



suparule



## Sensorform EFI-BFZ-50

### Earth Fault Indicator with Battery Operated Timer

- Powered from 3.6V ½ AA Lithium Battery
- Mechanical Flag indicator
- Automatic reset of fault state via user selectable 4 or 8 hour period
- Manual reset by front panel button or remote input (optional)
- LED Remote indicator (optional)
- Aux. Relay contact for remote alarm generation (optional)

### DESCRIPTION

Sensorform EFI-BFZ-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 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 Mechanical Flag 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 EFI which is still inactive.

### FEATURES

- Powered from 3.6V ½ AA Lithium Battery
- Mechanical Flag indicator
- Automatic reset of fault state on user selectable 4-hour or 8-hour period
- Manual reset by Test/Reset button on the front panel or Remote Reset Input (optional)
- CT100 Current Sensor (standard)
- CT150 Current Sensor (optional)
- CT300 Current Sensor (optional)
- LED Remote indicator. (optional)
- Aux. Relay contact for remote alarm generation (optional)

Distributor:

### SPECIFICATIONS

#### General

<b>Power Source:</b>	3.6V Lithium ½ AA 1200mAh
<b>Network Voltage 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 or Remote Reset Input (optional)
<b>Auto Timer Reset Period:</b>	4 hour or 8 hour selectable
<b>Manual Self-Test:</b>	Push button on front panel
<b>Operating Temp. Range:</b>	-20 °C to +70 °C
<b>Operating Humidity Range:</b>	0-100% RH
<b>Dimensions:</b>	115mm 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

#### Remote Indicator (optional)

<b>Indication Method:</b>	Flashing LED @1 Hz
<b>Flashing Duration:</b>	>1000 hours continuous
<b>Dimensions:</b>	M12 Hex Bolt 50mm long
<b>Automatic Timer Reset</b>	Same as above

#### Auxiliary Relay (optional)

<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

**Warranty Period:** 2 Years

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

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