



suparule



## Sensorform **EFI-CFLZ-KC-S**

### Earth Fault Indicator with Mechanical Flag & Led Indicators & User-selectable Trip Level

- Powered from CT attached to one of the Phases
- Mechanical Flag & LED primary indicators
- User-selectable fault trip level
- Automatic reset of fault state when phase current is restored
- Manual reset of fault state by Test/Reset button on front panel
- Aux Relay contact for remote alarm generation (optional)

#### DESCRIPTION

Sensorform EFI-CFLZ-KC-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 LED indicator and Remote LED 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 CT attached to one of the Phases
- Capacitor backup supply when no phase current
- Mechanical flag & LED primary indicators
- User-selectable fault trip level
- Automatic reset when phase current is restored
- Manual reset of fault by button on the front panel
- CT100 Current Sensor (standard)
- CT150 Current Sensor (optional)
- CT300 Current Sensor (optional)
- Aux Relay contact for alarm generation (optional)
- Rugged design suitable for outdoor use

#### SPECIFICATIONS

##### General

<b>Power Source:</b>	CT on Current Carrying Phase
<b>Network Volt. Range:</b>	1-38kV
<b>Trip Current:</b>	User-selectable from 3 or 4 levels
<b>Primary Indication:</b>	Mechanical Flag (Red) & Flashing High-intensity LED
<b>Flash Duration:</b>	10 hours nominal
<b>Min. Fault Duration:</b>	2.5 cycles
<b>Inrush Rejection:</b>	>300mS
<b>Manual Reset:</b>	Push-button on front panel
<b>Automatic Reset Period:</b>	10 Sec after power return
<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>	5 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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