GB

Instruction Manual

(WIRELESSBAND 2.F)

06/02/15

RoHS

TÜV Certificate nºM6A 14 12 90800 001

Translation of the original instructions

1. GENERAL

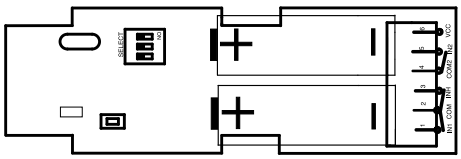
- Two channels wireless system communication, for the optical safety edge communication. For example, the pedestrian door contact to control unit. The system has a long battery life (more than 4 years) working with a resistive or mechanical safety edge.

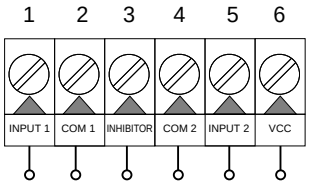
1.1 SAFETY INSTRUCTIONS

- Reaction time < 60ms (according TÜV test report AV86368T Certificate nº M6A 14 12 90800 001)
- A Relay test must be done before any operation to fulfill EN13849-1 Cat2 PL-C.
- Device with SELV/PELV Power Supply

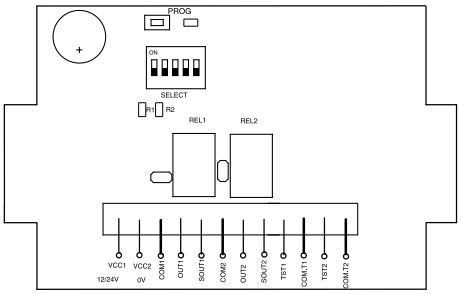
2. TRANSMITTER AND RECEIVER TERMINAL CONNECTIONS

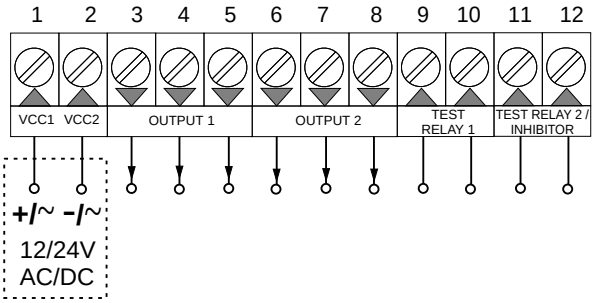
TRANSMITTER





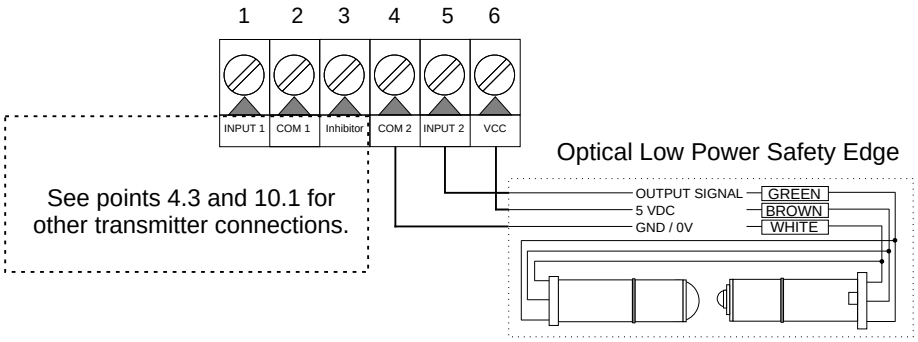
RECEIVER





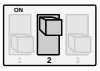
3. TYPICAL CONFIGURATION FOR Optical Low Power Safety Edge (TRANSMITTER)

TRANSMITTER



Receiver options configuration for Optical Safety Edge

Inhibition active in receiver (ON)



Optical sensor power supply from receiver (ON)

Optical sensor power supply from receiver (OFF)

4. CONFIGURATION TYPES FOR Optical Low Power Safety Edge INHIBITION

WARNING!!

If used an Optical Safety Edge, we recommend that use the inhibitor for extend the batteries life. Otherwise, the estimated life is about 6 months.

Desired Transmitter and receiver options must be set before the transmitter code memorization, otherwise system will not work correctly. If there is some doubt about configuration is recomended to do a memory reset.

Examples:

- If you want to use transmitter inhibitor TX OPTION 2 and RX OPTION 5 must be OFF before the transmitter code memorization.
- If you want to use receiver inhibitor TX OPTION 2 and RX OPTION 5 must be ON before the transmitter code memorization.

