

# Arc fault monitor

1S20

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 or within 15ms when using overcurrent check. This is considerably faster than a traditional IDMT overcurrent relay & provides additional protection from the onset of arcing faults with relatively low fault currents.

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.

The problem of arc faults is most prevalent in older metal clad switchgear which already has operational protection systems. The 1S20 Arc Fault Monitor has therefore been designed for the following applications:

### Existing switchgear

Where a requirement exists to retrofit arc fault protection to metal clad switchgear utilizing the existing overcurrent protection relay;

### New switchgear

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



View this product at: [www.rmspl.com.au/1s20.htm](http://www.rmspl.com.au/1s20.htm)

## 1S20 Arc fault monitor

- > Compact, economic design
- > Simple panel mounting for retrofit applications
- > Two or three arc sensor inputs
- > Two high speed tripping duty arc sense output contacts
- > Push button reset
- > Integrated self supervision
- > Fail alarm contact
- > 20-60 & 36-150V DC auxiliary versions
- > 1S30 arc fault sensor with 1 or 2 optical detectors
- > 1S25 arc fault monitor with 8 sensors over 4 zones
- > 1S26 arc fault monitor with integrated current check
- > Made in Australia

Phone: **+61 3 9561 0266**

NSW: **02 9757 2678**

Email: **rms@rmspl.com.au**

**www.rmspl.com.au**