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

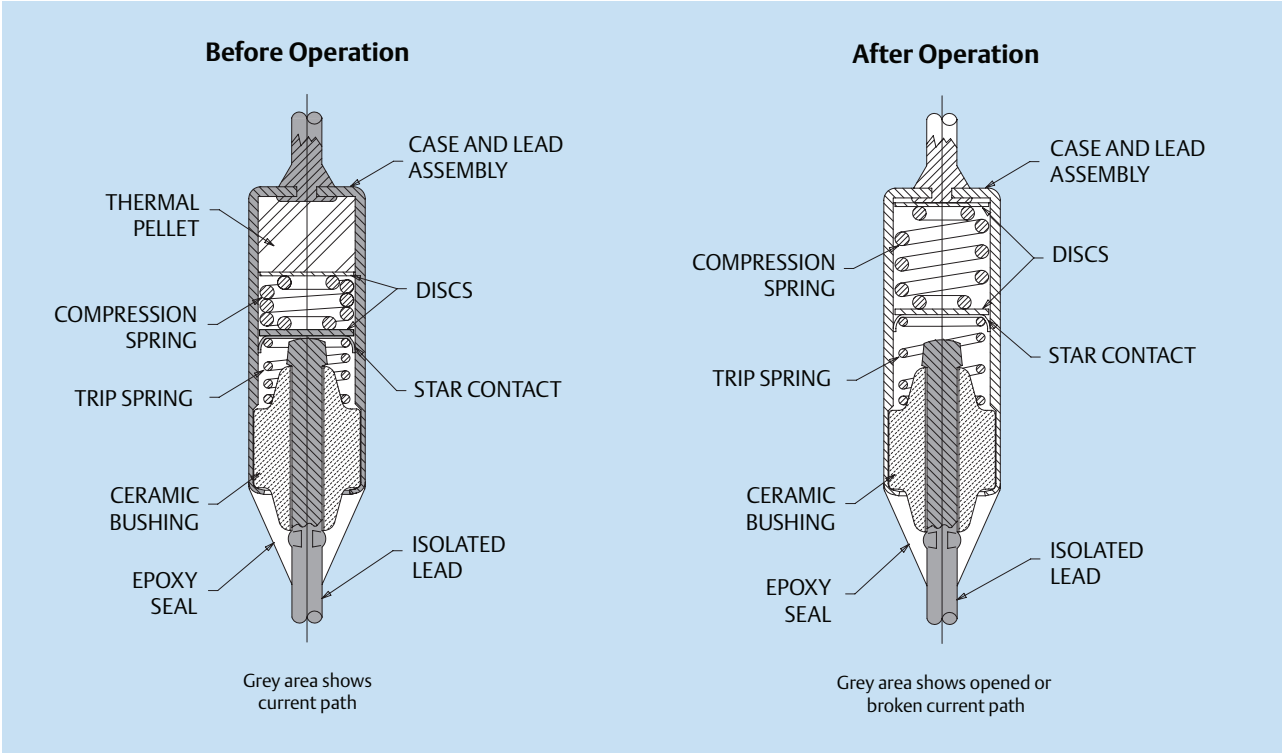

Figure 1

MICROTEMP® G5 & G8 Series TCO

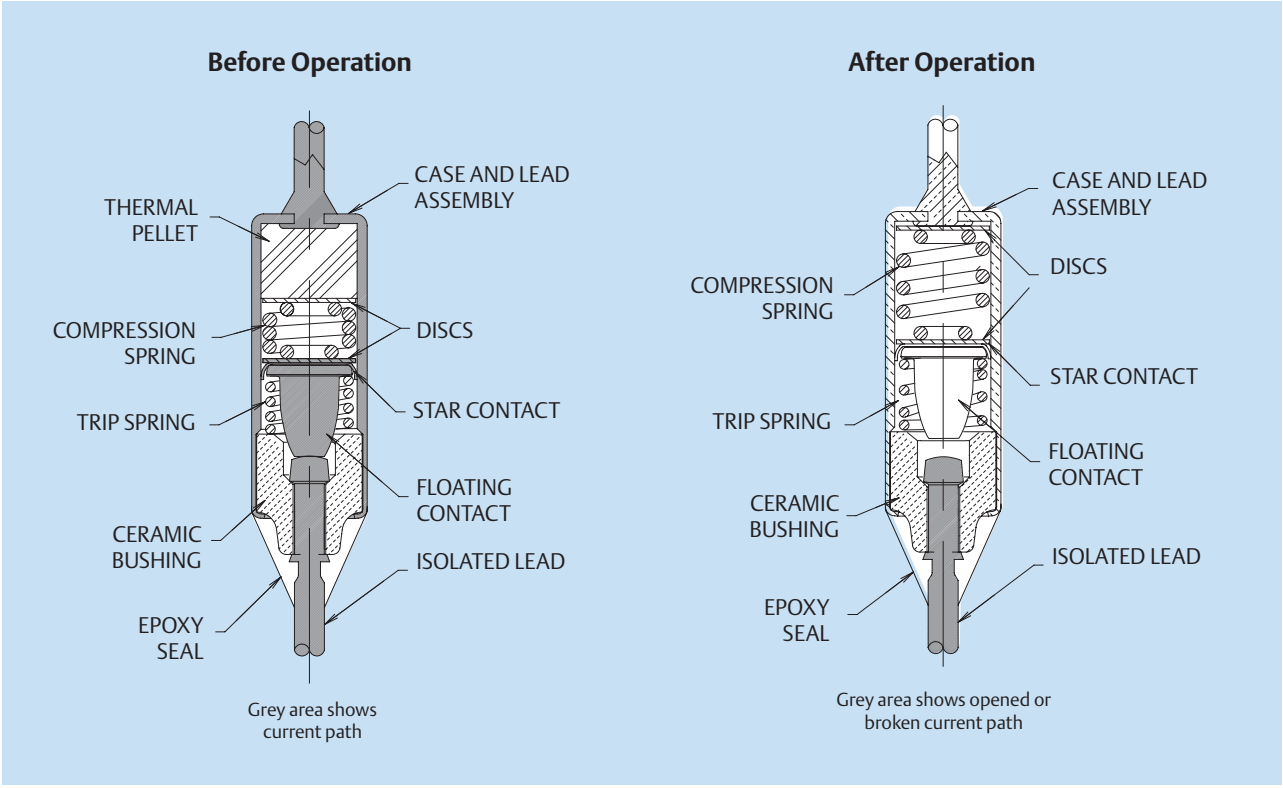

Figure 2