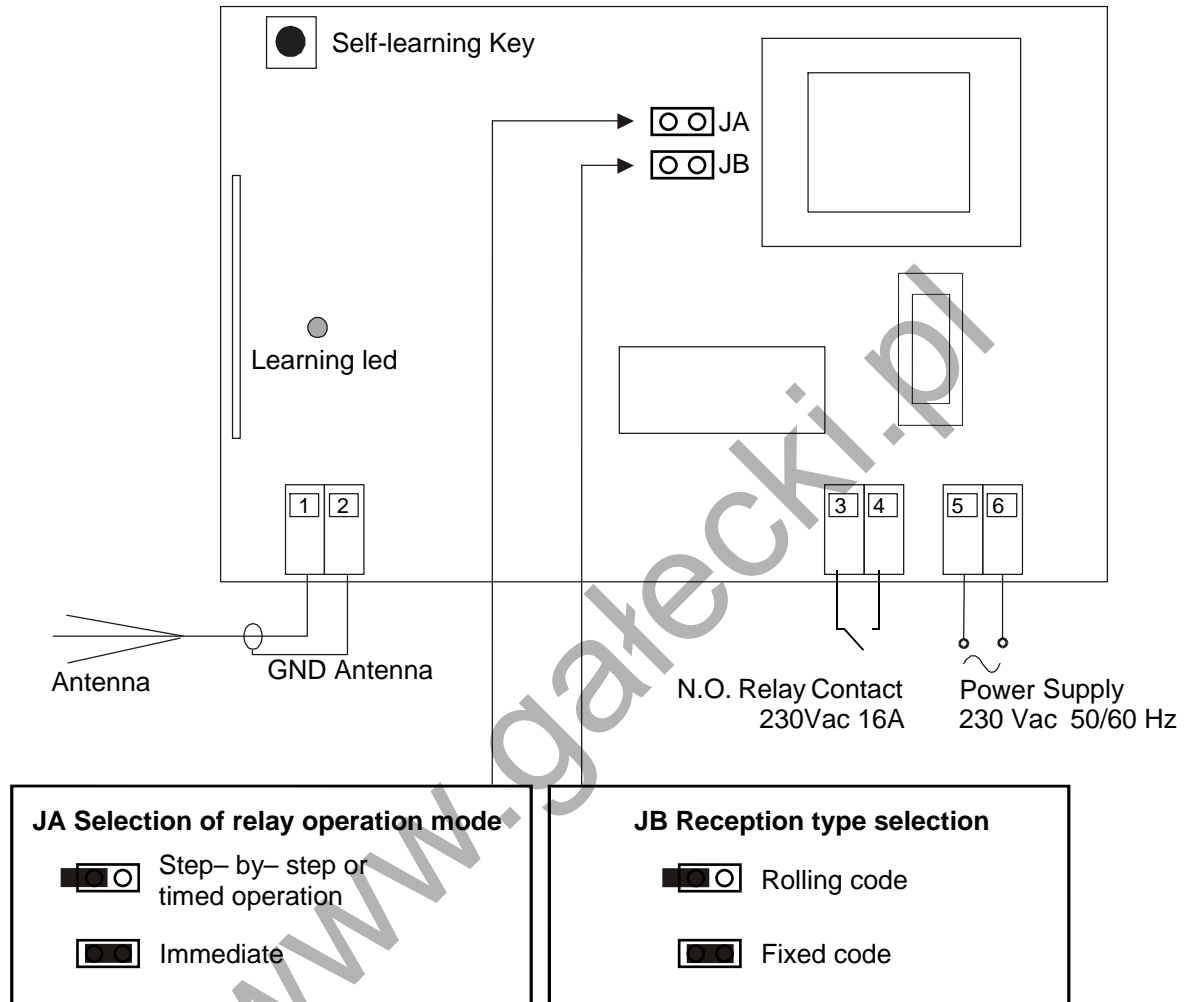


230 VAC MULTICODE RECEIVER WITH 16A RELAY

LINK DIAGRAM



1 – RECEPTION TYPE SELECTION

The receiver has been designed to operate in conjunction with two different types of transmitters: the traditional fixed code type and the more innovative series rolling code type.

The type selection is done through the jumper JB as showed above

WARNING:

- If the learning led starts flashing quickly as soon as the receiver is energised, this signals that no memory has been inserted or that the stored transmitters and the jumper position do not correspond.
- **It is not possible to store both fixed code and rolling code transmitters on the same memory module.** Therefore, you always need to carry out **complete memory deletion** (see section 4) before you switch from fixed code transmitters to rolling code transmitters, and vice versa.

2 – TRANSMITTER LEARNING

The learning procedure allows permanent storage of a transmitter in the memory of the receiver and may be implemented according to two different modalities:

- **Through the Self-Learning Key**
Press the self-learning key. The learning led switches on. Then press the key relating to the transmitter you wish to enable.

