Earth Fault Indicator with multiple AUX contacts

- Battery-powered
- Mechanical Flag & LED primary fault indicators
- User-selectable trip level, response time, reset time, relay action
- Automatic reset of fault state when mains power is restored
- Manual reset by button on front panel or remote switch
- Aux Relay contacts for fault and low battery indication

**DESCRIPTION**

Sensorform EFI+BFLZ-S 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 the user-selectable trip level in a 3-phase cable is detected an earth fault is indicated by means of a mechanical flag indicator and high-intensity LED 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, a red LED indicator and red Remote LED Indicator (fitted as optional).

A second amber LED, and an relay contact pair, provide low battery indication.

Two optional pairs of auxiliary relay contacts can be used for signaling a fault to other systems. These relays can be user-set to be either momentary or latched, normally open or closed.

**FEATURES**

- Battery-powered from internal Lithium cell
- Mechanical Flag & LED primary fault indicators
- Low Battery LED indication
- User-selectable fault trip level
- User-selectable fault response time
- User-selectable auto reset period
- Automatic reset when mains power is restored
- Manual reset of fault by button on front panel
- Manual reset of fault via remote switch/relay contacts
- Single or Triple LED Remote Indicator (optional)
- CT100 Current Sensor (standard)
- CT150 or CT300 Current Sensor (optional)
- Bobbin version CT (CTxxxB) available (optional)
- Aux Relay contacts for alarm generation
- User-selectable AUX relay action type
- Relay contacts for Low Battery Indication
- Rugged design suitable for outdoor use

**SPECIFICATIONS**

**General**

- **Power Source:** 3.6V AA Lithium Battery
- **Network Voltage Range:** 1-38kV
- **Trip Current Level:** User-selectable from 4 levels
- **Primary Indication:** Mechanical Flag (Red) & Flashing High-intensity LED
- **Min. Fault Indication:** User-selectable from 2 values
- **Inrush Duration:** >300mS
- **Manual Reset:** Push-button on front panel or remote switch
- **Automatic Reset Period:** 10 Sec after mains restore or time period user-selectable from 4 values

**Self-Test:** Manual Push Button

- **Operating Temperature Range:** -20 ºC to +70 ºC
- **Operating Humidity Range:** 0-100% RH
- **Dimensions:** 115mm x 90mm x 55mm
- **Degree of Protection:** IP65
- **Current Sensor Diameter:** Standard CT100: 100mm Optional CT150: 150mm Optional CT300: 300mm

**Remote Indicator (optional)**

- **Indication Method:** Flashing red LED(s) @ 1 Hz Until reset
- **Flashing Duration:**

**Auxiliary Relays (optional)**

- **Type:** Latching or Momentary, NO or NC (user-selectable)
- **Rating:** 220VDC, 250VAC, 2A
- **Lead type:** 2-core, 0.5mm² double Insulated

**Warranty Period:** 2 Years

**Distributor:**

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

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