



### **Features**

- Numerical earth leakage relay
- Detection of no connection to ZCT
- Relay trip indicator
- Real-time leakage current display
- Leakage fault current recording
- . Standard DIN rail mounting
- Protection against nuisance tripping
- . Type A

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- For Tankless Multipoint Water Heater Application
- Ability to differentiate between overload tripping and earth leakage tripping

## **Technical Data**

#### **AUXILIARY SUPPLY** DIN310C-230A Rated frequency

: 184~276 V AC : 50 or 60 Hz : 3 VA typical

#### PERFORMANCE

Setting accuracy :-20% to 0% Timing accuracy : ±5%

## **SETTING**

VA rating

Sensitivity Time delay

#### **OUTPUT CONTACTS**

Rated voltage	: 250 V AC
Contact rating	: 5 A (NO)
	3 A (NC)
Expected electrical life	: 100,000 operations at
	rated current
Expected	: 5 x 10 <sup>6</sup> operations
mechanical life	

:10mA

: Instantaneous

#### RECORD Fault record

Storage

#### **OUTPUTS Trip Contact**

## **INDICATORS**

Time delay Leakage

## ZCT Fault

Real time leakage current

currents or "tSt" for manual test trip : Non-volatile memory

: 3 latest tripped fault

: Activated if relay tripped or ZCT fault

## : Red indicator

- : 7- segment display and indicator
- : 7- segment display and red indicator
- : 7-segment display

#### **ZERO-PHASE CURRENT TRANSFORMER**

To operate with Mikro's ZCT that is included in the DIN310C bundle only (Note: Will not be able to operate properly with other Mikro's ZCT)

#### **ENVIRONMENTAL CONDITIONS**

Temperature
Humidity

- : -5°C to + 55°C : 56 days at 93% RH and
- 40°C non-condensing

## **MECHANICAL**

	Mounting	: Panel mounting
	Dimension (mm)	: 71(W) x 85(H) x
b		70(D) (Relay)
	Dimension (mm)	: 76(W) x 50(H) x
		27(D) (ZCT)
	Approximate weight	: 0.4 kg (Relay)
	Approximate weight	: 0.095 kg (ZCT)

Earth Leakage Relay

- Approximate weight : 0.095 kg (ZCT)



Typical Application Diagram For DIN 310C

## 3-Phase 4-Wire System

Single Phase System AUX 1.

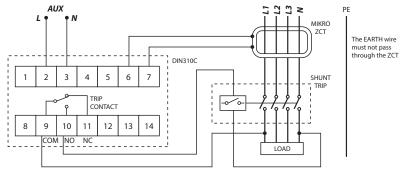
> 1 2 3 4 5 б 7

8 9 10 11

• N

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COM NO NC



--; DIN310C

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MIKRO ZCT

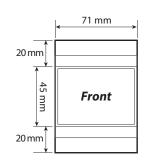
SHUNT TRIP

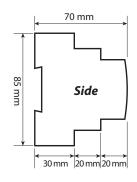
LOAD

The EARTH wire

must not pass through the ZCT

# **Case Dimensions**



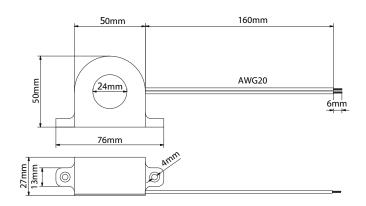


# ZCT and Secondary Cable Dimensions

TRIP CONTACT

12

13 14

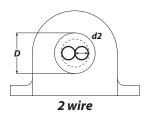


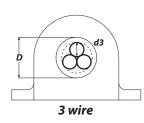
	<b>d2, 2 wire</b> Up Until	<b>d3, 3 wire</b> Up Until	<b>d4, 4 wire</b> Up Until
Diameter (mm)	7	6.49	5.79
Maximum Cable Cross-Sectional Area (mm²)	35	25	25
Maximum Current Carrying Capacity (A)	125	89	89

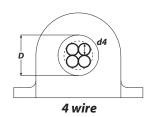
Note: Selection of cable is based on 300 / 500V or 600 / 1000V, single-core, PVC insulated, PVC sheathed unarmoured cable, enclosed in conduit on a wall

## **Ordering Information**

**MODEL DESCRIPTION** DIN310C - 230A For 50Hz system, auxiliary voltage 230V AC







DIN310C