

**Resistance
Temperature
Detector**

APPLICATIONS:

- Liquid

**102-00002
MS28034-3
Nickel**

Norwich Aero Products, Inc.

Norwich Aero Products, Inc. is a leading supplier of thermocouples, nickel and platinum resistance temperature detectors (RTD's), speed sensors and electrical subsystems to the aerospace, commercial and military applications.

General Remarks:

Presently in use in government and general aviation industry under liquid and gaseous conditions, this sensing device exceeds stringent U.S. Military Specifications for response time, burst pressure, and AC high potential tests.



Features:

- Fast Response
- Single Element
- Hermetic Seal, Tip
- Weld Internal Construction
- Low Stem Conduction
- Integral Connector
- 2-Wire Element
- Corrosion Resistant
- Thread Mounted

Norwich Aero Products, Inc.

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Sensing Solutions



Resistance Temperature Detector

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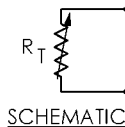
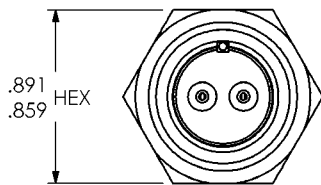
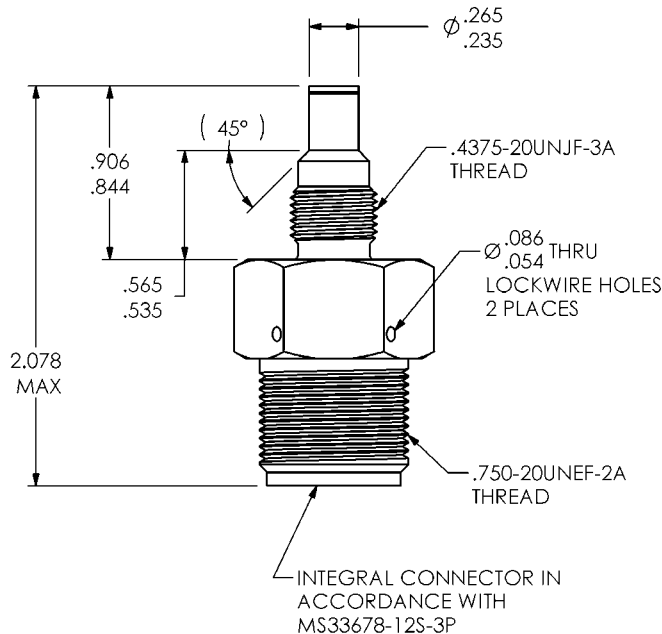
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Technical Data:

P/N 102-00002 (MS28034-3)

- **Response Time:** (63.2% of Step) 1.3 sec. (typ.)
- **Insulation Resistance:** 1000 Megohms @ 100 VDC
- **AC Breakdown:** <.5 ma @ 500 VAC
- **Operating Pressure:** 200 PSI
- **Burst Pressure:** >600 PSI
- **R vs. T Curve Data:** Per MIL-T-7990B, Table I
- **Self-Heating:** Error
- **Operating Temp. Range:** -70° C to 300°C
- **Vibration Specification:** MIL-STD-810C, Method 514.2 Procedure I, Cat. B.I, Curve L
- **Weight:** .12 lbs (Typ.)
- **MIL or Standards Society Spec:**
MIL-T-7990B, MIL-STD-810,
MIL-C-5015, MS28034,
FED-STD-151, MIL-STD-105
- **Materials:**
Stainless steel housing and connector shell with
FAS-TIP sensing element



A compact lightweight nickel sensor qualified to MIL-T-7990B except with reduced tolerances (from -60°C to +150°C). This device is best applied to temperature measurements of gearbox oil, fuel and hydraulic (low pressure) fluids. Ideal for limited clearance applications. This sensor responds rapidly to temperature changes and has minimal stem conduction error when considering its compact dimensions.

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