

For use in:

Dimensional Gaging and Metrology Medical & Automotive Test Strands Surface/Web Profiling Factory Automation Material Testing

LAS-19-A Series

Spring-Loaded AC-LVDTs

Ideal for Heavy Duty Industrial Applications

The LAS-19-A series AC-LVDT (Linear Variable Differential Transformer) linear position sensors by H.G. Schaevitz LLC dba Alliance Sensors Group are spring-loaded, hermetically-sealed, contactless devices designed for industrial and commercial applications such as factory automation, metal and paper mills, valve position, robotic assembly systems, pharmaceutical and food processing, and outdoor or wet environment applications. This ruggedized linear sensing device has excellent price-to-performance and stroke-to-length ratios, making LAS-19-A AC-LVDT sensors ideal for use in power generation and industrial automation equipment, and in many OEM positioning applications.

LAS-19-A series AC-LVDTs are offered in 6 ranges from ± 0.050 to ± 2.00 inches (± 1.27 to ± 50 mm) with excellent linearity and infinite resolution. LAS-19-A series AC-LVDTs operate from a nominal 3 Vrms, 2.5 - 3.3 kHz excitation source. They are packaged in a 0.750 inch (19.0 mm) OD hermetically-sealed stainless steel housing with a 1/2-20 UNF mounting thread and two hex jam nuts, a 0.210 inch diameter (5.3 mm) probe with an AGD No 9 contact tip, and a 6-pin PTO2A-10-6P axial connector.

When mated with ASG's industrial AC-LVDT DIN-rail-mountable signal conditioner, an LAS-19 series AC-LVDT becomes part of a complete measurement solution.

ASG AC-LVDTs are also offered in other body and range series, including the LA-9.5, LA-19, LA-20.6, LA-21, LA-25, and LA-27. For more information, got to www.alliancesensors.com.

Features:

- Spring-loaded AC-LVDT
- Hermetically sealed 0.750 inch OD stainless steel housing
- 1/2-20 UNF mounting threads with nuts
- Axial PTO2A-10-6P Connector

Specifications:

Available Bipolar Ranges ± 0.050, 0.125, 0.250, 0.500, 1.00, and 2.00 inches

Excitation Frequency 2.5 to 3.3 kHz

Excitation Voltage 3 V ACrms nominal

Linearity Error ≤±0.25% of FSO (typical 0.15%)

Null Voltage ≤0.05% of FSO

Operating Temperature -65 to 220°F (-55 to 105° C)



LAS-19-A Series

Specifications Con't:

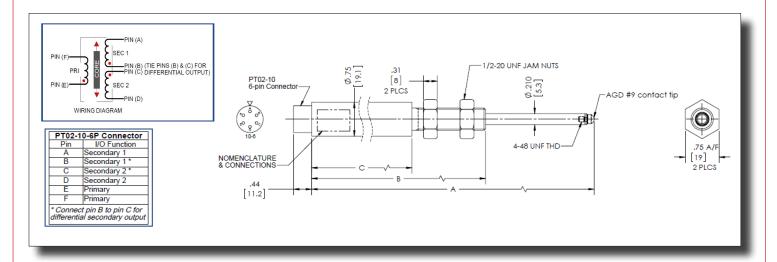
Temperature Coefficient ≤-0.02% FSO/K

Humidity 90% R.H., 240 Hours Shock 1000 gs, 11 msec.

Vibration 20 gs to 2 kHz

Ordering Information:

Series	Body Diameter, mm	Termination Topology	Bipolar Range, Inches	I/O Connection
LAS	XX-	X-	XX-	XX-
	19 - 19 mm (0.75 inch)	A - Axial	0.05 - +/050 inches	12 - 12-inch leads
			0.125 - +/125 inches	
			0.25 - +/250 inches	
			0.5 - +/500 inches	
			01 - +/-1.0 inches	
			02 - +/-2.0 inches	



Nominal Range	Sensitivity	Primary Z	Length A	Length B	Length C	Pretravel	Overtravel	Weight
inches [mm]	mV/V/.001in [mm]	Ohms	inches [mm]	oz. [grams]				
±0.050 [1.3]	6.10 [240]	325	4.61 [117]	3.51 [89]	1.97 [50]	0.12 [3.0]	0.12 [3.0]	2.89 [82]
±0.125 [3.0]	3.90 [153]	735	5.26 [134]	4.15 [105]	2.60 [66]	0.13 [3.3]	0.13 [3.3]	3.39 [96]
±0.250 [6.3]	2.50 [98]	1400	6.02 [153]	4.91 [125]	3.35 [85]	0.10 [2.5]	0.10 [2.5]	4.00 [113]
±0.500 [12.7]	0.65 [26]	1200	10.54 [268]	9.05 [230]	5.88 [149]	0.10 [2.5]	0.10 [2.5]	6.00 [170]
±1.000 [25]	0.61 [24]	1250	12.81 [322]	10.51 [267]	7.34 [186]	0.05 [1.3]	0.05 [1.3]	6.31 [179]
±2.000 [50]	0.37 [14]	2150	20.91 [531]	16.35 [415]	10.87 [276]	0.02 [0.5]	0.02 [0.5]	10.23 [290]