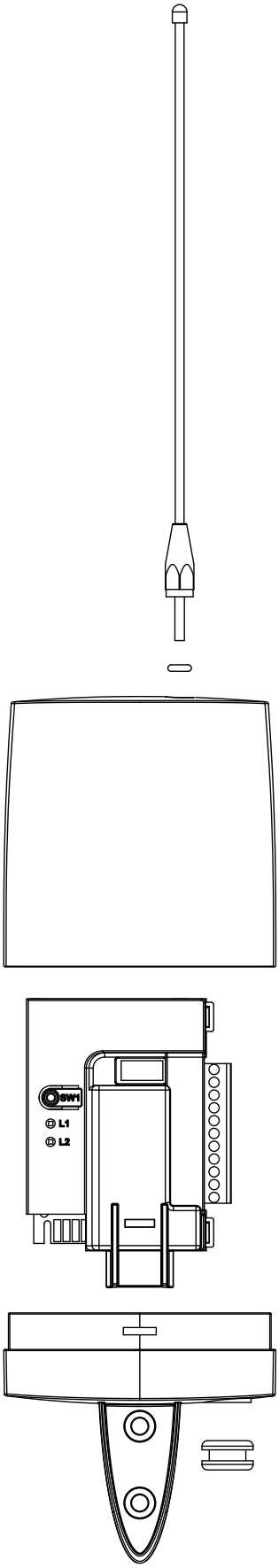
FREDDY2

EN Instructions and warnings for installation and use

Made in Italy

KINGGATES



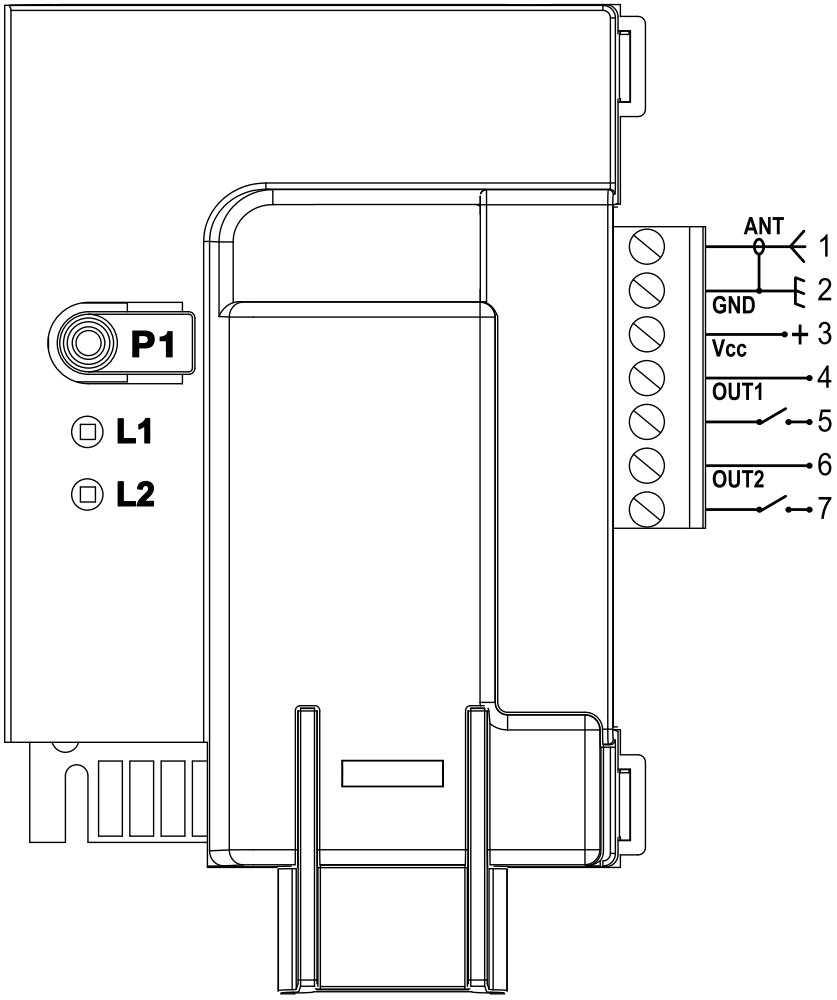


FIG.1

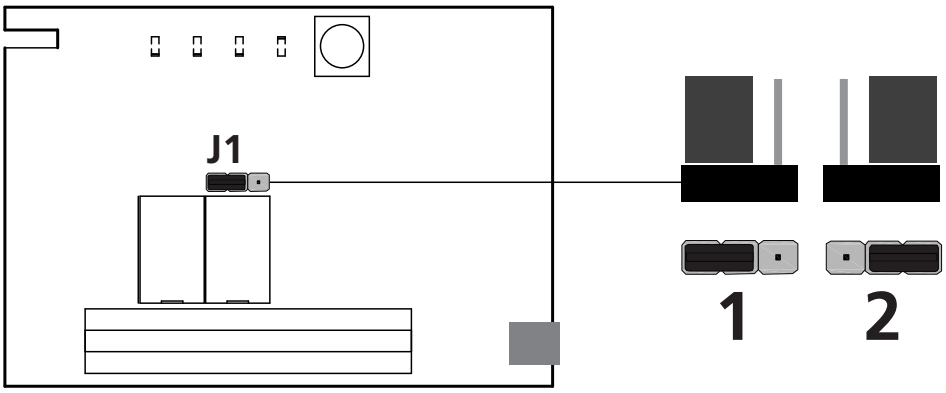
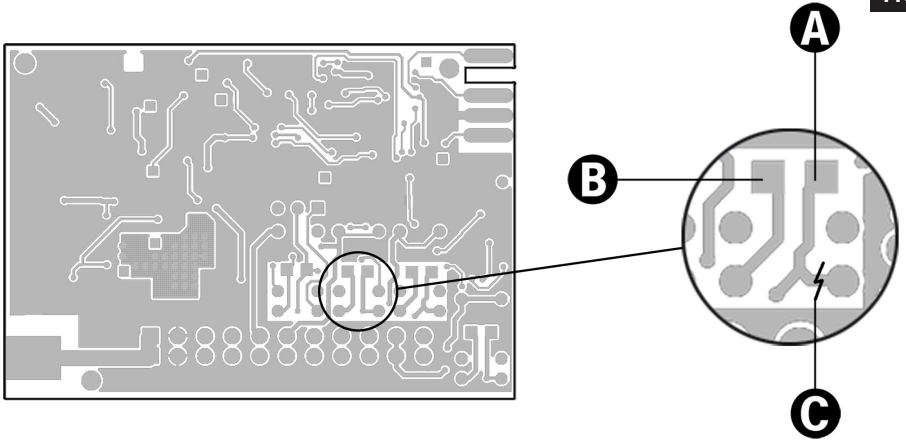


FIG.2



EU DECLARATION OF CONFORMITY

V2 SpA hereby declares that the products: FREDDY2
comply with the following directives:
99/05/CEE, ROHS-3 2015/863/EU

Racconigi, 01/07/2020
Legal representative of V2 S.p.A.
Sergio Biancheri

DISPOSAL

As for the installation operations, even at the end of this product's life span, the dismantling operations must be carried out by qualified experts.
This product is made up of various types of materials: some can be recycled while others need to be disposed of.
Find out about the recycling or disposal systems envisaged by your local regulations for this product category.

Important! – Parts of the product could contain pollutants or hazardous substances which, if released into the environment, could cause harmful effects to the environment itself as well as to human health.
As indicated by the symbol opposite, throwing away this product as domestic waste is strictly forbidden. So dispose of it as differentiated waste, in accordance with your local regulations, or return the product to the retailer when you purchase a new equivalent product.

Important! – the local applicable regulations may envisage heavy sanctions in the event of illegal disposal of this product.

PRODUCT DESCRIPTION AND INTENDED USE

The receivers in this series are intended for controlling the automation type door openers, gate openers and the like, lights and electrical circuits in general.
Any other use is improper and prohibited!
