

## 1. GENERAL

Radio transmission system for resistive safety edges.

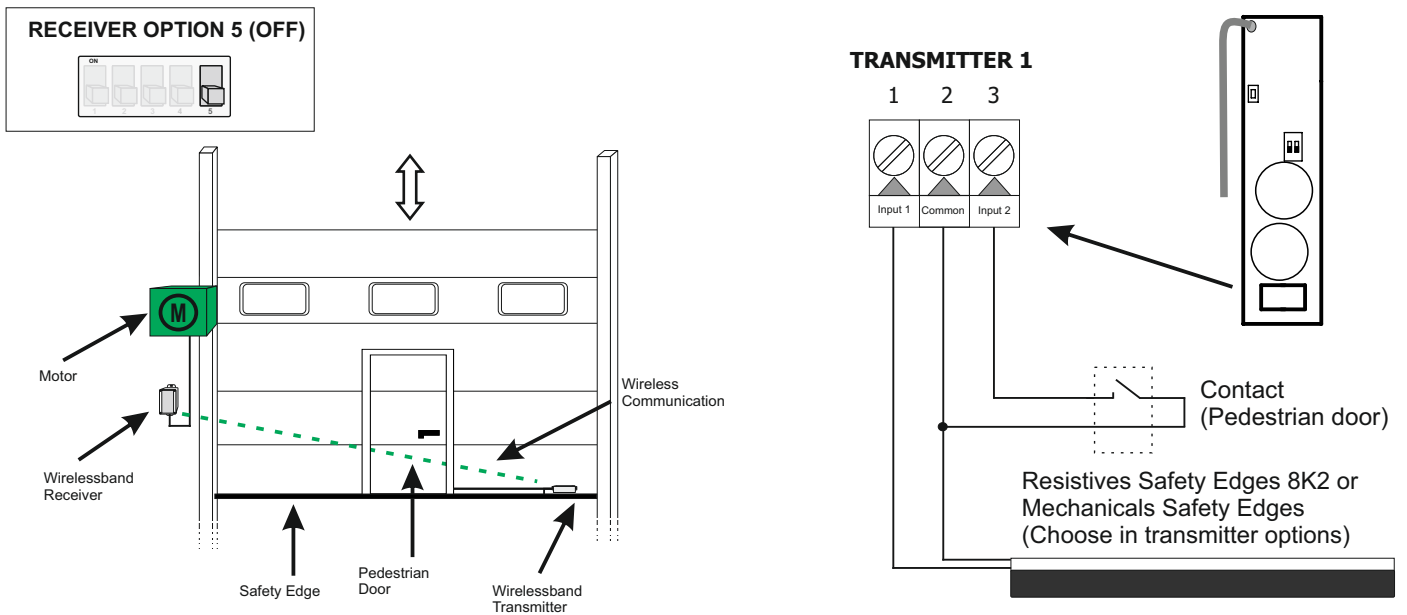
The system consists of a transmitter unit and a receiver unit for safety edge (resistive / mechanical) communication to control unit.

