



# Thermal Sensors

## TRS™ Series Thermal Reed Switch & OHD™ Series Thermal Guard



### Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

### Features & Benefits

- No control circuit required
- High reliability
- Good for threshold thermal control
- Sensing temperature range of +30°C to +130°C
- Excellent accuracy of ±2.5°C
- Screw clamp for easy installation
- Excellent environmental durability
- Long operational life
- RoHS compliant

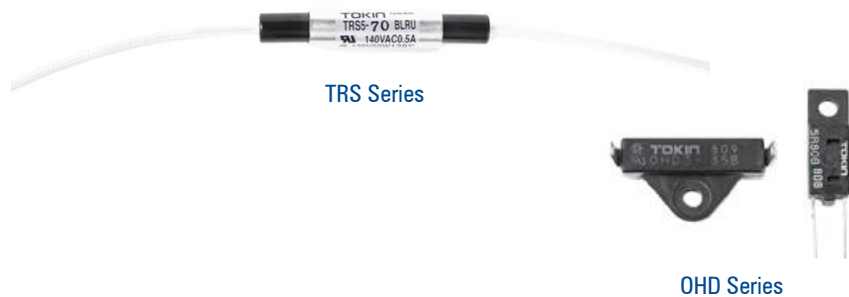
### Product Checklist

- At what temperature should the sensor be activated, or switched?
- What are your temperature accuracy requirements?
- Is the application designed to switch AC or DC power?
- What current values will be switched by the sensor?
- What voltage is being switched?
- Does the design require a Break or Make sensor?
- How will the sensor be mounted?
- Is the operation of the thermal sensor affected by magnetic and/or electric fields?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

### Applications

- Digital appliances
- Power electronics
- Automotive applications
- Air conditioners



### Ordering Information

#### TRS Series

TRS	5-	50	B	LR		V	U
Series	Reed Switch Type	Operating Temperature (°C)	Contact Type	Shape Classification	Space	Rated Voltage (VDC)	Approvals
TRS	5	50 60 70 80 90 100 110 120 130	B = Break	LR = L type with Tin	Insert space here	Blank = 100 V = 200	Blank = No approvals U = UL & CSA approved

#### OHD Series

OHD	1-	40	B
Series	Model Number	Operating Temperature (°C)	Contact Type
OHD	1 3 5R	30 35 40 45 50 55 60 65 70 75	B = Break M = Make (OHD1 & OHD3 Series only)



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### Electrical/Physical Characteristics

Part Number	Voltage (VDC)	Maximum Break Current (A)	Maximum Break Voltage (VAC)	Maximum Break Power (W)	Operating Temperature Range (°C)	Operating Temperature Precision (°C)
<b>TRS Series</b>						
TRS5-__BLR U	100	0.5	140	50 AC	50 – 130	±2.5
TRS5-__BLR VU	200	0.275	264	60.5 AC		

Part Number	Contact Type	Maximum Activation Voltage (V)	Maximum Activation Power (W)	Minimum/Maximum Activation Current	Maximum Contact Resistance (mΩ)	Insulation Withstand Voltage	Minimum Insulation Resistance	Operating Temperature Range (°C)	Operating Temperature Precision (°C)
<b>OHD Series</b>									
OHD1-__M	Make	110 AC/DC	6 AC/DC	0.1 mA / 1 VDC 0.3 AC/DC	150	2,500 VAC / 1 minute or 3,000 VAC / 1 second	500 VDC to 100 MΩ	40 – 120	±5
OHD1-__B	Break							30 – 120	
OHD3-__M	Make							40 – 120	
OHD3-__B	Break							30 – 120	
OHD5R-__B	Break	30 DC	1 DC	0.1 mA/ 1 VDC 0.1 DC	300	1,500 VAC / 1 minute or 1,800 VAC / 1 second	60 – 120		