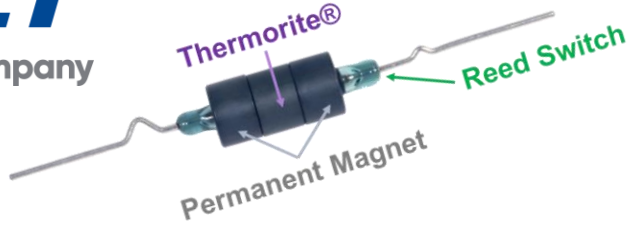




a YAGEO company



Overview

The KEMET TRS, TRS-P and OHD series of thermal switches are based on a proprietary material that changes magnetic permeability with temperature, Thermorite. With this material it is possible to make reed switches that can make or break a connection at a given temperature. The simple implementation does not require the use of any additional circuitry such as microcontrollers to create an action at a given temperature.

Product Highlights

- 2.5°C temperature accuracy
- No external components needed
- RoHS and REACH Compliant
- Operating temperature range from -10°C to +130°C in 5° increments

Electrical Characteristics

- Available in normally open and normally closed configurations
- 150 - 350 mΩ contact resistance
- Maximum AC voltage 260 V
- 10°C hysteresis
- Maximum DC voltage 200 V
- Lamp load available for TRS-P

Typical Applications

Temperature control

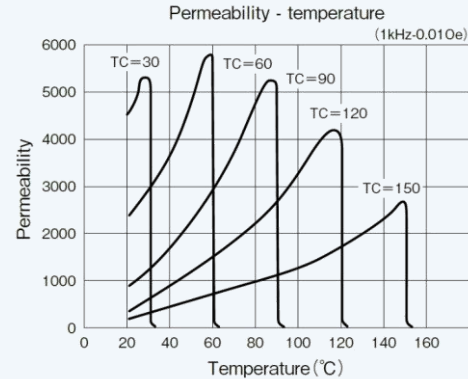
- White goods
- Aquarium heater

Overheat protection

- Industrial equipment and engine
- Agricultural engine
- Power supply
- IGBT module
- Motor and inverter
- Radiator, heating and fan control

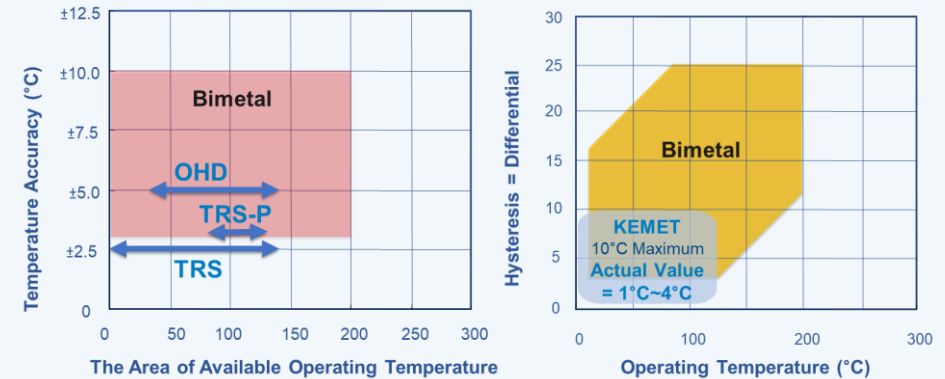
TRS, TRS-P & OHD Series Thermal Switches

Thermal Characteristics

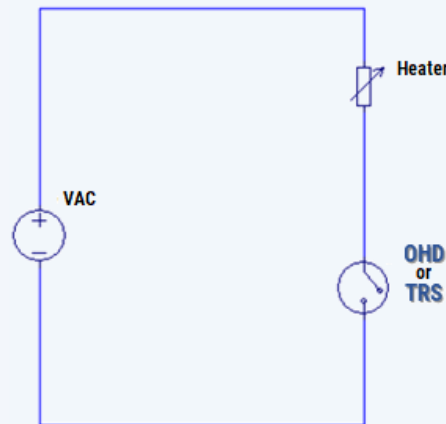


TC=Curie temperature

Comparison to Bimetal Switches



Simple Circuit Design



Simple is Best!

Form Factors

