

ESR-2 ON/OFF RECEIVER (12 volt version)

Housed in a weather proof enclosure the ESR-2 wireless receiver is powered by 12volts DC and provides volt free change-over relay contacts

The ESR-2 will operate with the following transmitters. EST-1. ESF-1,2&4. ESD-1,2&3

Learning the switch code.

- STEP1. Screw the aerial provided to the screw fitting at the top of the receiver enclosure.
- STEP2. Connect the 12 volt DC supply to the input terminals (observing the correct polarity) and switch on the power.
The LEARN led will flash three times indicating correct operation.
- STEP3. Press the LEARN button. The learn LED will light.
- STEP4. Operate the wall switch or key fob button which is to work with this receiver.
The learn LED will flash and go out indicating that the code has been learnt.
Operate the switch again and observe the OUTPUT LED which indicates what condition the relay is in. IE: Closed or Open.

Range testing.

Do not fit the wall switch or receiver permanently in position until a range test has been successfully completed.

Fixing and wiring.

Screw the receiver to the wall by inserting two no8 3/4" screws into the fixing holes. The receiver must be fitted vertically with the aerial at the top and the cable glands at the bottom. Pass a supply two core cable through one glad and tighten to provide anchorage and weather resistance. Connect the cable to the terminals marked POSATIVE and NEGATIVE and apply a regulated 12 volts DC supply. The receiver is internally fused at 5 amps however it is recommended that the supply circuit is also fused.

The contacts marked N/C, Common & N/O are volt free and may be connected to a garage door system. Most electric doors have a push to make button to operate them. If this is the case connect the N/O and Common contacts across this switch.

Mode selection.

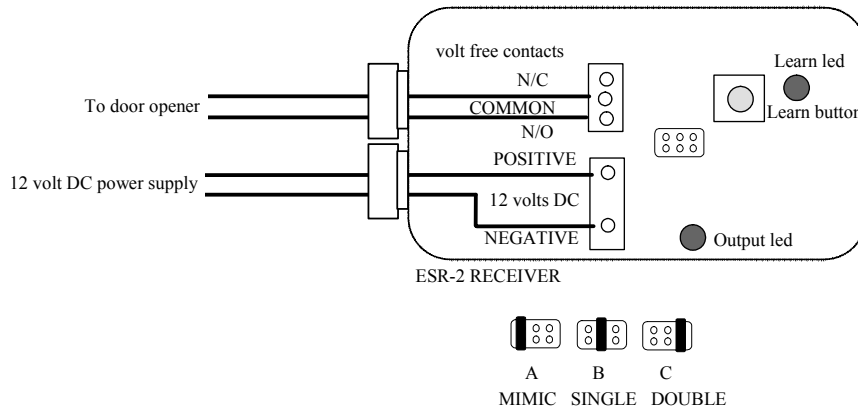
The receiver has two modes to choose from and these are selected by inserting or removing a link as shown on the diagram.

Mode A with link fitted to **MIMIC** pins. (Use with ESF1 2 or 4 only). In this mode the relay contacts will mimic the button operation on the key fob. The contacts will close when the button is pressed and open when the button is released.

This mode is mainly used for electric door and gate operation.

Mode B. Mode B is for single switch operation. In this mode with the switch ON the light will be ON.

Mode C. Mode C is for two way switching. In this mode it does not matter which position the switch is in. Any switch which is operated will reverse the action of the previous switch.



Aerial.

To achieve the best range results you will need to fit the receiver where it has the least amount of obstacles between it and the transmitter. The aerial must be vertical as shown and the higher the receiver is placed above ground level the greater the range will be. The same applies to the transmitter. Do not fit the receiver on or in metal objects as this will seriously affect range. Keep cables away from the aerial. With a clear line of site and with both the transmitter and receiver at 2 metres high transmission ranges of 250 metres and beyond are possible. For greater ranges it is necessary to use special aerials on the transmitter and receiver. See the web site or contact us directly for further details.

Set-up notes.

1. The battery is not required after range testing has been completed.
2. The receiver can learn up to 16 switches and/or key fobs
3. The receiver will retain the learned codes even if the power is removed
4. To flush the memory, simply press and hold the learn button until the led goes off. This takes about 5 seconds.
5. The OUTPUT led mimics the switch action. This is especially useful when range testing with a battery.

Technical data:

Operating voltage 12 volts DC
 Relay switch rating 5 amps @ 30VDC
 Temperature range -10 to +40C
 Enclosure IP66 Polycarbonate
 Standards BS EN 60669

Contacts:

For a list of authorised distributors, technical support, application notes and details of new products please contact us at:

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