

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. These general purpose linear sensors have excellent price-to-performance and stroke-to-length ratios, making 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 full scale ranges from 0.050 to 10.00 inches (± 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 - 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 other body and range versions, including the LA-9.5, LHA-19, LA-21, LA-25, and LA-27. For more information, go to www.alliancesensors.com

Features:

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

Options:

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

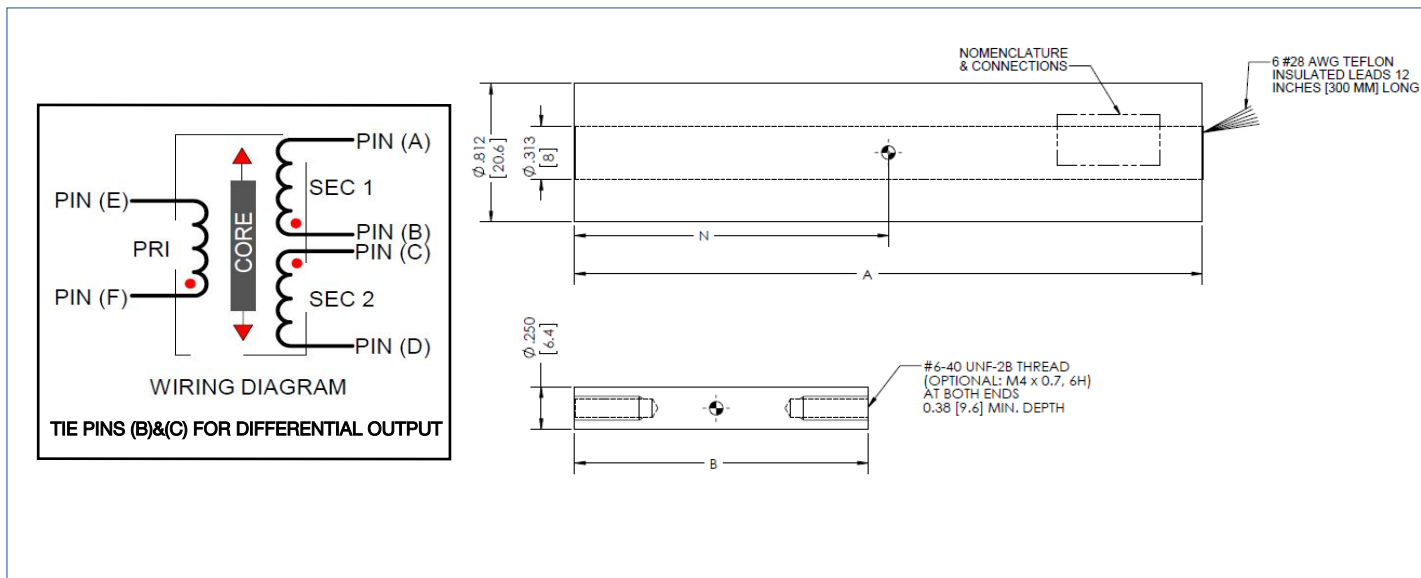
Specifications:

| | |
|-----------------------|---|
| 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 inches |
| Excitation Frequency | 2.5 to 3.3 kHz |
| Excitation Voltage | 3 V ACrms nominal |
| Linearity Error | $\leq \pm 0.25\%$ of FSO max (typical 0.15%) |
| Null Voltage | $\leq 0.05\%$ of FSO max |
| Operating Temperature | -65 to 220°F (-55 to 105° C) |

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Specifications Con't:

| | |
|-------------------------|----------------------|
| Temperature Coefficient | $\leq -0.02\%$ 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 | Options |
|-----------|---------------------------------|----------------------|-------------------------------|---------------------------|----------------------------------|
| LA | XX- | X- | XX- | XX- | XX |
| | 20.6 - 20.6 (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 | | |