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RS-407M

Monostable receiver



Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

Electronic relays are used for radio remote control of gates, shutters, lighting, arming alarm systems, etc. The remote control system consisting of a transmitter (remote) and receiver (relay). There is a possibility of cooperation between many transmitters to one receiver and one transmitter to multiple receivers.



The RS-407M receiver works with dedicated devices (transmitters) by F&F: RS-P (remote control) and RS-N (flush-mounted transmitter).

Functioning

The impulse caused by pressing a button on the remote control sends a coded signal to the receiver. Remote control is protected against break transmission after releasing the button. Thanks to this, even the shortest activation function is the full frame of data transmissions. Data transmission from the remote control is indicated by flashing of red LED on the remote. When the signal

is recognized, the receiver closes the X1-X2 contact for $1\div 2$ s (pulse).

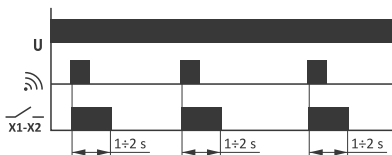
The range of the system is up to 100 m (range depends on many factors, among others, on: the weather (humidity), terrain characteristics (reflection), placement of the receiver and transmitter, and all kinds of obstacles such as walls).



Perform tests before final assembly of the receiver.



The receiver is equipped to the PROG button, which allows link the remote/button on the receiver and resets the receiver memory.



Programming

Press and hold the PROG button >5 sec enters into a state of programming. After entering the learning mode, the receiver is waiting for incoming transmissions from the remote (Pressing the remote button). Followed by verification of the program. If the button of the remote control has not been programmed it will record identifying information. During one open programming session, the receiver can be attributed to many control remotes. The non-volatile memory can save up to 32 remotes. There is a possibility of cooperation between many transmitters to one receiver and one transmitter to multiple receivers.

Short press <1 sec exits from the state of programming.

Press and hold PROG >8 sec will erase the memory. After the operation, erasing out of the non-volatile memory are erased all data on the pilots, and then the memory is formatted for re-programming.

Signalling of the receiver state

Red LED

Flashing every 1 sec	Learning mode
ON	Signalling of switch-on the relay

Green LED

After turn-on the power:

Single blink	Device initialization
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Working:

Short random blinks	Receiving data from remote controls
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Learning (red LED is flashing at the same time):

Long blink	Memorization of button functions
Short blink	Button is already stored in the memory
3 blinks	Full memory

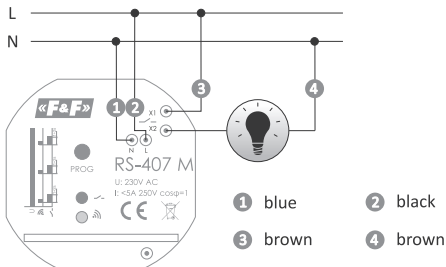
Reset settings:

After pressing the PROG button for 8 seconds, it starts blinking quickly, confirming that the settings have been deleted

Mounting

1. Disconnect power supply.
2. Connect the power cables to the relay in accordance with the markings; L-phase wire to black conductor, N-neutral wire to blue conductor.
3. The controlled receiver should be connected in series to the terminals X1 and X2 of the relay (brown wires).
4. Pair the relay with the transmitter (programming).
5. Connect power supply.

Wiring diagram



Technical data

power supply	195÷253 V AC
maximum load current (AC-1)	5 A
contact	separated 1×NO
contact status signalling	red LED
receipt/programming signalling	green LED
radio frequency	868 MHz
power consumption	0.8 W
working temperature	-25÷50°C
terminal	4×LY 1 mm ² , l= 10 cm
dimensions	ø55, h= 21 mm
mounting	for ø60 flush-mounted box
ingress protection	IP20

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

Compliance with standards

PN-EN 60669, PN-EN 60950, PN-EN 55024, PN-EN 61000,
PN-ETSI EN 300 220-1, PN-ETSI EN 300 220-2,
PN-ETSI EN 301 489-1, PN-ETSI EN 301 489-3.

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