

RXM5A

Universal receiver at 433.92 MHz with 5A relay



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1 - SAFETY WARNINGS

CAUTION – to ensure personal safety it is important to follow these instructions and keep them for future reference. Read the instructions carefully before proceeding with installation. The design and manufacture of the devices making up the product and the information in this manual are compliant with current safety standards. However, incorrect installation or programming may cause serious injury to those working on or using the system. Compliance with the instructions provided here when installing the product is therefore extremely important.

2 - PRODUCT INTRODUCTION

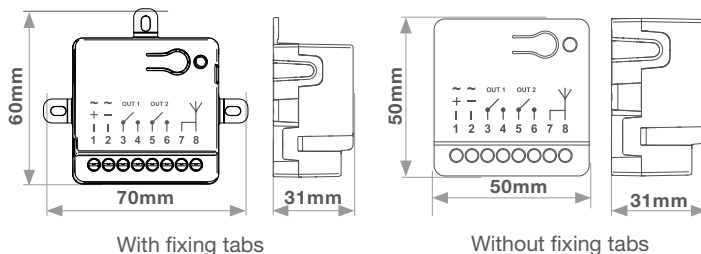
The RXM5A is a universal receiver at 433.92 MHz with 2 relay outputs of 5 A, compatible with fixed or rolling code transmitters from Key Automation. It can be mounted on a wall/panel using the (removable) mounting tabs or installed flush (e.g., in junction boxes). It can be powered directly by connecting it to Key Automation control units or via a dedicated AC/DC power supply.

Warning: any use other than as specified herein or in environmental conditions other than as stated in this manual is to be considered improper and is prohibited.

TECHNICAL SPECIFICATIONS

Decoding	Fixed code or rolling code (not simultaneous)
Transmitter compatibility	SUB - PLAY - TIP
Frequency	433.92 MHz
Storable codes	1000
Power supply	12-24 VAC 50/60 Hz 12-35 VDC
Maximum power	0.6 W (both relays active)
Duty cycle	Continuous
Maximum current per output	5 A @ 30 V (resistive load)
Maximum voltage per output	35 VAC / 50 VDC
Output OUT 1 behavior	Monostable impulsive
Output OUT 2 behavior	Monostable or bistable
Protection rating	IP 4X
Electrical insulation class	III
Operating temperature	-20 +55 °C
Dimensions with fixing tabs	70x60x31 mm
Dimensions without fixing tabs	50x50x31 mm
Weight	0,045 kg

MAIN COMPONENTS



3 - PRELIMINARY CHECKS

WARNING - before installing the product, perform the following checks and inspections:

- Check that the intended mounting surface is solid and does not allow vibrations
- Use electrical connections suitable for the currents required
- Check that the power supply conforms to the values in the technical specifications
- Connect a type ANTS433 antenna; without an antenna, the range is cut to a few metres. The antenna must be installed as high up as possible and above any metal or reinforced concrete structures. The antenna cable must be type RG58 and no more than 10 metres long.
- If it is not possible to install an antenna, range can be improved by connecting a stretched-out electrical wire

4 - INSTALLING THE PRODUCT





Ensure that the power supply is disconnected when wiring the loads to the receiver's relays. The first remote control sets the type of encoding (fixed or variable code). When powered up, the receiver flashes to indicate the type of encoding used by the remote controls in its memory:

- 1 long flash = memory empty
- 2 quick flashes = fixed code
- 3 quick flashes = variable code










4.1 MEMORISING A REMOTE CONTROL

WARNING: When storing a new remote control, the sensitivity of the receiver is temporarily attenuated to reduce unwanted signals. Keep the remote control in the vicinity of the receiver.








