

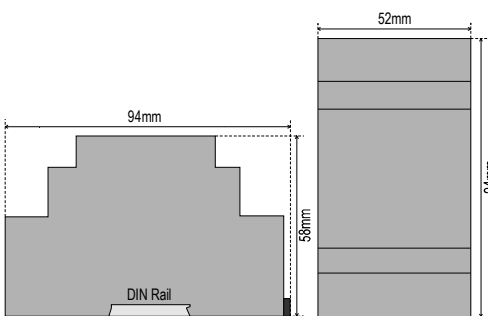


- Insulation relay for non-grounded live DC systems
- Self powered from any input from 12 to 60VDC
- For both battery and power generated DC networks
- “SEV” measuring principle
- For use in land, marine and offshore installations

Specifications

Network Voltage:	12-60VDC
Contact rating:	AC: 100VA - 250V/2A max. DC: 50W - 100V/1A max.
Trip level adjustment:	5 to 110kohm
Trip delay:	Fixed 3 secs.
Accuracy:	5% of full range
Temperature:	-20 to +70°C
Weight:	0.1kgs
Front protection:	IP41
Dimensions:	L: 52mm, H: 94mm, D: 58mm

Unit meets IEC60092-504 and relevant environmental and EMC tests specified in IEC60068/60092 and IEC61000/60533 respectively, to comply with Classification Societies requirements.



Description

The digitally controlled low cost KRM169E is self powered and uses the Megacon “SEV” insulation measuring principle to measure the insulation in live non-grounded DC systems.

The resultant insulation level is measured between the complete galvanically interconnected DC network and its protective earth. The signals flow to ground via the path of the insulation fault, the **level** of flow expresses the insulation resistance, the **direction** of flow expresses the fault polarity.

The high measuring **accuracy** and trip **repeatability** of the KRM169E is not influenced by variation of the DC voltage level (including imposed AC ripple) between 12 and 60VDC, or by **symmetrical** earth faults. The measuring method does not support corrosion.

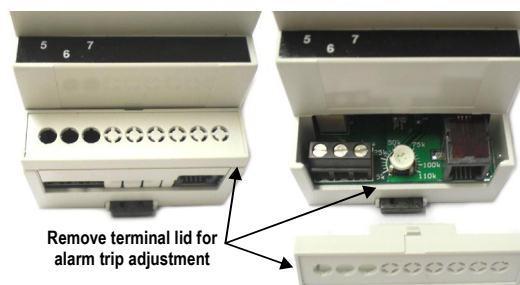
Alarm relay output

The alarm relay is fail-safe and energises when powered. The relay trip level is adjustable between 5 and 110kohm with a fixed alarm delay of 3 seconds. Remove the lower terminal lid for access to the trip level adjustment. The relay will automatically return to the normal state when the insulation level is above the trip level.

Faulty polarity “Pathfinder” function

The LED continuously shows the condition of the insulation:

- Normal (High Insulation) : Steady Green LED ●
- Positive fault : Flashing Red LED ⬮
- Negative fault : Steady Red LED ●



Remove terminal lid for alarm trip adjustment

