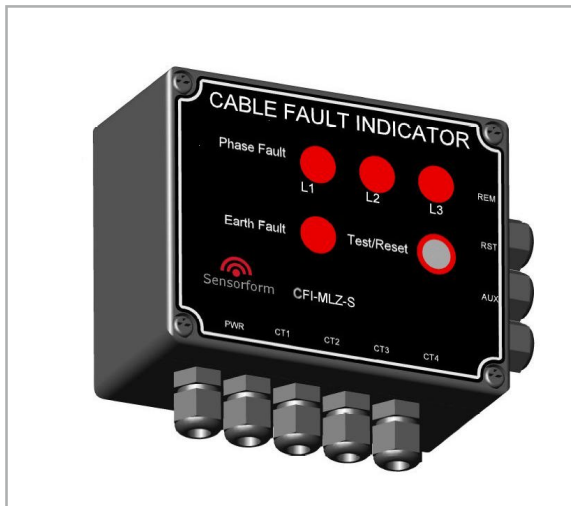




suparule



CFI-MLZ-S

Cable Fault Indicator with Flashing LEDs

- Short-circuit & Earth Fault detection and indication
- User-selectable trip levels
- Powered from mains supply 110V-240V AC
- High brightness LED primary indicators
- Automatic reset of fault state when mains power is restored
- Manual reset of LED by Test/Reset button & remote input
- LED-based Remote Indicator (optional)
- Aux Relay contact for remote alarm generation (optional)

DESCRIPTION

The Sensorform CFI-MLZ-S is one of a family of Cable Fault Indicator products that are designed to assist in the rapid location and isolation of faults on high voltage underground networks (1-36kV) in single-sided feed or open ring main systems. When an asymmetrical current greater than 50A in a 3- phase cable is detected an earth fault is indicated by means of a flashing LED (Light Emitting Diode) indicator. Similarly, if there is a short-circuit between phases, or between one or more phases and earth, a short-circuit fault on the effected phase is indicated by means of flashing LED(s).

Three current sensors are connected to the CFI Control Unit using fibre-optic cable, which provides extra immunity from interference from local magnetic & electrical fields. One current sensor is fixed around the three phases of the cable system being monitored and will detect a current imbalance due to an earth fault. A current sensor is also fixed around two phase conductors, and will detect when the current in that phase exceeds a preset level. In combination with the earth current sensor, faults in all three phases are detected. Optionally, a third CT can be connected to the third phase. Trip levels for both earth fault and phases faults are user-selectable via DIL switches in the control unit.

An optional LED connected to the control unit can provide fault indication in a remote location.

An auxiliary relay contact is also provided as an optional extra for signaling a fault to other systems.

The unit will automatically reset from a faulted state on return of the mains voltage. Alternatively, the unit can be manually reset via a push button on the control unit. There is also the option to connect an external switch/relay to provide the facility for remote reset of the unit. The unit can also be set to automatically reset after a user-selectable time delay.

Suparule Systems Ltd.,
Suparule House,
Lonsdale Road,
National Technology Park,
Limerick,
Ireland.

Ph.: +353 (0) 61 201030
Fax.: +353 (0) 61 330812
Web: www.suparule.com
Email: info@suparule.com

SPECIFICATIONS

Power Source:	Mains Supply 110-240V AC +/- 20% 50-60Hz
Network Volt. Range:	1-36kV +/- 10%
Impulse Voltage Withstand:	10kV, 1.2/50µS waveform
Earth Fault Trip Current:	3 user-selectable factory set levels, default: 50-80-120 A
Phase Fault Trip Current:	3 user-selectable factory set levels, default: 300-500-700A
Trip Current Accuracy:	+/- 10%
Primary Indication:	Flashing LED
Inrush Rejection:	80mS
Min. Fault Duration:	1 cycle
Manual Reset:	Push button on front panel
Mains Reset Period:	10 Seconds after mains restore
Auto timed Reset period:	User-selectable 4 or 8 Hr
Manual Self-Test:	Push button on front panel
Operating Temp. Range:	-40° C to +80° C
Operating Hum. Range:	0-100% RH
Dimensions:	115mm x 90mm x 55mm
Degree of Protection:	IP65
Mass:	300g
Current Sensor Diameter:	Standard CT100: 100mm Optional CT150: 150mm Optional CT300: 300mm
Remote Indicator (optional)	Flashing LED
Indication Method:	M12 Hex Bolt 50mm long
Dimensions:	
Auxiliary Relay (optional)	Latching, N/O on reset
Type:	220VDC, 250VAC, 2A
Rating:	2-core, 0.5mm ² , dble Insul.
Lead type:	2 Years
Standard Warranty Period	
Remote Reset (optional)	Normally Open Switch input
Type:	3 sec minimum
Activation time:	