

## Range of Earth Fault Indicators

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### **Sensorform Cable Earth Fault Indicators**

Each unit has a core-balanced sensor which is fixed around the three phases of the cable. Units that detect a current imbalance due to an earth fault will trip and indicate by either bright LED or a mechanical flag. The EFI helps to quickly identify in which section of the network an earth fault is located, once the network has been tripped by the upstream protection.

#### **Key features include:**

- Choice of indication method: LED/MECHANICAL FLAG
- Resetting method: AUTO-RESET/TIMER-RESET/  
MANUAL-RESET
- Power source option: MAINS/BATTERY/CT POWER
- Trip level: FACTORY SET/USER SELECTABLE
- Automation option: AUX. RELAY/SECONDARY LED  
INDICATOR
- CE Approved : LVD + EMC

**Distributor:**



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Sensorform Earth Fault Indicator ordering information			
First Group	Product Range	EFI	Earth Fault Indicator
Second Group	1 <sup>st</sup> Char: Power Source  2 <sup>nd</sup> Char: Indicator Type  3 <sup>rd</sup> Char: Glands	M B C F L Z	Mains Powered Battery Powered CT powered Flag LED Cable Glands fitted
Third Group	1 <sup>st</sup> Char: Secondary Remote indicator fitted 2 <sup>nd</sup> Char: Cable length in metres	R 3	Secondary Remote LED Indicator 3 meters
Fourth Group	1 <sup>st</sup> Char: Aux. Relay output fitted 2 <sup>nd</sup> Char: Cable length in metres	A 2	Aux. Relay output fitted 2 meters
Fifth Group	1 <sup>st</sup> Char: Power cable fitted 2 <sup>nd</sup> Char: Cable length in metres	M P 3	Mains cable CT Power cable 3 meters
Sixth Group	Nominal trip current in Amps Factory set User Selectable Trip level	50 S	50 Amps trip level 3 nominal trip level to select at order: e.g: 40-80-120A
Seventh Group	1 <sup>st</sup> Five Char: Current Transformer (CT)  6&7 <sup>th</sup> Char: Cable length in metres	CT100 CT150 CT300 3	Up to 100 mm dia. (multi-core cables) Up to 150mm dia. (multi-core cables) 300mm × 100mm (single-core cables) 3 meters

For example:

EFI-MLZ-R2-A2-M3-50-CT100.3

**Notes:**

- The cable length can be modified on request for the Remote indicator, the Mains cable, and/or CT cable.
- Trip level can be set at factory from 20 to 120A. Alternatively a user-selectable trip level is optional (-S).
- The Remote Indicator & Aux. Relay Outputs are optional components.
- The EFI unit does not ship with any leads for the mains voltage input or the Aux. Relay Output, unless stated at time of order.
- The unused cable-glands ship with a rubber stopper inserted to maintain sealing integrity.
- The EFI unit ships in a brown corrugated cardboard box.

	<p><b>Distributor:</b> Suparule SA (Pty) Ltd. 26 Simba St. Unit 1&amp;2 Sebenza Edenvale Gauteng South Africa Tel: +27(0)114529800 Fax: +27(0)114529828 e-mail: sales@suparule.co.za Web: www.suparule.co.za</p>
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## Range of Earth Fault Indicators

The Sensorform Earth Fault Indicators (EFI's) are devices designed to assist electrical utility staff in detecting faults on HV cable networks. When an earth fault current passes through a cable section where the EFI is installed, the EFI will indicate and quickly identify in which section of the network an earth fault is located.

All units have a pre-fitted core-balanced current sensor which is fixed around the three phases of the cable.

Units that detect a current imbalance due to an earth fault will trip and Indicate by either a bright LED or a mechanical flag.

Various models are available, offering different options and features for:

- Indication method
- Resetting method
- Power Source Options
- Trip level: factory set or user selectable

Features	BFZ	BLZ	CFZ	CLZ	MFZ	MLZ
Mains Powered (110 – 230v)					v	v
Battery Powered (10 year standby battery life)	v	v				
Self Powered			v	v		
Mechanical flag indication	v		v		v	
Ultra-bright flashing LED indication		v		v		v
50A nominal trip	v	v	v	v	v	v
50ms minimum fault duration	v	v	v	v	v	v
Auto Reset			v	v	v	v
Timer Reset	v	v				
Manual Reset	v	v	v	v	v	v
Unit healthy Test facility	v	v	v	v	v	v
IP65 environment protection	v	v	v	v	v	v
Volt free auxilliary relay contacts (for remote alarm)	v	v	v	v	v	v
Additional remote flashing indicator available	v	v	v	v	v	v
Split core CTwith cable tie pre fitted	v	v	v	v	v	v
Surface mounted	v	v	v	v	v	v

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