

Overview

The ZCT Series are compact molded-type, zero-phase current transformers ideal for improving the sensitivity, compactness and lightweight of electric shock prevention.

Applications

Typical applications include electric shock prevention from earth leakage breakers, short-circuit relays and ground fault circuit interrupters.

Benefits

- High sensitivity
- Compact and lightweight
- Laminated iron core

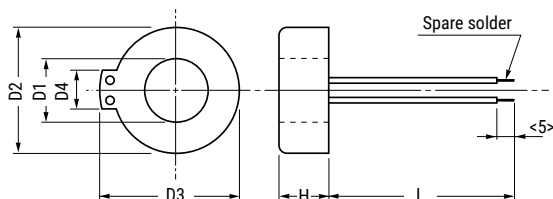


Ordering Information

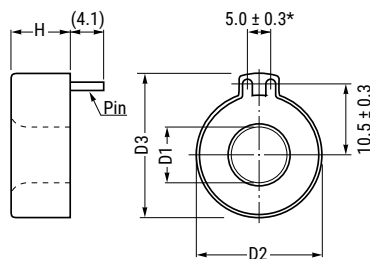
MR-	1
Series	Shape Classification
MR	1 2 3 4 1-P5

Dimensions in mm

MR-1, 2, 3, 4



MR-1-P5



Product Name	D1 (Minimum)	D2 (Maximum)	D3 (Maximum)	D4	H (Maximum)	L (±3.0)
MR-1	7.2	19.3	22.4	(5.0)	8.3	45.0
MR-2	8.9	21.8	24.7	(5.0)	8.3	80.0
MR-3	11.0	28.0	30.5	(6.0)	10.5	67.0
MR-4	16.5	32.0	34.5	(7.0)	10.8	67.0
MR-1-P5	7.4	19.3	21.8	(8.0)	8.5	—

Pin: $\varnothing 0.8$ mm Pin connectors.

* Pin root diameter.

Environmental Compliance

All ZCT sensors are RoHS compliant.

Table 1 – Ratings & Part Number Reference

Part Number	Minimum Output Voltage (mV)	Temperature Characteristics (-20°C to 80°C)	Maximum Overinput Characteristics (After DC5A Input)	Measurement Conditions
MR-1	8	±10%	10%	f = 60 Hz R = 300 Ω I _o = 22.5 mA
MR-2				
MR-3				
MR-4				
MR-1-P5				

R = Load resistance

I_o = Detection current

Precautions

Before Using Zero-Phase Current Transformers

- Do NOT drop or apply mechanical stress as it may change the performance characteristics.
- Do NOT use the current transformers opened between secondary output terminals. Heat build-up in the magnetic core may occur, resulting in damages to the parts by melting of the coil.
- If the ZCT Series will be used as a current transformer, please contact KEMET for more information.

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