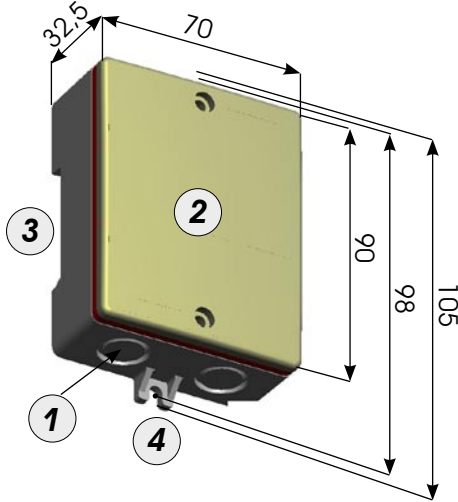# XR2 433 C - XR2 868 C

1 DESCRIPTION

The XR2 C control board is a two-channel external receiver, which has an integrated decoding system (DS, SLH, LC), named OMNIDEC. When a channel is activated by radio control (DS, SLH, LC), the relevant N.O. relay contact closes by the methods described in chapter 5.

The selectable configurations are:

CH1 = *pulsed N.O. relay output*

CH2 = *pulsed/fixed N.O relay output (selectable by DS1)*

DS1	ON	OFF
DIP SWITCH 1	OUTPUT CHANNEL 2 FIXED	OUTPUT CHANNEL 2 PULSED
DIP SWITCH 2	NOT USED	NOT USED

Fig.1

① Preperforated facility for cable grippers
② Cover
③ Facility for securing on DIN guide
④ Fittings for screw securing
⑤ Terminals for command output (N.O.)
⑥ Normally open (N.O.) relay contact
⑦ Signalling LEDs (ON= OUTPUT ACTIVE)
   DL1=LED CH 1   DL2=LED CH2
⑧ Radio programming push-buttons
   SW1=PUSH-BUTTON CH1   SW2=PUSH-BUTTON CH2
⑨ DS1: Selection dip-switch
⑩ Power supply terminal
⑪ Terminal for antenna
⑫ DL3: Mains ON LED (ON = MAINS PRESENT)

ENGLISH

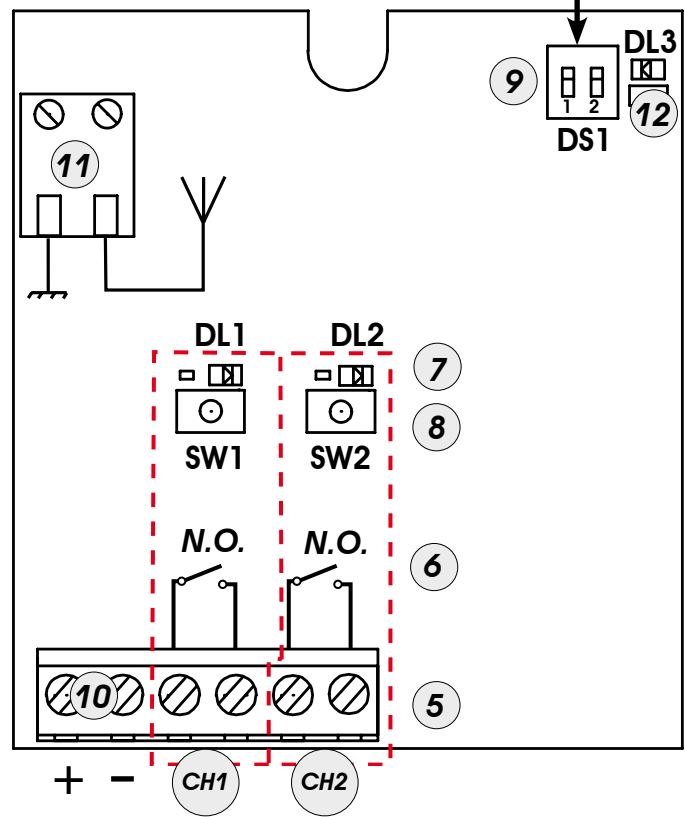## 2 TECHNICAL SPECIFICATIONS

	XR2 433 C	XR2 868 C
POWER SUPPLY (V)	12/24 ac-dc	12/24 ac-dc
RECEPTION FREQUENCY (MHz)	433.92 ±0.1	868.35±0.2
ABSORBED CURRENT (A)	100 mA	100 mA
DECODING (OMNIDEC SYSTEM)	DS-LC-SLH	DS-SLH
SAVEABLE CODES	250	250
NUMBER OF CHANNELS	2	2
NUMBER OF RELAY OUTPUTS (N.O.)	N 1 pulsed (CH1) N 1 pulsed/fixed (selectable) (CH2)	N 1 pulsed (CH1) N 1 pulsed/fixed (selectable) (CH2)
RELAY CONTACTS CAPACITY	0.5 A / 120 VA	0.5 A / 120 VA
PROTECTION CLASS	IP 44	IP 44
OPERATING AMBIENT TEMPERATURE (°C)	-20 / +55	-20 / +55

