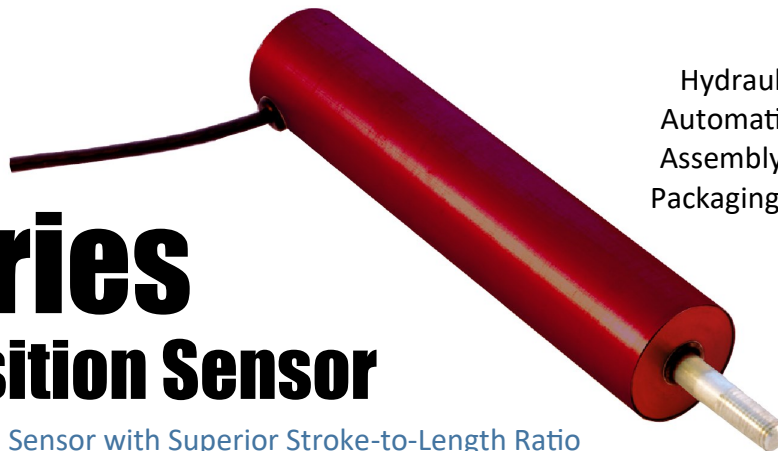




For use in:
Hydraulic Cylinders
Automation Systems
Assembly Machinery
Packaging Equipment

LZ-25 Series

LVIT Linear Position Sensor

Through-bore LVIT Linear Position Sensor with Superior Stroke-to-Length Ratio

The LZ-25 Series of LVIT (Linear Variable Inductance Transducer) position sensors are contactless devices designed for frictionless measurement in factory automation or assembly machinery applications where space is a premium, as well as for external mounting on hydraulic cylinders to sense rod position.

This sensor is offered in nominal full scale ranges from 50 to 900 mm (2 to 36 inches) with an excellent stroke-to-length ratio. The sensor's overall length is only 38 mm (1.5 inches) longer than the linear range of the unit. The sensor has a 25.4 mm (1 inch) outside diameter aluminum or optional stainless steel body with a 1 m radial cable for I/O connections. The 7.5 mm (0.295 inch) diameter through-bore of an LZ-25 provides clearance for its 6.35 mm (0.25 inch) diameter moving rod, which is made of the same material as its housing. This through-bore feature also means that the sensor is not subject to damage from typical mechanical overstroking.

Features:

- LVIT Technology™ (Linear Variable Inductance Transducer)
- Contactless operation...frictionless measurement
- Excellent stroke-to-length ratio
- Through-bore design
- Proprietary SenSet™ field adjustable range scaling

Specifications:

Analog I/Os: 0-5 V or 0.5-4.5 V output with 8 -30 V input, 35 mA max.

0-10 V output with 12—30 V input, 35 mA max.

4-20 mA (3-wire) output with 18-30 V input, 60 mA max (75 C max).

Measuring Ranges: 50 to 900 mm (2 to 36 inches) Full Scale (nominal)

Linearity Error: $\pm 0.15\%$ of FSO typical, $\pm 0.25\%$ of FSO max

Resolution: 0.025% of FSO

Update Rate: 300 Hz nominal

Operating Temperature: -20 to 85 C (-40 to 105 C extended temperature range)

Temperature Coefficient: $\leq \pm 0.015\%$ of FS/deg C

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

Shock: 1000 g, 11 msec.

Terminations: IEC IP-67

Humidity: 95% RH, non-condensing

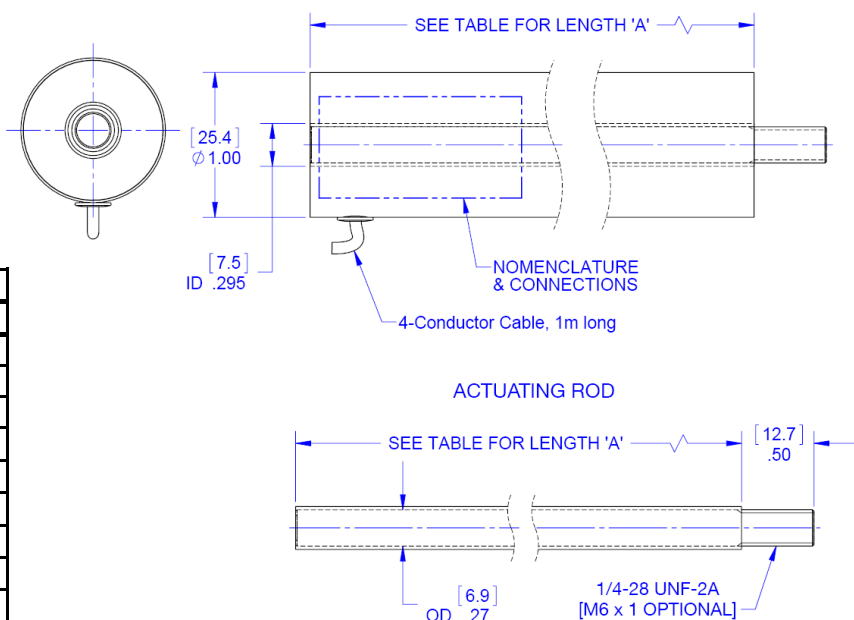
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LZ-25 Series



LZ-25 Connection Table	
I/O Function	Cable Color
+ Power Input	Red
Ground	Black
Analog Output	Green
SenSet™	White

LZ-25 Range Table	
Nominal Range	Length "A"
2.0 inches [50 mm]	3.00 inches [76.2 mm]
4.0 inches [100 mm]	5.00 inches [127.0 mm]
6.0 inches [150 mm]	7.00 inches [177.8 mm]
8.0 inches [200 mm]	9.25 inches [235.0 mm]
10.0 inches [250 mm]	11.25 inches [285.8 mm]
12.0 inches [300 mm]	13.25 inches [336.6 mm]
15.0 inches [375 mm]	16.50 inches [419.1 mm]
18.0 inches [450 mm]	19.50 inches [495.3 mm]
24.0 inches [600 mm]	25.50 inches [647.7 mm]
30.0 inches [750 mm]	31.50 inches [800.1 mm]
36.0 inches [900 mm]	37.50 inches [952.5 mm]



Ordering Information:

Series	Output Type	Housing Diameter	Range, Metric	Termination Direction	Termination	Output	Housing Material
LZ	X-	XX-	XXX-	X-	XX-	XX-	X-
	E- Voltage	25- 25 mm	050 - 300	R- Radial	00- 1 m cable	05- 0.5 to 4.5 VDC	A- Aluminum
	I- Current		(50 mm increments)			06- 4.5 to 0.5 VDC	S- 300 Series SS
			300 - 450			10- 0 to 10 VDC	
			(75 mm increments)			11- 10 to 0 VDC	
			450 - 900			20- 4 to 20 mA	
			(150 mm increments)			21- 20 to 4 mA	
						50- 0 to 5 VDC	
						51- 5 to 0 VDC	

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A DIVISION OF H.G. SCHAEVITZ LLC

Alliance Sensors Group
102 Commerce Drive, Unit 8
Moorestown, New Jersey 08057 USA
Ph: 856-727-0250
www.alliancesensors.com
info@alliancesensors.com