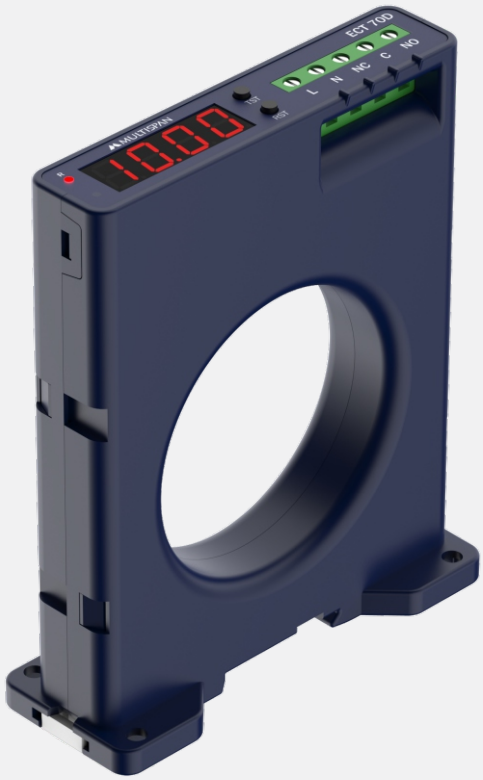
MULTISPAN



EARTH LEAKAGE RELAY

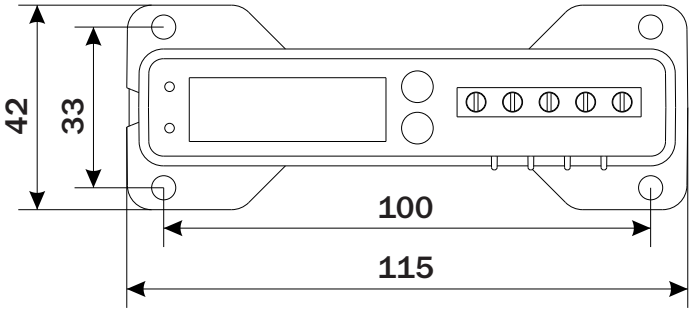
ECT 70D

APPLICATIONS

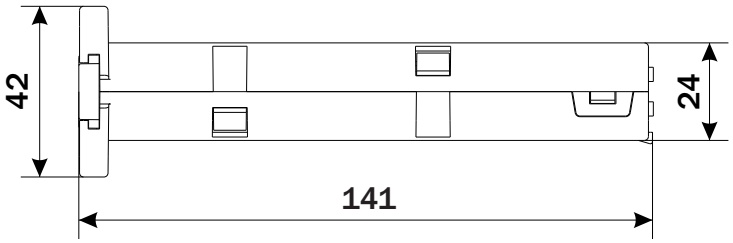
- Control & Relay Panel
- Original Equipment Manufactures (OEMs)
- Energy Management System
- DG Set Panels
- LT / HT Panel
- Power Control Center Panels
- Motor Control Center Panels

Mechanical Dimensions

Body Dimensions



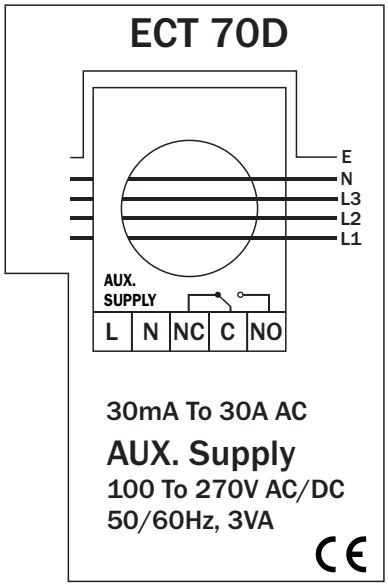
FRONT VIEW



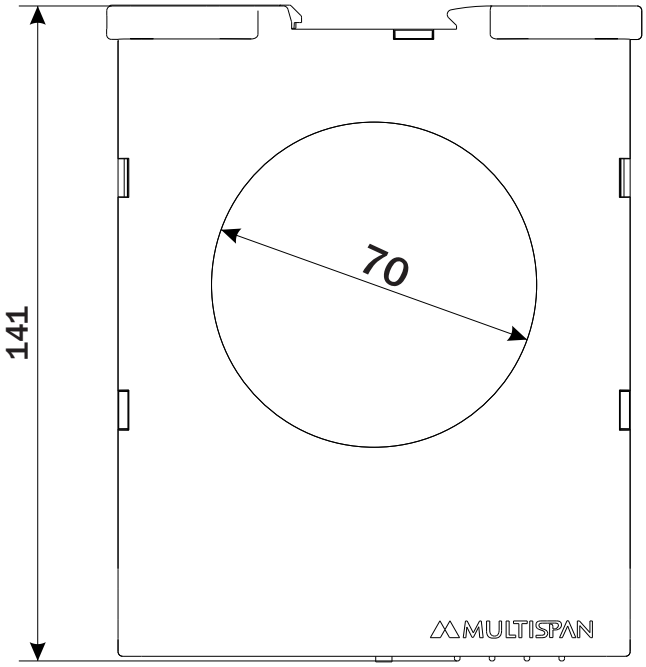
RIGHT SIDE VIEW

All dimensions are in mm

Connection Diagram



Inner CBCT Diameter



TECHNICAL DATA

Input	**Current**	0.030 to 30Amp AC In CBCT
Range		0.030 to 30Amp
Output		1 Relay , 1 C/O (NO-C-NC)
Power Supply		100 to 270V AC/DC,50/60Hz
Accuracy		Class 1.0
Resolution		If Current 0.030 To 0.999A = 0.001A & 1.00A To 30.00A = 0.01A
Certification		CE

Features

- Earth Leakage Current Monitoring In 1Ø - 2W, 3Ø-3W And 3Ø-4W System
- Test Mode Available.
- Auto/Manual Triping Reset Facility.
- Relay LED Indication

Trip Setting

Leakage Current	30mA to 30Amp
Delay Time	0.00 to 9.99 Sec

Display, Led & Keys

Display	4 Digit 7 seg 0.39” Red LED Display
Key	TST, RST
LED Indication	Relay

Environmental Characteristics

Working Temperature	0 to 55°C
Storage Temperature	0 to 70°C
Relative Humidity	95% RH Non-condensing
Ingress Protection	IP 65 (Front Side)

Mechanical Characteristics

Mounting Type	Din Rail Mount
Dimension (HxWxD) mm	42 x 115 x 141
Material	Polycarbonate (PC)
Terminal Screw Size	M3
Screw Torque (N.m)	1
Wire Guage (AWG)	28-12
Weight (Approx) gms	Unpacked : 210 Packed : 225

Working logic

Earth Leakage

To Reset the Relay Contact after tripping two modes are given.

Auto Reset
Relay Fault mode = OFF
Trip Set Point = 5.0 Amp
Hysteresis = 1.0 Amp
Trip Delay = 5 Sec

The measured Earth Leakage value once it passes the Trip value , Trip delay Timer will start. And once the Trip Delay timer is over, and if the leakage value is above Set point , Trip will be triggered and relay contact will switch.
If Leakage value goes under the Trip value and above the hysteresis value ; if during that time Trip Delay time gets over , then the instrument will stay in Healthy state Tripping will not occur