



MS28034 Series Temperature Sensors (Nickel RTDs)

FEATURES

- Nickel RTDs in accordance with MIL-DTL-7990D, Qualified Products Listed (QPL) to MS28034-1, MS28034-2, MS28034-3 and MS28034-4
- Thread mounted
- Cylindrical electrical connector
- Corrosion Resistant
- Hermetically sealed sensing tip
- Lockwire holes

BENEFITS

- Millions of cumulative flying hours
- High accuracy
- Low drift (stable accuracy)
- Fast response time
- Low stem conduction
- Integral connector
- Light weight design
- Robust design
- Reliable and long life
- Proven technology with over 35 years of pedigree

APPLICATIONS

- Engine Oil
- Cabin Air
- Outside Air (Unheated)
- Fuel System
- Hydraulic System
- Gearbox Oil
- Air Management

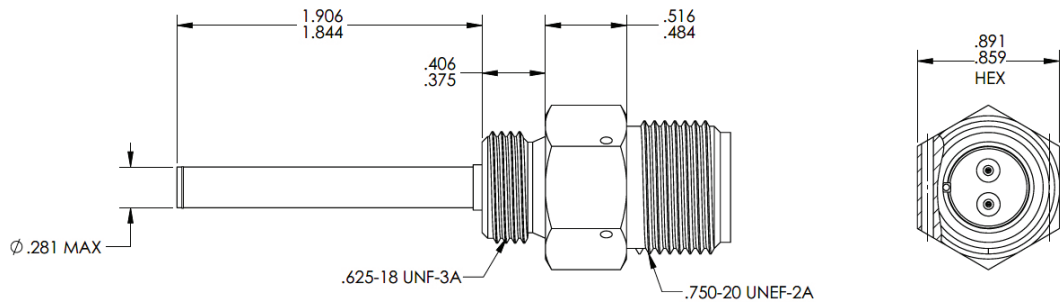


- Auxitrol Weston's (Norwich Aero) MS28034 series of nickel RTDs have been QPL certified by the US Defense Logistics Agency (DLA) for over 35 years. These temperature sensors have amassed millions of flight hours.
- Presently in use in government and general aviation applications under liquid and gaseous conditions, this temperature sensing device exceeds stringent performance requirements of US Military Specifications
- Auxitrol Weston's sensing elements are laser sealed into the stainless-steel body to assure no ingress of moisture or other contamination which could degrade the performance and reduce reliability.
- The unique sensing element design is lower in thermal mass and has a greater thermal conduction surface, enabling the sensors to respond to temperature changes up to 3 times faster than competing designs.
- High accuracy and low drift are achieved due to the utilization of low stress, thermally stable, robust sensing elements.
- Derivative designs available with modified configurations and enhanced performance over MIL-DTL-7990D requirements.

