ENSA-RS1 - 2 Channel Remote Switch

Thank you for choosing the ENSA-RS1 2 Channel Remote Switch Sensor!

The ENSA-RS1 is a 2 channel remote switch capable of switching on and off 240V AC electrical devices using the onboard relays. This receiver includes 2x Pre-Programmed remotes, which are ready to use. Additional remotes can be purchased separately. The 2 channels of this receiver are able to be programmed as either latching, or timed (up to 4 minutes).

Specifications:

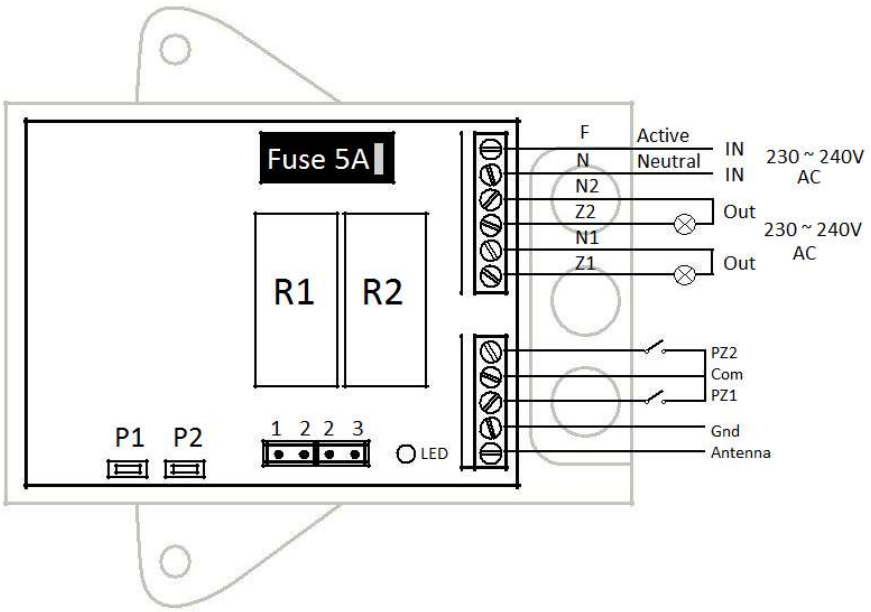
AC Input: 220~240VAC
AC Output: 220~240VAC
Power Frequency: 50Hz
Max Load: 5 Amp's Total
Operating Feq: 433MHz
Range: 100 Meters line of site
Dimensions: 115 x 100 x 60mm
IP Rating: IP55

There are many ways how you may use the ENSA-RS1 2 Channel Receiver, below are some examples.

1. Using the ENSA-RS1 as a 2 channel remote switch
    - This Remote Switch that can used to remotely turn on and off 240V AC Electrical devices such as lights, fans, sirens etc. with the included remotes or via hardwired contacts wired to PZ1 and PZ2.
    - Either output can be programmed as latching or timed mode (maximum 5 minutes).
2. Using the ENSA-RS1 with the Wireless universal transmitter

- You can learn a battery powered universal wireless transmitter into the ENSA-RS1 to trigger an output to a light. For example, wiring an ENSA-RS1 to a LED Floodlight, and wiring the wireless receiver to a reed switch in a door. When the door is opened, the wireless receiver is triggered which activates the remote switch, which in turn, illuminates the LED Floodlight. This combination on devices can be used with items such as Digital Video Recorders, Security Alarms and Access Control Systems.

3. Using the ENSA-RS1 with the – Wireless PIR
    - You may connect a Battery Powered Outdoor PIR to ENSA-RS1 wireless receiver as outlined in example 2. If the PIR is trigger, it will activate the wireless receiver, which in turn activates the remote switch and the device that is connected to the zone.



Installation and Configuration Instructions

WARNING!

1. *Before opening the cover of the ENSA-RS1, ensure the power supply to the device is isolated.*
2. Read the installation instruction before attempting to wire up the device.
3. This product is for installation only by a qualified Electrician

The remotes included in the pack are already programmed and ready to use. Zone 1 (button A) and Zone 2 (button B) can be operated independently in latching or timed mode. Default configuration for Zone 1 & Zone 2 is latching.

