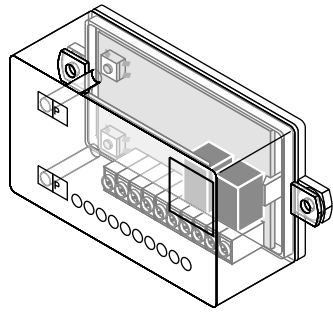


LOW CONSUMPTION RX



INSTALLATION
MANUAL

Made in
Italy

RCS-433DSR2LC

Thank you for choosing an RCS product .
You are recommended to read this manual carefully before
installing this product.

SUMMARY

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1 - PRODUCT SPECIFICATIONS

1A - Introduction

The receiver type RCS-433DSR2LC is a 2 relay output receiver, operating at 433,92 Mhz in AM/ASK modulation. It is designed for automatic closing systems and anti-burglar systems with a very low rest current consumption. The operating frequency is among the European harmonised frequencies; The antenna is connected with a F- type connector. The relay outputs are only with NO contact with the common contact shorted to Ground. The operating mode can be Pulse or Latch. The power supply is 12/24 Vac/dc. The IP grade of 2X allows only indoor installations. The product fully complies with the EMC European Regulations (CE) and the FCC Part 15 Regulations.

1B - Usable Transmitters

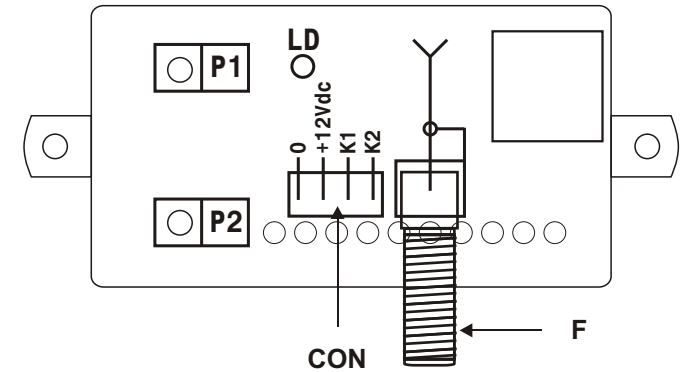
- RCS-433DT2 : 2 button transmitter
- RCS-433DT4 : 4 button transmitter

1C - Technical specifications

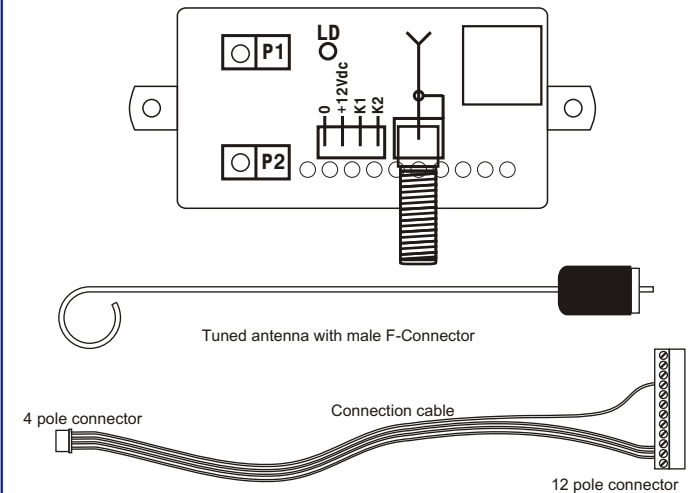
Receiver type:	Superheterodyne.
Demodulation:	AM/ASK.
Operating frequency:	433,92 MHz.
Local oscillator frequency:	6,6128 MHz.
Intermediate frequency:	10,7 MHz.
Sensitivity (for good signal):	-115 dBm.
Input impedance:	75 Ohm.
Supply voltage :	12/24 Vac/ dc (± 10%).
Current absorption:	
at rest:	1.5 mA
with 1 relay excited:	7 mA
Number of relays:	2 (1NO, 1NO).
Relay operating mode	Pulse / Latch
Commutable max power:	24W or 24VA .
Memory capacity (tx keys):	42.
Operating temperature:	-4 ÷ +158 °F.
Dimensions:	4.13 x 1.77 x 1.1 in
Weight:	2.29 oz
IP Protection grade:	2X

