



DELIVERING EXCELLENCE

LPTOS (Low Pressure Turbine Over Speed) and TOSL (OverSpeed Leadout) Harnesses

FEATURES

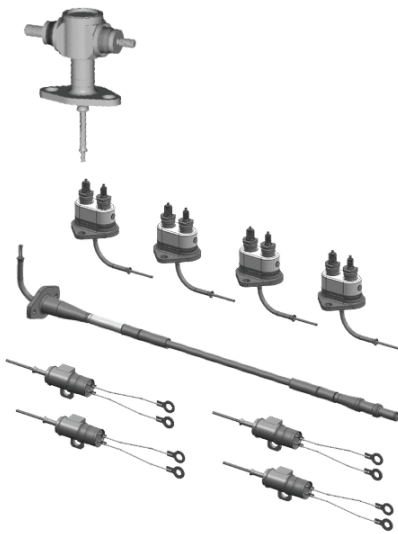
- Flexible conduit through vane with high temperature K Type, Class 1/Special Limits thermocouple
- Multiple connection options
- Optimised design to suit engine application
- LRU designs for ease of lifecycle maintenance
- Corrosion resistant, robust designs for extreme aerospace environments

BENEFITS

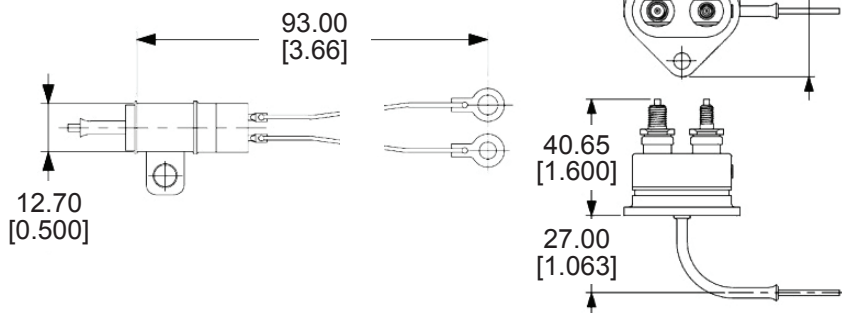
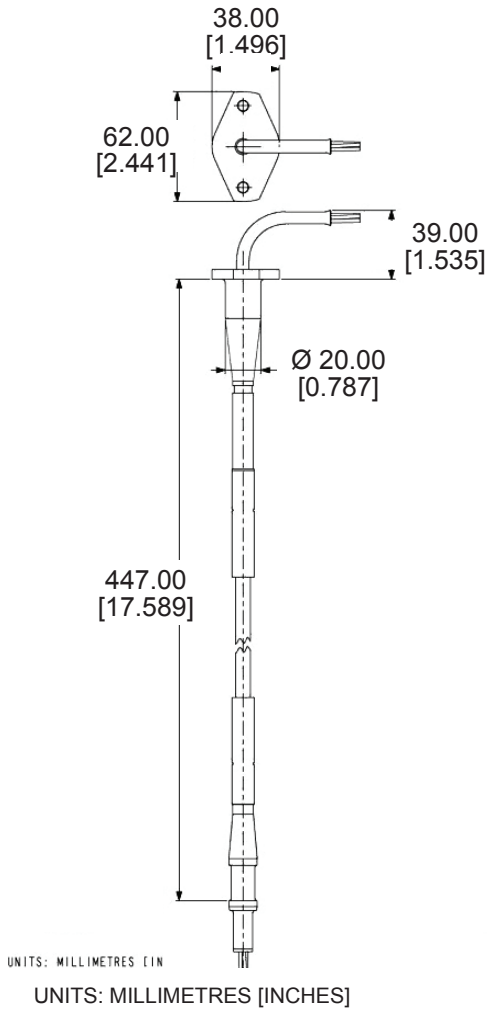
- Millions of cumulative flying hrs
- Hermetic
- Lightweight design
- Minimum channel to channel cross-talk
- Reliable and long life
- Proven technology with over 20 years of pedigree
- High levels of dielectric and insulation resistance
- Matched conductors and MI cable sheath material to minimise thermal stresses

APPLICATIONS

- RR: Trent 500, Trent 700, Trent XWB, UltraFan



- Auxitrol Weston's LPTOS and TOSL Speed Harnesses are designed to pass the LP speed probe signals from inside the Rear Bearing Housing, through the vane in the gas stream, to the externals of the engine.
- Design options include 3, 4 or 6 individual channels.
- Design options at inboard and/or outboard end include Compact or Flying lead designs, Terminal or Connector terminations, bespoke engine mounting fixing points and unique lengths.
- Option of inclusion of thermocouple leads manufactured from high temperature K Type, Class 1/Special Limits thermocouple material.
- Optimum response time (time constant) for the optioned thermocouple achieved by proprietary modifications to the element.



Typical Performance Specification

Operating Temperature (Flex Conduit)	-55°C up to 750°C (higher temperatures can be achieved by using other pedigree materials)
Operating Temperature (Pot Seals)	-55°C up to 500°C (higher temperatures can be achieved by using other pedigree materials)
Operating Temperature (Connectors)	-55°C up to 560°C with terminal studs -55°C up to 260°C with connectors (higher temperatures can be achieved by using other pedigree materials)
Insulation Resistance	>1GΩ at 500V DC
Life	>80,000 Operating Hours (depending on flight temperature profile)
Reliability (per lane)	Typically >1,000,000 Flight Hours (MTBF)
Terminals or Connectors	Ni/Cr: 10-32 UNF-2A thread, Ni/Al: ¼ UNF-2A thread EN2997 or ESC10, etc

Examples shown above are for information, dimensions can be modified to meet unique installations

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