### 1.1 SAFETY INSTRUCTIONS

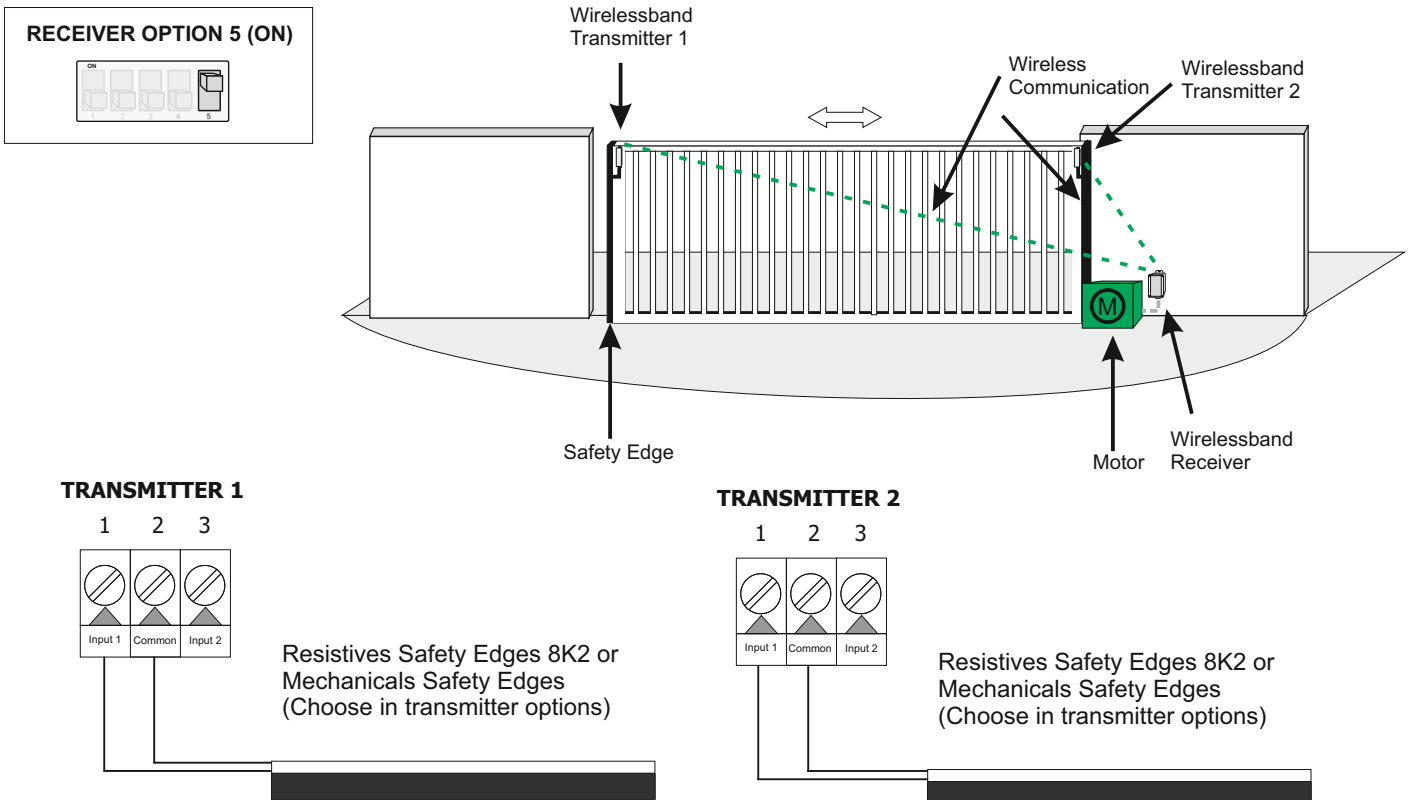
- Reaction time < 60ms (according TÜV test report AV86368T Certificate n° M6A 14 12 90800 001)
- EN13849-1 Cat2 PL-C with TEST.
- Device with SELV/PELV Power Supply

## 2. TRANSMITTER TYPICAL CONFIGURATIONS

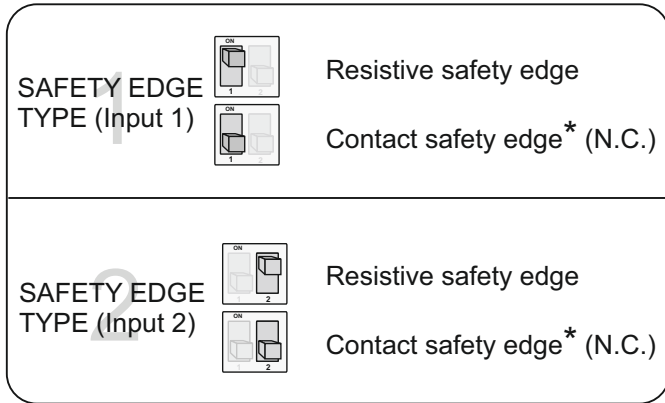
### 2.1 INDUSTRIAL SECTIONAL DOOR (1 TRANSMITTER 2 CHANNELS)



