

395-5953 (6310-1114-1600)	Model Number	395-5969 (6310-1124-1600)
1 Channel Infra Red Transmitter	Description	2 Channel Infra Red Transmitter
PMMA (Plexiglass®)	Material	PMMA (Plexiglass®)
IP54	Protection	IP54
65 grams	Weight	65 grams
±45° of receiver centre line	Operational Angle	±45° of receiver centre line
Up to 20 Metres (reduced in high ambient light)	Range	Up to 20 Metres (reduced in high ambient light)
+5°C to +55°C	Temperature Range	+5°C to +55°C
3 Vdc (2 x AAA batteries)	Power Supply	3 Vdc (2 x AAA batteries)
Outputs 5, 6, 7 & 8	Control Outputs switched by the Transmitter	Outputs 5, 6, 7 & 8

- * Line of sight helps to avoid unintended operation
- * No problems caused by by tangled control cables
- * Complies with Low Voltage Directive and EMC Directives

The hergalite™ infra-red remote control systems provide a reliable and secure method of electrically controlling functions without the requirements or limitations of cabling.

The transmitter is powered by 2 1.5 volt AAA batteries, supplied with the transmitter but not fitted.

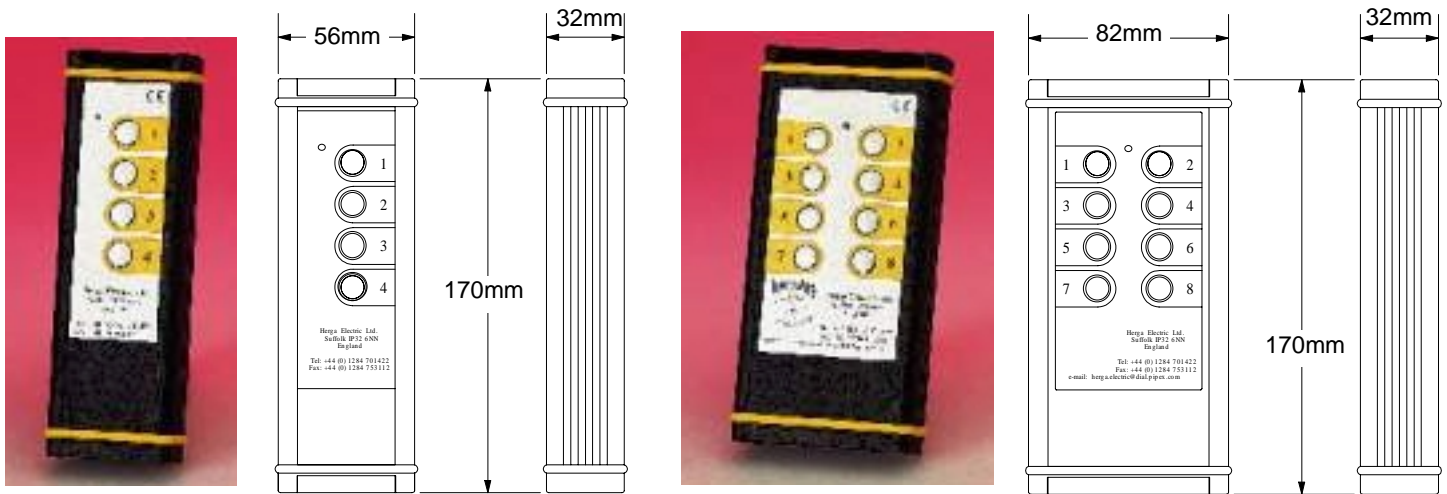
These transmitters are designed to be used with the hergalite™ single or dual channel Remote Controls.

To enable either of these transmitters to be used with the 8 Channel Infra Red Remote Control **397-0031** (6311-1183-3500), the address coding switch SW1 in the control must be set with all eight switches in the **ON** position.

Outputs not required on the 8 Channel Control may be disabled by removing the **Momentary/Latching** selection header on the Printed Circuit Board in the Control.

Remote Receivers may be connected to the controls, in addition to the internal receiver, to extend the transmission area or make the installation and associated wiring simpler and easier.

For full details of the control refer to the section at the end of this data sheet.