Specifications:

- Monostable, bistable or timer operating logic.
- Possibility to select the contact type (N.A or N.C.) of the relay 1 through a dedicated jumper J1.
  The contact of relay 2 is of N.A. type, to have an N.C. contact. It is necessary to make changes to the hardware of the printed circuit
- It is possible to store up to 504 different codes with self-learning mode
- Memory full warning: the receiver blinks 15 times
- Self-learning of transmitters managed by radio

RELAY CONTACTS

The contacts to the terminal board concerning the four relays are of normally open (N.O.) type.
For a normally closed (N.C.) contact of relay 1, move the jumper J1 to position 2 (Fig. 1).
For a normally closed contact (N.C.) of relay 2 short-circuit point A with point B and cut the track at point C (Fig. 2) of the relay concerned.

TECHNICAL DATA

Frequency	433,92 MHz
Power supply	12 - 24 Vac / 12 - 36 Vdc
Relay contacts	1A / 30Vdc
Temperature	-20 ÷ +60°C
Consumption	16 mA @ 24Vdc (stand by)
Sensibility	≥ -103 dBm
S/N	> 17dB @ 100dBm m=100%
Size	132 x 26 x 74 mm
Protection degree	IP55

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PROGRAMMING

⚠ **IMPORTANT: to memorize the code in the correct way it is necessary to keep a minimum distance of 1,5 metres between the transmitter and the receiver's antenna.**

The self learning programming system enables the code memorization and the setting of the following functioning modes:

MONOSTABLE: it activates the corresponding relay through the time of TX transmission. When the transmission stops, the relay goes automatically off.

BISTABLE: it activates the corresponding relay on the first TX transmission. The relay goes off on the second transmission.