### 2.2 SLIDING DOOR (TRANSMITTER 1 CHANNEL 1, TRANSMITTER 2 CHANNEL 2)

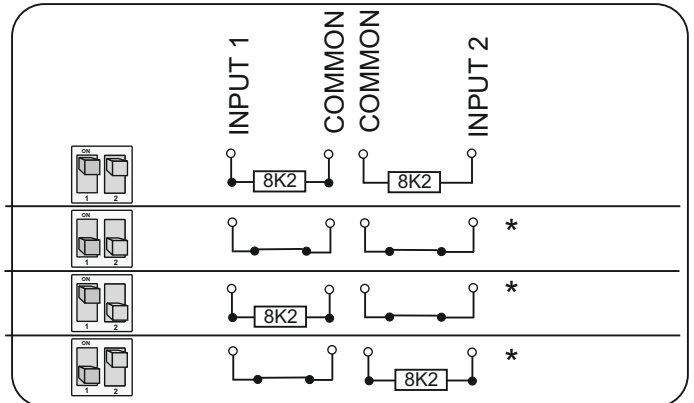


2.3 TRANSMITTER OPTIONS SELECTOR



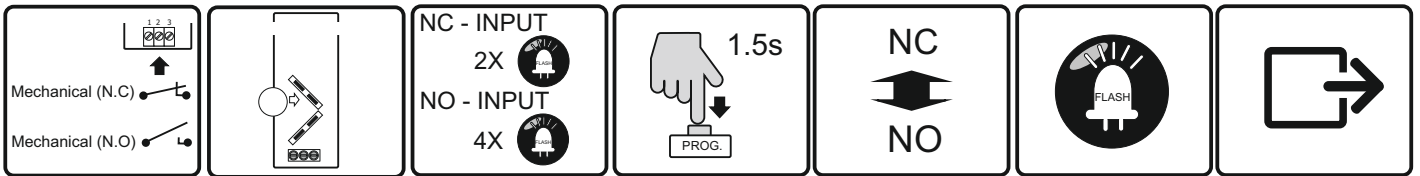
\* To change contact from NC to NO, follow point 2.5

2.4 TRANSMITTER OPTIONS COMBINATION



\* To change contact from NC to NO, follow point 2.5

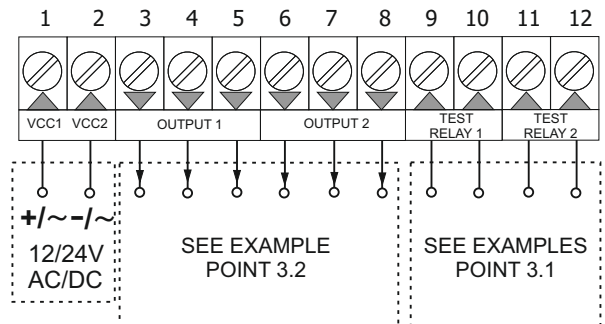
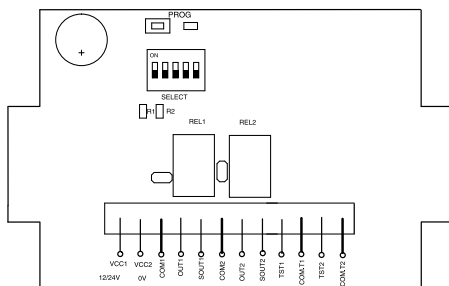
2.5 SAFETY EDGE INPUT TYPE SELECTION N.C. or N.O.



- CONNECT SAFETY EDGE TO TRANSMITTER
- INSERT BATTERY
- STATUS INDICATION (DEFAULT NC)
- PRESS TRANSMITTER FOR CHANGE STATUS
- STATUS CHANGE
- LED FLASH
- SAVE & EXIT

