



suparule



## Sensorform **EFI-MFZ-50** Earth Fault Indicator with Mechanical Flag

- Powered from mains supply 110V-240V AC
- Mechanical flag primary indicator
- Automatic reset of fault state when mains power is restored
- Manual reset of fault state by Test/Reset button on front panel
- LED based Remote indicator (optional)
- Aux Relay contact for remote alarm generation (optional)

### DESCRIPTION

Sensorform EFI-MFZ-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 Medium Voltage networks (1-38kV) 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 mechanical flag indicator.

A current sensor is fitted around the three phases of the cable system being monitored and detects a current imbalance due to an earth fault. An earth fault trip is indicated by a mechanical Flag Indicator and LED based Remote Indicator (fitted as 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 EFI which is still inactive.

### FEATURES

- Powered from mains supply 110-240V AC
- Mechanical flag primary indicator
- Automatic reset of fault state when mains power is restored
- Manual reset of Mechanical Flag by Test/Reset button on the front panel
- CT100 Current Sensor (standard)
- CT150 Current Sensor (optional)
- CT300 Current Sensor (optional)
- Aux Relay contact for remote alarm generation (optional)
- Rugged design suitable for outdoor use

Distributor:

### SPECIFICATIONS

#### General

<b>Power Source:</b>	110-240V AC +/-20% 50-60Hz
<b>Network Volt. Range:</b>	1-38kV
<b>Trip Current:</b>	50A ±10%
<b>Primary Indication:</b>	Mechanical Flag (RED)
<b>Min. Fault Duration:</b>	2.5 cycles
<b>Manual Reset:</b>	Push button on front panel
<b>Automatic Reset Period:</b>	10 Seconds after mains restore
<b>Manual Trip Test:</b>	Manual Push Button
<b>Operating Temperature Range:</b>	-20 °C to +70 °C
<b>Operating Humidity Range:</b>	0-100% RH
<b>Dimensions:</b>	115mm x 65mm x 40mm
<b>Degree of Protection:</b>	IP65
<b>Mass:</b>	250g
<b>Current Sensor Diameter:</b>	Standard CT100: 100mm Optional CT150: 150mm Optional CT300: 300mm
<b>Remote Indicator (optional)</b>	
<b>Indication Method:</b>	Flashing LED @ 1 Hz
<b>Flashing Duration:</b>	10 hours nominal
<b>Dimensions:</b>	M12 Hex Bolt 50mm long
<b>Auxiliary Relay (optional)</b>	
<b>Type:</b>	Latching, N/O on reset
<b>Rating:</b>	220VDC, 250VAC, 2A
<b>Lead type:</b>	2-core, 0.5mm <sup>2</sup> double Insulated
<b>Warranty Period:</b>	2 Years

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