

The LR-19 series inductive linear position sensors by Alliance Sensors Group are contactless devices designed for factory automation and a variety of industrial or commercial applications such as motor sport vehicles, automotive testing, solar cell positioners, wind turbine prop pitch and brake position, and packaging equipment. With their compact design, superior performance, and excellent stroke-to-length ratio, LR-19 sensors are ideal for both industrial testing laboratories and OEM applications.

LR-19 series sensors are offered in 6 full scale ranges from 25 to 200 mm (1 to 8 inches). 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 series products are available with axial cable or connector terminations, or with a 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 needing a heavier duty unit. Technical data sheets and additional information can be found at www.alliancesensors.com.

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 versions 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 - 3 V output with 5 V input, 35 mA max.

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 FS

Bandwidth 300 Hz update rate (nominal)

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

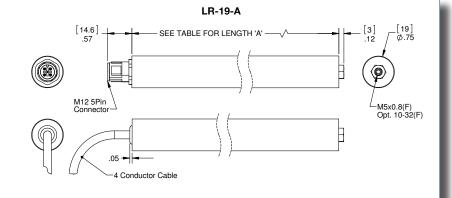
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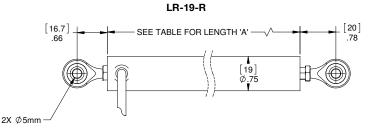
LR-19 Series

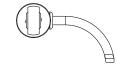


Wiring Table						
Function	Pin	Cable Color				
DC power input	1	Red				
Ground	2	Black				
LRE voltage output	3	Green				
LRI current output	4	Green				
SenSet™	5	White				

Unit Length Table						
Linear Range	Length "A"					
1.0 inch [25 mm]	3.40 inches [86.3 mm]					
2.0 inches [50 mm]	4.40 inches [111.8 mm]					
3.0 inches [75 mm]	5.40 inches [138.1 mm]					
4.0 inches [100 mm]	6.40inches [162.5 mm]					
6.0 inches [150 mm]	8.40 inches [213.3 mm]					
8.0 inches [200 mm]	10.40 inches [264.1 mm]					







Ordering Information:

Series	Output Type	Body Diameter	Range, Metric	Termination Direction	Termination	Output	Housing Material
LR	X-	XX-	XXX-	X-	XX-	XX-	X-
LR	E - Voltage	19 - 19mm	025 - 25 mm	A - axial	00 - 1-m cable	03 - 0-3 VDC	A - Aluminum
	I - Current		050 - 50mm	R - radial	01 - 5-pin M12	04 - 3-0 VDC	S - Stainless Steel
			075 - 75mm			05 - 0-5 VDC	
			100 - 100mm			06 - 5-0 VDC	
			150 - 150mm			10 - 0-10 VDC	
			200 - 200mm			11 - 10-0 VDC	
						20 - 4-20 mA	
						21 - 20-4 mA	
						45 - 0.5-4.5 VDC	
						46 - 4.5-0.5 VDC	

ALLIANCE SENSORS GROUP

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