



4 Zone – 8 Sensor Arc Fault Monitor

1S25

Arc fault protection is a relatively new technique employed for the fast clearance of arcing faults on BUS bars & within metal clad switchgear & associated cable boxes. The arc is detected using an optical sensor & the signal input to a protection device which also monitors the load current on the system. A trip signal can be achieved in less than 10ms using arc detection only. This is considerably faster than a traditional IDMT overcurrent relay & provides additional protection from the onset of arcing faults with relatively low fault currents.

EXISTING SWITCHGEAR

Where a requirement exists to retrofit arc fault protection to metal clad switchgear utilizing the existing overcurrent protection relay. For the outgoing feeders arguably the greatest risk of arc fault damage exists at the CB cable termination & in the CB chamber itself due to the slow clearance times of the IDMT feeder protection. The CB cable termination is particularly at risk to ingress of moisture & rodent damage.

NEW SWITCHGEAR

Where a requirement exists to install arc fault protection to new switchgear for integration with the customer preferred overcurrent feeder protection relay.

LOW VOLTAGE PANELS

Arc fault protection may also be applied on low voltage panel control boards & motor control centers (MCC's).



View this product at: www.rmspl.com.au/1s25.htm

4 Zone – 8 Sensor Arc Fault Monitor

- > Four independent arc fault tripping zones
- > 1 or 2 1S30 arc fault sensors per zone allowing up to 8 arc fault sensors per 1S25 module
- > Trip indication LED for each arc fault monitoring zone
- > Non volatile memory ensures last recorded alarm states are restored on power up
- > Nine (9) high speed arc fault tripping duty output contacts (Set for latching or self reset)
- > Zone segregated or common tripping output configuration
- > Continuous arc sensor supervision with sensor fail LED for each zone
- > Wide range status input to block arc fault monitoring
- > Front panel reset button & status input
- > Self supervision watchdog with healthy LED & alarm contact
- > Built in test sequence
- > Wide range auxiliary supply
- > Made in Australia