4. Antenna – Fit a 25cm length of insulated wire to the Antenna terminal. Best to use single stranded stiff copper wire, 1 or 2mm$^{2.}$ Direct wire as near to vertical as possible.

Zone Configuration:

ZONE 1

Latching - remove the jumper on terminals 1 and 2
Timed - insert the jumper on terminals 1 and 2

ZONE 2

Latching - remove the jumper on terminals 2 and 3
Timed - insert the jumper on terminals 2 and 3

Learning in Remotes and Wireless devices:

ZONE 1

1. *Press key P1 on the control unit once to program Relay 1 – Zone 1; the LED will remain on.*
2. *Press and hold a key to be learnt on the remote unit until the LED on the main control unit starts to flash; release the key.*

Z ONE2

1. *Press key P1 on the control unit twice to program Relay 2 - Zone 2; the LED will remain on.*
2. *Press and hold a key to be learnt on the remote unit until the LED on the main control unit starts to flash; release the key.*

Setting the Relay On Time: *Only if TIMED MODE is used up to 4 minutes on time.*

ZONE1

1. *Press key P2 on the main control unit **once** to set the Relay On Time for Zone 1, the LED will come on.*
2. *Wait a length of time equal to the desired Relay On Time to be set for Zone 1, after which press key P2 again.*
3. *The LED will flash three times to confirm.*

ZONE2

1. *Press key P2 on the main control unit **twice** to set the Relay On Time for Zone 2, the LED will come on.*
2. *Wait a length of time equal to the desired Relay On Time to be set for Zone 2, after which press key P2 again.*
3. *The LED will flash three times to confirm.*

DELETING Remotes or Wireless devices:

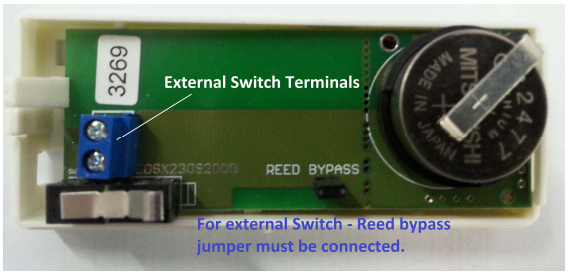
Deleting an individual remote or wireless device:

1. *Press and hold key P1 on the main control unit for 5 seconds (release the key); the LED will remain on.*
2. *Press the key on the Remote or trigger the wireless device to be cancelled until the LED begins to flash.*

Deleting all remotes and wireless devices:

1. *Press and hold key P1 on the main control unit for approx. 10 seconds, the LED will come on, then release the key.*
2. *The LED will emit 3 flashes to confirm the deletion of all the codes.*

Universal Wireless Transmitter:



- The universal wireless transmitter can be used to trigger the ENSA-RS1 Remote Switch from any dry contact switching device such as a door or gate open reed, proximity or limit switch.
- The reed bypass jumper must be connected for the external switch terminals to function.
- Wire to dry contacts only no voltage is to be applied to the terminals.
- Range, up to 200 meters line of sight depending on conditions.

PIR Wireless Sensor:

The Dual Head PIR mounting.

- Select suitable flat surface to mount PIR mounting box to house the Universal Transmitter. The position should allow good view of area to be protected.
- Ideal mounting height 0.8 to 2.5 meters.
- 12 meters detection range.
- Fig 1 & 2 Complete PIR showing mounting box, Dual Heads and Universal Transmitter

- Fig 3. Mounting Box showing Tamper PIN:

- After selecting a suitable site for the PIR, mark out and drill mounting holes for mounting box.
- Insert the Tamper Pin from the rear as show above then mount the Box.
- Fit the PIR and the weather cover to the mounting box with the 3 screws provided. Take care that wires to the universal transmitter are not pinched.
- For configuration of the PIR see separate instructions