

Features

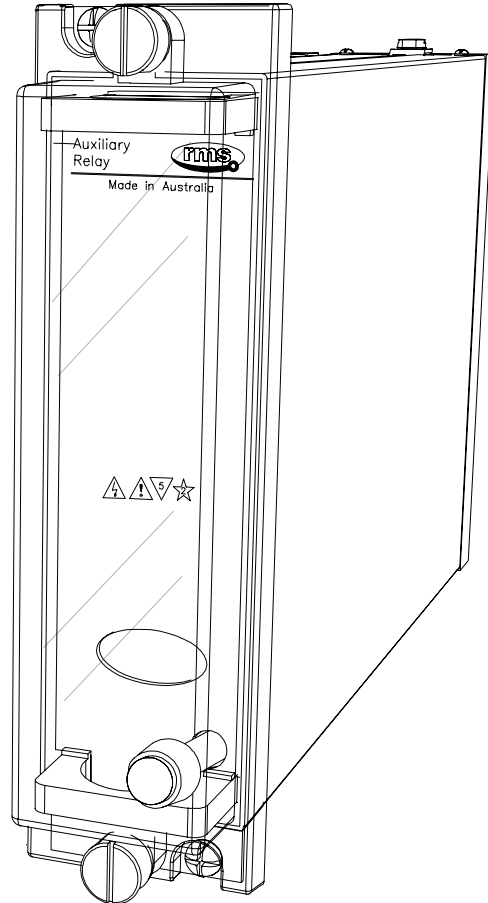
- Wide range of battery voltages catered for
- High sensitivity
- 2L11 model differentiates between positive & negative earth faults
- Low burden
- Fast operate time
 <35 ms with zero resistance E/F
- High output contact rating with optional magnetic arc blowouts
- Optional hand reset flag
- Size 2M draw out case

Application

Sub-station battery supplies are critical to the correct operation of critical protection & other functions. The 2L10 & 2L11 are designed to operate on earth faults or degradation of the insulation to earth of a battery or other DC supply which has neither pole connected to earth.

The relay earths the battery through a high resistance with a consequent limit to the earth fault current.

It should be noted that the relay will not operate for an earth fault to the centre of the battery.



