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

LZE19/LZI19 LVIT Inductive Linear Position Sensors





The LZ19 Series of LVIT (Linear Variable Inductance Transducer) position sensors are contactless devices designed for use in factory automation or assembly machinery applications where space is a premium, as well as for external mounting on pneumatic cylinders to sense rod position. The LVIT is offered in nominal full scale ranges from 2.5 to 375 mm [0.10 to 15 in] with an excellent stroke to-body-length ratio The sensor has a 19mm [3/4 in] outside diameter stainless steel body with a 1m [3.2 ft] axial cable for I/O connections. The 6mm [0.236 in] diameter through-bore of an LZ-19 provides clearance for its 5.2 mm [0.200 in]) diameter, PVDF-sheathed moving rod, which is made of the same material as its housing. This through-bore feature also means that the sensor is not subject to damage from typical mechanical overstroking.



Features

- LVIT Technology™ (Linear Variable Inductance Transducer)
- Contactless operation prevents internal wearout from dithering or rapid cycling
- Full-scale ranges from 2.5 to 375 mm [0.10 to 15 in]
- Through-bore design eliminates mechanical overstroking
- DC in / DC out operation with built in electronics
- For applications requiring superior stroke-to-body-length ratio
- Proprietary SenSet[™] field adjustable range scaling



LZE19/LZI19 LVIT Inductive Linear Position Sensors							
Part Number	Price	Drawing Link	Stroke mm [in]	Body Length mm [in]	Output	Connection m [ft]	Housing Material
0-10 VDC models							
LZE19-2.5A-00-10S	\$333.00	<u>PDF</u>	2.5 [0.10]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-6.4A-00-10S	\$338.00	<u>PDF</u>	6.4 [0.25]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-12.7A-00-10S	\$343.00	<u>PDF</u>	12.7 [0.50]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-025A-00-10S	\$353.00	PDF	25 [1.0]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-050A-00-10S	\$373.00	PDF	50 [2.0]	60.5 [2.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-100A-00-10S	\$398.00	PDF	100 [4.0]	111.1 [4.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-150A-00-10S	\$423.00	PDF	150 [6.0]	165.1 [6.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-200A-00-10S	\$448.00	PDF	200 [8.0]	215.9 [8.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-250A-00-10S	\$473.00	PDF	250 [10.0]	266.7 [10.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-300A-00-10S	\$498.00	PDF	300 [12.0]	317.5 [12.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-375A-00-10S	\$548.00	PDF	375 [15.0]	400.0 [15.75]	0-10 VDC	1 [3.2]	Stainless steel
4-20 mA models							
LZI19-2.5A-00-20S	\$333.00	PDF	2.5 [0.10]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-6.4A-00-20S	\$338.00	PDF	6.4 [0.25]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-12.7A-00-20S	\$343.00	PDF	12.7 [0.50]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-025A-00-20S	\$353.00	PDF	25 [1.0]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
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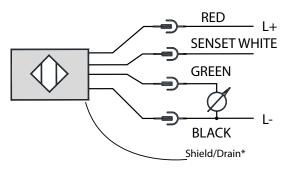


LZE19/LZI19 LVIT Inductive Linear Position Sensors

LZE19/LZI19 LVIT Inductive Linear Position Sensor Specifications						
Analog I/Os	0–10 VDC output; 12–30V input, 35 mA max 4 – 20 mA (3-wire) output; 18–30V input, 60 mA max. [75° C max]					
Measuring Ranges	2.5 to 750 mm [0.100 to 30 in] full scale					
Linearity Error	≤ ± 0.15% of Full Scale Output (FSO) typical, ±0.25% max					
Resolution	0.025% of FS					
Update Rate	300Hz nominal					
Operating Temperature	Current output: -20 to +85°C; [-40 to +185°F]; Voltage output: -40 to 105°C [-40 to 221°F]					
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 [3.2 ft] cable, PUR, 28AWG					
Mounting	M5 x 0.8 [mount for target rod]					
Agency Approval *	CE					

^{*}To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Wiring Diagram



*Shield not connected internally

Wiring Table					
I/O Function	Cable Color				
+ Power Input	Red				
Ground	Black				
Analog Output	Green				
SenSet™	White				
Shield/Drain *	Shield				

*Shield not connected internally

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