



DIN : 35mm

## Features:

- 1Ø - 2 Wire, 3Ø - 3 Wire & 3Ø - 4 Wire Input
- Leakage current monitoring
- True RMS measurement
- CBCT connection monitoring
- Power ON delay, Trip time delay and Recovery time delay
- Adjustable switching hysteresis
- Two separate alarm relays with NO or NC operation selectable
- Test and Reset buttons via front / remote
- DIN Rail Mount

Certifications: 

### Display Specifications

Type	Digital
Display	Liquid Crystal Display with backlight
No of LED	2
No of Push Button	3

### LED Indication

LED1 (Red)	Alarm (Continuously ON after trip)
LED2 (Red)	Pre - Alarm (Continuously ON during pre alarm condition)

Note - LED1 and LED2 blinks during CBCT error

### Input Specifications

<b>Functions</b>	
Measurements	Earth Leakage current monitoring (via external CBCT)
Time Settings	Power ON delay, Trip time delay, Recovery timer delay
Alarm Indications	Pre - warning alarm, Trip, CBCT error
Latching	Selectable
Reset	Auto / Manual (Selectable)
Electrical Connection	1Ø-2 wire, 3Ø-3 wire, 3Ø-4 wire
<b>Current Rating</b>	
Measuring Range (RMS Value)	4mA-30A, 45-65Hz
<b>Trip Settings</b>	
Leakage Current	10mA - 30A
Pre Alarm	50 - 100% of Leakage Current Setting
<b>Trip Time Settings</b>	
Power ON Delay	0.5 - 99.9sec
Trip Time Delay	0 - 99.9sec
Recovery Time Delay	0 - 99.9sec
Response Time	< 30ms (if trip current ? 5 x set value) < 50ms (if trip current ? 1 x set value)
<b>Hysteresis</b>	
Hysteresis	5 - 40% of set value
<b>Resolution</b>	
Current	0.1mA, 1mA, 0.01A, 0.1A (Depends on trip setting)
<b>Accuracy</b>	
Current	±5% of Setting
Power on delay	±5% of setting + 100ms

### Output Specifications

No. of Relays	2
Type of output (Relay1)	1C/O (SPDT)
Type of output (Relay2)	1C/O (SPDT)
Relay Rating	NO : 5A, 250V AC NC : 3A, 250V AC

### Auxiliary Supply Specifications

Supply Voltage	230V AC
Frequency	45 - 65Hz
VA Rating	3VA max

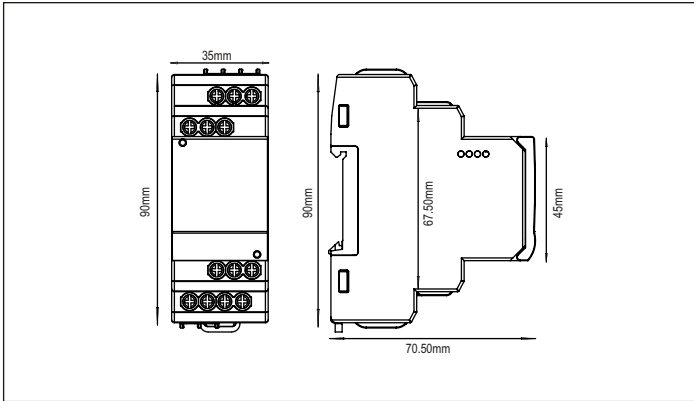
### Environmental Specifications

Ambient Temperature	Operating Temperature : 0°C to 50°C Storage Temperature : -20°C to +70°C
Humidity (non-condensing)	95% RH
Pollution Degree	
For PCB	2
For Product	3
Degree of Protection of Devices	IP20

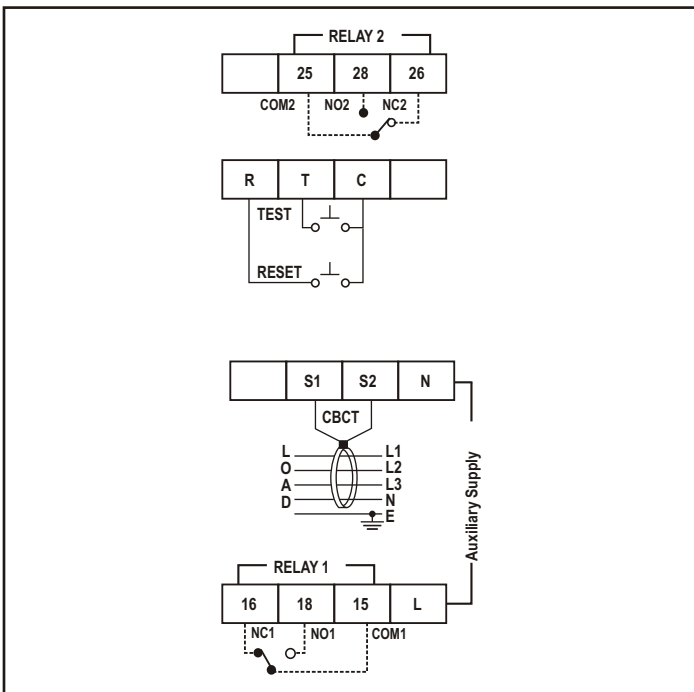
### Mechanical Specifications

Mounting	Din Rail
Weight	217 g
Conductor cross section (Solid)	1 x (0.5 to 4)sq.mm
Conductor cross section sleeved (Stranded)	2 x (0.5 to 1.5)sq.mm 1 x (0.5 to 2.5)sq.mm
Screw tightening torque	0.5 Nm

Dimensions



Terminal Connections



Compliance

Applicable EMI / EMC Standards		
Product Standard	IEC 62020	
Category	Reference Standards	Testing Level
Conducted Emissions	IEC 61000-6-3	Class-A
Conducted RF Immunity	IEC 61000-4-6	Class-A
Electrical Fast Transient	IEC 61000-4-4	Class-B
Electrostatic Discharge	IEC 61000-4-2	Class-B
Radiated Emission	CISPR-22	Class-A
Radiated Susceptibility	IEC 61000-4-3	Class-A
Surge	IEC 61000-4-5	Class-B
High Voltage Test	IEC 61010-1	Clause 6.8
Resistance To Heat Test	IEC 61010-1	Clause 10.5
Single Fault Test	IEC 61010-1	Clause 4.4
Temperature Rise Test	IEC 61010-1	Clause 10

Ordering Information

Product Code	Supply Voltage	Certification
900ELR-2-230V-CE	230V AC	CE
900ELR-2-230V	230V AC	-

Accessories

Product Code	Inner Diameter	Turns Ratio
CBCT-35-1	35mm	1000:1
CBCT-70-1	70mm	1000:1
CBCT-120-1	120mm	1000:1
CBCT-210-1	210mm	1000:1
CBCT-310-1	310mm	1000:1