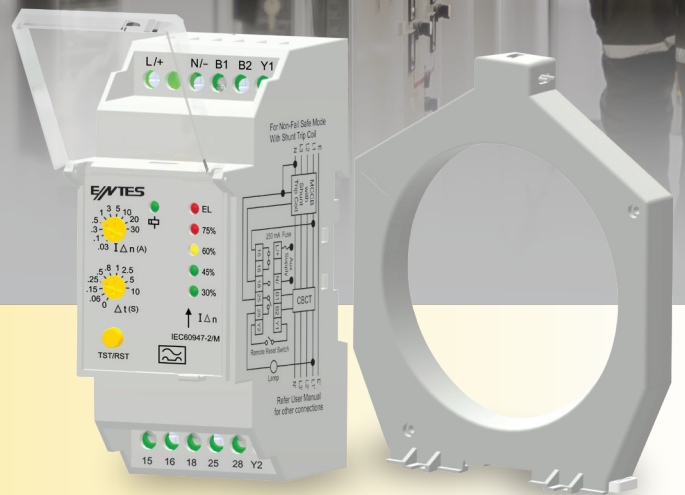




# EARTH LEAKAGE RELAYS & CORE BALANCE CURRENT TRANSFORMERS

## ELR & CBCT Series



Wide Auxiliary Range  
(220 – 415VAC / 220VDC)

Manual & Auto  
Reset Option

Configurable Earth  
Leakage Trip Time  
(0sec-10sec)

TEST Feature to  
Check Product  
Functionality

Wide Range of  
Earth Leakage  
Current: 30mA- 30A

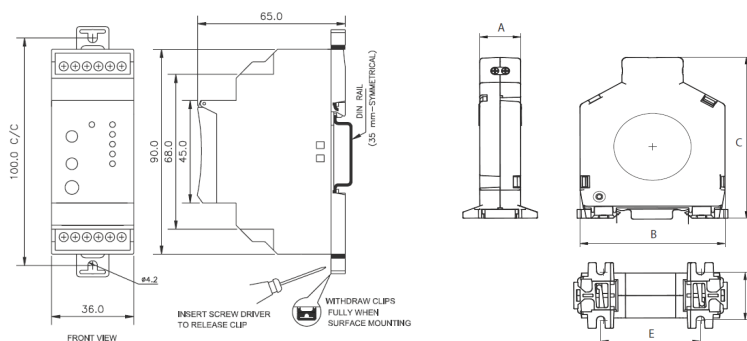
70mm,92mm,120mm and  
210mm Core Balance Current  
Transformer Options



## FEATURES

	ELR-30-M	ELR-30-A		
<b>Power Supply</b>				
Supply Voltage	220-415VAC / 220VDC -20% to +20%			
Power Consumption (Max.)	10VA			
LED Indication	ON (Green Led) ON (Red Led) Relay Trip / Blinking (CT OPEN) BY bar graph 30%(Green), 45%(Green), 60%(Yellow), and 75%(Red), Blink Test/Reset Switch is pressed			
Threshold I $\Delta$ n (A)	0.03 – 0.1 – 0.3 – 0.5 – 1 – 3 – 5 – 10 – 20 – 30			
Frequency	50-60Hz			
<b>Relay O / P Characteristics</b>				
Contact Rating	1 C/O + 1 NO; 5 A (Resistive) @ 240 VAC / 30 VDC			
Contact Arrangement	1 C/O SPDT and 1 NO SPST			
Utilization Category (AC-15)	3.0 A at 120 V & 1.5 A at 240 V			
Utilization Category (DC-13)	0.22 A at 125 V & 0.10 A at 250 V			
Mechanical Life Expectancy	1X10 <sup>7</sup>			
Electrical Life Expectancy	1X10 <sup>5</sup>			
Contact Material	Ag Alloy			
<b>Feature Characteristics</b>				
Reset	Manual Reset	Auto Reset		
No. Of Auto Resets	-	4		
Clear Auto Reset	After 1 hour of healthy condition or supply interruption			
Test / Reset	Local and Remote (Non Potential Free Contacts) (Up to 10 m)			
$\Delta$ t Settings (s)	0.040 – 0.06 – 0.15 – 0.25 – 0.5 – 0.8 – 1 – 2.5 – 5 – 10			
Reset Enable	Below 50% of set I $\Delta$ n in presence of CBCT			
Reset Time	<1 s			
Type Class	'A' True RMS measurement upto 1A 1A (as per IEC 60947-2 Annex M) 'AC' True RMS measurement 30mA to 30A (as per IEC 60947-2 Annex M)			
Setting Accuracy	- 20% (Including CBCT accuracy)			
Repeat Accuracy	± 2%			
<b>Ambient Conditions</b>				
Storage Temperature	-20°C to + 80°C			
Operating Temperature	-15°C to + 60°C			
Relative Humidity	5 to 95% Rh (without condensation)			
Max. Operating Altitude	2000 m			
Degree of Protection	IP-20 for Terminals, IP-40 for Enclosure			
Operating Position	Any			
Pollution Degree	II			
<b>Others</b>				
Mounting	Base / Din Rail			
Dimensions in mm (W X H X D)	36 X 90 X 65			
Weight Approx. (Un-packed)	150g			
Certification	CE RoHS			
<b>CBCT for Type A &amp; AC Current</b>				
Order Code	Size (W X H X D)mm	Inner Diameter	I $\Delta$ n setting range for Type AC Current	I $\Delta$ n setting range if there are pulsating DC current (Type A)
CBCT-70	37x133x109.3	70mm	30mA to 30A	30mA to 30A
CBCT-92	37x155x132	92mm	30mA to 30A	30mA to 30A
CBCT-120	37x176x153	120mm	30mA to 30A	30mA to 30A
CBCT-210	37x282x250	210mm	30mA to 30A	30mA to 30A

## Dimensions (mm)



CBCT	SIZE	WEIGHT (in gms)	A	B	C	D	E
CBCT-70	70	240	20	109	133	27	60
CBCT-92	92	250	20	132	155	27	73
CBCT-120	120	255	20	153	176	27	73
CBCT-210	210	280	20.5	250	282	28	128

## HEADQUARTERS

Address: Dudullu OSB; 1. Cadde; No: 23 34776 Umraniye - ISTANBUL / TURKIYE Tel: +90 216 313 01 10 Fax: +90 216 314 16 15 Sales Fax: +90 216 365 71 71  
E-mail: contact@entes.eu Web: www.entes.eu Call Center Technical Support: 0850 888 84 25 Coordinates: 40,995852 N, 29,178398 E

## INTERNATIONAL BRANCH OFFICES

ISTANBUL : contact@entes.eu Tel: +90 216 313 01 10 Fax: +90 216 314 16 15  
INDIA : contact@entes.in Tel: +91 981 - 2980004  
GREECE : contact@entes.eu Tel: +30 2310 706999 +30 2310 707296  
GERMANY : kontakt@enteselektronik.com Tel: +49(0) 7022-931992-0

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