

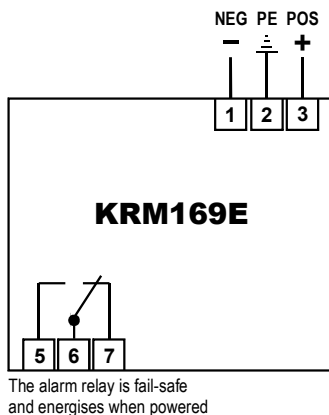
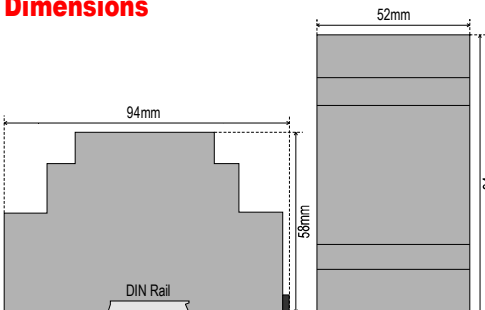


- Insulation relay for non-grounded live DC systems
- Self powered from any input from 12 to 60VDC
- For both battery and power generated DC networks
- “SEV” measuring principle
- For use in land, marine and offshore installations

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:	IP20

Dimensions



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

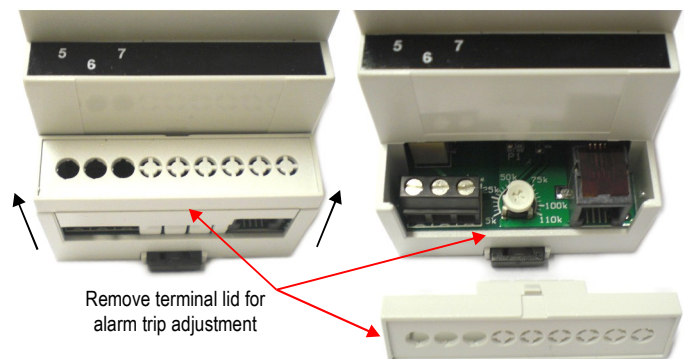
The alarm relay is fail-safe and energises when powered. The relay trip level is adjustable between 5 and 110kohm with a fixed alarm delay of 3 seconds.

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 ●



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

The MEGAICON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.

ORDERING EXAMPLE:

Type : KRM169E
Monitored Voltage : 12-60VDC
Trip level : 5 to 110kohm

