MICROTEMP® Thermal Cutoffs: INTRODUCTION

Upper Limit Temperature Protection

MICROTEMP® thermal cutoffs from Therm-O-Disc offer an accurate, reliable solution to the need for upper limit temperature protection. Known as a thermal fuse, thermal link, or TCO, the MICROTEMP® thermal cutoff provides protection against overheating by interrupting an electrical circuit when operating temperatures exceed the rated temperature of the cutoff.

MICROTEMP® Features:

- One-shot operation cuts off electrical power
- Current interrupt capacity up to 25 amps @ 250VAC
- Low resistance
- Compact size

Operating Principle of the MICROTEMP® TCO

The active trigger mechanism of the thermal cutoff is an exclusively formulated, electrically nonconductive pellet. Under normal operating temperatures, the solid pellet holds spring-loaded contacts closed.

When a predetermined temperature is reached, the pellet melts, allowing the compression spring to relax. The trip spring then slides the contact away from the lead and the circuit is opened *(see figures 1 and 2)*.

After a MICROTEMP® thermal cutoff opens a circuit, the TCO needs to be replaced. This replacement procedure must include correction of the fault condition before the product is operated again.

MICROTEMP® G4, G6 & G7 Series TCO

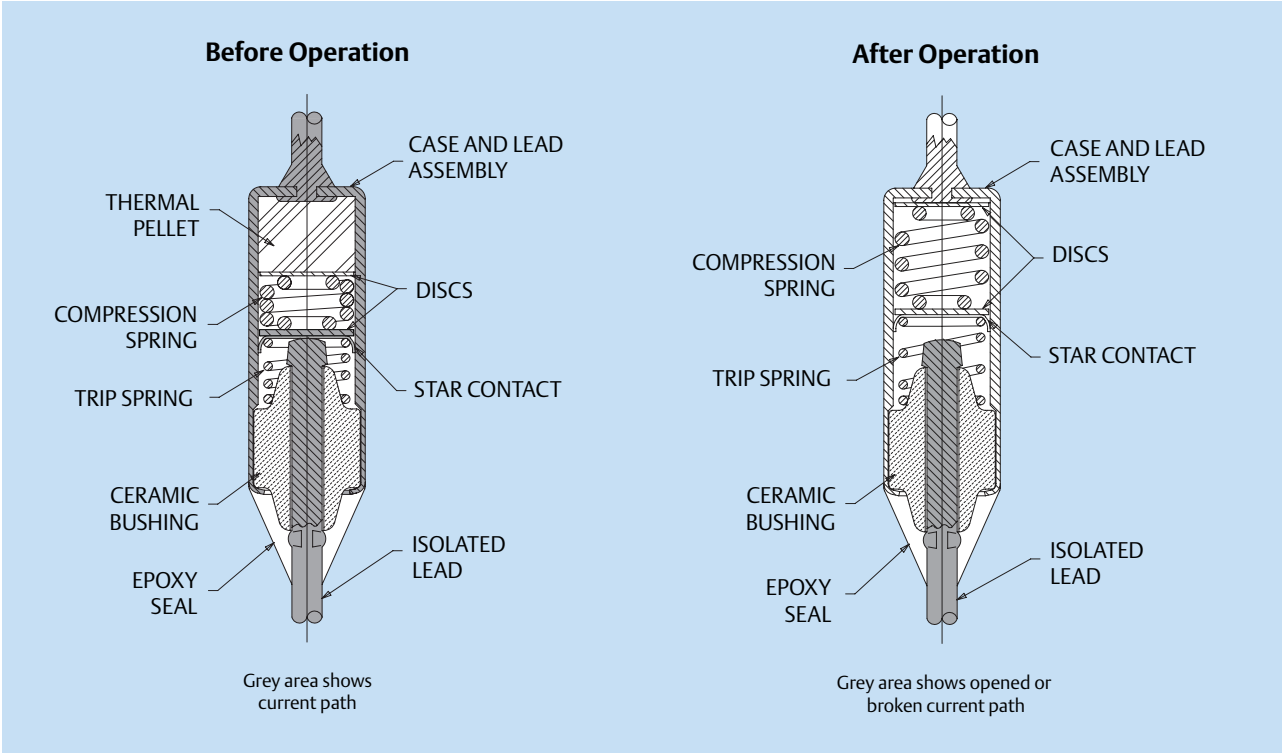

Figure 1

MICROTEMP® G5 & G8 Series TCO

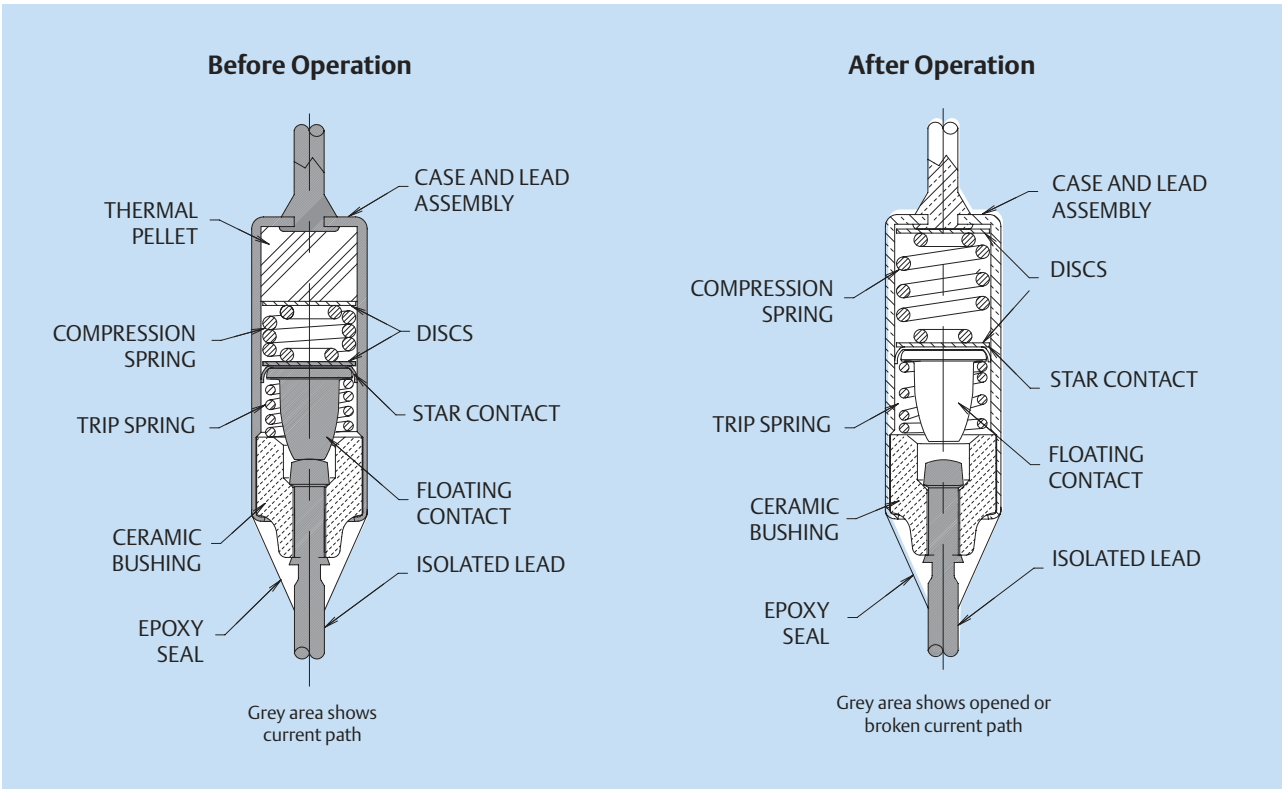

Figure 2