

For use in:

Packaging Machinery Chute/Gate Position **Factory Automation Automotive Testing**

LRL-27 Series

Linear Position Sensor for Extended Ranges

Long Lasting, Contactless, Inductive Sensors

Alliance Sensor Group's LRL-27 series LVIT (Linear Variable Inductance Transducers) contactless position sensors complement the LR series with extended ranges up to 18 inches (450 mm) in a compact package. These sensors are designed for use in factory automation systems and a wide variety of industrial and commercial applications. Cost effective with high-end performance and excellent stroke-to-length ratios make these sensors ideal choices for many industrial application.

LRL-27 sensors are offered in 6 nominal ranges from 8 to 18 inches (200 to 450 mm). Operated from a variety of DC voltages. These sensors offer the end-user a choice of four analog outputs along with ASG's proprietary SenSet™ field adjustable range scaling feature. LRL-27 sensors are available with an axial cable or connector terminations, or with a radial exiting cable and two swivel rod eye ends for easy installation.

Besides the LRL-27 series sensors, ASG also offers the LR-27 series for shorter stroke applications and the smaller size LR-19 series for lighter duty applications.

Features:

- LVIT Technology™ (Linear Variable Inductance Transducer)
- Contactless operation
- Excellent stroke-to-length ratio
- 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: 200 mm to 450 mm (8 to 18 inches) full scale (nominal) Linearity Error: <± 0.15% of Full Scale Output (FSO) typical, ±0.25% 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: <±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.

Environmental Sealing: IEC IP-67

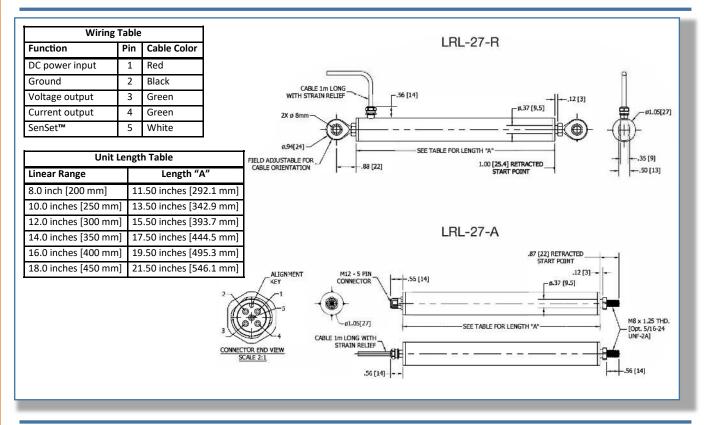
Humidity: 95% RH, non-condensing

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LRL-27 Series





Ordering Information:

Series	Output Type	Body Diameter	Range, Metric	Termination Direction	Termination	Output	Housing Material
LRL	X-	XX-	XXX-	X -	XX-	XX-	X-
	E- Voltage	27 - 27 mm	200 - 200 mm	A - Axial	00 - 1 m cable	05 - 0.5 to 4.5 VDC	A - Aluminum
	I- Current		250 - 250 mm	R- Radial	01 - 5-pin M12	06 - 4.5 to 0.5 VDC	S – 300 Series SS
			300 - 300 mm			10 - 0 to 10 VDC	
			350 - 350 mm			11 - 10 to 0 VDC	
			400 - 400 mm			20 - 4 to 20 mA	
			450 - 450 mm			21 - 20 to 4 mA	
						50 - 0 to 5 VDC	
						51 - 5 to 0 VDC	

ALLIANCE SENSORS GROUP

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