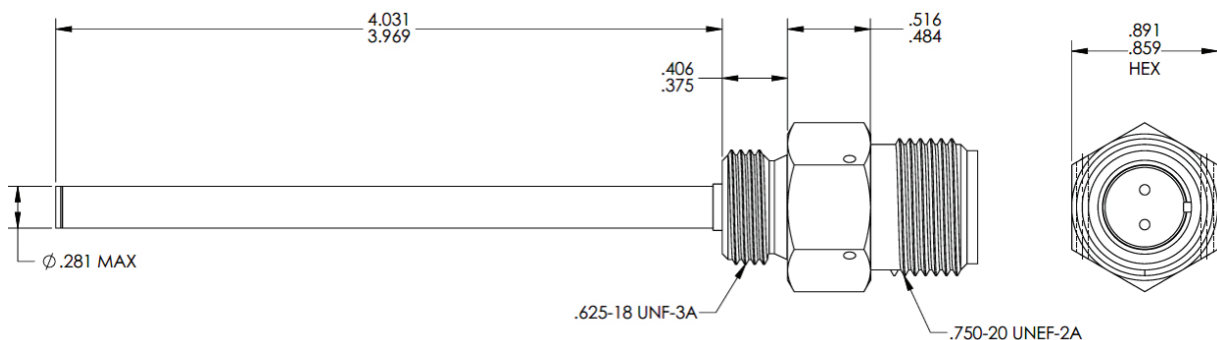
Typical Performance Specification

| | |
|----------------------------|--|
| Operating Temperature | -70° to 300°C |
| Pressure | 400 psig max. (proof), 600 psig max. (burst) per MIL-DTL-7990D, 1000 psig max. typical |
| Resistance vs. Temperature | 90.38 ohms at 0°C, 128.85 ohms at 100°C, Ref. MIL-DTL-7990D Table I |
| Accuracy | ± 1.5°C |
| Response Time | 8 seconds max. (90% step change in agitated ice bath) per MIL-DTL-7990D, 2.8 seconds typical |
| Insulation Resistance | 20 megohms min. at 100 VDC per MIL-DTL-7990D, 1000 megohms at 100 VDC typical |
| Weight | 0.25 pound max. |
| Vibration | Ref. MIL-DTL-7990D, sections 4.6.4.1 and 4.6.10 |
| Reliability | >300,000 Flight Hours (MTBF) |
| Connector | Integral connector in accordance with MS33678-12S-3P (MIL-DTL-5015) |

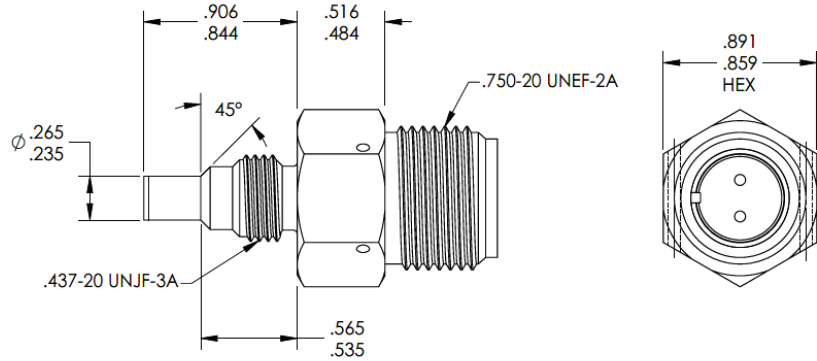
MS28034-1 (AW P/N 102-00000)



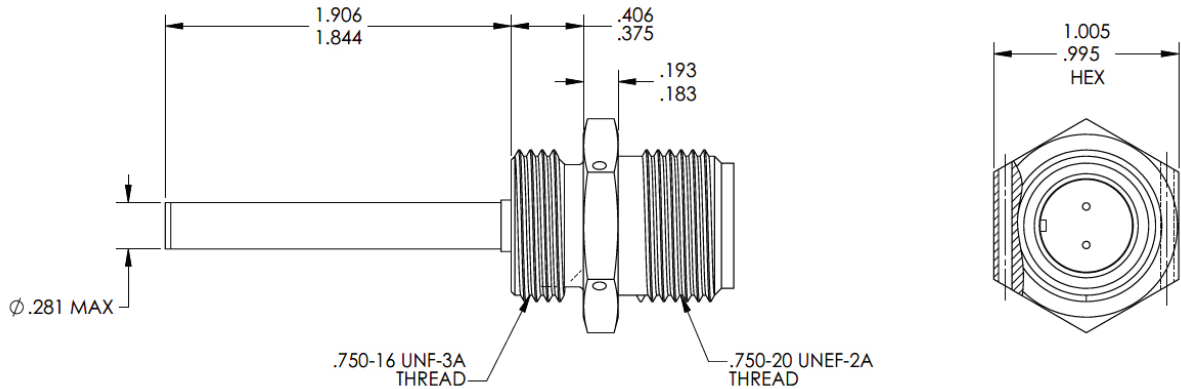
MS28034-2 (AW P/N 102-00001)



MS28034-3 (AW P/N 102-00002)



MS28034-4 (AW P/N 102-10006)



Configurations shown are in accordance with specification MS28034B, derivative designs are available with modified configurations to meet unique installations

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