

PV Solar Cell Positioner Wind Energy Systems Packaging Machinery Chute/gate Position Factory Automation Automotive Testing OEM Test Stands

# LR-27 LR-27 Series Linear Position Sensors

Long Lasting Inductive Automation Sensors for Potentiometer Prices

Alliance Sensors Group's LR-27 series of inductive linear position sensors are heavy duty contactless devices designed for factory automation systems and a variety of industrial or 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 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 50 mm to 200 mm (2 to 8 inches). Operated from a variety of DC voltages, these sensors offer a choice of four analog outputs and include ASG's proprietary SenSet<sup>™</sup> field recalibration feature. LR-27 products are available with axial cable or connector terminations, or with a radial exiting cable and two swivel rod eye ends for easy installation.

Technical data sheets and further information about other LR series position sensors can be found at: www.alliancesensors.com.

### Features:

USA

- · Contactless operation prevents wearout from dither or cycling
- Excellent stroke-to-length ratio
- 27 mm (1.05 inch) OD aluminum housing sealed to IP-67 (stainless steel optional)
- Radial cable exit version comes with swivel rod eye ends
- Axial termination versions with either M-12 connector or cable
- 5/16-24 or M8 x 1.25 male or female thread on end of axial operating rod

### Specifications:

Analog I/Os	<ul> <li>0 - 3 V output with 5 V input, 35 mA max.</li> <li>0 - 5 V or 0.5 - 4.5 V output with 8 -30 V input, 35 mA max.</li> <li>0 -10 V output with 12 -30 V input, 35 mA max.</li> <li>4 -20 mA (3-wire) output with 18 - 30 V input, 60 mA max. (75 C max.)</li> </ul>
FS Measuring Ranges	50, 75, 100, 150, and 200 mm (2, 3, 4, 6, and 8 inches)
Linearity error	$\leq \pm 0.15\%$ of FSO
Resolution	0.025% of FS
Bandwidth	500 Hz update rate (nominal)
Operating temperature	-20 to 85 C (-40 to 105 C extended temperature range available)
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

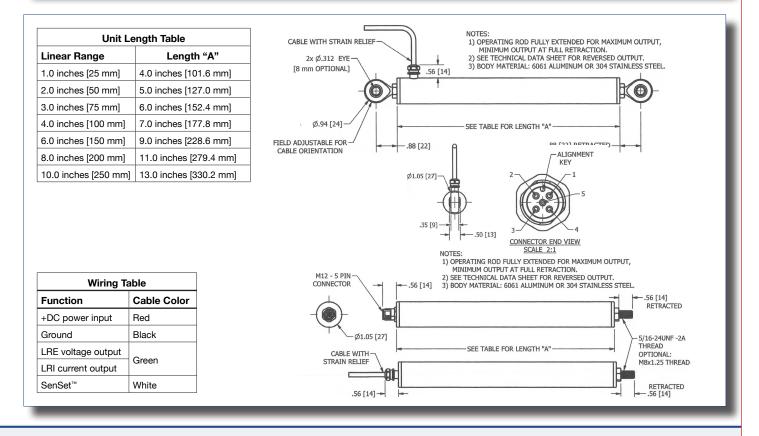
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# LR-27



## Ordering information:

				Electrical Terminal			
Series	Output Type	Body Diameter	Range, Metric	Termination Direction	Termination	Output	Housing Material
LR	X-	XX-	XXX-	X-	XX-	XX-	X
	E - Voltage	<b>27</b> - 27 mm	<b>050</b> - 50mm	A - axial	00 - 1-m cable	03 - 0-3 VDC	<b>A</b> - Aluminum
	I - Current		<b>075</b> - 75mm	R - radial	<b>01</b> - 5-pin M12	04 - 3-0 VDC	S - Stainless Steel
			<b>100</b> - 100mm			<b>05</b> - 0.5-4.5 VDC	
			<b>150</b> - 150mm			06 - 4.5-0.5 VDC	
			<b>200</b> - 200mm			<b>10</b> - 0-10 VDC	
						<b>11</b> - 10-0 VDC	
						<b>20</b> - 4-20 mA	
						<b>21</b> - 20-4 mA	
						50 - 0-5 VDC	
						51 - 5-0 VDC	



# ALLIANCE SENSORS GROUP

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