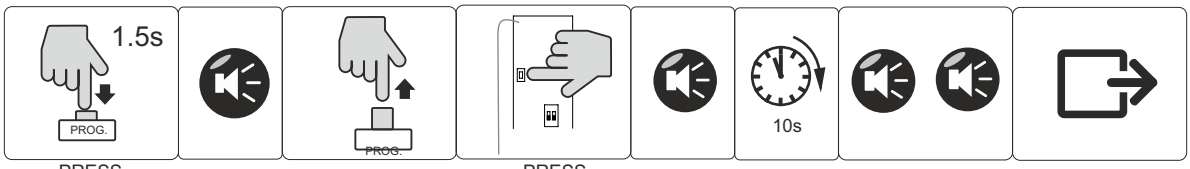


1. CONNECT OPTICAL EDGE TO TRANSMITTER
2. CONNECT BATTERIES
3. STATUS INDICATION
4. PRESS TRANSMITTER PROG. BUTTON FOR CHANGE STATUS
5. STATUS CHANGE
6. LED FLASH
7. SAVE & EXIT

Default optical configuration.
You have 5 seconds after battery connection to make the change of safety edge status.
If you want to change again the status, please remove and connect batteries again.

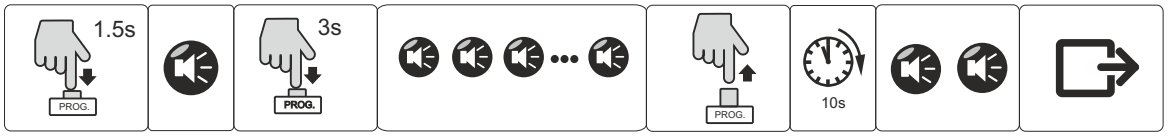
12. WIRELESSBAND TRANSMITTER PROGRAMMING PROCESS

TX WIRELESSBAND CODE MEMORITZATION



PRESS W.BAND ON CONTROL PANEL | 1 X BEEP | RELEASE RECEIVER | PRESS WIRELESSBAND TRANSMITTER | 1 X BEEP | WAIT | 2 X BEEPS | SAVE & QUIT

TX WIRELESSBAND MEMORY RESET



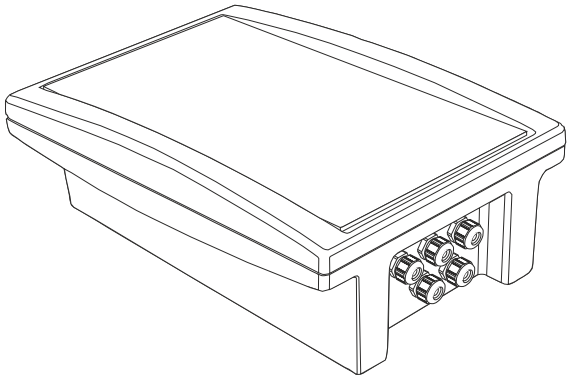
PRESS W.BAND ON CONTROL PANEL | 1 X BEEP | KEEP IT PRESSED | # BEEPS | RELEASE W. BAND ON CONTROL PANEL | WAIT | 2 X BEEPS | SAVE & QUIT

MEMORY FULL INDICATOR
Several beeps for 10 seconds when trying to memorize a new transmitter.
The system can store 7 transmitters per channel.

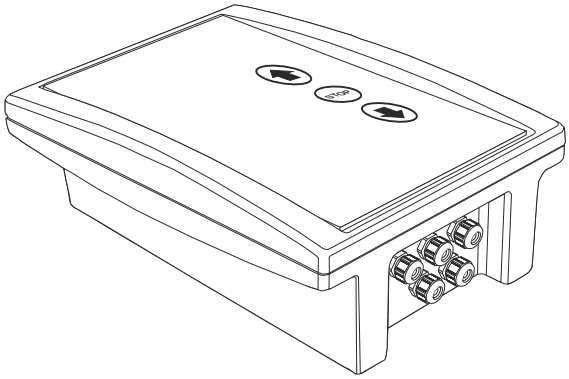
LOW BATTERY INDICATOR
4 beeps each time a message is received from a programmed transmitter. Both, warning LED and buzzer are activated simultaneously.

13. HOUSING OPTIONS

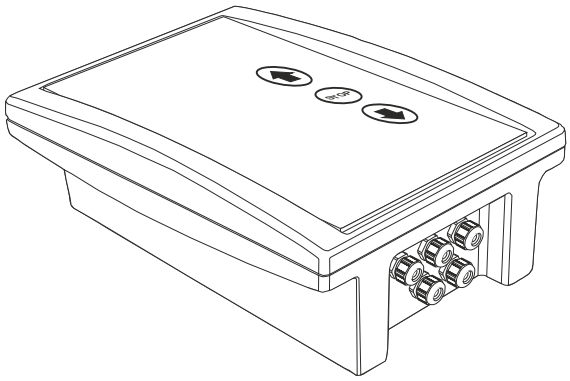
- PILOT: Plastic box.

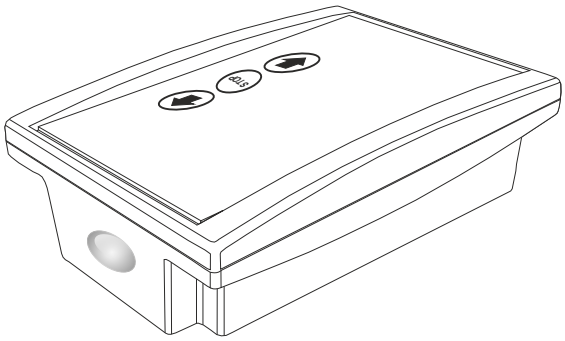


- PILOT-K: Plastic box and push buttons (frontal membrane).



- PILOT-K L: Plastic box and push buttons (frontal membrane) and courtesy light.





TECHNICAL SPECIFICATIONS	
Power	220V AC +/- 10%
Max Drive Power	1.2 KW
Power Suply for accessories	12V DC / 24V AC
Flashing light output and garage	Relay contact
Max. Garage light time	2 min.
Working Time	From 1 sec to 60 sec
Automatic closing time	From 5 sec to 90 sec
Max. nº of emitters	23 codes
Nº of WirerlessBand transmitters	14 WB 1.0 / 7 WB 1.3 / 7 WB 2.F
Frecuency	433MHz/868MHz
Sensitivity	Better than -105dBm
Distance	100m
Temperature	-20 to 85º

CE DECLARATION OF CONFORMITY
For more information visit the website www.aerf.eu

WARNING!!

- Equipment installation and start-up, can only be executed by qualified personal.

AERF® developers & manufacturers

CE