

# FBXCSR01R5 : Wireless long range repeater relay receiver

## Technical specification



### Indicators at the transmitter unit

Power supply – Yellow

Signal – RED (relay indicator)

SYNC – Synchronizing signal from transmitter

### Precautions and mounting locations:

Mounted on the top of door / wall

- Easy mounting with 4 screws to secure it tightly
- IP65 enclosure unit, robust and weatherproof
- For indoor purpose use only
- Keep away from metallic enclosures

### Wall mount calling unit:

Size: 150 x 90 x 55 mm

Weight: 280gms

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**Model: FBXBCSR01R5**

**Wireless long range repeater relay receiver (5 Amps contactor)**

### How the receiver operates:

When signals from the transmitter reaches the repeater, it first of all locks itself to the set of operating frequencies. An ON signal from the transmitter triggers the relay. Whereas an OFF signal de-energises the relay. The inbuilt relay is a potential free contactor point with a maximum load capacity of 5 Amps @ 220VAC through itself. The relay can respond to 5xx or 6xx series transmitters. Note, a unit programmed for 5xx cannot respond to 6xx series and vice versa.

### Technical details:

Operating frequency: 380 – 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

Relay contact points spec: 5 A @ 220VAC (max)

Should not directly connect to motors to avoid initial bootup surge currents

### Operating Voltage

12 VDC (110V-220VDC to 12VDC converter adapter)

### Application

- Signaling for motor pump operation, siren alarms, potential free contactors or even traffic lights in distant location