




### 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 function via front / remote
- ▶ DIN rail mount

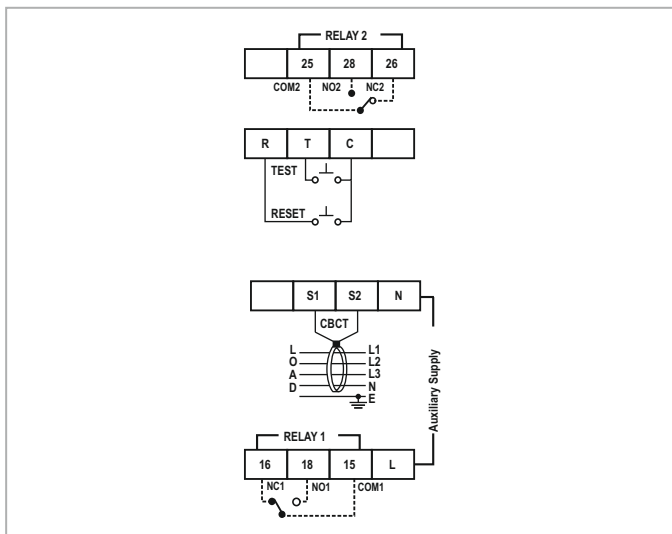
Certifications : 

## Technical specifications

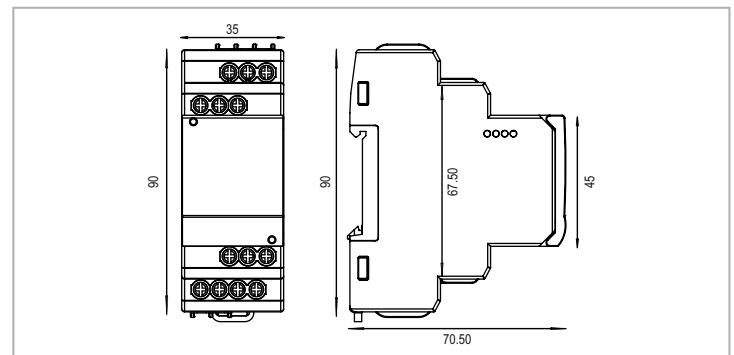
Display specifications		
Type	Digital	
Display	Liquid crystal display with backlight	
No. of LED	2	
No. of push button	3	
LED indication chart		
Condition	'R1' LED	'R2' LED
Nominal condition	OFF	OFF
Fault (if programmed for relay1)	ON	ON
Pre-Alarm	OFF	ON
Fault (if programmed for both relay)	ON	ON
CBCT error	Blinking	Blinking
Input specifications		
<b>Functions</b>		
Measurements	Earth leakage current monitoring (via external CBCT)	
Time settings	Power ON delay, Trip time delay, Recovery time 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>Trip settings</b>		
Leakage current	10mA - 30A	
Pre-Alarm	50 - 100% of leakage current setting	
Display current range	4mA - 30A	
<b>Trip time settings</b>		
Power ON delay	0.5 - 99.9 sec	
Trip time delay	0 - 99.9 sec	
Recovery time delay	0 - 99.9 sec	
Response time	< 30ms (if trip current 5 x set value) < 50ms (if trip current 1 x set value)	
<b>Hysteresis</b>		
Hysteresis	5 to 40%	
<b>Resolution</b>		
Current	0.1mA, 1mA, 0.01A, 0.1A (depends on trip setting)	

Accuracy	
Current	±5% of setting
Time (Recovery time delay, Trip time delay, Power ON delay)	±5% of setting ±100ms
Output specifications	
No. of relays	2
Type of output (relay1)	1 C/O (SPDT)
Type of output (relay2)	1 C/O (SPDT)
Relay rating	NO / 5A @250V AC NC / 5A @250V AC
Auxiliary supply specifications	
Supply voltage	230V / 110V AC
Frequency	50 - 60Hz
Power consumption	3VA max
Environmental specifications	
Temperature	Operating temperature: 0 to +50 °C Storage temperature: -20 to +70 °C
Humidity (non - condensing)	95% RH
Pollution degree	
For PCB	2
For product	3
Degree of protection devices	IP20
Mechanical specifications	
Mounting	DIN rail
Weight	217 gm
Screw tightening torque	0.5 NM

## Terminal connections



## Dimensions (All are in mm)



## Compliance

Applicable EMI / EMC standards		
Product standard: IEC 60947-2		
Category	Reference standards	Testing level
Conducted emissions	CISPR11	Class-A
Conducted RF immunity	IEC 61000-4-6	Class-A
Electrical fast transient	IEC 61000-4-4	Class-A
Electrostatic discharge	IEC 61000-4-2	Class-B
Radiated emission	CISPR11	Class-A
Radiated susceptibility	IEC 61000-4-3	Class-A
Surge	IEC 61000-4-5	Class-A
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-2-110V-CE	110V AC	CE