395-5925 (6310-7141-1600)	Model Number	395-5931 (6310-7181-1600)
4 Channel Infra Red Transmitter	Description	8 Channel Infra Red Transmitter
Aluminium Extrusion and Diecast	Material	Aluminium Extrusion and Diecast
IP65	Protection	IP65
250 grams	Weight	320 grams
±45° of receiver centre line	Operational Angle	±45° of receiver centre line
Up to 20 Metres (reduced in high ambient light)	Range	Up to 20 Metres (reduced in high ambient light)
+5°C to +55°C	Temperature Range	+5°C to +55°C
9 Vdc (PP3 battery)	Power Supply	9 Vdc (PP3 battery)
Transmitter address switch 8 ON Outputs 1, 2, 3 & 4 Transmitter address switch 8 OFF Outputs 5, 6, 7 & 8	Control Outputs switched by the Transmitter	Outputs 1, 2, 3, 4, 5, 6, 7 & 8

- * Line of sight helps to avoid unintended operation
- * No problems caused by tangled control cables
- * Complies with Low Voltage Directive and EMC Directives

The hergalite™ infra-red remote control systems provide a reliable and secure method of electrically controlling functions without the requirements or limitations of cabling.

These transmitters are powered by a 9 volt PP3 battery, supplied with the transmitter but not fitted.

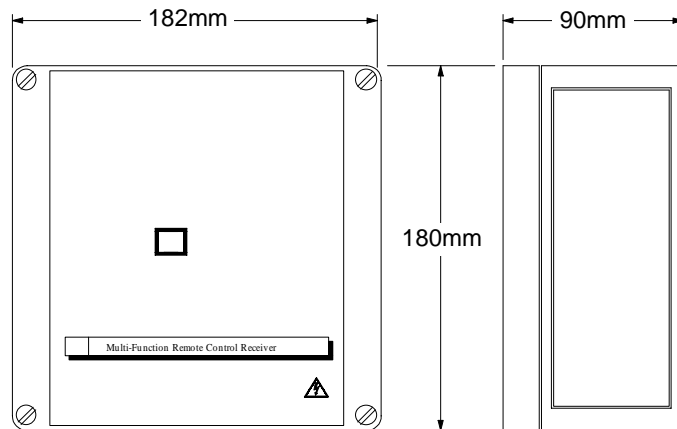
To enable either of these transmitters to be used with the 8 Channel Infra Red Remote Control **397-0031** (6311-1183-3500), the address coding switch SW1 in the control must be set with switches 1 to 7 set to the same pattern as the address

coding switch in the transmitter. For full details of the address code setting, refer to the Instruction Manuals supplied with the transmitter and control.

The 4 Channel Transmitter **395-5925** (6310-7141-1600) is designed to operate with the hergalite™ 4 Channel Control. However when using this transmitter with the 8 Channel Control, switch 8 of the address coding switch in the transmitter determines which four outputs of the control are functioning (see the table above).

Remote Receivers may be connected to the controls, in addition to the internal receiver, to extend the transmission area or make the installation and associated wiring simpler and easier.

For full details of the control refer to the section at the end of this data sheet.



Model Number	397-0031 (6311-1183-3500)
Description	8 Channel Infra Red Remote Control
Supply Voltage	12 - 24 Vdc or 110 - 240 Vac 50 - 60 Hz
Power Consumption	6 Watt
Output Channels	Single Pole Changeover Contacts on each channel Rating 10 A @ 110 Vac 7 A @ 240 Vac 7 A @ 30 V ac/dc
Material	Polystyrene
Protection	IP66
Weight	870 grams
Operational Angle	±45° of receiver centre line
Temperature Range	+5°C to +55°C

- * Line of sight helps to avoid unintended operation
- * No problems caused by by tangled control cables
- * Complies with Low Voltage Directive and EMC Directives

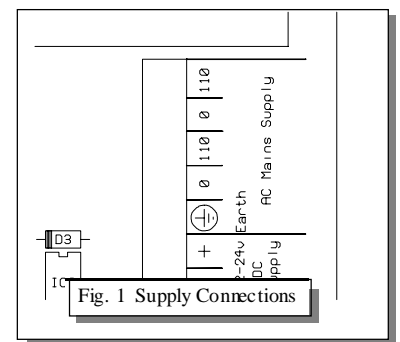
To allow the greatest flexibility in installation, the control housing is not fitted with any cable glands.

By unscrewing the four lid retaining screws of the control housing, the lid, complete with the control electronics, may be removed. This allows unhindered machining of the housing for suitable cable glands to be fitted.

Various mounting options are available, through the base of the housing or through the corners. When mounting through the base of the housing, the sealing caps provided must be used. Both these options allow the high environmental protection to be maintained.

Mounting Dimensions	
Base Mounting	Corner Mounting
120 x 50 mm	165 x 95 mm

For 110 volts AC, the supply is connected to both 0 and 110 volt terminals of the AC Mains Supply, i.e. parallel connection of the transformer.