2L10 depicted in a 2M28 case

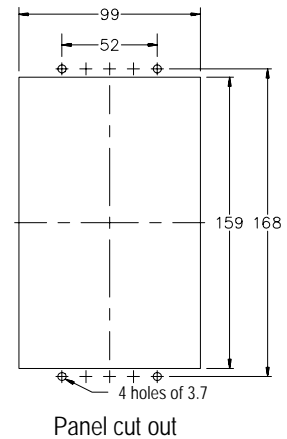
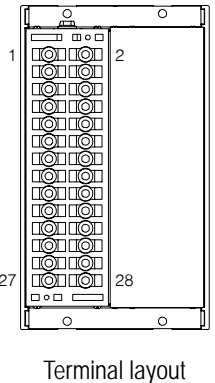
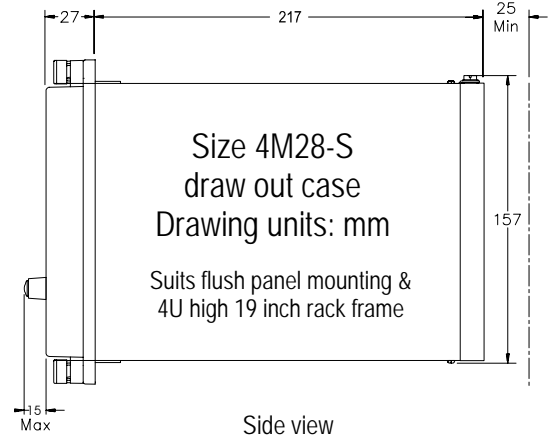
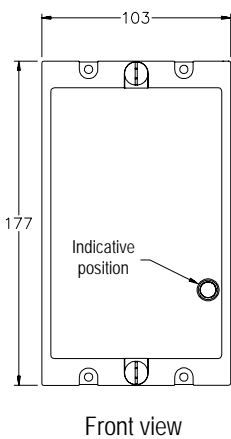
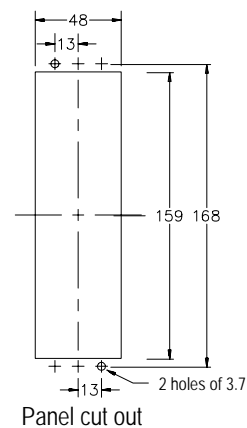
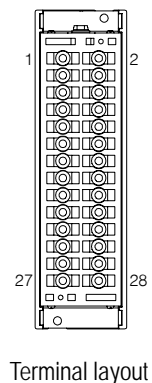
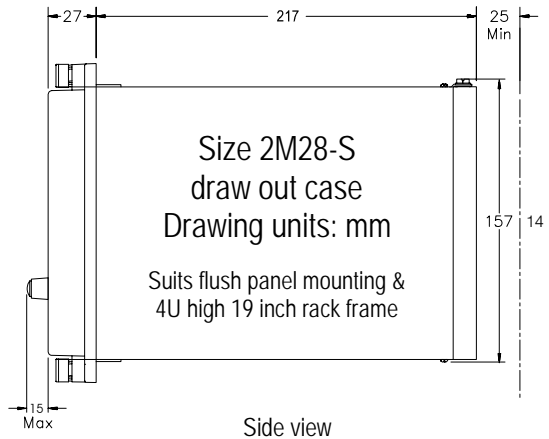
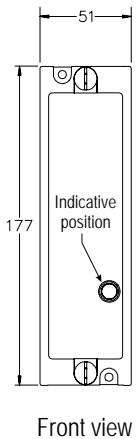
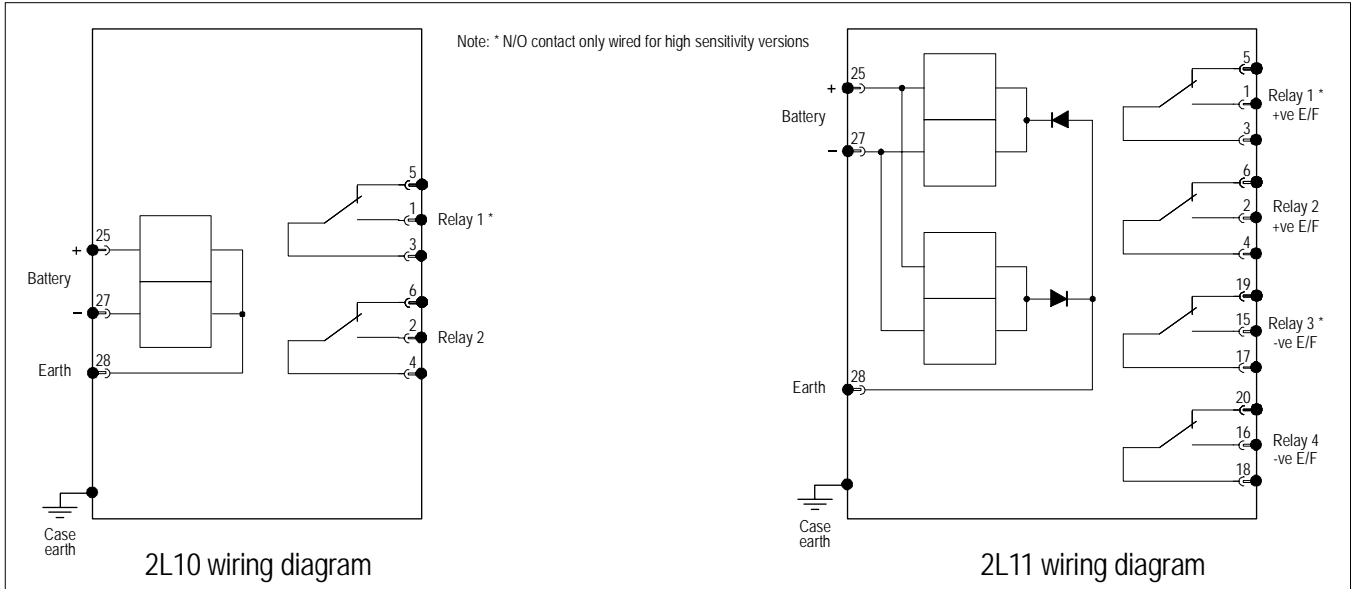
Operation