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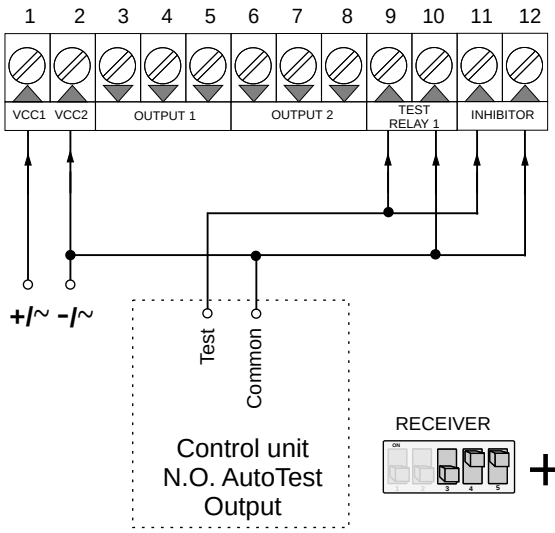
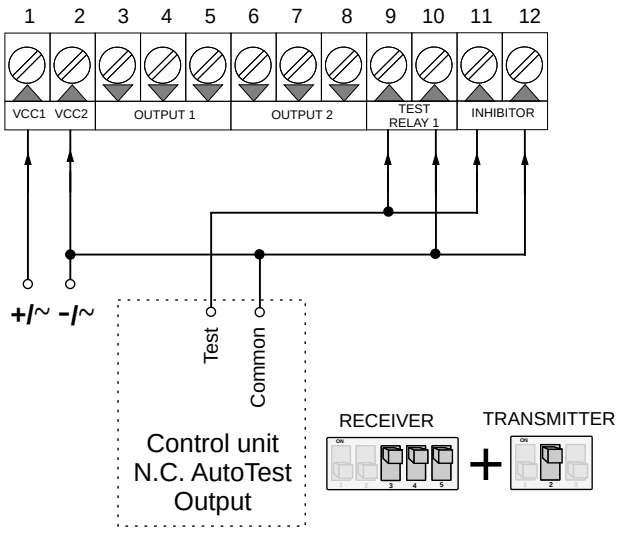
4.1 INHIBITION FROM RECEIVER: CONTROL UNIT WITH AUTOTEST N.O. or N.C. OUTPUT

AUTOTEST N.O.



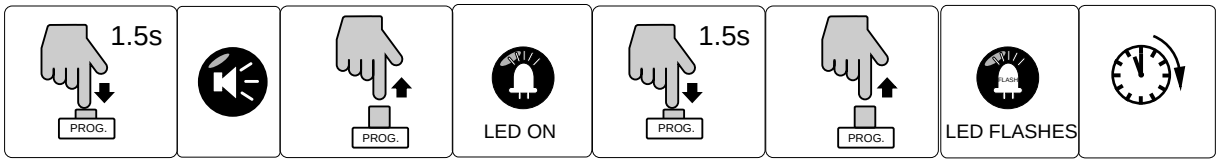
For the system will work correctly, must have a test signal before each maneuver.

AUTOTEST N.C.



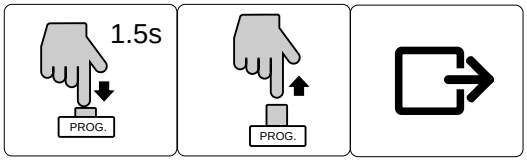
Note: For the control panel TEST output, must program the optical safety edge power supply time (equal or more than door maneuvre time)(follow point 4.1.1).

4.1.1 OSE POWER SUPPLY TIME PROGRAMMING PROCESS (only with OPTION 4 & 5 - ON)



PRESS RECEIVER | 1 X BEEP | RELEASE RECEIVER | TRANSMITTERS PROG. MODE | PRESS RECEIVER | RELEASE RECEIVER | PROG. MODE POWER SUPPLY TIME | RECORD TIME*

* Record the optical safety edge power supply time. (Equal or more than door operation time).

