

LVIT Linear Position Sensors

0 to 50 mm, 0 to 10 Vdc output Output

★★★★★ (0)



- Excellent stroke-to-length ratio
- Rugged 19 mm (0.75") Diameter stainless steel housing
- Field adjustable range scaling
- Wide Choice of Range: 15 to 750 mm (½" to 30") Full Scale

[View Full Specifications ▶](#)

LDI-619-050-A010S Model Options

[View All Models](#)

Edit these specs to order a different model. Not all combinations are valid. Options compatible with previous selections will be in bold.

Range

0 to 50 mm ▼

Housing Length

2.38" ▼

Resolution

2.5E-4

Housing Diameter/Width

19 mm

Electrical Output

0 to 10 Vdc output ▼

Linearity

±0.15%

Rating

IP67

Features

Non-Contact LVIT

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The LDI-619 Series LVIT (Linear Variable Inductive Transducer) position sensors from Omega™ are devices designed for factory automation and a variety of industrial and commercial applications such as motor sport vehicles, automotive testing, solar cell positioners, wind turbine prop pitch and brakes, and packing equipment. With their compact device, rugged stainless-steel construction, superior performance, and excellent stroke-to-length ratio, the LDI-619 sensors are ideal for both industrial testing, laboratories, and OEM applications.

LDI-619 sensors are offered in 15 full scale ranges from 15 to 900 mm (½ to 36"). Calibration and set-up is simplified with one wire field programming feature, this provides the ability to match the end points of the sensor's analog output with the ends of the range of motion of the assembly to which the sensor is attached. This feature permits a user to optimize the position measuring system's resolution over its full range of motion.

LDI-619 products come with axil exiting cable & a M5 x 0.8 threaded end for installation.

Specifications

Analog I/Os:

- 0 to 10V output with 12 to 30V input, 35 mA max;
- 4 to 20 mA (3-wire) output with 18 to 30V input, 60 mA max 75°C (167°F max)

Measuring Range: 2.5 to 900 mm (% to 36") Full Scale

Linearity Error: ±0.15% of Full Scale Output (FSO) typical, ±0.25% max

Resolution: 0.025% of FS

Update Rate: 300 Hz nominal

Operating Temperature: -20 to 85°C (-4 to 185°F)

Temperature Coefficient: 0.015% of FS/°C

Vibration: 5 to 20 Hz, 0.5" p-p; 20 to 2000 Hz, 4.2 g p-p

Shock: 1000 g, 11 ms

Terminations: IEC IP67

Humidity: 95% RH, non-condensing

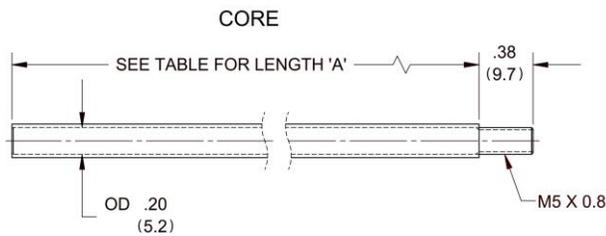
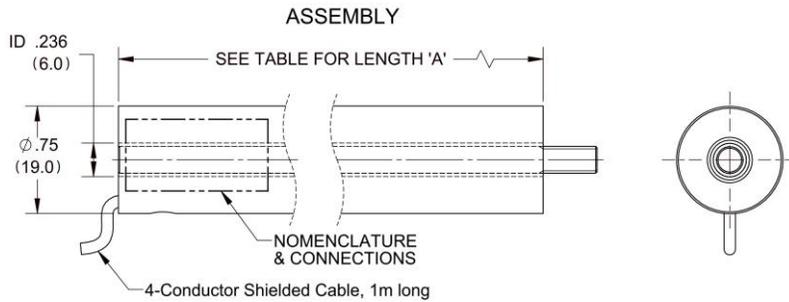
Housing Material: Stainless steel

Wiring Table

I/O Function	Color
+Power Input	Red
Ground	Black
Analog output	Green
Field Programming	White
Shield/ drain*	Shield

*Shield unconnected internally

Dimensions: mm (inch)



LDI-619 Range Table

Nominal Range	Length "A"	
Inches	Mm	Mm (Inches)
≤1	≤25	35.0 (1.38)
1.2	30	41.3 (1.63)
2	50	60.5 (2.38)
3	75	85.9 (3.38)
4	100	111.1 (4.38)
6	150	165.1 (6.5)
8	200	215.9 (8.50)
10	250	266.7 (10.50)
12	300	317.5 (12.50)

15	375	400.0 (15.75)
18	450	476.2 (18.75)
24	600	635.0 (25.00)
30	750	787.4 (31.00)