

## 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

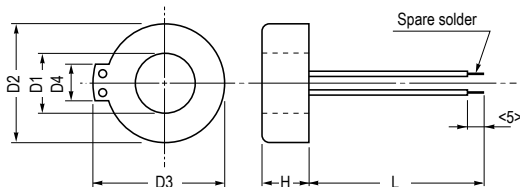


## Ordering Information

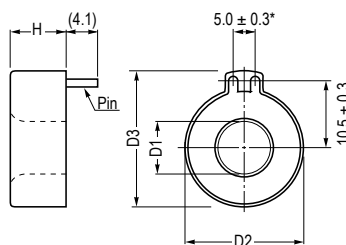
MR-	1
Series	Shape Classification
MR	1
	2
	3
	4
	1-P5

## 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:  $\phi 0.8$  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 $\Omega$ $i_o$ = 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.

## KEMET Corporation World Headquarters

2835 KEMET Way  
Simpsonville, SC 29681

Mailing Address:  
P.O. Box 5928  
Greenville, SC 29606

www.kemet.com  
Tel: 864-963-6300  
Fax: 864-963-6521

**Corporate Offices**  
Fort Lauderdale, FL  
Tel: 954-766-2800

## North America

**Northeast**  
Wilmington, MA  
Tel: 978-658-1663

**Southeast**  
Lake Mary, FL  
Tel: 407-855-8886

**Central**  
Novi, MI  
Tel: 248-994-1030

Irving, TX  
Tel: 972-915-6041

**West**  
Milpitas, CA  
Tel: 408-433-9950

**Mexico**  
Guadalajara, Jalisco  
Tel: 52-33-3123-2141

## Europe

**Southern Europe**  
Sasso Marconi, Italy  
Tel: 39-051-939111

Skopje, Macedonia  
Tel: 389-2-55-14-623

**Central Europe**  
Landsberg, Germany  
Tel: 49-8191-3350800

Kamen, Germany  
Tel: 49-2307-438110

**Northern Europe**  
Wyboston, United Kingdom  
Tel: 44-1480-273082

Espoo, Finland  
Tel: 358-9-5406-5000

## Asia

**Northeast Asia**  
Hong Kong  
Tel: 852-2305-1168

Shenzhen, China  
Tel: 86-755-2518-1306

Beijing, China  
Tel: 86-10-5877-1075

Shanghai, China  
Tel: 86-21-6447-0707

Seoul, South Korea  
Tel: 82-2-6294-0550

Taipei, Taiwan  
Tel: 886-2-27528585

**Southeast Asia**  
Singapore  
Tel: 65-6701-8033

Penang, Malaysia  
Tel: 60-4-6430200

Bangalore, India  
Tel: 91-806-53-76817

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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.