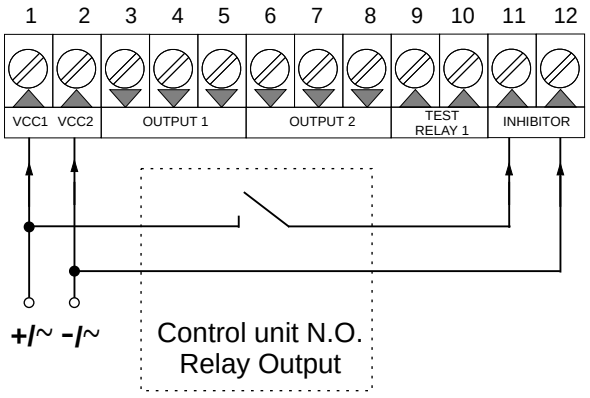


PRESS RECEIVER | RELEASE RECEIVER | SAVE & QUIT

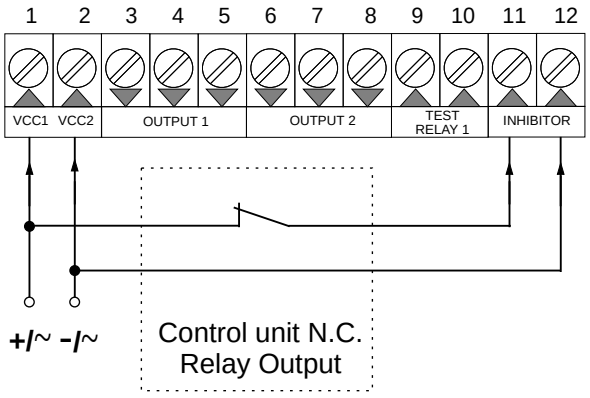
Note: Default recorded time is 30 sec.

4.2 OPTICAL SAFETY EDGE INHIBITION FROM RECEIVER (USE POSITIONING CONTACT N.O. or N.C.)

CONTACT N.O.



CONTACT N.C.



For the system will work correctly, the relay signal must be active during the maneuvre.

N.C.: Normally Closed
N.O.: Normally Open

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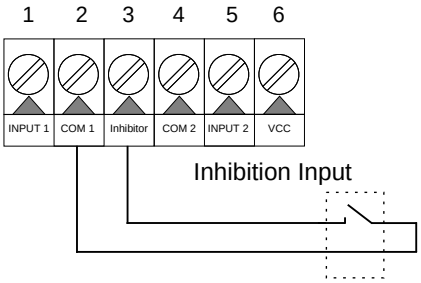
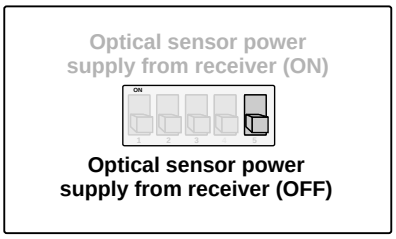
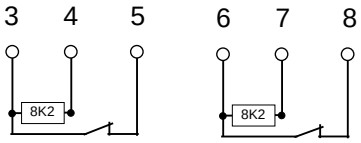
4.3 OPTICAL SAFETY EDGE INHIBITION FROM TRANSMITTER

