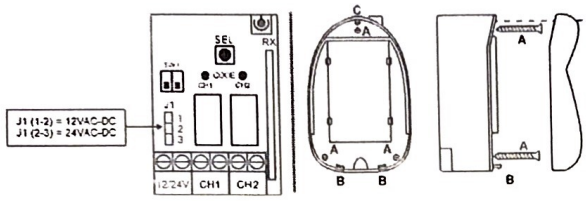
GB RXX 2224 PLUS DUAL CHANNEL RECEIVER

The RXX 2224 Plus dual channel radio receiver allows the remote control of electric and electronic devices when coupled with one or more transmitters.

- Mod. **RXS 2224 Plus** 433,92 MHz
- Mod. **RES 2224 Plus** Narrow band 433,92 MHz
- Mod. **RXH 2224 Plus** Narrow band 868,3 MHz

TECHNICAL DATA:

- Work frequency: see model
- Power supply: 12-24VAC-DC
- Max. consumption: 5W
- Op. transmitters.: 12-18-32 Bit Fix, 66-80 bit Rolling Code
- TX codes that can be memorised (CH1 + CH2): 500 Max
- Control relay: 30VDC 1A
- Working temperature: -10 ÷ 55 °C
- Dimensions: 53x82x40mm
- Capacity in open space: 50-100m
- Protection rating: IP 54



CONNECTIONS OF THE CN1 TERMINAL BOARD

1 : Power supply 12-24 VAC-DC
2 : Power supply 0V
3 : "Normally open" contact output CH1
4 : "Normally open" contact output CH1
5 : "Normally open" contact output CH2
6 : "Normally open" contact output CH2

INSTALLATION OF THE RECEIVER

It is very important to choose the place of installation carefully in order for the transmitter and the receiver to function well. Capacity is not only conditioned by the technical features of the device, but also varies depending on the radio-electric conditions of the site. The receiver has a tuned antenna.
The antenna must be positioned where it can be seen well away from metal structures
There must be a distance of at least 5 metres between the two receivers if installation is to be successful.

POWER SUPPLY SELECTION

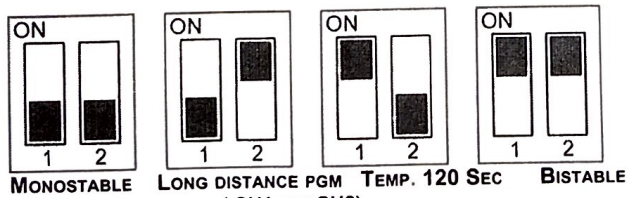
The power supply voltage can be selected by selection of the Jumper J1:
Jumper J1: 12/24 VAC-DC power supply selection.
Pos. 1-2 = 12 VAC-DC.
Pos. 2-3 = 24 VAC-DC (default)

CH1 AND CH2 FUNCTIONING METHOD

The receiver can manage the two channels separately and also allows to have different functioning modes:

Channel CH1:
monostable functioning only with possibility of activation of Long Distance Programming.

Channel CH2: by selecting Switch SW1, it is possible to select the following functioning modes for channel CH2 (in long distance functioning mode it is monostable).



PROGRAMMING MODE

The programming of the radio controls to be associated is the Self-learning type and is performed with **the antenna not connected** in the following way: press SEL once, the CODE CH1 LED, it will start to flash and at the same time sends the pre-selected code with the radio control to a distance of a few metres. When the LED remains on, programming in the CH1 channel will be completed. To memorise a radio control code in channel CH2, perform the same procedure described above and pressing the SEL key twice.
The memorisation procedure can be repeated up to a max. of 500 codes. When the memory is full by repeating the programming operation, the CODE CH1 AND CODE CH2 LEDs will start to flash very quickly, indicating that no more memorisations can take place.

LONG DISTANCE PROGRAMMING METHOD

The long distance programming of radio controls is obtained by selecting Dip Switch SW1 in long distance Pgm mode. In this way the receiver allows programming of the transmission code, without intervening directly on the SEL key.
The long distance transmission code is programmed as follows: send a radio control code, previously-memorised in a channel, continuously for longer than 10 seconds. At the same time the receiver will enter the programming mode, as described below, for both channels.

RULE OF THE FIRST REMOTE CONTROL STORED

In the programming of the radio commands, the following rule applies: if the first remote control to be stored is Rolling Code Plus, the control unit will only accept Rolling Code Plus radio controls, thus ensuring very high anti-cloning safety; If the first remote control to be stored is Rolling Code, the control panel will only accept Rolling Code and Rolling Code Plus radio controls, thus ensuring good anti-cloning safety if instead the first remote control to be stored is fixed-code type, the receiver will accept both Fixed code remote controls that Rolling Code and Rolling Code Plus radio controls without managing the anti cloning algorithm.

RESET

If the receiver must be restored to factory configuration (i.e. no code memorised), press the SEL key continuously for 5 seconds. The CODE CH1 and CODE CH2 LEDs will flash three times quickly and then switch-off.

IMPORTANT FOR THE INSTALLER

- The control unit must be powered from a source with very low safety voltage conform with Standard EN61558-2-6. The loads connected to the relay must also be conform to the lowest safety voltage.

IMPORTANT FOR THE INSTALLER

- The device must never be used by children or persons with reduced physical-psychological abilities, unless supervised or trained on the functioning and the use modalities.
- Do not allow children to play with the device and keep the radio-controls away from their reach.
- ATTENTION: keep this instruction manual and respect the important safety prescriptions contained herein. The non compliance with the prescriptions may cause damages and serious accidents.
- Frequently examine the plant to detect any signs of damaging. Do not use the device if a repair intervention is necessary.