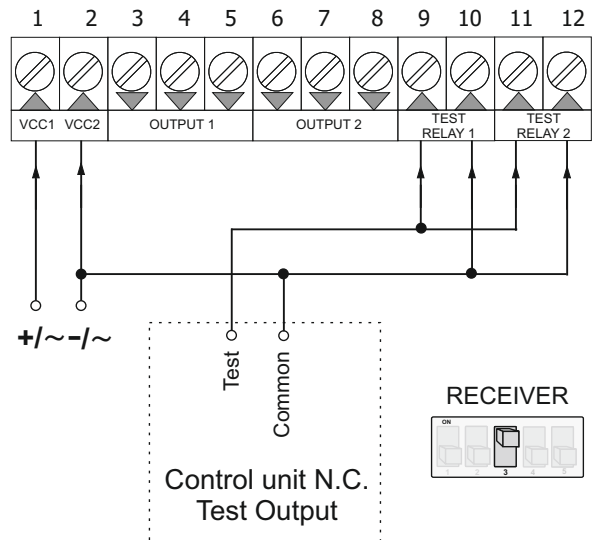
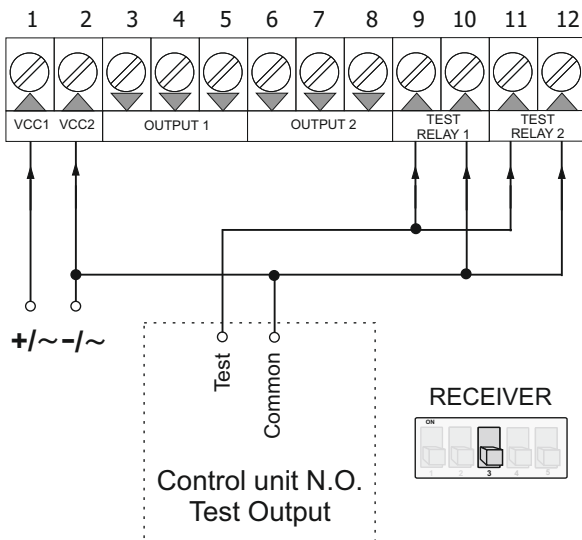
NOTE: You have 5 seconds after launch to make the change of safety edge INPUT TYPE

3. RECEIVER

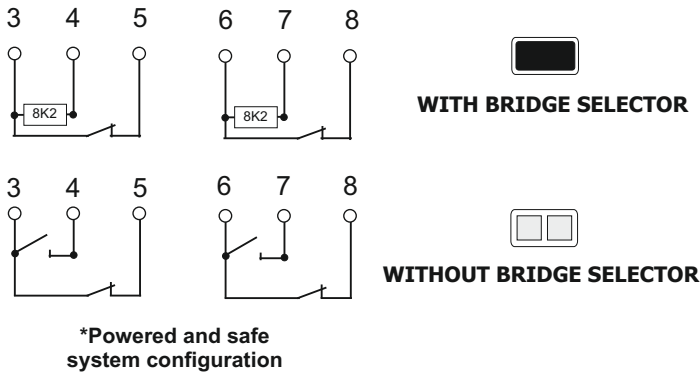


3.1 RECEIVER CONNECTION EXAMPLES (TEST RELAY)

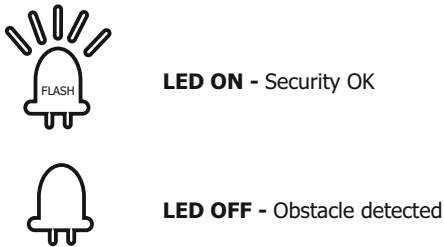
CONTROL UNIT WITH TEST N.O. or N.C. OUTPUT



