

ERONE 27

EXTERNAL MINI RECEIVER



MANUAL
INSTALLATION



SEL 39 R27-M1
SEL 39 R27-M2
SEL 39 R27-M4

Thank you for choosing a product Erone. You are recommended to read carefully this manual before installing the product.

1 - DESCRIPTION

1A - Introduction

The receiver ERONE 27 mod. SEL39R27-M1, M2, M4 is a component of the radiocontrol ERONE 27, designed for the control of automatic closing systems and anti-burglar systems, thanks to its high security coding system (up to 19683 code combinations). The operating frequency is among the European harmonised frequencies; the product fully complies with the EMC European Regulations (CE).

The code sent by the transmitter is fixed.

The receiver has up to 4 output relays (depending upon the model, with NO and NO/NC contacts, and can be

connected to many types of mechanics (gate, garage door, rolling shutters, awnings, anti-burglar appliances, lighting, etc.). All the receivers of the Series Erone 27 can store up to 100 different security codes into the internal EEPROM.

The programming can be done in self-learning mode by means of one button. The Housing Protection of IP65 allows external installations. The receiver is produced in 3 versions, with 1, 2 or 4 output relays.

The appliance fully complies with the European Regulations 89/336/EEC, 73/23/EEC and EN 60336-1.

MODELS

The receiver is produced in the following models:

- SEL39R27-M1 : 1 Relay external mini receiver
- SEL39R27-M2 : 2 Relays external mini receiver
- SEL39R27-M4 : 4 Relays external mini receiver

2 - TECHNICAL SPECIFICATIONS

| | |
|-------------------------------------|------------------|
| Receiver type | Supereheterodyne |
| Carrier frequency | 27.195 MHz |
| Local oscillator frequency | 27.650 MHz |
| Demodulation | AM/ASK |
| Channel width | 12,5 KHz |
| Intermediate frequency | 455 KHz |
| Input sensitivity | -113 dBm |
| Local oscillator spurious emissions | < -57 dBm |
| Input load: | 50 Ohm |
| Power supply: | 12 / 24 Vac/dc |
| Consumption: | |
| Steady / 12 Vdc (2 relays excited) | 15 mA / 49 mA |
| Steady / 24 Vdc (2 relays excited) | 19 mA / 55 mA |
| Max applicable power | 24VA |
| Relay number | 1, 2 or 4 |
| Contacts | NO, NO/NC |
| Memory capacity | 100 user codesTX |
| security code | Fixed code |
| ax code combination number | 3 ⁹ |
| Operating temperature | -20°/+70°C |
| Housing protection | IP65 |
| Weight | gr. 130 |
| Overall dimensions (mm) | 80 x 80 x 50 |

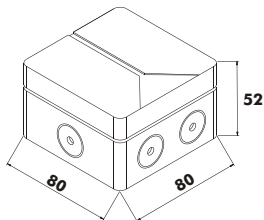


Fig. 1

3 - COMPOSITION

The receiver is composed by :

- 1 box with electronics
- 1 cover
- 2 screws
- 2 gumm taps
- 2 screws with plugs

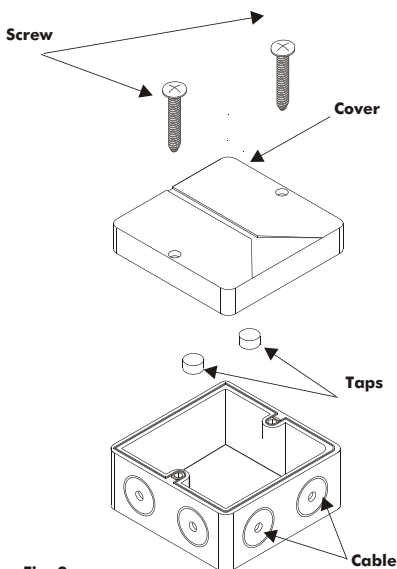


Fig. 2

4 - INSTALLATION

4.1 - Positioning

The receiver allocation is very important for the best operation of the system. Place the receiver far from interference sources as big magnetic fields, informatic systems, radio emissions. The installation and the antenna positioning is very important for the best receiving as well.

4.2 - Fixing

Remove the receiver cover. T
Fix the box by using the screws and the plugs supplied

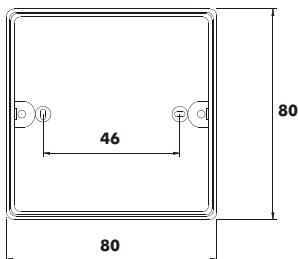


Fig. 3

At the end place the taps supplied over the holes to protect the screws head.