1D - Receiver overview

LD : Green Led
P1 : P1 Button CON : I/O Connector
P2 : P2 Button F : F-Type connector



1E - Wiring diagram



Signal	4 pole connector	Wire color	12 pole connector
GND / Relays common	1	BLACK	1
+ 12 Vdc	2	RED	2
K1 NO Contact	3	GREEN	3
K2 NO contact	4	ORANGE	9

1F - Main features

- Very low rest current consumption
- 42 storable transmitter keys
- Single transmitter key or Full memory erasure
- Programmable operation mode of the 2 relays: pulsing, latching
- Easy transmitter memorization

2- TRANSMITTER CODE MEMORIZATION

2A - "K1" Output

- 1) Keep P1 pressed down until the green Led (LD) switches on, release P1 and push the key of the transmitter;
- 2) The K1 relay makes a pulse
- 3) LD will remain lit for 4 seconds.

2B - "K2" Output

- 1) Keep P2 pressed down until the green Led (LD) switches on, release P2 and push the key of the transmitter;
- 2) The K2 relay makes a pulse
- 3) LD will remain lit for 4 seconds.

3- RELAY PROGRAMMING (PULSE / LATCH)

It is possible to set the operating mode of each relay : pulse or latch.

- *In pulse mode the relay remains excited as long as the transmitter key remains activated.*
- *In latch mode , the relay is activated at the first pulse of the transmitter and releases at the next pulse.*

K1 Pulse mode

The default operating mode for K1 is Pulse.

Programming K1 to Latch mode

- 1) Keep P1 pressed down until LD switches on.
 - 2) Release P1 and push P1 again once and release.
- LD will start to blink quickly for 2 seconds and then switches off.
In this way the relay K1 is set to latch mode.

In order to restore the previous mode, repeat the same sequence:

- 1) keep P1 pressed down until LD blinks quickly.
 - 2) Release P1 and push P1 again once and release.
- LD will remain lit solid for 2 seconds and then switches off.
At this point the pulse mode has been restored.

K2 Pulse mode

The default operating mode for K2 is Pulse.

Programming K2 to Latch mode

- 1) Keep P2 pressed down until LD switches on.
 - 2) Release P2 and then push P1 once and release.
- LD will blink quickly for 2 seconds and then switches off.
In this way the relay K2 is set to latch mode.

In order to restore the previous mode, repeat the same sequence:

- 1) keep P2 pressed down until LD blinks quickly.
 - 2) Release P2 and then push P1 once and release.
- LD will remain lit solid for 2 seconds and then switches off.
At this point the pulse mode has been restored.

4- MEMORY CAPACITY

The receiver can store the single keys of each transmitter.

For example a 4 key transmitter needs 4 memory cells .

The total memory space is 42 .

That means that the receiver can store up to 10 transmitters with 4 keys or 21 transmitter with 2 keys.

In case of full memory, if one tries to store an extra transmitter , a sequence of 3 blinks of LD occurs and the operation fails.

5- MEMORY ERASURE

It is possible to delete either the single transmitter key or the complete memory.

Single transmitter key erasure

- 1) Select the relay on which the transmitter key has been memorized.
- 2) Keep P1 or P2 pressed down until the green Led LD switches on (it will blink if the relay is in latch mode);
- 3) Release the button and push the key of the transmitter to erase;
- 4)The led LD switches off for a while, then switches on and remains lit again for 4 seconds.

At the end the transmitter key has been erased.

Full memory erasure

- 1) Keep P1 pressed down until LD switches on.
- 2) Release P1 and then press P1 and P2 down simultaneously until LD flashes 3 times.

At that point the memory has been completely erased.

GUARANTEE

The guarantee period of all RCS products is 6 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at the discretion of the producer. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the producer's factory.

REMOTE CONTROL SOLUTIONS

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