



**For use in:**  
 Test and Measurement  
 Factory Automation  
 Valve Positioning  
 OEM Systems

# LA-20.6 Series General Purpose AC-LVDT

Ideal for Standard Industrial Applications

The LA-20.6 series AC-LVDT (Linear Variable Differential Transformer) linear position sensors by H.G. Schaevitz LLC dba Alliance Sensors Group are contactless devices designed for industrial and commercial applications, such as: factory automation, metal and paper mills, valve position, robotic assembly systems, and throttle position feedback. This general purpose linear device has excellent price-to-performance and stroke-to-length ratios, making the LA-20.6 AC-LVDTs ideal for use in test and measurement laboratories, industrial automation equipment, and many OEM positioning applications.

LA-20.6 series AC-LVDTs are offered in 11 ranges from  $\pm 0.050$  to 10.0 inches ( $\pm 1.27$  to 254.0 mm) with excellent linearity and infinite resolution. LA-20.6 series AC-LVDTs operate from a nominal 3 Vrms, 2.5 to 3.3 kHz excitation source. They are packaged in a 0.812 inch (20.6 mm) OD stainless steel housing and are offered with either a unified or metric threaded 0.250 inch (6.35 mm) diameter core, 12 inch (300 mm) long lead wires, and have an 0.313 inch (8.0 mm) ID for good core-to-bore clearance. It has a wide operating temperature range.

When mated with ASG's industrial AC-LVDT DIN-rail-mountable signal conditioner, an LA-20.6 series AC-LVDT becomes part of a complete measurement solution.

ASG AC-LVDTs are also offered in larger body and longer range versions, including the LA-9.5, LHA-19, LA-21, LA-25, and LA-27.

### Features:

- General Purpose AC-LVDT
- 0.812 inch OD Stainless Steel Housing

### Options:

- Metric Threaded Core
- Mild Radiation Resistance
- 400° F High Temperature

### Specifications:

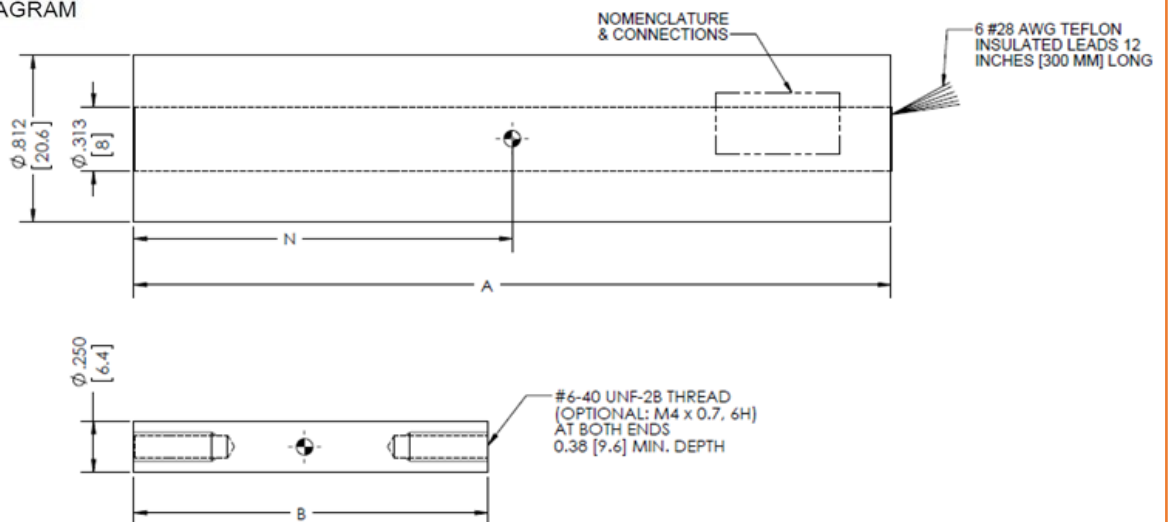
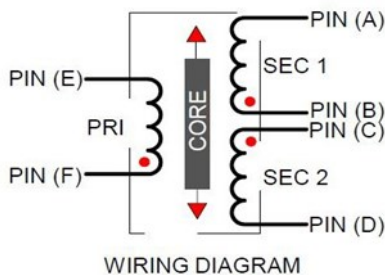
- Available Ranges:  $\pm 0.050$ ", 0.100", 0.200", 0.500", 1.00, 2.00", 3.00", 4.00", 5.00", 7.50", and 10.0"
- Excitation Frequency: 2.5 to 3.3 kHz
- Excitation Voltage: 3 V ACrms nominal
- Linearity Error:  $\leq \pm 0.25\%$  of FSO (typical 0.15%)
- Null Voltage:  $< 0.05\%$  of FSO
- Operating Temperature: -55 to 125 C
- Temperature Coefficient:  $< -0.02\%$  FSO/K
- Humidity: 95% RH, non-condensing
- Shock: 1000 g, 11 msec.
- Vibration: 20 g to 2 kHz

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Ordering Information:

Series Name	Body Diameter, mm (XX)	Termination Topology (X)	Bipolar Range, Inches (XX)	I/O Connection (XX)	Options (XX)
LA	20.6– 20.6 mm (0.812 inch)	A - Axial	0.05 - +/- .050 inches	12 - 12 Inch Leads	06—Metric Threaded Core
			0.1 - +/- .100 inches		
			0.2 - +/- .200 inches		
			0.5 - +/- .500 inches		
			01 - +/- 1.0 inches		
			02 - +/- 2.0 inches		
			03 - +/- 3.0 inches		
			04 - +/- 4.0 inches		
			05 - +/- 5.0 inches		
			07.5 - +/- 7.5 inches		
			10 - +/- 10.0 inches		



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All specifications are subject to change without notice.

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