PH.	DESCRIPTION	EXAMPLE
1	Press and release the receiver's button as many times as the output you want to activate: once for output 1, twice for output 2	+ +

2	The LED on the receiver will flash a number of times equal to the number of the output selected, with 1 second pauses between flashes	 +1s  +1s
3	Press the key of the remote control to be memorised within 7 seconds, holding it down for at least 2 seconds	 2s
4	If the memorisation has been successful, the receiver will give one long flash	 3s
5	To memorise another remote control on the same output, repeat point 3	
N.B.	If no commands are given for 7 seconds, the receiver automatically quits the programming mode	

4.2 DELETING A BUTTON FROM A REMOTE CONTROL

PH.	DESCRIPTION	EXAMPLE
1	Press the button on the receiver until the LED lights up (about 3 seconds)	 (>3s)-> 
2	Press the key of the remote control to be deleted within 7 seconds, holding it down until the LED on the receiver goes out. Release the remote control key	 - > 
3	About 1 second after the key is released, the LED on the receiver starts to flash	 0,5s  0,5s 
4	Confirm the deletion by pressing the button on the receiver	
5	If the deletion of the button has been successful, the receiver will give one long flash	 3s
N.B.	If no commands are given for 7 seconds, the receiver automatically quits the programming mode	








4.3 CLEARING THE ENTIRE RECEIVER MEMORY/ RECEIVER RESET

PH.	DESCRIPTION	EXAMPLE
1	Press the button on the receiver and hold it down until the LED lights up (about 3 seconds) and then goes out (about 3 seconds). Release the key	 (>3s)->  (>3s)-> 
2	About 1 second after the key is released, the LED on the receiver starts to flash	 (1s) +  (1s) + 
3	To clear the entire memory, press the receiver button on the third flash, or to reset the 4 outputs and restore the default monostable settings, press the button on the fifth flash	

- 4 If the deletion/reset has been successful, the receiver will give one long flash





4.4 CHANGE MONOSTABLE/BISTABLE BEHAVIOR OF OUT2

For the second output, OUT2, it is possible to set monostable or bistable operation.

PH.	DESCRIPTION	EXAMPLE
1	Press and hold the receiver button until the LED lights up (approximately 3 seconds) and then turns off (3 seconds). Release the button.	 (>3s)->  (>3s)-> 
2	About 1 second after releasing the button, the LED on the receiver starts flashing.	 (1s) +  (1s) 
3	To switch from monostable to bistable or vice versa, press the receiver button at the seventh flash.	
4	If the output modification is successful, the receiver will emit 1 long flash.	

4.5 REMOTE MEMORISATION OF A REMOTE CONTROL WITH A REMOTE CONTROL ALREADY MEMORISED

A transmitter can be memorised without accessing the receiver. The user needs to have a transmitter memorised previously, after which the procedure is as described below. The remote copy procedure must be carried out in the area served by the receiver.

PH.	DESCRIPTION	EXAMPLE
1	Press the key of the new remote control to be memorised, holding it down for at least 5 seconds	 > 5s
2	Press the key of the old remote control to be copied (if phase 1 has been successful, the automation system will not respond)	 > 3s
3	Press the key of the new remote control to be memorised, holding it down for at least 3 seconds	 > 3s
4	Press the key of the old remote control to be copied, holding it down for at least 3 seconds, to confirm and quit the programming mode	 > 3s
N.B.	If no commands are given for 7 seconds, the receiver automatically quits the programming mode	

5 - TESTING AND COMMISSIONING

The system may be put into operation after testing by a qualified technician, who must perform the tests required by the relevant standards in relation to the risks present, to check that the installation complies with the relevant regulatory requirements.

6 - DISPOSAL

Packaging components (cardboard, plastic, etc.), duly separated, must be placed in the appropriate bins. Device components such as electronic boards, metal parts, batteries, etc. must be separated and differentiated. For the methods of disposal, the rules in force in the place of installation must be applied. **DO NOT DISPOSE IN THE ENVIRONMENT! KEY AUTOMATION** reserves the right to amend these instructions if necessary; they and/or any more recent versions are available at www.keyautomation.com



7 - DECLARATION OF CONFORMITY

The manufacturer:

Key Automation S.r.l. via Meucci 23, 30027 San Donà di Piave (VE) – ITALY

Declares that the product type:

RXM5A

433.92 MHz 4-channel radio receiver with 5 A relay

Models:

900RXM5A

is in compliance with the Union directives:

RED Directive 2014/53/EU

RoHS Directive 2011/65/EU

In accordance with the following harmonized standards:

EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023

EN 300 220-1 V3.1.1:2017, EN 300 220-2 V3.2.1:2018

EN 62479:2010

EN 62368-1:2014

This declaration of conformity is issued under the sole responsibility of the manufacturer.
San Donà di Piave (VE), 03/02/25

Chief Executive Officer

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Instruction version

583RXM5A REV.00