

Resistance Temperature Detectors



FEATURES

MIL-T-7990B Qualified
Thread Mounted
Low Stem Conduction
Hermetically Sealed Tip
Fully Corrosion Resistant
Lockwire Holes

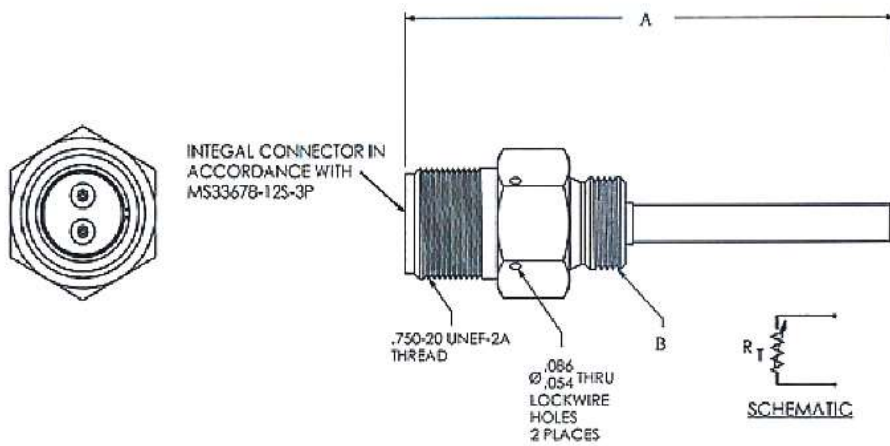
BENEFITS

Unlike conventional designs which use mechanical “rolling” to capture the element, our sensors are laser-sealed for life using a leak-proof silver braze joint. The FAS-TIP element is lower in thermal mass and responds to temperature changes up to 3 times faster than competing designs

APPLICATIONS

Engine Oil | Cabin Air
Fuel System | Hydraulic System
Gearbox | Outside Air
Cylinder Head | Climate Control
Bleed Air | Engine Inlet Air

- Calibrated to the requirements of MIL-T-7990B, but are available in other R vs T response curves. Dual or triple elements are frequently supplied. Sensing elements may be housed in a common stem or may have separate stems
- Custom versions of these sensors can be made to meet your exact requirements. Flange mounting in 1-4 bolt designs are available and in most cases o-ring or gasket sealing is specified
- Wiring may be provided in 2, 3 or 4-wire connection including a ground pin for shield bonding. Hermetically sealed receptical, flying lead termination or connector plug termination are all options



| Norwich P/N | Cross reference | Stem Length Dim "A" | Thread Dim "B" |
|-----------------------|-----------------|---------------------|---------------------|
| 102-00000 (MS28034-1) | LR-56B3A | 1.875" | 5/8" - 18UNF - 3A |
| 102-00001 (MS28034-2) | LR-56B4A | 4.000" | 5/8" - 18UNF - 3A |
| 102-00002 (MS28034-3) | LR-56B17 | .325" | 7/16" - 20UNJF - 3A |
| 102-00006 (MS28034-4) | LR-56B3G | 1.875" | 3/4" - 16UNF - 3A |

Typical Performance Specification

| | |
|------------------------------|--|
| Response Time | (63.2 % of a step change) 1.2 s |
| Insulation Resistance | 2MΩ min @100 VDC (Typically > 1,000MΩ) |
| Dielectric Strength | 0.5 mA @ 500 VAC (Design available to withstand 1,000 VAC or 1,500 VAC) |
| Operating Pressure | 1,000 PSI (Special designs to 7,500 PSI) |
| Resistance vs Temp | MIL-T-7990B, table 1 standard. Other curves available, consult factory |
| Operating Temp | -70 °C to 300 °C. Special designs to 400 °C |
| Connector Type | MIL-C-5015 others available |
| Vibration | MIL-T-7990B, Para 4.6.4.1 & 4.6.10. Fortified designs to 20 g @ 4 kHz |
| Materials | Strainless Steel housing & connector shell with FAS-TIP sensing element |