

LVDT position sensors



LT0800 ultra-slim range



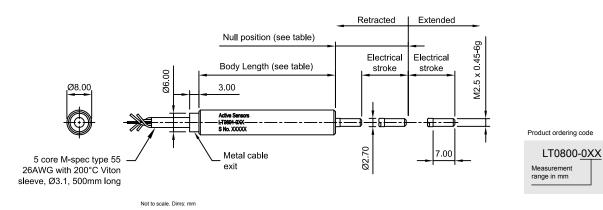
- Measurement range: up to 40mm
- Ultra-slim 8.0mm body Ø
- 200°C (400°F) operating temperature
- Ultra compact
- Sealed as standard
- Raychem cabling

The LT0800 sensors contains design features which make it suitable for applications where high temperature, severe vibration, high cycling and fluid contamination are important considerations. The sensor is used in installations when size, performance and reliability are part of the design criteria and are used extensively in motorsport control systems for throttle and clutch actuation. Other applications include flight control and measurement systems. The sensor housing is manufactured from stainless steel and is environmentally sealed and fitted with Raychem fire & chemical resistant, high temperature Viton-type 55-26 signal cabling for total system reliability. The LVDT sensor is designed to convert the linear movement of a separate non-contacting core or shaft into a proportional voltage output.

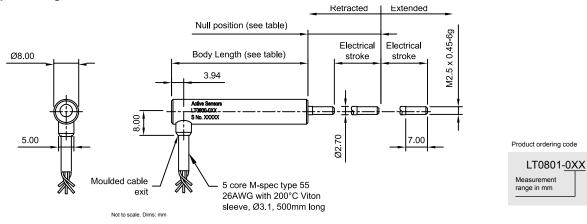
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LT0800 - body clamp mounting / rear cable exit

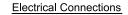


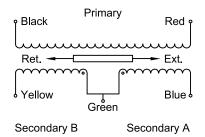
LT0801 - body clamp mounting / side cable exit

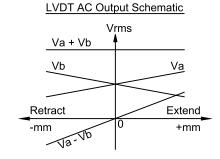


Electrical & mechanical information for LT0800 range

Input conditions	3.0V RMS ±5% @ 2.5 KHz ±5%				
Electrical stroke	10 (±5.00)	20 (±10.00)	25 (±12.50)	40 (±20.00)	mm
Mechanical stroke (min.)	±6.00	±11.00	±13.50	±21.00	mm
Body length	32.0	45.0	50.0	65.0	mm
Null position	15.0	20.0	23.0	30.0	mm
Summed output voltage ±20%	0.670	0.575	0.635	0.850	v/v
Ratiometric sensitivity ±5%	0.0560	0.0535	0.0460	0.0300	/mm
Non-linearity	<±0.5				% FS
Input impedance	>150				Ohms
Operating temperature	-55° to +200°				°C
Environmental	Sealed construction				
Materials	Housing - 400 Series stainless steel Armature - nickel iron alloy				



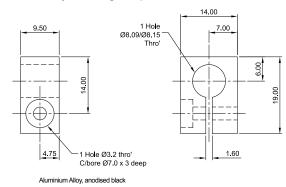




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Body mounting clamps. Part no: PT0800-0109



Other LVDT position sensor models available



Please see separate datasheet for electronic signal conditioning for LVDT sensors.

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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 it 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 and specification without prior notification. © Active Sensors

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