1-800-633-0405

LZE19-100A-00-10S

from typical mechanical overstroking.

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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)

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

position sensors are contactless devices designed for use

in factory automation or assembly machinery applications

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

	1 7 F	19/LZI19 LV	T Inductive	l inear Positi	on 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	\$;05au]:	<u>PDF</u>	2.5 [0.10]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-6.4A-00-10S	\$;05au[:	PDF	6.4 [0.25]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-12.7A-00-10S	\$05au_:	PDF	12.7 [0.50]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-025A-00-10S	\$05au#:	PDF	25 [1.0]	35.0 [1.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-050A-00-10S	\$;05au!:	PDF	50 [2.0]	60.5 [2.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-100A-00-10S	\$05au?:	PDF	100 [4.0]	111.1 [4.38]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-150A-00-10S	\$;05au,:	PDF	150 [6.0]	165.1 [6.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-200A-00-10S	\$05av0:	PDF	200 [8.0]	215.9 [8.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-250A-00-10S	\$05av1:	PDF	250 [10.0]	266.7 [10.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-300A-00-10S	\$05av2:	PDF	300 [12.0]	317.5 [12.50]	0-10 VDC	1 [3.2]	Stainless steel
LZE19-375A-00-10S	\$05av3:	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	\$05av4:	PDF	2.5 [0.10]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-6.4A-00-20S	\$05av5:	PDF	6.4 [0.25]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-12.7A-00-20S	\$05av6:	PDF	12.7 [0.50]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-025A-00-20S	\$05av7:	PDF	25 [1.0]	35.0 [1.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-050A-00-20S	\$05av8:	PDF	50 [2.0]	60.5 [2.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-100A-00-20S	\$05av9:	PDF	100 [4.0]	111.1 [4.38]	4-20 mA	1 [3.2]	Stainless steel
LZI19-150A-00-20S	\$05ava:	PDF	150 [6.0]	165.1 [6.50]	4-20 mA	1 [3.2]	Stainless steel
LZI19-200A-00-20S	\$05avb:	PDF	200 [8.0]	215.9 [8.50]	4-20 mA	1 [3.2]	Stainless steel
LZI19-250A-00-20S	\$05avc:	PDF	250 [10.0]	266.7 [10.50]	4-20 mA	1 [3.2]	Stainless steel
LZI19-300A-00-20S	\$05avd:	PDF	300 [12.0]	317.5 [12.50]	4-20 mA	1 [3.2]	Stainless steel
LZI19-375A-00-20S	\$05ave:	PDF	375 [15.0]	400.0 [15.75]	4-20 mA	1 [3.2]	Stainless steel

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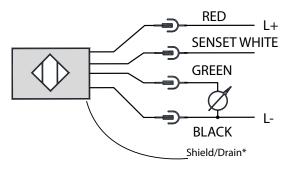
ALLIANCE SENSORS GROUP

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	$\leq \pm 0.015\%$ 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