5 - LAYOUT E CONNECTIONS

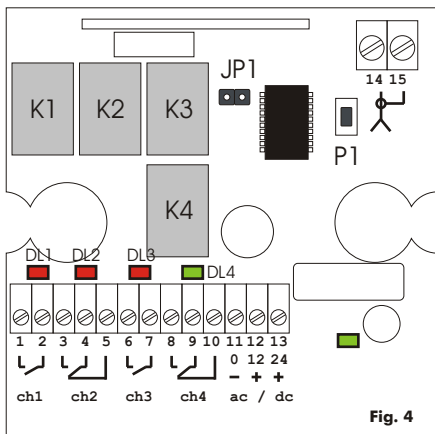


Fig. 4

5.1 - Contacts

| | |
|---------------|--------------------------|
| terminal 1 = | Contact NO Relay1 |
| terminal 2 = | Contact C Relay1 |
| terminal 3 = | Contact NO Relay2 |
| terminal 4 = | Contact C Relay2 |
| terminal 5 = | Contact NC Relay2 |
| terminal 6 = | Contact NO Relay3 |
| terminal 7 = | Contact C Relay3 |
| terminal 8 = | Contact NO Relay4 |
| terminal 9 = | Contact C Relay4 |
| terminal 10 = | Contact NC Relay4 |
| terminal 11 = | Input supply Common |
| terminal 12 = | Input supply + 12 Vac/dc |
| terminal 13 = | Input supply + 24 Vac/dc |
| terminal 14 = | Pole Antenna |
| terminal 15 = | GND Antenna |

5.2 - Relay K4 Configuration

The relay K4 can be configured in step mode. Close the jumper JP1.



JP1 = CLOSED
K4 Pulse



JP1=OPEN
K4 Pulse mode

6 - TX PROGRAMMING

Memorizing

The receiver makes the memorization of the transmitters buttons in sequential way.

Keep the button **P1** pressed down until the red led **DL1** switches on ; release **P1** and push the key "A" of the transmitter ; after push again **P1**, the second red led **DL2** switches on ; release **P1** and push the key "B" of the transmitter. After a while both the led will switch off and the procedure will be finished. In this way the keys "A" and "B" of the transmitter activate the relays K1 and K2 of the receiver.

The procedure to follow for the keys "C" and "D" is the same as above. For the memorization of the "C" key on **K3** push **P1** 3 times, and for the memorization of the "D" key on **K4** push **P1** 4 times.

7 - USABLE TRANSMITTERS

The receiver types SEL39R27-M1, M2, M4 can be used with the following types of ERONE 27 Series transmitters:

- **SETL3927E2, SETL3927E4**
- **SETD3927E2, SETD3927E4**

8 - TX ERASURE

Single transmitter erasure

Keep the button **P1** pressed down until the first red led **DL1** switches on ; push the key "A" of the transmitter to cancel : if this one was stored, it is cancelled: at the end of the operation both the led **DL3** and **DL4** blink 2 times a to confirm .For the erasure of the key "B" of the transmitter push 2 times **P1**. The second position is shown by the flash of the second red led **DL2**; at this point activate the key "B" of the transmitter to cancel.

Complete erasure

Keep the button **P1** pressed down until the first red led **DL1** switches on, release it, push it again and keep it pushed down until 3 blinks of the red led **DL3** and green led **DL4** occur. In this way the memory is completely cancelled.

9 - N° OF STORED TX DISPLAY

It is possible to display the number of the transmitters stored in the memory. Push 2 times **P1**: at this point a sequence of 7 flashes of **DL3** and **DL4** commences: this sequence represents the number of stored transmitters, expressed in binary annotation. Referring to the table below and the next example, it is possible to find the corresponding decimal number:

| Led on | 1° | 2° | 3° | 4° | 5° | 6° | 7° |
|-----------|----|----|----|----|----|----|----|
| value DL4 | 1 | 2 | 4 | 8 | 16 | 32 | 64 |
| value DL3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Example :

Led sequence: DL3, DL3, DL4, DL4, DL3, DL3, DL3.

Number: 0 + 0 + 4 + 8 + 0 + 0 + 0 = 12

Than the receiver has 12 stored transmitters .

MEMORY FULL

In case of full memory, that means 100 transmitters are already stored, if one try to store an extra transmitter, a sequence of 3 blinks of **DL3** and **DL4** occurs and the operation fails.

The guarantee period of all Erone products is 24 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.

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