**3.2 RECEIVER OUTPUT CONNECTIONS**



**3.3 RECEIVER LED INDICATOR**

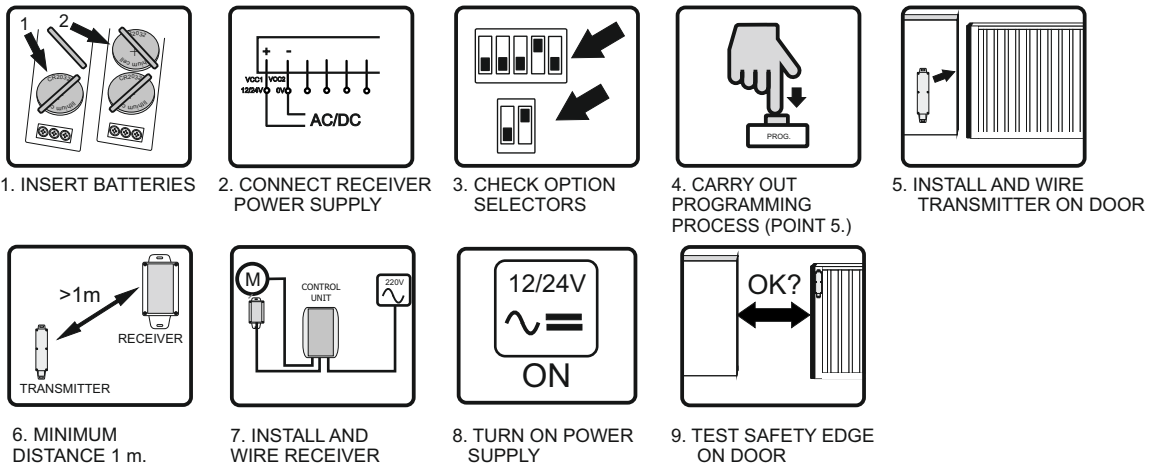


**3.4 RECEIVER OPTIONS SELECTOR**

CLASS 2		Enabled (Conforms UNE-EN 13849-2)
		Disabled (Stock configuration)*
TRANSMITTER FREQUENCY		869,85 MHz
		868,95 Mhz*
RELAY TEST TYPE		Normally Close contact
		Normally Open contact*
AUTOMATIC FREQUENCY AGILITY		Enable
		Disable*
TRANSMITTER TYPE		1 CHANNEL
		2 CHANNEL*

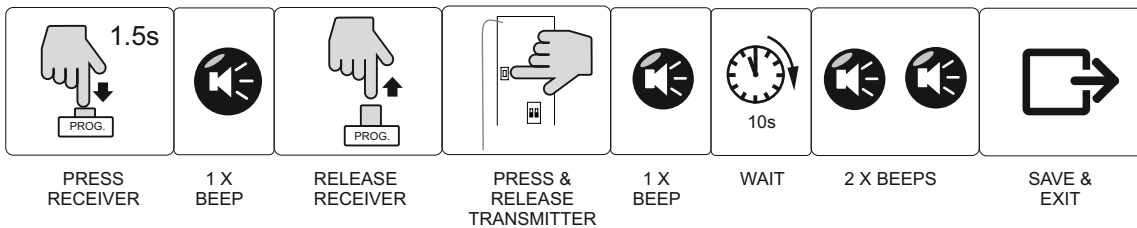
**\* Default options**

**4. START-UP**

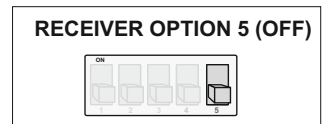


**5. PROGRAMMING PROCESS**

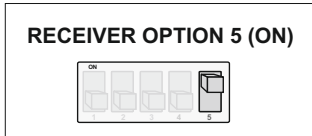
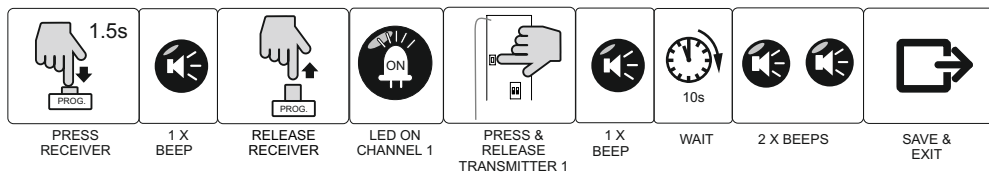
**CODE MEMORIZATION 1 TRANSMITTER FOR 2 CHANNELS (DIP-SWITCH 5 - OFF)**



