





Earth Fault Indicator, CT powered, with Flashing LED Indicator

- Powered from CT attached to one of the Phases
- High brightness LED primary indicator
- Automatic reset of fault state when power restored
- Manual reset of LED by Test/Reset button on front panel
- LED based Remote Indicator (optional)
- Aux Relay contact for remote alarm generation (optional)

DESCRIPTION

Sensorform EFI-CLZ-50 is one of a family of Earth Fault Indicator products that are designed to assist in the rapid location and isolation of faults on high voltage 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. The CLZ-50 is powered from load current flowing in one of the phases of the HV cable using a split core current transformer mounted on the screened part of the cable.

For Earth Fault Detection, a 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. An earth fault trip is indicated by a flashing LED indicator on the unit, together with a second LED based Remote Indicator (optional). An auxiliary relay contact is also provided as an optional extra for signaling an alarm to other systems. In an open ring network the path of the fault current from the feeding point to the fault location is marked by the triggered EFI's. The defective conductor segment is located between the last EFI that has been triggered and the first FFI which is still inactive

FEATURES

- Powered from CT attached to one of the Phases
- Primary LED indicator
- Automatic reset of fault state when mains power is restored
- Manual reset of LED by Test/Reset button on the front panel
- CT100 Current Sensor (standard)
- CT150 Current Sensor (optional)
- CT300 Current Sensor (optional)
- LED based Remote Indicator (optional)

Distributor:

SPECIFICATIONS

General

Power Source: CT on Current Carrying Phase Network Volt. Range: 1-36kV

Impulse Voltage 10kV, 1.2/50µS waveform **Withstand:**

CT Power Supply charging 8 min at 50A phase current

time: CT power Supply range: 10A to 600A phase current

Trip Current: $50A \pm 10\%$ Primary Indication:Flashing LED@1Hz

Flashing Duration: 8 hours nominal

 Min. Fault Duration:
 2.5 cycles (50ms @ 50Hz / 40ms @ 60Hz)

Manual Reset: Push button on front panel

Automatic Reset Period: 10 Seconds after mains restore

Manual Trip Test: Manual Push Button

Operating Temp Range: -20° to 55° C
Operating Humidity Range: 0-100% RH

Dimensions: 115mm x 65mm x 40mm

Degree of Protection: IP65
Mass: 250g

Current Sensor Diameter: Standard CT100: 100mm Optional CT150: 150mm

Remote Indicator (optional)
Indication Method:
Flashing Duration:
Dimensions:

Optional CT300: 300mm
Flashing LED @ 1 Hz
4 hours nominal
M12 Hex Bolt 50mm long

Auxiliary Relay (optional) Type: Rating: Lead type:

Suparule Systems Ltd., Suparule House, Lonsdale Road, National Technology Park, Limerick, Ireland. Latching, N/O on reset 220VDC, 250VAC, 2A, 60W 2-core, 0.5mm² double Insulated

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EFI CLZ 0506 DCF 1272 v1.2