

For Use in:

Packaging Machinery Chute/Gate Position Factory Automation Automotive Testing

LVIT Linear Position Sensor for Extended Ranges

Long Lasting, Contactless, Inductive Sensors

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 5 nominal ranges from 250 to 450 mm (10 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 include 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 200 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/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 250 mm to 450 mm (10 to 18 inches) full scale (nominal)

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 C to 85 C (-40 C to 105 C Extended 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

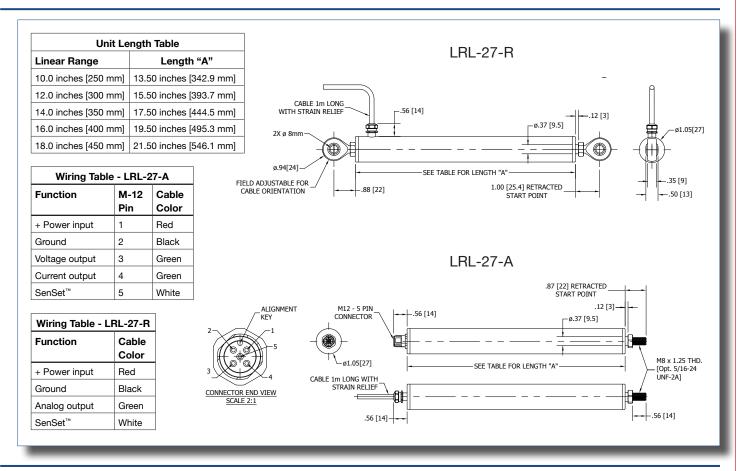
Shock 1000 g, 11 ms

Terminations IEC IP-67

Humidity 95% RH, non-condensing

LRL-27 Series





Ordering information:

				Electrical Terminal			
Series	Output	Housing Diameter	Range (mm)	Axial or Radial	Termination	Output	Housing Material
LRL	X-	XX-	XXX-	X-	XX-	XX-	X
	E - Voltage	27 - 27 mm	250	A - Axial	00 - 1 m cable	05 - 0.5 to 4.5 V	A - Aluminum
	I - Current		300	R - Radial (cable only)	01 - 5-pin M12	06 - 4.5 to 0.5 V	S - 300 Series SS
			350			10 - 0 to 10.0 V	
			400			11 - 10.0 to 0 V	
			450			20 - 4 to 20 mA	
						21 - 20 to 4 mA	
						50 - 0 to 5 V	
						51 - 5 to 0 V	

ALLIANCE SENSORS GROUP

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