



EARTH LEAKAGE RELAYS

Protecting lives & equipment from earth leakage hazards.

SAFEGUARD FROM FATAL ELECTRICAL SHOCKS AND FIRE HAZARDS.

- True RMS measurement
- Clearance and creepage distance meets UL 61010 safety standard
- Intelligent Protection - **trip time is inversely proportional to fault current**
- Field programmable trip current and trip time through front panel keys with password protection
- **Continuous leakage current display** (Programmable) - Leakage current continuously displayed to enhance the user to understand the quality of Electrical network / Machine / trouble shooting online. This can be disabled through setup if required

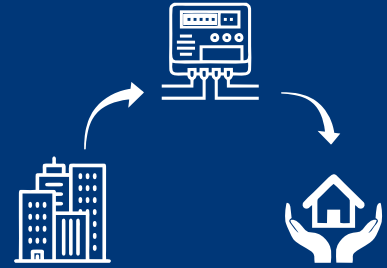
PREVENT EQUIPMENT DAMAGE AND THE RISK OF UNPLANNED DOWNTIME.

- Continuous display of trip leakage current (Programmable) - In case of tripping, iELR captures and displays the tripped current with 4 Digits resolution, which helps the user to analyze and correct the problem. This can be disabled through setup if required
- **Continuous scrolling display for set current and set time**
- Manual test and reset keys
- RS485 communication option
- Auto Configuration through communication
- Reset through communication in trip condition

HELPS IN DIAGNOSING LOOSE CONNECTIONS AND DAMAGED INSULATIONS.

- Protects control panels and switch boards from flame leakage
- Protects motors / transformers / feeders / generators etc., from earth leakage
- Hazardous and sensitive industries like oil refineries / pulp industries / electrical distribution etc., can be protected
- Complete protection for control engineering and mining industry

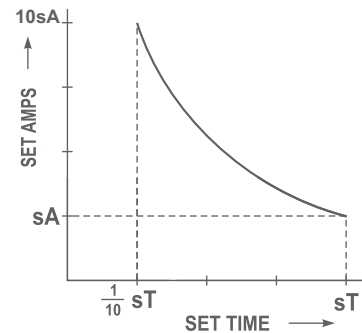
DETECT THE LEAKAGE CURRENT IN AN INTELLIGENT ELECTRICAL DEVICE.



Advantages

- Microcontroller based design provides higher technological advantage
- **Peak detection and value display** helps in analysis and corrective action
- Password protection for security against mishandling
- Current sensitivity wider range 300mA to 30A class 5FS
- Programmable trip time 30ms - 30s with wider choice to suit different industry
- Selection through soft keys (No DIP switches) provides better IP protection and longer life
- Continuous earth leakage value display helps online loss analysis (Programmable)
- Intelligent tripping based on $T \propto 1/A$ gives faster and reliable protection
- Auto scrolling of trip information and peak fault current provides better analysis

Trip Characteristics



Technical Specification

Specification	ST-ELR30 DIN-Rail Mount
Display:	4 Digit
Input Current:	300mA to 30A
Trip Current:	Programmable
Tripping time:	100 mS - 30 sec.
Contact Rating:	2Amps @ 240V AC / 24V DC
Accuracy:	Class 5.0 FS (Default)
Auxiliary Supply:	80 - 300V AC/DC, 4VA Max.
CBCT:	Round, Rectangular
Core Balance:	CT type: Tape wound limited round size, option for epoxy coated and plastic version.
Torque:	1 N-m for Panel Mount, 0.2 N-m for DIN-rail
Wire Gauge:	11 AWG

Core Balance Current Transformer (CBCT)

CBCT Specification

Input Range : 300mA to 30A for ST-ELR30 Class 5FS

Case Mounted:

(Plastic)

Inner Diameter 35mm,
70mm, 120mm, 210mm



Plastic

Model	Dimensions in mm			
	D	L	W	H
ST-CBCT35	35	75	23.5	111
ST-CBCT70	70	110	23.5	152
ST-CBCT120	120	166	20	171
ST-CBCT210	210	256	20	262

Mechanical Specification

