### 1-800-633-0405 ALLIANCE SENSORS GROUP A DIVISION OF H.G. SCHAEVITZ LLC

# LRE19/LRI19 LVIT Linear Position Sensors



# Low cost, compact, high performance linear position sensors

The LRE-19/LRI-19 series of inductive linear position sensors by Alliance Sensors Group are contactless devices designed for factory automation and a variety of industrial or commercial applications. Typical applications include the following:

• Motor sport vehicles

LRE19-100R-00-10A

- Automotive testing
- Solar cell positioning
- Wind turbine, prop pitch and brake positioning
- Packaging equipment

With their compact design and excellent stroke-to-length ratio, LR-19 series sensors are ideal for industrial testing laboratories and OEM applications.

LRE-19/LRI-19 series sensors are offered in 6 full scale ranges from 1 to 8 in [25.4 to 203.2 mm]. Operating from

a variety of DC voltages, models are available with either 0-10 V or 4-20mA output (see table below). All include ASG's proprietary SenSet<sup>TM</sup> field calibration feature.

LRE-19/LRI-19 series products are available with a radial exiting cable and two swivel rod eye ends for easy installation.

The LRE-19/LRI-19 series also includes a larger body version, the LRE-27/LRI-27, for those applications needing a heavier duty unit.

## Features

- Contactless operation prevents internal wear-out from dithering or rapid cycling
- Excellent stroke-to-length ratio
- 0.75 in [19mm] diameter anodized aluminum housing sealed to IP-67
- Radial cable exit version comes with swivel rod eye ends



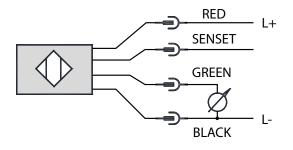
LRE19/LRI19 Series Linear Position Sensors Selection Chart					
Part Number	Price	Drawing Link	Nominal Range (in [mm])	Body Length (in [mm])	
0-10V models					
LRE19-025R-00-10A	\$362.00	<u>PDF</u>	1.0 [25.4]	3.40 [86.3]	
LRE19-050R-00-10A	\$387.00	<u>PDF</u>	2.0 [50.8]	4.40 [111.8]	
<u>LRE19-075R-00-10A</u>	\$412.00	<u>PDF</u>	3.0 [76.2]	5.40 [138.1]	
LRE19-100R-00-10A	\$437.00	<u>PDF</u>	4.0 [101.6]	6.40 [162.5]	
LRE19-150R-00-10A	\$487.00	<u>PDF</u>	6.0 [152.4]	8.40 [213.3]	
LRE19-200R-00-10A	\$537.00	<u>PDF</u>	8.0 [203.2]	10.40 [264.1]	
4-20mA models					
LRI19-025R-00-20A	\$362.00	PDF	1.0 [25.4]	3.40 [86.3]	
LRI19-050R-00-20A	\$387.00	<u>PDF</u>	2.0 [50.8]	4.40 [111.8]	
LRI19-075R-00-20A	\$412.00	<u>PDF</u>	3.0 [76.2]	5.40 [138.1]	
LRI19-100R-00-20A	\$437.00	<u>PDF</u>	4.0 [101.6]	6.40 [162.5]	
LRI19-150R-00-20A	\$487.00	<u>PDF</u>	6.0 [152.4]	8.40 [213.3]	
LRI19-200R-00-20A	\$537.00	PDF	8.0 [203.2]	10.40 [264.1]	

LRE19/LRI19 Series Linear Position Sensors Specifications				
Analog I/Os	0-10V output with 12-30V power source, 35mA max; 4-20 mA (3-wire) output with 18-30V power source, 60mA max, 167°F [75°C] max			
Measuring Ranges	1 to 8 in [25.4 to 203.2 mm]			
Linearity Error	$\leq \pm 0.15\%$ of FSO			
Resolution	0.025% of FS			
Bandwidth	300Hz update rate (nominal)			
Operating Temperature	-4 to 185°F [-20 to +85°C]; -40 to +221°F [-40 to +105°C] extended range			
Temperature Coefficient	±0.015% of FS/K			
Vibration	5-20Hz, 0.5 in peak-to-peak; 20-2000Hz, 4.2 g peak-to-peak			
Shock	1000g, 11ms			
Terminations	IEC IP-67			
Humidity	95% RH, non-condensing			
Connection	1M, PUR, 4 conductor, 24AWG			

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### ALLIANCE SENSORS GROUP A DIVISION OF H.G. SCHAEVITZ LLC POSITION SENSORS A DIVISION OF H.G. SCHAEVITZ LLC

## Wiring Diagram



Wiring Table			
Function	Cable Color		
+DC Power Input	Red		
Common Ground	Black		
Analog Output	Green		
SenSet™	White		