The led flashes twice for indicating a correct learning of transmitter. The receiver then resumes the normal operation mode and the transmitter can activate the relay.

- **Though the hidden key of an enabled transmitter which has already undergone the learning process (only applies to rolling code models)**

With the aid of a clip, press the hidden key of a transmitter that has already undergone the learning process. Entering of the learning mode is signalled by the learning led, which switches on. Press the key relating to the transmitter you wish to store, the flashing light flashes twice. The receiver then resumes the normal operation mode and the new transmitter can activate the relay.

3 – DELETION OF ALL TRANSMITTERS

DISCONNECT POWER SUPPLY. SUPPLY POWER BY CONTINUING TO PRESS THE LEARNING KEY FOR A FURTHER 4-5 SECONDS, UNTIL THE LEARNING LED SWITCHES ON. AFTER APPROXIMATELY 3 SECONDS THE LED SWITCHES OFF, ALL CODES ARE DELETED AND THE MEMORY MODULE IS SET FOR FIXED CODE OR ROLLING CODE RECEPTION, DEPENDING ON HOW THE RECEPTION SELECTION JUMPER JB HAS BEEN SET (ALSO SEE SECTION 1).

4 – OUTPUT RELAY OPERATION MODE

There are 3 different operating modes for the relay output:

- **IMMEDIATE:** the relay remains in an excited state as long as the radio signal persists, or else the relay output remains closed as long as you continue to press the transmitter key.
- **STEP-BY-STEP:** the relay remains activated up to the subsequent command, or else until the transmitter key is again pressed.
- **TIMED:** once activated, the relay remains in an excited state for a time interval which may be set to last from 3 seconds to 18 hours.

To select the desired operating mode, set the operation selection jumper JA as shown on page 1.

TIME SETTING

- Set the jumper in the Step-by-Step operating mode.
- By means of a previously learnt transmitter, operate the output relay so as to close the output contact.
- Press the learning key for a second. The learning led starts flashing with double consecutive flashing.
- Allow the programming time interval to lapse and then press the learning key again to switch the led off and store this time interval in the memory module.

Note: Once a time interval has been stored, you can only use the Immediate and Time operating modes. To restore Step-by-Step operation, carry out the procedure described above, under points a), b) and c). At this stage, place the jumper in the Immediate operating mode, press the learning key for a second and again place the jumper in the Step-by-Step operating mode. Through this procedure, you delete the previously learnt time interval and Step-by-Step operation is resumed.

Directions and Suggestions

- If you require more than one receiver, place them at a distance of at least 2-3 metres from each other, or they may reciprocally disturb each other, thus reducing the maximum range which can be individually achieved.
- The antenna is required in order to obtain optimal performance from the equipment; otherwise the range would be limited to a few dozen metres.
- Pay attention in positioning the receiving antenna: this must not be placed near walls and/or metal shields. The terminals of the antenna shielded-conductor cable need to be properly tightened; the use of cable-tightening terminals is not advisable in this case.
- Should the cable supplied with the antenna prove too short, do not make any junctions but replace the cable with one having sufficient length and having a 50 Ohm impedance (RG58 type). In any event, the cable should not exceed a 10 m length.
- In the event of failure, check the following:
 - Receiver power supply.
 - Transmitter battery conditions.
 - Proper installation of the antenna.
 - That led 1 is not flashing continuously, with approximately two flashes per second: should this be the case, the memory module is disconnected or damaged (also see section 2, reception type selection).

Technical Specifications		
	LO. RX 1S 433	LO. RX 1S 306*
Supply Voltage	230 Vac +10% -15 % 50 Hz	
Relay Output	Voltage-free contact 16 A max , 230 Vac	
Operating Temperature	-15 ... +60 °C	
Timed Operation	From 3 sec. to 18 hours	
Receiver Frequency	433.92 MHz	306 MHz
Receiver Type	Broad-band super-reactive	Broad-band super-reactive
Reception Available	Fixed code Rolling code	Fixed code
Antenna Impedance	50 Ω	
Number of codes available	4096 (fixed code reception) 18 billion billions (<i>Rolling Code Reception</i>)	
Range Achievable with Tuned Antenna	40-80 m in free space	40-80 m in free space
Maximum number of storable transmitters	1000	

* This device is not meant for the UE market.

WARRANTY TERMS - The manufacturer's warranty is valid 24 months from the date reported on the product and covers only the free repair or replacement of the pieces acknowledged by the manufacturer to be faulty due to lack of essential quality of materials or bad workmanship. The warranty does not cover damage or defaults due to external agents, bad maintenance, normal wear, bad assembly or any other causes that cannot be put down to the manufacturer. Products that have been tampered with shall be neither guaranteed nor repaired. The details shown are merely indicative. No liability can be accepted for range drops or bad functioning due to environmental interference. The producer shall be responsible only for injury to persons caused by accident of any nature occurred from defected products to the extent laid down irrevocably by Italian law.