Inhibitor disabled in receiver and enabled in transmitter

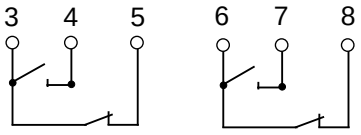




5. RECEIVER OUTPUTS CONNECTIONS



WITH BRIDGE SELECTOR



WITHOUT BRIDGE SELECTOR

***With power supply connected and without safety failure.**

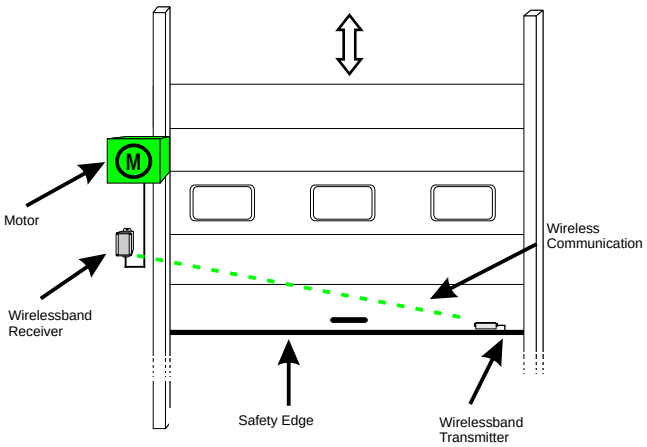
6. RECEIVER LED INDICATOR

LED ON - Security OK

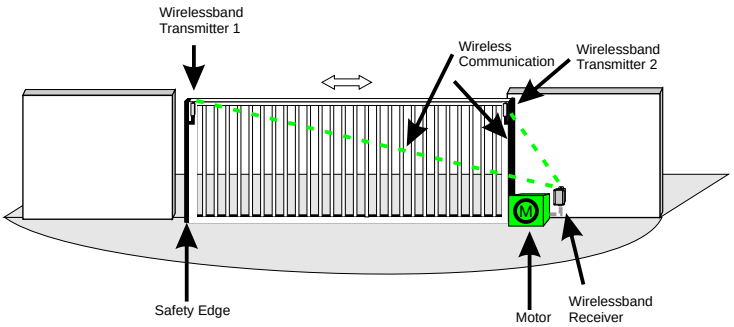
LED OFF - Obstacle detected

7. MOUNTING

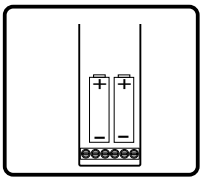
INDUSTRIAL SECTIONAL DOOR



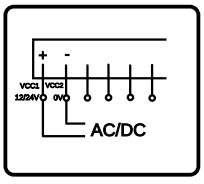
SLIDING DOOR



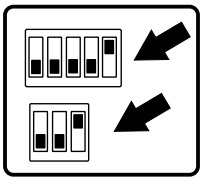
9. START-UP



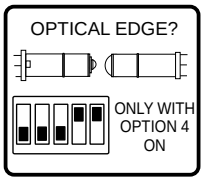
1. INSERT BATTERIES



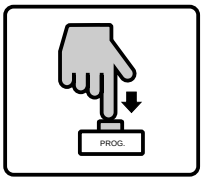
2. CONNECT RECEIVER



3. CHECK SWITCH SETTINGS

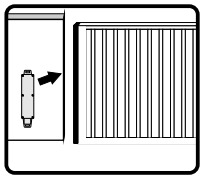


4. SAFETY EDGE TYPE CONFIGURATION (SEE POINT 10.2)

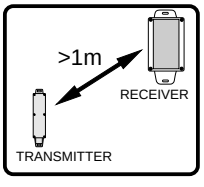


5. CARRY OUT PROGRAMMING PROCESS (SEE POINT 9.2)

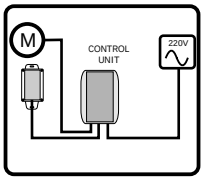
***BY DEFAULT IN KIT, THE TRANSMITTER IS RECORDED INTO RECEIVER.**



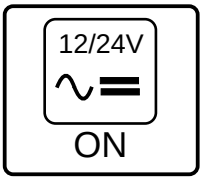
6. INSTALL AND WIRE TRANSMITTER ON DOOR



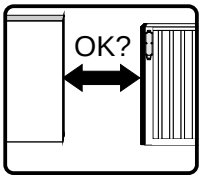
7. MINIMUM DISTANCE 1 m.



8. INSTALL & WIRE RECEIVER



9. TURN ON POWER SUPPLY



10. TEST SAFETY EDGE ON DOOR.

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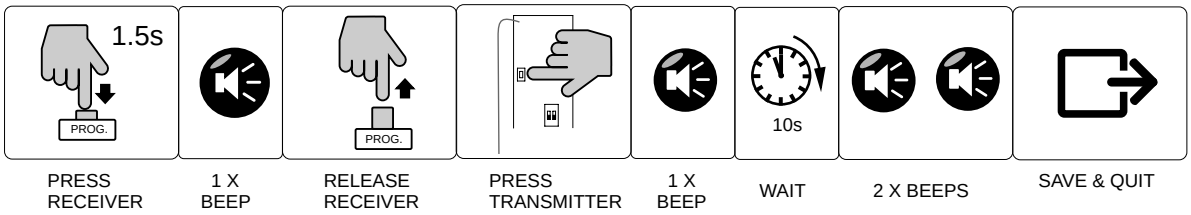
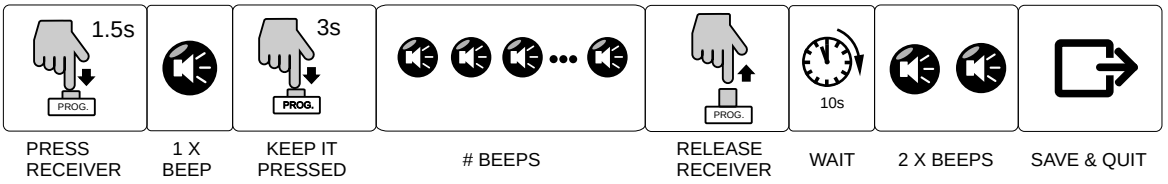
9. PROGRAMMING PROCESS

