



EARTH LEAKAGE RELAY

lives equipment from earth leakage hazards.

**SAFEGUARD FROM
FATAL
ELECTRICAL
SHOCKS AND
FIRE HAZARDS.**

**PREVENT
EQUIPMENT DAMAGE
AND THE RISK OF
UNPLANNED
DOWNTIME.**

**HELPS IN
DIAGNOSING
LOOSE CONNECTIONS
AND DAMAGED
INSULATIONS.**

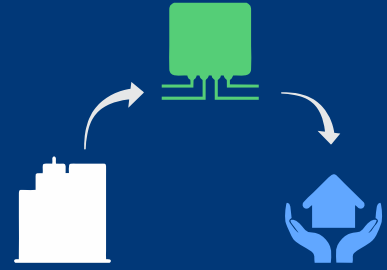
- True RMS measurement
- Clearance and creepage distance meets UL 61010 safety standard
- Intelligent Protection - **trip time is inversely proportional to fault current**
- Field programmable trip current and trip time through front panel keys with password protection
- **Continuous leakage current 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

- 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 optional for panel mount
- Auto Configuration through communication
- Reset through communication in trip condition

- 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



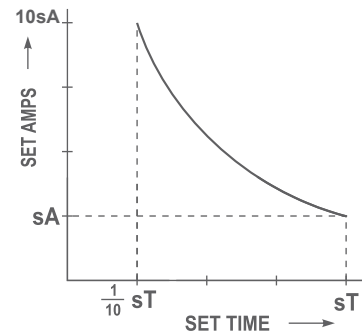
DETECT THE LEAKAGE CURRENT IN AN INTELLIGENT ELECTRICAL DEVICE.



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 (**Default 30mA to 30A Class 5FS for iELR 300 only**) 30mA - 3A and 300mA to 30A class 2FS on request
- Programmable trip time 30ms - 30s with wider choice to suit different industry
- Selection through softkeys (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	iELR 200D DIN-Rail Mount	iELR 300 Panel Mount
Display:	4 Digit	4 Digit
Input Current	30mA - 3A / 300mA - 30A	30mA - 30A
Trip Current:	Programmable	
Tripping time:	100 mS - 30 sec.	
Contact Rating:	2Amps @ 240V AC / 24V DC	

Accuracy:	Class 5.0 FS (Default), Optional Class 2.0 FS
Number of relays :	1C/o relay
Auxiliary Supply:	80 - 300V AC/DC, 4VA Max (415V AC MOQ).
CBCT:	Round, Rectangular
Core Balance:	CT type: Tape wound limited round size, option for epoxy coated and plastic version.
Communication:	Parity: Odd, Even, None (Preferred Even)
RS485 Interface:	Baud rate: 4800 bps to 38400 bps (Preferred 9600 bps).
(Optional)	Isolation: 2000 volts AC isolation for 1 minute between communication and other icrcuits.
Torque:	1 N-m for Panel Mount, 0.2 N-m for DIN-rail

Core Balance Current Transformer (CBCT)

CBCT Specification

Input Range : 30mA to 30A Default for iELR 300 Class 5FS
30mA to 3A and 300mA to 30A for iELR 200D Class 5FS

Round Diameter:

(Tape Wound/Resin Cast)
Inner Diameter 60mm, 100mm,
150mm, 200mm, 250mm, 300mm



Case Mounted:

(Plastic)
Inner Diameter 35mm,
70mm, 120mm, 210mm



Rectangular:

(Tape Wound/Resin Cast)
250×100mm, 300×100mm,
350×100mm, 350×150mm,
400×200mm, 500×200mm.
(Any other sizes subject to
availability)



Mechanical Specification

