

Wireless Single Channel Receiver

The Wireless Single Channel Receiver works in conjunction with all other products in the Light Ideas Remote Switching System range.

The unit has 1 relay rated at 10A maximum.



The Wireless Single Channel Receiver can learn up to 127 mixed transmitters.



The memory is non-volatile and will not be lost if the power fails.



The Wireless Single Channel Receiver will operate up to a distance of up to 200 metres line of sight from any of the Light Ideas transmitters.

Transmitters

Wall Switch Transmitters: Wireless wall switch.

Key Fob Transmitter: Wireless key fob, (1 button version).



Aerial Connection

The aerial supplied screws directly into the controller on the top of the unit, this should screw in until finger tight.



The aerial will not function as it should if positioned near metal work or cables etc

Installation



IMPORTANT: All wiring must be carried out by a qualified electrician in accordance with IEE and part P regulations.

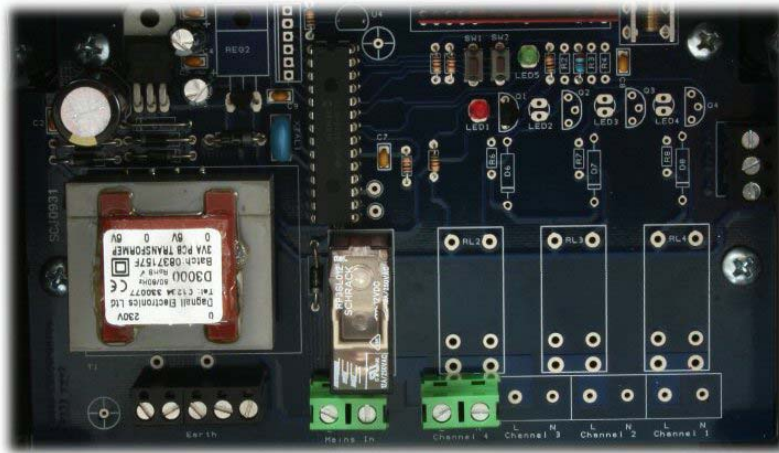
This product is IP65 rated and may be fitted outdoors. Choose a suitable position for easy wiring but make sure that the aerial is clear of obstructions and metal objects. The cable glands must face down and the aerial upwards.

There is no need to remove the circuit board from the enclosure. Mark through the fixing holes and drill holes, offer the box to the wall & Pass the fixing screws provided through. Seal these screws with a suitable waterproof sealant to maintain the IP rating of the enclosure.

This product can switch up to a maximum of 1KW; 10A. The switch capacity has a maximum 2KW resistive load.

The mains supply should be from a fused spur or consumer unit and be fused correctly according to the load. Pass a round 1.5mm flex through the left hand gland and tighten to provide cable restraint and a waterproof seal. Maximum outside diameter 8mm. Connect the live and neutral to the mains IN terminal as shown. Slacken the gland and remove the bung to enable round 1.5mm cable to be passed through. Tighten the gland to provide a waterproof seal and cable restraint. Connect the cable to the channel output as shown. Ensure that the load does not exceed the maximum rating.

The earth block is common and purely used as a convenient means of connecting all the earths.



Single Channel Receiver internals

Operation

1. When power is connected to the receiver the green LED flashes twice. The receiver is now ready to operate with the transmitter supply.
2. Press the button on the transmitter, a relay should turn on and a red LED light for the corresponding channel.
3. Press the button again and the LED and relay should turn off.
4. Mimic Mode – A single press on the key fob will turn the receiver on and off, but if you hold the button on the key fob ON the receiver will stay on for as long as the button is pressed, as soon as the button is released the RF receiver will turn the relay off.

Additional Transmitters

1. Remove the lid of the controller.
2. Press SW1 on the PCB, (left hand switch of the two) the green LED will flash twice
3. Press a button on the transmitter you wish to add, the green LED will flash once.
4. Press SW1 on the PCB, the green LED will flash twice.
5. This will have added the new transmitter into the receiver's memory. Check operation by pressing a button on the transmitter.
6. Replace the lid of the receiver when finished.

Single Channel Wireless Receiver Specifications



RF Input:	433.92Mhz 10m/W
Antenna Connection:	Screw in
Antenna:	433Mhz 1/4 Wave (Included)
RF Range:	100—200m Line Of Sight
Learning Capacity:	127
Number Of Channels:	1
Operating Voltage:	220-240 Volts 50Hz
Relay Contact Ratings:	10A
Maximum Switch Rating:	1KW Total (16 Amps)
Enclosure:	ABS L160mm W120mm D90mm
IP Rating:	IP65