3   MEMORY STORAGE OF RADIO CONTROLS

👉 **At the most, only one type of radio coding can coexist on the XR2 C board. (DS, SLH, LC) .**

👉 **A maximum of 250 codes, divided between channels 1 and 2 can be stored in the memory.**

3.1   MEMORY STORAGE OF DS RADIO CONTROLS

1) On the DS radio control, select the required ON-OFF combination for the 12 dip-switches.
2) Press for 1 second the push-button on the receiver (Fig.1 ref.⑧) relating to the channel you wish to associate with the radio control.
3) The relevant LED on the receiver (Fig. 1 ref. ⑦) begins to flash slowly for 5 secs.
4) Within these 5 secs., press the appropriate push-button on the radio control.
5) The relevant LED (Fig.1 ref. ⑦) lights up on steady beam for 1 second and then goes OFF, indicating that storage was executed.

⚠️ **The board will send a command to the output associated with the channel.**

6) To add other radio controls, set the same ON - OFF combination used in point 1).

3.2   MEMORY STORAGE OF SLH RADIO CONTROLS

1) On the SLH **master** radio control, simultaneously press and hold down push-buttons P1 and P2.
2) The radio control LED begins to flash (for about 10 secs.).
3) Release both push-buttons.
4) Press, for 1 second, the push-button on the receiver (Fig.1 ref.⑧) relating to the channel you wish to associate with the radio control.
5) The relevant LED on the receiver (Fig. 1 ref. ⑦) begins to flash slowly for 5 secs.
6) Within these 5 secs., while the radio control LED is still flashing, press and hold down the required push-button on the radio control (the radio control LED lights up on steady beam).
7) The LED on the board (Fig.1 ref.⑦) lights up on steady beam for 1 second and then goes OFF, indicating that storage was executed.
8) Release the radio control push-button.
9) Quickly press twice in succession the memory stored radio control push-button.

⚠️ **The board will send a command to the output associated with the channel.**

10) To add other radio controls, transfer the code of the memory-stored push-button of the radio control to the relevant push-button of the radio controls to be added, observing the following procedure:

a) On the memory stored radio control, simultaneously press and hold down push-buttons P1 and P2.
b) The radio control LED begins to flash.
c) Release both push-buttons.
d) Press the memory stored push-button and hold it down (the radio control LED lights up on steady beam).

e) Bring the radio controls near, press and hold down the push-button of the radio control to be added, releasing it only after the double flash of the radio control LED, which indicates learning was executed.
- Quickly press twice the push-button of the new memory stored radio control.

⚠️ **The board will send a command to the output associated with the channel.**

3.3   MEMORY STORAGE OF LC RADIO CONTROLS

👉 **The LC radio coding is available only for certain markets and only for receiver XR2 433C.**

