

**L8542945**

**10/2011 rev 1**

**SC-RF**

**BENINCA<sup>®</sup>**  
TECHNOLOGY TO OPEN

**CE**



UNIONE NAZIONALE COSTRUTTORI  
AUTOMATISMI PER CANCELLI, PORTE  
SERRANDE ED AFFINI

Fig.1

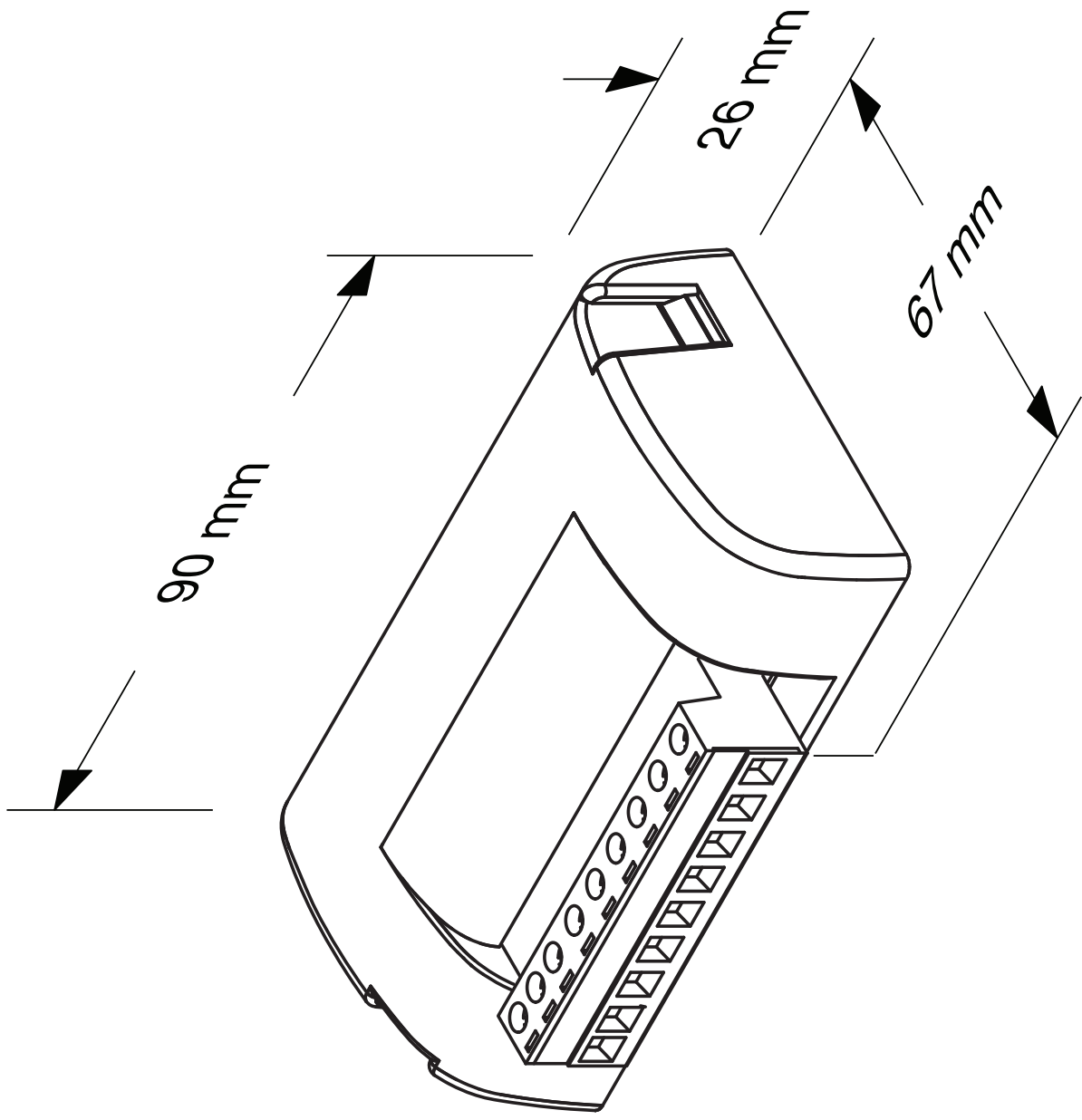
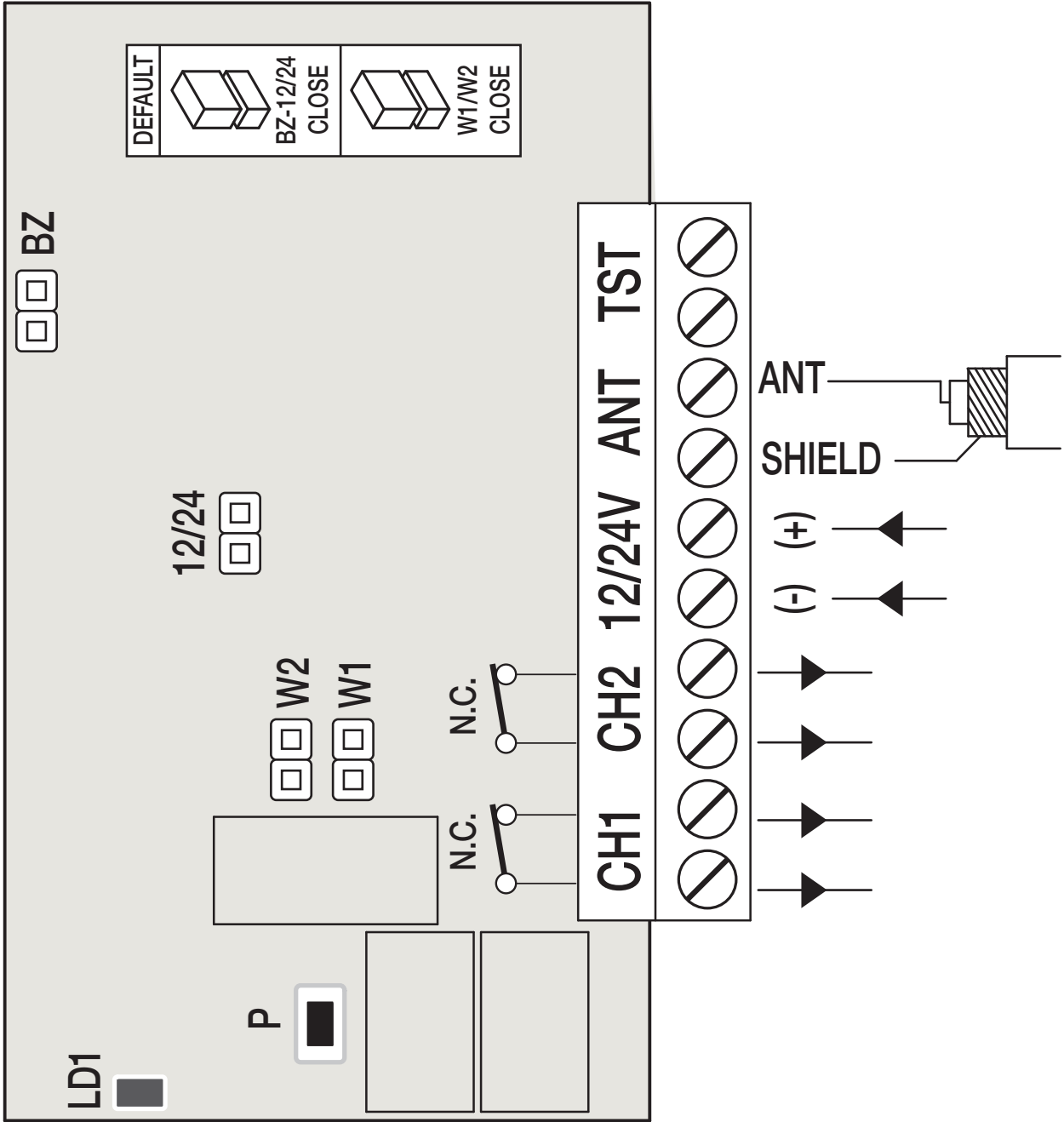