TRANSMITTER MANUAL PROGRAMMING (up to 7 transmitters per receiver)



MEMORY RESET



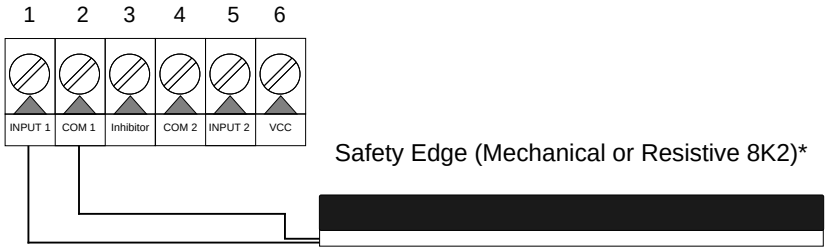
MEMORY FULL INDICATOR
In case of full memory you will hear several acoustic signals for 10 seconds upon trying to memorize a new transmitter.
The system can store 7 transmitters per channel.

LOW BATTERY INDICATOR
Low battery indication consists on 4 acoustic sounds each time a message is received from a programmed transmitter. Both, warning LED and buzzer are set on simultaneously.

10. OTHER CONFIGURATIONS

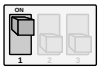
10.1 TRANSMITTER

Input 1 Safety Edge (Mechanical or Resistive 8K2)



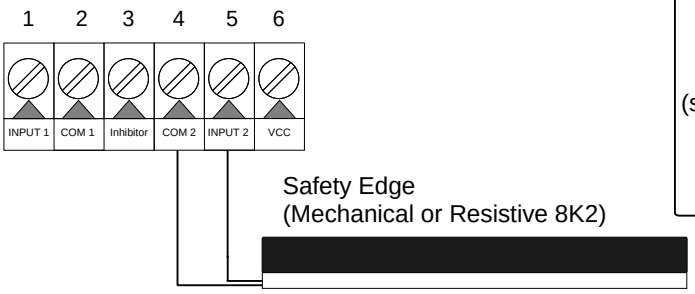
***Choose the Safety Edge type with transmitter option 1**

Resistive



Mechanical

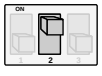
Input 2 Mechanical or Resistive (8K2) Safety Edge



Transmitter and receiver options configuration for Mechanical or Resistive Safety Edge

(see point 10.2) +

Resistive (ON)



Mechanical (OFF)

+

Optical sensor power supply from receiver (ON)

Optical sensor power supply from receiver (OFF)

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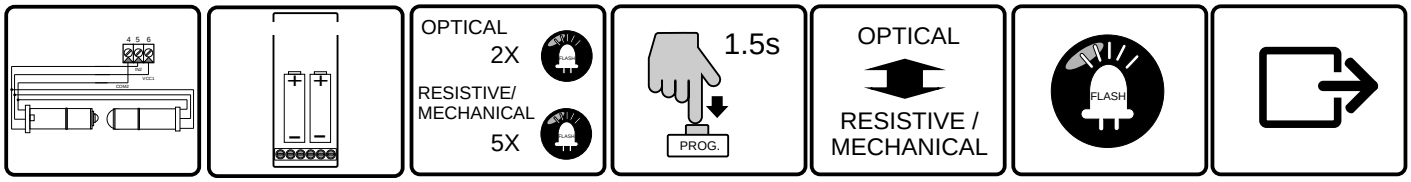
10.2 Input 2 LOW POWER OPTICAL SAFETY EDGE or RESISTIVE PROGRAMMING PROCESS