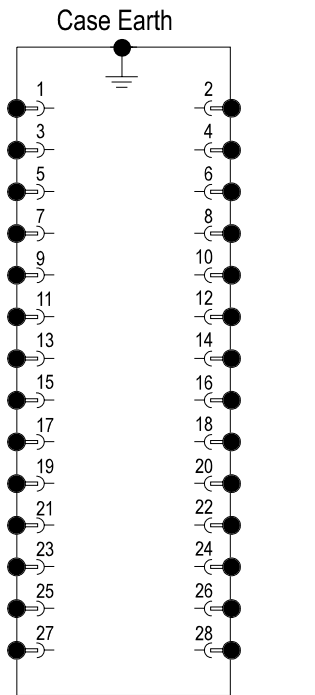
Made in Australia

The 2L10 & 2L11 Series relays are double wound relays suitable for connection across a battery with the coils in series opposition, the centre tap being connected to earth. For a battery without an earth fault the relay remains inoperative due to the opposing coils. For an earth fault the centre earth connection shorts one coil & produces full voltage on the other thus operating the relay. The relays are rated to withstand an earth fault continuously.

The **2L10** relays are single relays which operate on earth faults of either polarity.

The **2L11** relays comprise two relay elements, one operates on positive earth faults & the other on negative earth faults.





2M28 Case terminations (REAR VIEW)

Ordering Information

ORDER CODE

The order code determines the production build in the factory & cannot be changed in the field.

Generate the required order code as follows: e.g. 2L10-EAAA

General Type	Order Code				
	1	2	3	4	5
2L1	-				

1 ELEMENTS PER CASE

- 0 One element
- 1 Two elements

2 BATTERY SUPPLY

- | | |
|---------------------|---------------------|
| A 12V DC | B 24V DC |
| C 32V (30-32) DC | D 50V (48-50) DC |
| E 110V DC | F 125V (120-125) DC |
| G 240V (200-250) DC | |

3 TRIP FLAG

- A Hand reset flag
- B No flag fitted

4 SENSITIVITY

- A Standard
- B High

5 MAGNETIC BLOWOUTS

- A Not required
- B Required

Australian Content

Unless otherwise stated the product(s) quoted are manufactured by RMS at our production facility in Melbourne Australia. Approximately 60% of our sales volume is derived from equipment manufactured in house with a local content close to 90%. Imported components such as semi-conductors are sourced from local suppliers & preference is given for reasonable stock holding to support our build requirements.

Quality Assurance

RMS holds NCSI (NATA Certification Services International), registration number 6869 for the certification of a quality assurance system to AS/NZS ISO9001-2008. Quality plans for all products involve 100% inspection and testing carried out before despatch. Further details on specific test plans, quality policy & procedures may be found in section A4 of the RMS product catalogue.

Product Packaging

Protection relays are supplied in secure individual packing cardboard boxes with moulded styrene inserts suitable for recycling. Each product & packing box is labeled with the product part number, customer name & order details.

Design References

The products & components produced by RMS are based on many years of field experience since Relays Pty Ltd was formed in 1955. A large population of equipment is in service throughout Australia, New Zealand, South Africa & South East Asia attesting to this fact. Specific product & customer reference sites may be provided on application.

Product Warranty

All utility grade protection & auxiliary relay products, unless otherwise stated, are warranted for a period of 24 months from shipment for materials & labour on a return to factory basis. Repair of products damaged through poor application or circumstances outside the product ratings will be carried out at the customer's expense.

Standard Conditions of Sale

Unless otherwise agreed RMS Standard Terms & Conditions (QF 907) shall apply to all sales. These are available on request or from our web site.



Relay Monitoring Systems Pty Ltd

6 Anzed Court, Mulgrave, Victoria 3170, AUSTRALIA

Tel: +61 3 8544 1200 Fax: +61 3 8544 1201 Email: rms@rmspl.com.au Web: www.rmspl.com.au