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For use in:

Packaging Machinery Factory Automation Automotive Testing OEM Test Standards

LR-27 Series LVIT Linear Position Sensor

Long Lasting, Contactless, Inductive Sensors

Alliance Sensor Group's LR-27 series LVIT (Linear Variable Inductance Transducer) contactless position sensors are heavy-duty devices designed for factory automation systems and a variety of industrial and commercial applications, such as: solar cell positioners, wind turbine prop pitch and brakes, chute or gate positioners, on/off road or agri-vehicles, and packaging machinery. The modular design, high-end performance, and excellent stroke-to-length ratio make the LR-27 sensors an ideal choice for in-plant or mobile equipment OEMs.

LR-27 series sensors are currently offered in 5 full scale ranges from 1 to 6 inches (25 mm to 150 mm). Operated from a variety of DC voltages, these sensors offer a choice of four analog outputs and include ASG's proprietary SenSet[™] field recalibration feature. LR-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.

The LR series also has a smaller body version, the LR-19, for applications not requiring a heavy-duty unit.

Features:

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

Specifications:

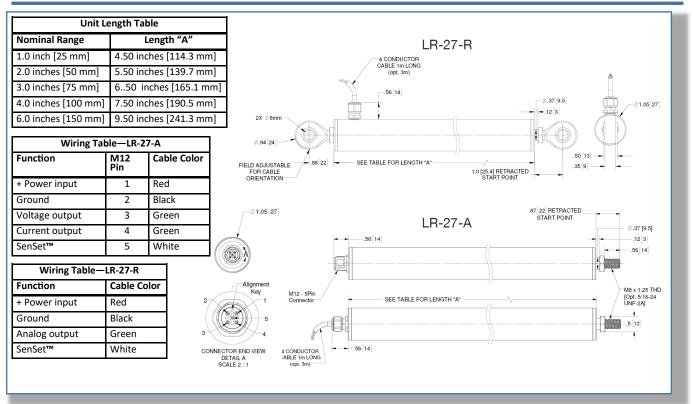
Analog I/Os:	0-5 V or 0.5—4.5 V output with 8 -30 V input, 35 mA max.				
	0-10 V output with 12—30 V input, 35 mA max.				
	4-20 mA (3-wire) output with 18-30 V input, 60 mA max (75 C max).				
Measuring Ranges:	25 mm to 150 mm (1 to 6 inches) full scale (nominal)				
Linearity Error:	<± 0.15% of Full 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:	<± 0.15% 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				

ALLIANCE SENSORS GROUP

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LR-27 Series





Ordering Information:

Series	Output	Housing	Range (mm)	Electrical Terminal		Output	Housing Material
		Diameter		Axial or Radial	Termination		
LR	Х-	XX-	XXX-	Х-	XX-	XX-	X-
	E- Voltage	27 – 27 mm	025	A- Axial	00 - 1 m cable	05 - 0.5 to 4.5 V	A- Aluminum
	I- Current		050	R- Radial	01 - 5-pin M12	06 – 4.5 to 0.5 V	S – 300 Series SS
			075			10 - 0 to 10.0 V	
			100			11 – 10.0 to 0 V	
			150			20 – 4 to 20 mA	
						21 – 20 to 4 mA	
						50 – 0 to 5 V	
						51 – 5 to 0 V	

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