

INDICATORS

Pre-fault alarm.....	Red indicator
Leakage trip delay time.....	Red indicator
Leakage trip.....	7-segment display and red indicators
Manual test trip.....	7-segment display and red indicators
ZCT connection fault.....	7-segment display and red indicators
Trip records.....	7-segment display
Real-time leakage current.....	7-segment display

ZERO-PHASE CURRENT TRANSFORMERS

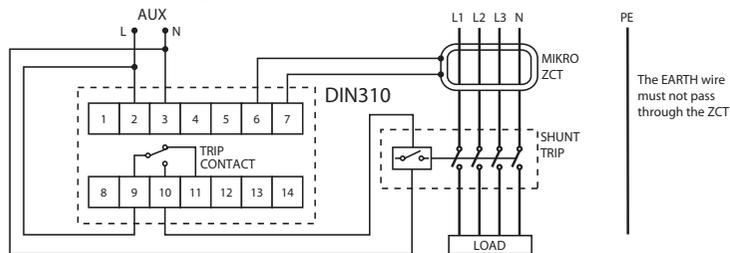
To operate with Mikro's ZCT series of current transformers

MECHANICAL

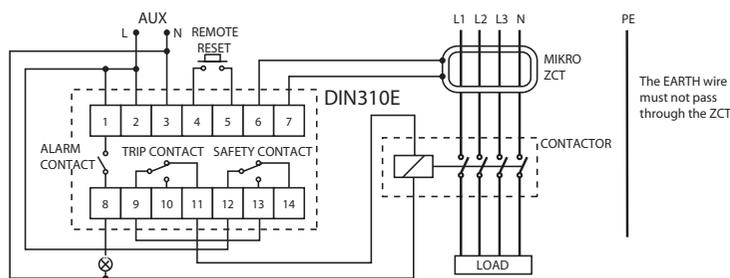
Mounting.....	Standard 35mm DIN rail mounting
Approximate weight.....	0.38kg (excluding ZCT)

8. CONNECTION DIAGRAMS

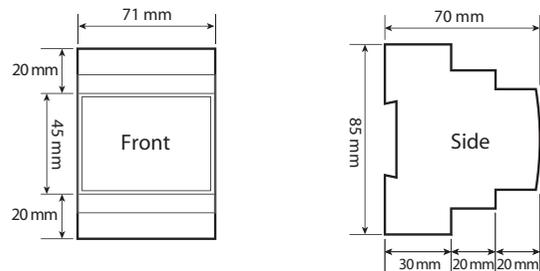
Typical application diagram for DIN310 series



Typical application diagram for DIN310E series



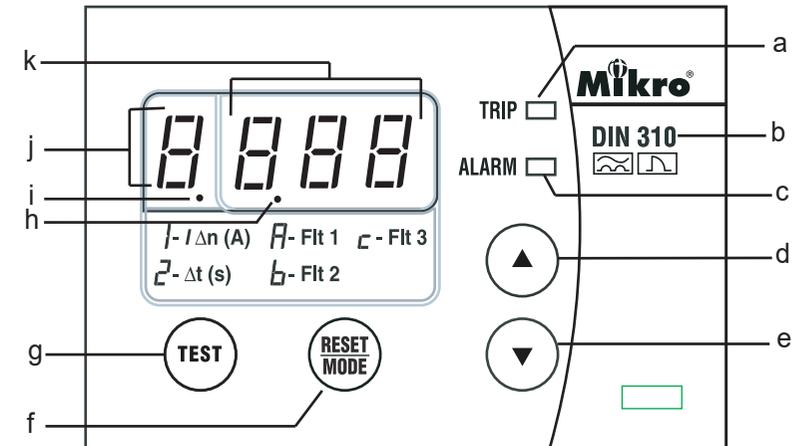
9. CASE DIMENSION



* Applicable to DIN310E series only

DIN310 & DIN310E Earth Leakage Relay User's Manual

A BRIEF OVERVIEW



a - Trip status indicator

b - Model

c - Alarm status indicator

d - Increment button

e - Decrement button

f - Reset button

g - Integral test button

h - DP2 indicator

i - DP1 indicator

j - FUNC display

k - DATA display

Symbols

$I_{\Delta n}$ - Sensitivity setting

Δt - Time delay setting

Flt 1 - Fault record #1 (Most recent)

Flt 2 - Fault record #2

Flt 3 - Fault record #3 (Oldest)

1. DESCRIPTION

The DIN310 and DIN310E are microprocessors based earth leakage relays designed for measure the low-level current flowing from the live part of the installation to the earth in the absent of the insulation fault. A zero phase current transformer is connected to the relay and function as the sensor for sensing the leakage current. All conductors of the circuit to be protected shall go through the ZCT.

For better fault preventive control of the system or equipment to be protected, DIN310E series comes with a pre-fault alarm contact and a positive safety contact. The pre-fault alarm contact is activated whenever the leakage current exceed 50% of the sensitivity setting. While the positive safety contact is activated if the relay is power up and function correctly. The DIN310E series also built-in a digital input port for remotely reset the relay after leakage fault trip, manual test trip or ZCT connection fault.