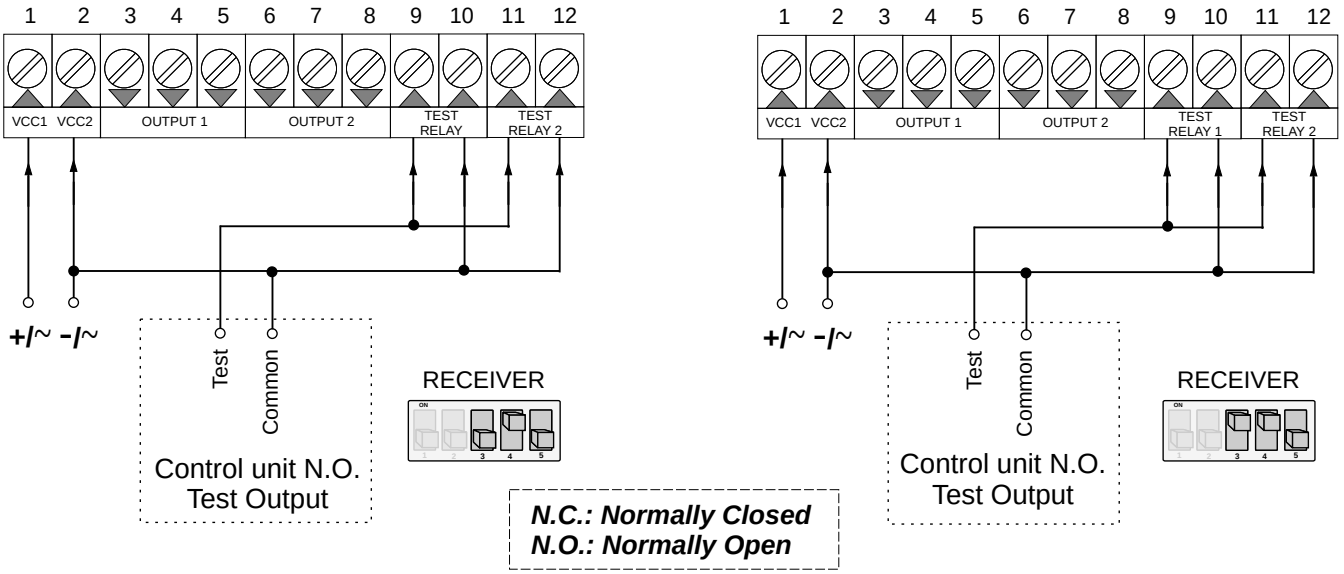
1. CONNECT OPTICAL EDGE TO TRANSMITTER
2. CONNECT BATTERIES
3. STATUS INDICATION
4. PRESS TRANSMITTER PROG. BUTTON FOR CHANGE STATUS
5. STATUS CHANGE
6. LED FLASH
7. SAVE & EXIT

NOTE: Default optical configuration.
You have 5 seconds after launch to make the change of safety edge status.

6. OTHER CONFIGURATIONS (Receiver)

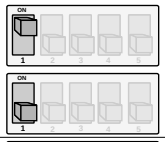
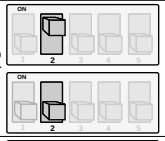
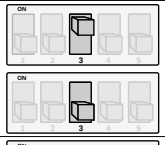
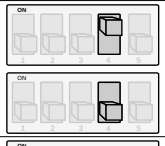
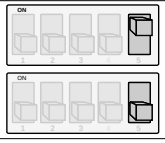
Note: Configurations for Mechanical or Resistive Safety Edge

CONFIGURATION WITH CONTROL UNIT TEST N.O. or N.C. OUTPUT



N.C.: Normally Closed
N.O.: Normally Open

11. RECEIVER OPTION SELECTOR

1 CLASS 2		Enabled (Conforms UNE-EN 13849-2) Disabled (Stock configuration)
2 TRANSMITTER FREQUENCY*		869,85 MHz 868,95 Mhz
3 RELAY TEST/ INHIBITOR TYPE		Normally Closed Contact Normally Open Contact
4 INHIBITION TYPE		Inhibition by autotest contact.** Inhibition by positioning contact.
5 INHIBITION BY		Receiver. Transmitter.

