

For use in: Packaging Machinery Chute/Gate Position Factory Automation Automotive Testing

LRL-27 Series Linear Position Sensor

Long Lasting, Contactless, Inductive Sensors

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Alliance Sensor Group's LRL-27 series LVIT (Linear Variable Inductance Transducer) contactless position sensors complement the LR series devices 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 high-end performance and excellent stroke-to-length ratios make these sensors ideal choices for practically any industrial application

LRL-27 sensors are offered in 6 nominal ranges from 200 to 450 mm (8 to 18 inches). Operated from a variety of DC voltages, these sensors offer a user a choice of four analog outputs and include ASG's proprietary SenSet[™] field adjustable range scaling feature. LRL-27 products are available with either a radial exiting cable and two spherical rod eye ends with axial cable or connector terminations.

The LR series also includes a smaller body version, the LR-19, for applications where a reduced body envelope is required or the LR-27 for shorter stroke lengths from 50 to 150 mm. Additional information can be found at www.alliancesensors.com

Features:

- LVIT Technology[™] (Linear Variable Inductance Transducer)
- Contactless operation
- Excellent stroke-to-length ratio
- Proprietary SenSet[™] field adjustable range scaling

Specifications:

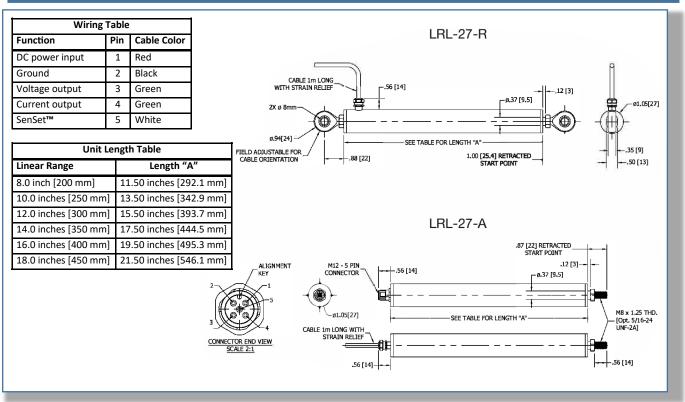
Analog I/Os0-5 V or 0.5—4.5 V output with 8-30 V input, 35 mA max.
0-10 V output with 12-30 V input, 35 mA max.
4-20 mA (3-wire) output with 18-30 V input, 60 mA max (75 C max).Measuring Ranges200 mm to 450 mm (8 to 18 inches) full scale (nominal)
Linearity Error<± 0.15% of Full Scale Output (FSO) typical, ±0.25% max
0.025% of FSO
Update RateOperating Temperature
Temperature Coefficient-20 to 85 C (-40 to 105 C extended temperature range)
Could be the state output for the state output (FSO) typical, ±0.25% max
0.025% of FSO
Update Rate-20 to 85 C (-40 to 105 C extended temperature range)Temperature Coefficient<±0.015% of FS/deg C
5-20 Hz, 0.5 inch p-p; 20-2000 Hz, 4.2 g p-p
ShockShock1000 g, 11 msec
IEC IP-67
HumidityHumidity95% 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	Х-	XX-	XXX-	Х-	XX-	XX-	X-
LRL	E- Voltage	27 - 27 mm	200 - 200 mm	A- Axial	00 - 1-m cable	05 - 0.5-4.5 VDC	A - Aluminum
	I- Current		250 - 250 mm	R- Radial	01 - 5-pin M12	06 - 4.5-0.5 VDC	S- Stainless Steel
			300 - 300 mm			10 - 0-10 VDC	
			350 - 350 mm			11 - 10-0 VDC	
			400 - 400 mm			20 - 4-20 mA	
			450 - 450 mm			21 - 20-4 mA	
						50 - 0-5 VDC	
						51 - 5-0 VDC	

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