Fig.2



## SC.RF

### DESCRIPTION

Two-channel radio receiver, with 868 MHz frequency, pursuant to the regulation EN 12978, to be matched to radio transmitters of the RF/RF SUN series for movable circuits.

### OVERALL DIMENSIONS

The overall dimensions of the radio-receiver box are shown in Figure 1. A bi-adhesive strip is supplied to apply the box inside the automation system or the control system.

### WIRE CONNECTIONS (Fig. 4)

CH1\* Output, channel 1 replies the status of the sensitive safety edge memorised on channel 1 – normally closed contact.

CH2\* Output, channel 2 replies the status of the sensitive safety edge memorised on channel 2 – normally closed contact.

12/24 Input, 12 or 24 VAC or VDC power supply. It can be selected through a 12/24 jumper. In case of 12/24 VDC power supply, keep to poles shown in Figure 2.

ANT Input, antenna. For a better reception, it might be necessary to remove the pre-installed cable and use a 868MHz antenna.

TST Not use

\* CH1 and CH2 outputs are mainly connected to inputs for the sensitive edge of the control unit. In this case, inputs should be preset as if they were connected to a safety edge of the mechanical type.

The inputs for sensitive safety edges usually provide that, in the event they are activated, the system is immediately stopped and

the movement is reversed for some seconds.

As an alternative, should no inputs be provided for sensitive safety edges, channels CH1/CH2 can be connected to other safety inputs, namely inputs for photocells or inputs for STOP control signals.

If two channels must be connected to one single input in the control system, the two outputs should be connected in series.

### JUMPER

SC.RF is equipped with 2 jumpers for the following pre-settings:

BZ: The acoustic signal is enabled or disabled.

Closed jumper: activated sound indicator

Open jumper: not activated buzzer

12/24: Power voltage is selected.

Closed jumper: 12 VAC/DC

Open jumper: 24 VAC/MDC

### HOW TO STORE THE RADIO TRANSMITTER IN MEMORY

In order to be able to communicate with the RF/RF.SUN radio-transmitter, the transmitter code must be memorised and assigned to either channels available.

In order to memorise the code on channel 1, proceed as follows:

- 1) Press push-button P of the SC-RF RECEIVER once
- 2) The LED LD1 switches on with RED light
- 3) Within 30 seconds, press push-button S1 of the RF/RF.SUN device for around 4 seconds.
- 4) The LED LD1 switches off temporarily and a buzz indicates that the storage in memory has been successful.
- 5) Await that the LED LD1 switches off

In order to memorise the code on channel 2, proceed as follows:

- 1) Press push-button P of the SC-RF RECEIVER once
- 2) The LED LD1 switches on with RED light.
- 3) Press push-button P once again
- 4) The LED LD1 switches to GREEN light.
- 5) Within 30 seconds, press push-button S1 of the RF/RF.SUN device for around 4 seconds.
- 6) The LED LD1 switches off temporarily and a buzz indicates that the storage in memory has been successful.
- 7) Await that the LED LD1 switches off.

**IMPORTANT!**

**Up to 4 different devices can be memorised on each single channel. When the memory available is full, the LED will flash three times.**

**HOW TO RESET THE SC.RF RECEIVER**

If all presetting must be erased and the SC.RF receiver must be restored to factory pre-setting:

- Cut power supply off.
- Press push-button P and keep it pressed.
- Power the system again, keeping the push-button P pressed on the receiver.
- The LED starts flashing with red/green light. After around 5 seconds, when the light turns orange, release the button P and wait that the LED switches off.

**DIAGNOSTICS**

During normal operation, the colour of the LED indicates the status of the two channels:

Red LED – channel 1 activated

Green LED – channel 2 activated

The Buzzer (if enabled) indicates the following events:

- device switching on
- exit from configuration menu
- down battery of the mobile device (also the LED on the mobile device switches on periodically).

**DISPOSAL**

When the product is out of order, it must be disposed according to regulations in force on waste disposal and recycling of the various components (metal, plastics, electrical wires, etc.). For this purpose, it is advisable to contact your installer or a specialised company.

Specification	SC.RF
Frequency	868 MHz
Power supply	12/24 Vac/Vdc
Protection level	IP 30
Range	Without antenna - 30m With antenna - 100m
Channels	2 (4 devices max for each channel)
Relay contact	1A/24 Vdc
Operating time	-20/+50°C
Consumption at rest	10 mA
Consumption with 1 channel	42 mA
Consump. 2 channels activated	66 mA

# **BENINCÀ<sup>®</sup>**

**AUTOMATISMI BENINCÀ SpA**

Via Capitello, 45 - 36066 Sandrigo (VI) - Tel. 0444 751030 r.a. - Fax 0444 759728

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