ATTENTION:

***Receiver configuration MUST be the same that transmitter configuration.**

****With Option 4 ON, you must program the Optical Safety Edge power supply time (equal or more than the door operating time), following point 4.1.1.**

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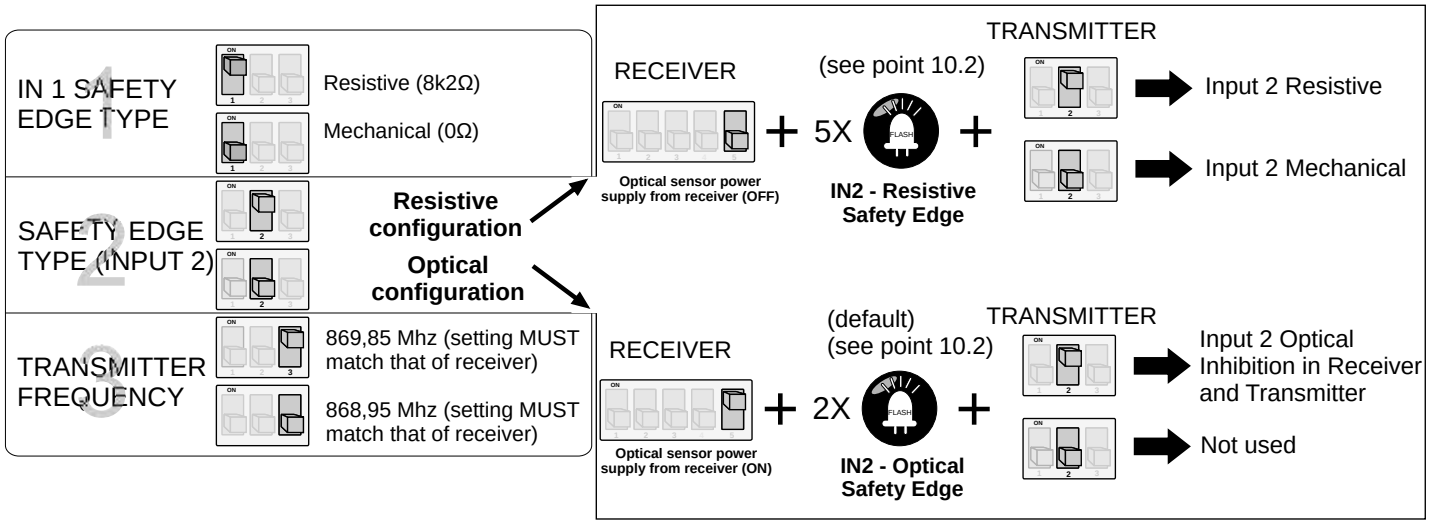
12. TRANSMITTER OPTIONS SELECTOR



TECHNICAL SPECIFICATIONS	
Receiver supply voltage	12/24 AC/DC
Transmitter supply voltage	2x AA lithium battery 3.6V
Transmitter inputs	Selectable by dip-switch and prog. 1 Resistive / contact /optical 1 Resistive / contact
Transmitter Inhibition input type	Power free contact
Receiver memory	7 transmitters per channel
Receiver Output	2 Relay, micro disconnection 1B or power free contact
Receiver test inputs	2
Type	- 12/24V AC/DC , contact, open collect.
Receiver Power consumption	0.5 W - 12 V / 1,2 W - 24 V
Ball pressure test (IEC 695-10-2)	PCB (125ºC) WRAP (75ºC)
Pollution degree	2
Protection class (IEC 60529)	Ip55
Frequency Channels	868.95MHz & 869.85MHz
Range	100m
Working temperature	-20ºC to +55ºC
Software	Class A
Rated transient over voltage	330V
Transmitter power consumption	Transmitting 17mA / stand by 16uA
Maximum screw force	0,4 Ncm
Machine Security Normative	13849-2008 PL-C Category 2, with TEST
Reaction time	60 ms (according TÜV test report AV86368T Certificate nº M6A 14 12 90800 001)

CE DECLARATION OF CONFORMITY
Aplicaciones electrónicas y de Radiofrecuencia S.L Pol. Sot dels Pradals C/ Sot dels pradals, 4 08500 Vic (Barcelona) B61840732 DECLARES, under her own responsibility that product complies with the requirements of the R&TTE 99/05/CE European parliament directive of March 9th 1999. This directive was transposed to the Spanish legislation by means of Real Decree 1890/2000 in November 20th of 2000. **For more information visit the website www.aerf.eu**

WARNING!!

- Installation, start-up, modification and retrofitting of the system may only be carried out by a qualified person.
- Switch off the operating voltage before working on the system.
- The system doesn't have fuse protection. Is recommended include exterior protection minimum 100mA and maximum 250mA.

AERF® developers & manufacturers