1) Press, for 1 second, the push-button on the receiver (Fig.1 ref.⑧) relating to the channel you wish to associate with the radio control.
2) The relevant LED on the receiver (Fig. 1 ref. ⑦) begins to flash slowly for 5 secs.
3) Within these 5 secs., press the appropriate push-button on the LC remote control.
4) The LED on the receiver (Fig.1 ref.⑦) lights up on steady beam for 1 second, indicating memory storage executed, and then resumes flashing for another 5 secs., during which another radio control can be memory stored.
5) When the 5 secs. have elapsed, the LED goes OFF indicating the end of the procedure.
6) To memory store other radio controls, repeat the previous procedure.
If you wish to proceed in remote mode, (without opening the receiver container), follow the procedure below:
a) Take an already memory stored radio control.
b) Press and simultaneously hold down push-buttons P1 and P2 until the flashing light of the LED (Fig.1 ref.⑦) on the receiver board lights up.
c) The LED will flash slowly for 5 secs.
d) Within 5 secs. press the push-button of the radio control that had been memory stored to enable learning on the selected channel.
e) The LED on the board relating to the channel being learned flashes for 5 secs., within which time the code of another radio control must be transmitted.
f) The LED (Fig.1 ref.⑦) lights up on steady beam for 2 seconds, indicating memory storage executed, and then resumes flashing for 5 secs., during which point "e" can be repeated, and also the subsequent points, for other remote controls and finally goes OFF.
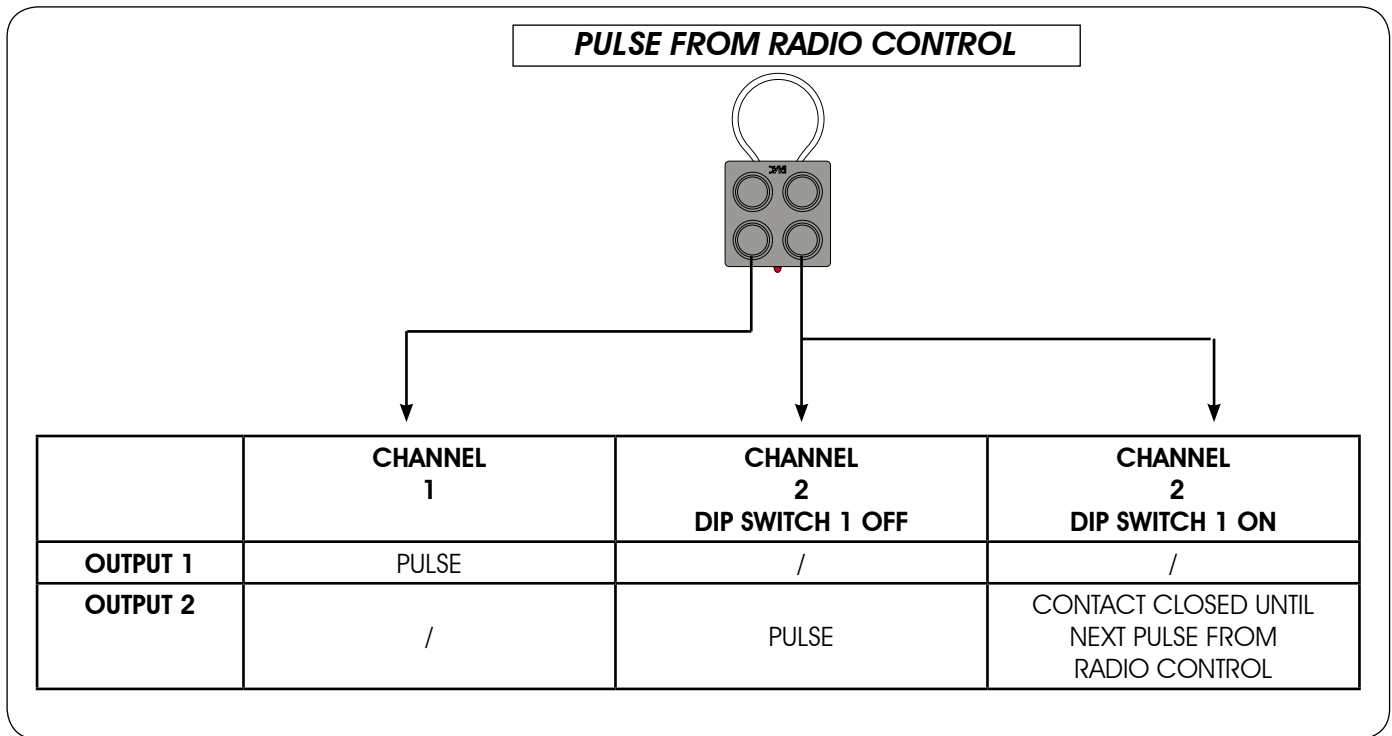
4   DELETION OF ALL RADIO CONTROLS

1) To delete **ALL** the radio control codes associated with channels 1 and 2, hold down push-button SW1 or SW2 (Fig.1 ref.⑧) for 10 seconds.
2) The LED (Fig.1 ref. ⑦) relating to the pressed push-button flashes for the first 5 secs., and then flashes more quickly for the next 5 secs.
3) The LED lights up on steady beam for 2 secs and then goes OFF.
4) Release the pressed push-button when both the relevant LED lights up on a steady beam.

⚠️ *This operation is NOT reversible.*

5 FUNCTION LOGIC

☞   *You can command the receiver channels from different radio controls.   (E.g.: radio control 1 commands channel 1, radio control 2 commands channel 2)*

PULSE FROM RADIO CONTROL

	CHANNEL 1	CHANNEL 2 DIP SWITCH 1 OFF	CHANNEL 2 DIP SWITCH 1 ON
OUTPUT 1	PULSE	/	/
OUTPUT 2	/	PULSE	CONTACT CLOSED UNTIL NEXT PULSE FROM RADIO CONTROL

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