

CE



Radio receiver



SMXI SMIF SMXIS

Installation instructions

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Description of the product

SMXI, SMXIS and SMXIF are 4-channel radio receivers for control units equipped with SM-type connector.

The peculiarity of compatible transmitters is that the identification code is different for each transmitter. Therefore, in order to allow the receiver to recognise a determined transmitter, the recognition code must be memorised. This operation must be repeated for each transmitter required to communicate with the control unit.



Up to a maximum of 256 transmitters can be memorised in the receiver. No one transmitter can be cancelled; all the codes must be deleted.

- For more advanced functions use the appropriate programming unit.

The receiver features 4 outputs, all available on the underlying connector. To find out which function is performed by each output, see the control unit's instructions.

During the transmitter code memorisation phase, one of these options may be chosen:

Mode I. Each transmitter button activates the corresponding output in the receiver, that is, button 1 activates output 1, button 2 activates output 2, and so on. In this case there is a single memorisation phase for each transmitter; during this phase, it doesn't matter which button is pressed and just one memory sector is occupied.

Mode II. Each transmitter button can be associated with a particular output in the receiver, e.g., button 1 activates output 2, button 2 activates output 1, and so on. In this case, the transmitter must be memorised, pressing the required button, for each output to activate. Naturally, each button can activate just one output while the same output can be activated by more than one button. One memory section is occupied for each button.

Installing the aerial

The receiver requires an ABF or ABFKIT type aerial to work properly; without an aerial the range is limited to just a few metres. The aerial must be installed as high as possible; if there are metal or reinforced concrete structures nearby you can install the aerial on top. If the cable supplied with the aerial is too short, use a coaxial cable with 50-Ohm impedance (e.g. low dispersion RG58), the cable must be no longer than 10 m.

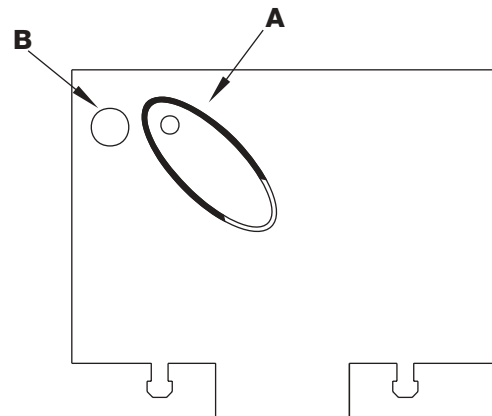
If the aerial is installed in a place that is not connected to earth (masonry structures), the braid's terminal can be earthed to provide a larger range of action. The earth point must, of course, be local and of good quality. If an ABF or ABFKIT aerial cannot be installed, you can get quite good results using the length of wire supplied with the receiver as the aerial, laying it flat.

Memorising a remote control

⚠ When the memorisation phase is activated, any transmitter correctly recognised within the reception range of the radio is memorised. Consider this aspect with care and remove the aerial if necessary to reduce the capacity of the receiver.

The procedures for memorising the remote controls must be performed within a certain time limit; please read and understand the whole procedure before starting.

In order to carry out the following procedure, it is necessary to use the button located on the box of the radio receiver (reference A, Fig. 1b), and the corresponding LED (reference B, Fig. 1b) to the left of the button.



1b







Table "B1"	Mode I memorising (each button activates the corresponding output in the receiver)	Example
1.	Press and hold down the receiver button for at least 3 seconds	3s
2.	Release the button when the Led lights up	
3.	Within 10 seconds press the 1st button on the transmitter to be memorised, holding it down for at least 2 seconds	2s
N.B.: If the procedure was memorised correctly, the Led on the receiver will flash 3 times. If there are other transmitters to memorise, repeat step 3 within another 10 seconds. The memorisation phase finishes if no new codes are received for 10 seconds.		x3

Table "B2"	Mode II memorising (each button can be associated with a particular output)	Example
1.	Press and release the receiver button as many times as the number of the desired output (twice for output no. 2)	
2.	Make sure the Led flashes as many times as the number of the desired output (2 flashes for output no. 2).	
3.	Within 10 seconds press the desired button on the transmitter to be memorised, holding it down for at least 2 seconds.	2s
N.B.: If the procedure was memorised correctly, the Led on the receiver will flash 3 times. If there are other transmitters to memorise, repeat step 3 within another 10 seconds. The memorisation phase finishes if no new codes are received for 10 seconds.		x3

Remote memorising

It is possible to enter a new transmitter in the receiver memory without using the keypad. A previously memorised and operational remote control must be available. The new transmitter will “inherit” the characteristics of the previously memorised one. Therefore, if the first transmitter is memorised in mode I, the new one will also be memorised in mode I and any of the buttons of the transmitter can be pressed. If the first transmitter is memorised in mode II the new one will also be memorised in mode II but the button activating the








required output must be pressed on the first transmitter as must the button required to be memorised on the second. You need to read all the instructions in advance so you can perform the operations in sequence without interruptions. Now, with the two remote controls (the NEW one requiring code memorisation and the OLD one that is already memorised), position yourself within the operating range of the radio controls (within maximum range) and carry out the instructions listed in the table.

Table “B3”	Remote Memorising	Example
1.	Press the button on the NEW transmitter for at least 5 seconds and then release	  x5s
2.	Press the button on the OLD transmitter 3 times slowly	 1s  1s  1s
3.	Press the button on the NEW transmitter slowly and then release	 x1

N.B.: If there are other transmitters to memorise, repeat the above steps for each new transmitter

Deleting all transmitters

All the memorised codes can be deleted as follows:

Table “B4”	Deleting all transmitters	Example
1.	Press the receiver button and hold it down	
2.	Wait for the Led to light up, then wait for it to switch off and then wait for it to flash 3 times	   x3
3.	Release the button exactly during the third flash	  3°
N.B.: if the procedure was performed correctly, the Led will flash 5 times after a few moments.		 x5

Technical characteristics

Receivers			
	SMXI	SMXIS	SMXIF
Decoding	Rolling code 52 bit FLOR	Rolling code 64 bit SMILO	1024 FLO combinations
Transmitter compatibility	FLOR, VERY VR	SMILO	FLO, VERY VE
Frequency	433.92MHz		
Input impedance	52ohm		
Outputs	4 (on connector SMXI)		
Sensitivity	better than 0.5µV		
Working temp.	-10°C ÷ + 55°C		

Transmitters					
	FLOR	VERY VR	FLO	VERY VE	SMILO
Buttons	1 - 2 - 4	2	1 - 2 - 4	2	2 - 4
Power input	12Vdc Batt. 23A	6Vdc lithium batt.	12Vdc Batt. 23°	6Vdc lithium batt.	12Vdc Batt. 23A
Absorption	10mA	10mA	15mA	10mA	25mA
Frequency	433.92MHz				
Working temp.	-40°C ÷ + 85°C				
Radiated power	100µW				