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





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Low cost, compact, high performance linear position sensors

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Alliance Sensor Group's LRLE-27/LRLI-27 series of LVIT (Linear Variable Inductance Transducer) contactless position sensors complements the LR series devices with extended ranges up to 18in [450mm] 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-tolength ratios make these sensors ideal choices for practically any industrial application.

LRLE-27/LRLI-27 sensors are offered in six nominal ranges from 8 to 18 in [203.2 to 457.2 mm]. Operating from a variety of DC voltages, models are available with either 0-10 V or 4-20 mA output (see table below). All include ASG's proprietary SenSet[™] field calibration feature.

LRLE-27/LRLI-27 products are available with a radial exiting cable and two spherical rod eye ends.

The LRLE-27/LRLI-27 series also includes smaller body versions, the LRE-19/LRI-19. Those versions are suitable for use in applications where a reduced body envelope is required. Use the LRE-27/LRI-27 for shorter stroke lengths from 2 to 6 in [50.8 to 152.4 mm].

Features

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

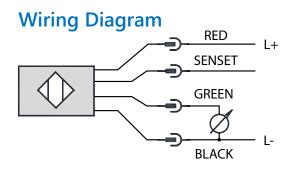
LRLE27/LRLI27 Series Linear Position Sensors Selection Chart					
Part Number	Price	Drawing Link	Nominal Range (in [mm])	Body Length (Dimension A) (in [mm])	
0-10V models					
LRLE27-200R-00-10A	\$709.00	PDF	8.0 [203.2]	11.50 [292.1]	
LRLE27-250R-00-10A	\$712.00	PDF	10.0 [254.0]	13.50 [342.9]	
LRLE27-300R-00-10A	\$762.00	PDF	12.0 [304.8]	15.50 [393.7]	
LRLE27-350R-00-10A	\$812.00	PDF	14.0 [355.6]	17.50 [444.5]	
LRLE27-400R-00-10A	\$862.00	PDF	16.0 [406.2]	19.50 [495.3]	
LRLE27-450R-00-10A	\$912.00	PDF	18.0 [457.2]	21.50 [546.1]	
4-20mA models					
LRLI27-200R-00-20A	\$709.00	PDF	8.0 [203.2]	11.50 [292.1]	
LRLI27-250R-00-20A	\$712.00	PDF	10.0 [254.0]	13.50 [342.9]	
LRL127-300R-00-20A	\$762.00	PDF	12.0 [304.8]	15.50 [393.7]	
LRLI27-350R-00-20A	\$812.00	PDF	14.0 [355.6]	17.50 [444.5]	
LRLI27-400R-00-20A	\$862.00	PDF	16.0 [406.2]	19.50 [495.3]	
LRLI27-450R-00-20A	\$788.00	PDF	18.0 [457.2]	21.50 [546.1]	

LRLE-27/LRLI-27 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	8 to 18 in [203.2 to 457.2 mm] full scale (nominal)			
Linearity Error	$\leq \pm 0.15\%$ of Full Scale Output (FSO) typical, $\pm 0.25\%$ max			
Resolution	0.025% of FS			
Update Rate	300Hz 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/°C			
Vibration	5-20 Hz, 0.5 in peak-to-peak; 20-2000 Hz, 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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LRLE27/LRLI27 LVIT Linear Position Sensors



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