

FBX7RX: 1-port wireless long range receiver

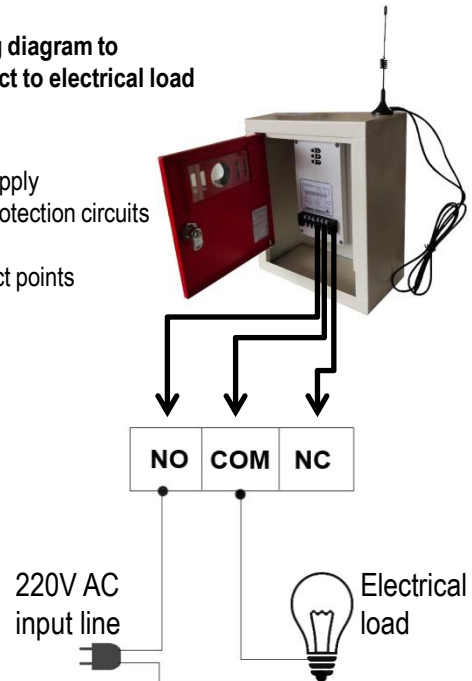
Technical specification



Wiring diagram to connect to electrical load

Customized designs:

- 12-24V input power supply
- Reverse connection protection circuits
- Internal buzzing sound
- 1 or 2 port relay contact points



Precautions and mounting locations:

- Should not directly connect to motors to avoid initial boot up surge currents
- Can be mounted on wall with keyholes
- Easy mounting with 4 screws to secure it tightly
- IP55 metallic enclosure weatherproof unit
- IP65 ABS for electronic circuits (internal box)
- Antenna keep away from metallic surfaces

Wall mount calling unit:

Enclosure type: IP 65 (color grey)
Size: 290 x 250 x 125 mm
Weight: 980gms

Application and features:

- Motor pump controllers
- Panic alarm in buildings (in case of emergency) etc.

Operating voltage:

110-220VAC/50-60Hz to 12VDC converter adapter supplied.

Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power.

Features:

- Single channel receiver (300-500m range)
- 1 indicators RED light in the front 1 port relay
- 1 indicator BLUE SYNC light to check signal reception
- 5Amps / 30Amps potential free relay contactor terminals
- 5xx/7xx transmitter signal triggers the relay ON/OFF
- Metal antenna
- Compatible with transmitters of FBX5xx and FBX7xx series

Technical details:

Operating frequency: 315– 480 MHz

System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies

CRC on data payload: Enabled

Packet Error Rate: PER (1%)

Redundancy packet feature: Enabled

fOsc = 32MHz

Modulation type: GFSK

Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.

Receiver sensitivity: – 112 dbm

Operating voltage of the transmitter: 12VDC

Operating temperature: 25 °C

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