TIMER: the tx transmission activates the corresponding relay which goes off after the set time (max 7,5 minutes).

SELECTION OF THE RECEIVER CHANNEL

To select the channel of the receiver to be programmed, press the P1 button for N times, as indicated in the table: the LED corresponding to the selected channel turns on

SELECTED CHANNEL	N° IMPULSES P1	LED ON	
		L1	L2
CHANNEL 1	1	•	
CHANNEL 2	2		•

PROGRAMMING OF THE MONOSTABLE FUNCTION

1. Select the channel of the receiver to be programmed
2. Within 5 seconds, press and hold the button on the remote control (about 2 sec.)
3. The led of the receiver goes out and goes on again: the code has been memorised and the receiver remains standby for 5 s with a new code to be memorised
4. Memorise all the remote control units necessary
5. After 5 seconds without a valid transmission, the led is turned off and the receiver returns to normal operating mode

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PROGRAMMING THE TIMER FUNCTION

1. Select the channel of the receiver to be programmes and hold pressed the P1 button: the LED corresponding to the selected channel will turn on for a few seconds
2. When the led goes off, release the P1 button.
3. The led starts a sequence of flashings at low speed (1 flash per second). The number of flashing corresponds to the time which can be set as shown in the table.:

N° Flashing	Time
1	01 sec.
2	02 sec.
3	03 sec.
4	04 sec.
5	05 sec.
6	06 sec.
7	07 sec.
8	08 sec.
9	09 sec.
10	10 sec.
11	11 sec.
12	12 sec.
13	13 sec.
14	14 sec.
15	15 sec.
16	30 sec.

N° Flashing	Time
17	1 min.
18	1,5 min.
19	2 min.
20	2,5 min.
21	3 min.
22	3,5 min.
23	4 min.
24	4,5 min.
25	5 min.
26	5,5 min.
27	6 min.
28	6,5 min.
29	7 min.
30	7,5 min.
31	BISTABLE

4. Count the number of led flashings corresponding to the time you wish to set
5. Press the rx button P1 during the wished flashing: the sequence of flashings stops and the led remains on
6. Within 5 seconds, press and hold the button on the remote control (about 2 sec.)
7. The led on the receiver is turned off and then comes on again: the code has been memorised and the receiver remains standby for 5 s with a new code to be memorised
8. Memorise all the remote control units necessary
9. After 5 seconds without a valid transmission, the led is turned off and the receiver returns to normal operating mode

PROGRAMMING OF THE BISTABLE FUNCTION

1. Select the channel of the receiver to be programmes and hold pressed the P1 button: the LED corresponding to the selected channel will turn on for a few seconds
2. When the led goes off, release the P1 button.
3. The led starts a sequence of flashings at low speed (1 flash per second). When the 30 flashings of the timer function are over, the led remains on.
4. Within 5 seconds, press and hold the button on the remote control (about 2 sec.)
5. The led on the receiver is turned off and then comes on again: the code has been memorised and the receiver remains standby for 5 s with a new code to be memorised
7. Memorise all the remote control units necessary
8. After 5 seconds without a valid transmission, the led is turned off and the receiver returns to normal operating mode

REMOTE RADIO LEARNING

This procedure allows to memorize new transmitters by radio, in sequence and without removing the receiver from the installation.

The transmitter which allows to enable the programming by radio must be memorized in advance.

The keys of all the transmitters saved in the memory via radio will have the same logic as for those of the transmitter that enabled programming.
Therefore, if the transmitter that activated programming has key 1 saved only, the new transmitters can only be saved using key 1.

1. Press for at least 4 seconds the keys 1+2 of one transmitter that is already saved
2. Release both keys
3. Press, within 5 seconds, the key of the new transmitter that you intend to save
4. Release the key and repeat the procedure for the other keys of the remote control or with other radio controls to be saved

CANCELLATION OF A SINGLE TRANSMITTER

1. Turn off the power to the receiver
2. Holding down the P1 key, reactivate the power supply: LED L1 lights up steadily for a few seconds then starts flashing
3. During flashing, release the P1 key: LED L1 turns on steadily
4. Hold down a key of the transmitter that you want to delete: LED L1 turns off and on again
5. Release the key: the transmitter has been deleted (all keys memorized) and the receiver remains on hold for 5 sec. of another transmitter to be deleted
6. After 5 seconds without any operation, the LED turns off and the receiver returns to normal operation

NOTE: if you try to delete a transmitter that is not memorized, the L1 LED flashes multiple times

TOTAL CANCELLATION OF TRANSMITTERS

1. Turn off the power to the receiver.
2. Holding down the P1 key, reactivate the power supply: LED L1 lights up steadily for a few seconds then starts flashing
3. Keep the button pressed until LED L1 remains on steady
4. Release the P1 key: the total cancellation is started and ends after a few seconds when the LED goes out

Manufacturer's details

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