



LVDT position sensors

- Up to 200°C (400°F) operating temperature
- Measurement range up to 500mm (20")
- Contactless technology
- Parallel & tandem duplex model
- Environmentally sealed
- Wide selection of models



Description

Active Sensors design and manufacture high temperature LVDT sensors to quality standards required for high performance aerospace control and measurement systems. Our materials selection and advanced manufacturing techniques ensure superior sensor stability, accuracy and repeatability in the most hostile of environments up to 200°C (400°F).

Precision-layered winding techniques provide the necessary environmental protection required to avoid dielectric breakdown and produce electrical output stability under vibration, acceleration, mechanical and thermal shock. We have developed our technology by the selection of the highest-grade materials, coupled with the most rigorous environmental testing.

Environmental testing available to US and European aerospace and military standards: RTCA DO160, EUROCAE/ED-14 & MIL-STD-810 -Altitude, Temperature, Humidity, Icing, Freezing rain, Shock, Vibration, Sand and dust, Fluid susceptibility and Fungus resistance.

LVDT position sensors

LT0600 series

- Measurement range up to 20mm
- Micro-slim 6.0mm body Ø
- 180°C (350°F) operating temperature
- Ultra-compact design
- Sealed as standard
- Custom designs



LT0800 series

- Measurement range up to 40mm
- Ultra-slim 8.0mm body Ø
- 200°C (400°F) operating temperature
- Ultra-compact design
- Sealed as standard
- Custom designs



LT0950 series

- Measurement range up to 50mm (2")
- Slim 9.53mm body Ø
- 200°C (400°F) operating temperature
- Sealed as standard
- Long operational life
- Custom designs



LT1300 series

- Measurement range up to 200mm (8")
- Slim 12.7mm (1/2") body Ø
- 200°C (400°F) operating temperature
- Ultra-compact design
- Sealed as standard
- Custom designs



Duplex series

- Measurement range up to 100mm (4")
- Various body sizes
- Tandem & parallel design
- 200°C (400°F) operating temperature
- Long operational life
- Custom designs



LVDT position sensors

Environmental testing

Active Sensors can provide comprehensive environmental testing tailored to suit customer's verification programmes. Our sensor designs are robust in construction and we have developed our technology by the selection of the highest-grade materials. Every year our research and development division produces new sensor designs, which can be subjected to US and European environmental aerospace and military testing standards.

- Altitude
- Temperature
- Humidity
- Icing
- Freezing rain
- Shock
- Vibration
- Sand and dust
- Fluid susceptibility
- Fungus resistance

About us

Active Sensors has for 20 years designed and manufactured a wide range of linear and rotary position sensors for precision motion control and measurement systems. With the increasing cost of engineering development programs, technical managers need to identify reliable and cost-effective program partners. Active Sensors is an ISO9001 certified company providing a wide range of mission critical position sensors for aerospace applications

Active Sensors have a team of engineers with specific LVDT design and manufacturing capabilities and would welcome the opportunity to discuss your application in more detail. If you have a technical question regarding the suitability of LVDT sensors for your measurement system, please contact us.

Contact details

Europe

Active Sensors Ltd
Unit 12, Wilverley Road
Christchurch, Dorset
BH23 3RU
UK



North America

Active Sensors Inc.
8520 Allison Point Blvd Suit 220
Indianapolis
IN 46250
USA



DSPM Industria
sensori & trasduttori

Via Paolo Uccello 4 20148 Milano
Tel +39 02 48 009 757 Fax +39 02 48 002 070
info@dspmindustria.it www.dspmindustria.it

Additional product information

The information contained in this data sheet on product applications should be used by customers for guidance only. Active Sensors makes no warranty or representation in respect of product fitness or suitability for any particular design application, environment or otherwise except as may subsequently be agreed in the contract for the sale and purchase of products. Additionally, Active Sensors gives no guarantee or warranty for its products in critical control applications, typically in life support systems and the aviation and nuclear industries, where product failure may result in injury, loss of life or catastrophic property damage. Customers should therefore satisfy themselves of the actual performance requirements and subsequently the products suitability for any particular design application and the environment in which the product is to be used.
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