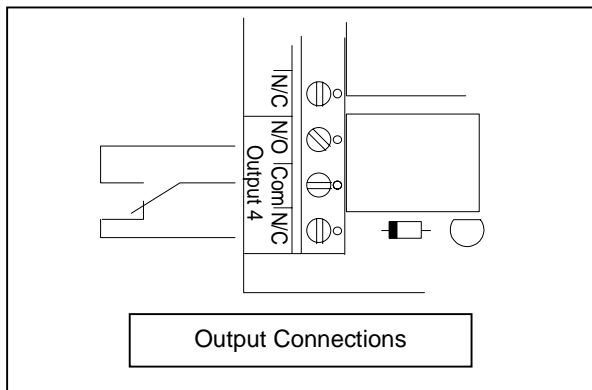
For 220/240 volts AC, the supply is connected to the lower 0 volt terminal and the upper 110 volt terminal and a shorting wire connected between the middle 0 and 110 volt terminals of the AC Mains Supply, i.e. series connection of the transformer.

For 12 to 24 volts DC, the supply is connected with the negative (-) supply to the - terminal and the positive (+) supply to the + terminal of the 12-24 vDC input.

It is recommended that the power supply to the control is fused at the following ratings:

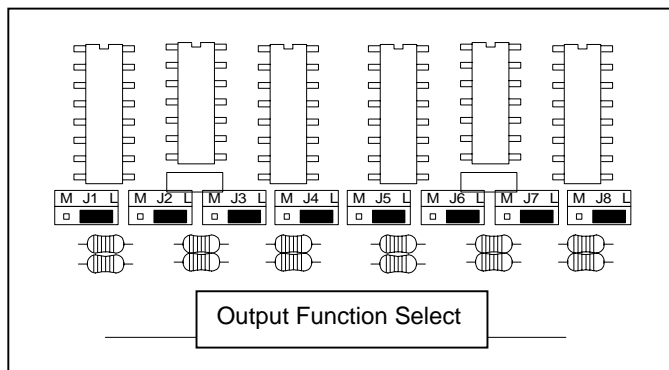
Power Supply Fusing	
110 volts AC	315 mAmp
220/240 volts AC	150 mAmp
12-24 volts DC	500 mAmp

The output relays have a single pole Changeover contact available. This contact configuration permits a variety of control functions and/or interlocking to be achieved.

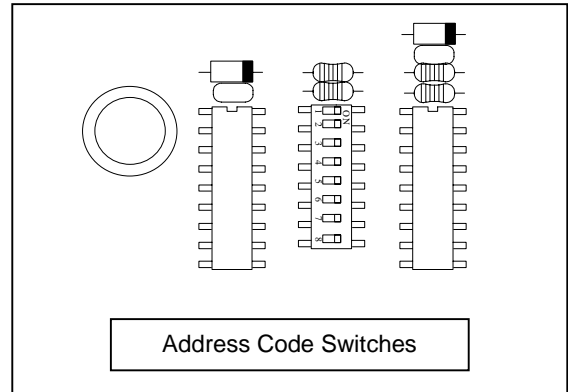


Individual relay outputs can be configured to be Momentary or Latching. The default function, from the factory, is set to Momentary.

To convert any output to the Latching function, identify the links on the control Printed Circuit Board marked **M J1 L** to **M J4 L**. Move the shorting link on the required output(s) from the left and centre pins to the centre and right pins.



When the power is switched off, and when the power is switched on all the relays will default to their Normally Closed condition.



If more than one system is to be used in close proximity, each system can be set to a unique code such that one transmitter will not operate the other control. This facility can also be used for low level security purposes.

There are 128 separate codes that may be used.

Locate the 8 pole switch SW1 in the centre of the control Printed Circuit Board. Each of the switches 1 to 7 can be set **ON** or **OFF**.

These switches represent a binary code.

Set each of the switches either **ON** or **OFF** either in a different pattern to those of other systems or in a random pattern as required.

The transmitter must now be set to the same code otherwise the system will not operate.

If the control is to be used with a Remote Receiver, the cable from the receiver is connected to the Remote Receiver inputs (See Fig. 1).

The cable connections are:

Cable Core	Terminal
Black or Blue Core	Sig
Red Core	+
Screen	-

More than one Remote Receiver may be used as required; their connections are as above and may be wired directly to the control or connected to a common cable (bus). The connections are in parallel. The cable used must be a twin core screened cable.