

# LTDP1307

## Duplex parallel LVDT sensor

### (Linear Variable Differential Transformer)

The LTDP1307 LVDT sensor contains design features that make it suitable for use in high temperature, severe vibration and high cyclic, contaminated applications.

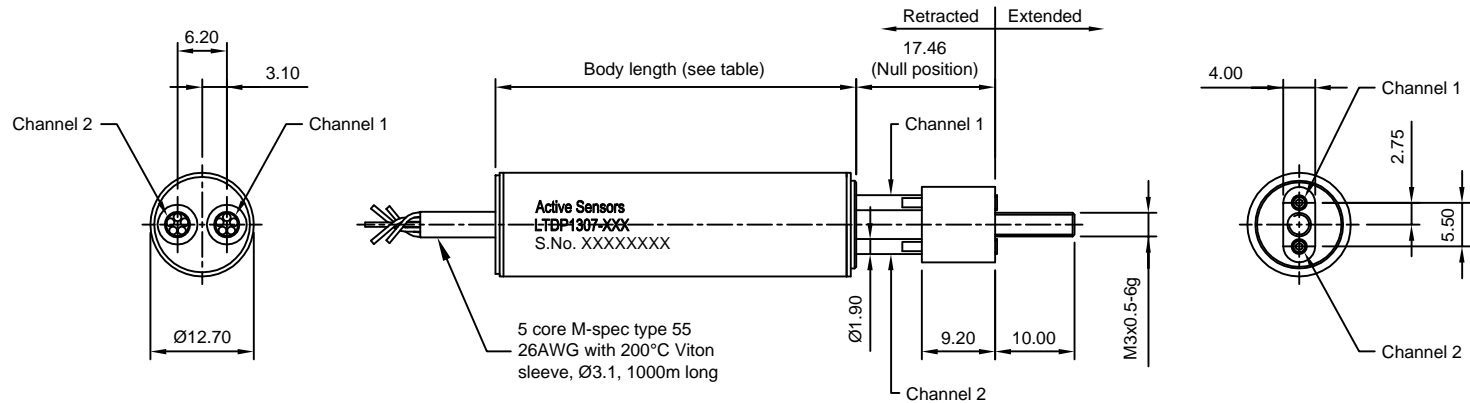
The design has twin LVDT's (duplex) in a common body for redundancy in critical aerospace control systems. The sensor is housed in a TIG welded stainless steel body and fitted with fire and chemical resistant, high temperature signal cabling. The LVDT sensor has an operating temperature range of -55°C to +200°C.

A measurement range of 5mm to 20mm is available with various mounting options.

### Other models in this range

LTDP1907 - duplex parallel

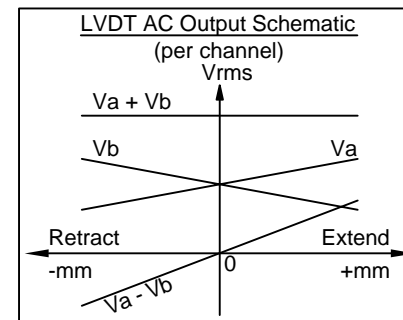
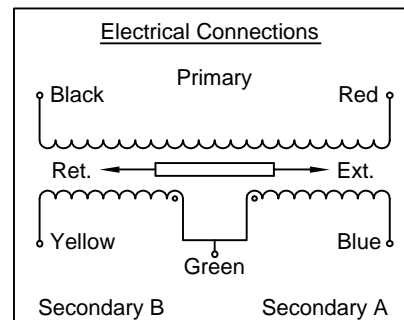
Also see Active Sensors electronics for LVDT sensors



### Electrical & Mechanical Information (per channel)

Input conditions	3.0V RMS ±10% @ 5 KHz ±0.1%	
Electrical stroke	15 (±7.5)	mm
Mechanical stroke	±8.5	mm
Body Length	45.5	mm
Null position	17.46	mm
Phasing between channels	<2.0	%
Ratiometric crosstalk	<0.15	%
Summed output voltage - nominal	0.355	V/Vin
Ratiometric sensitivity ±3%	0.0530	/mm
Non - linearity least squares best fit	<±0.5	%
Input impedance	>300	Ohms
Operating temperature	- 55° to + 200°	°C
Environmental	Sealed	
Case material	Stainless Steel 410	
Shaft material	Stainless Steel 316	

Note 1. Ratio calculation expressed as (A-B)/(A+B)



**Ordering Information**

**LTDP1307-015**

Active  
sensors

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