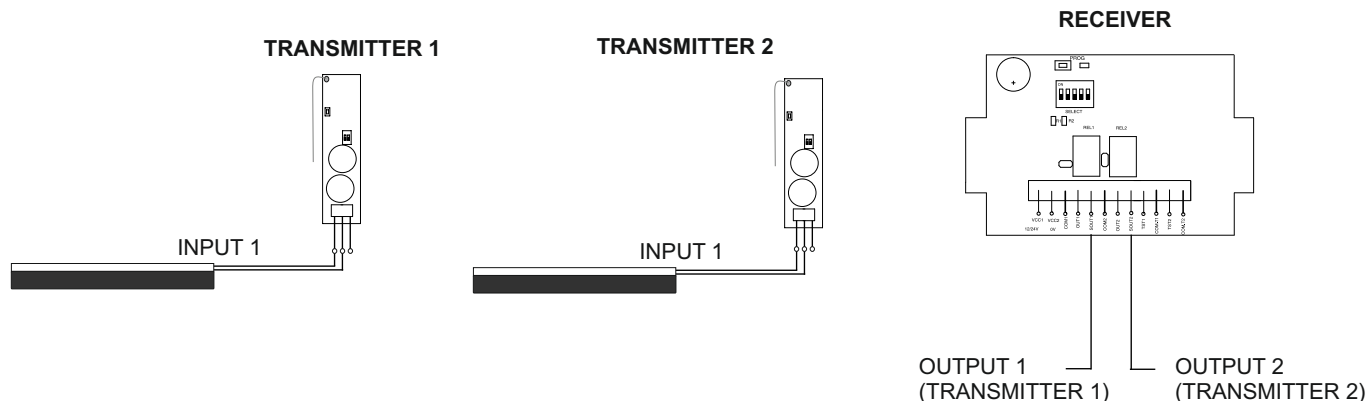
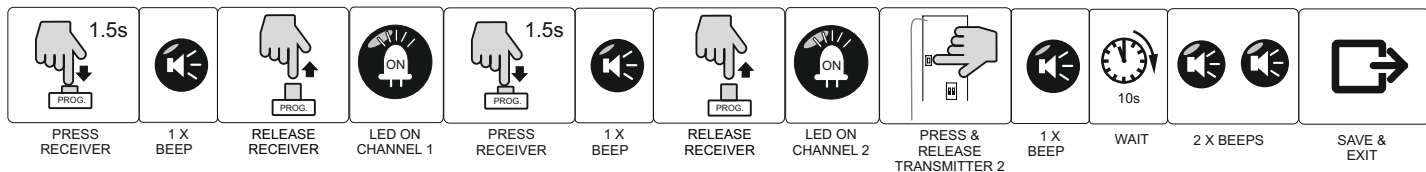
**NOTE:** In Kits, the receiver already has recorded the transmitter.



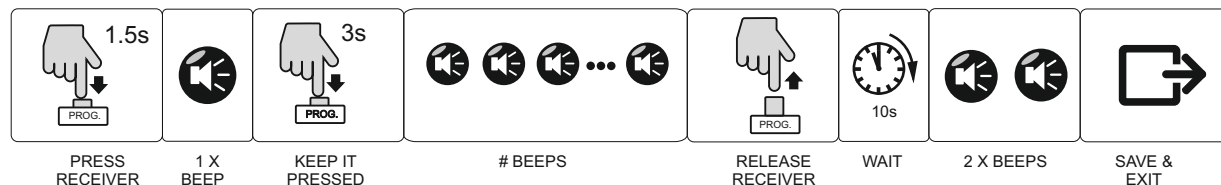
**CODE MEMORIZATION TRANSMITTER 1 FOR CHANNEL 1 (DIP-SWITCH 5 - ON)**



**CODE MEMORIZATION TRANSMITTER 2 FOR CHANNEL 2 (DIP-SWITCH 5 - ON)**



**5.1 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.

**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.

You should be insert first the battery 1 and later the battery 2. When replacing the batteries, you should not return to memorize the transmitters.

**TECHNICAL SPECIFICATIONS**

Receiver supply voltage	12/24 AC/DC
Transmitter supply voltage	2x lithium battery 3V DC type CR2032
Receiver memory	7 transmitters for each channel
Receiver Output	2 - Relay, micro disconnection 1B or power free contact
Receiver Power consumption	0.5 W - 12 V / 1,2 W - 24 V
Ball pressure test (IEC 695-10-2)	PCB (125°C) WRAP (75°C)
Pollution degree	2
Protection class (IEC 60529)	Ip55
Frequency Channels	868.95MHz & 869.85MHz
Range	100m
Working temperature	-35°C to +55°C
Software	Class A
Rated transient over voltage	330V
Transmitter power consumption	Transmitting 17mA / stand by 16uA
Machine Security Normative	13849-2:2008 PL-C Categ. 2, with TEST
Battery life	2 years
Reaction time	60 ms (according TÜV test report AV86368T Certificate n° M6A 14 12 90800 001)

**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.

**CE DECLARATION OF CONFORMITY**

DEA SYSTEM S.p.A. Via Della Tecnica, 6 - 36013 PIOVENE ROCCHETTE (VI) - ITALY  
 DECLARES, under her own responsibility, that this equipment complies with the requirements of the R&TTE 99/05/CE European parliament directive of March 9th 1999.  
 For more information visit the website [www.deasystem.com](http://www.deasystem.com)