

LR-19 Series Linear Position Sensor

For use in:

PV Solar Cell Positioner Wind Energy Systems Packaging Machinery Motorsport Vehicles Automotive Testing Factory Automation OEM Test Standards

More Sensor for Less

The LR-19 series LVIT linear position sensors by Alliance Sensors Group are contactless devices designed for factory automation and a variety of industrial and commercial applications, such as: motorsport vehicles, automotive testing, solar cell positioners, wind turbine prop pitch and brake position, and packing equipment. A compact design with superior performance, and excellent stroke-to-length ratio, the LR-19 sensors are ideal for industrial testing, laboratories, and OEM applications.

LR-19 sensors are offered in 6 full scale ranges from 1 to 8 inches (25 to 200 mm). Operating from a variety of DC voltages, these sensors offer a choice of four analog outputs and all include ASG's proprietary SenSet[™] field recalibration feature. LR-19 products are available with axial cable or connector terminations, or with radial exiting cable and two swivel rod eye ends for easy installation.

The LR series also includes a larger body version, the LR-27, for those applications which require a heavyduty unit.

Features:

- Contactless operation prevents wearout from dither or cycling
- Excellent stroke-to-length ratio
- 19 mm (0.75 inch) diameter anodized aluminum housing sealed to IP-67
- Radial cable exit version comes with swivel rod eye ends
- Axial termination with either M-12 connector or 1 m cable
- 10-32 or M5 X 0.8 male or female thread on end of axial operating rod

Specifications:

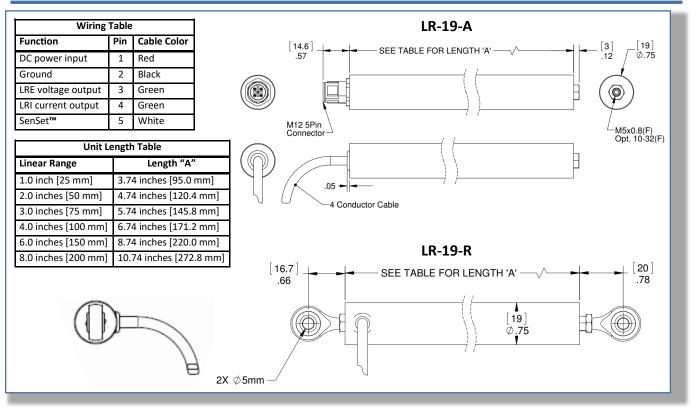
Analog I/Os:	 0-5 V or 0.5-4.5 V output with 8 -30 V input, 35 mA max. 0-10 V output with 12-30 V input, 35 mA max. 4-20 mA (3-wire) output with 18-30 V input, 60 mA max (75 C max).
FS Measuring Ranges:	25, 50, 75, 100, 150, and 200 mm (1, 2, 3, 4, 6, and 8 inches)
Linearity Error:	± 0.15% of FSO
Resolution:	0.025% of FSO
Bandwidth:	300 Hz
Operating Temperature:	-20 to 85 C (-40 to 105 C extended temperature range)
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

ALLIANCE SENSORS GROUP

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LR-19 Series





Ordering Information:

Series	Output Type	Body Diameter	Range, Metric	Termination Direction	Termination	Output	Housing Material
LR	Х-	XX-	XXX-	Х-	XX-	XX-	X-
	E- Voltage	19 - 19 mm	025 - 25 mm	A - Axial	00 - 1 m cable	05 - 0.5 to 4.5 V	A - Aluminum
	I- Current		050 - 50 mm	R- Radial (cable only)	01 - 5-pin M12	06 - 4.5 to 0.5 V	S- Stainless Steel
			075 - 75 mm			10 - 0 to 10 V	
			100 - 100 mm			11 - 10 to 0 V	
			150 - 150 mm			20 - 4 to 20 mA	
			200 - 200 mm			21 - 20 to 4 mA	
						50 - 0 to 5 V	
						51 - 5 to 0 V	

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