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LZE13 LVIT Inductive Linear Position Sensors





CE

LZE13-100A-00-10S

The LZE13 series of LVIT (Linear Variable Inductance Transducer) miniature position sensors are inductive, contactless devices designed for use in factory automation or assembly machinery applications where space is a premium. The LVIT is offered in nominal full-scale ranges from 2.5 to 200mm [0.1 to 8 in] with an excellent stroke-to-body-length ratio. The sensor has 12.7 mm [1/2 in] outside diameter stainless steel body with a 1m [3.2 ft] cable for I/O connections. The 4.78 mm [0.188 in] diameter through-bore of an LZE13 provides clearance for its 4mm [0.157 in] diameter moving target rod with M4 thread and hex nut, 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 200 mm [0.10 to 8.0 in]
- Through-bore design eliminates mechanical overstroking
- DC in / DC out operation with built in electronics
- For applications where size is a constraint and superior stroke-to-body-length ratio is required
- Proprietary SenSet[™] field adjustable range scaling

LZE13 LVIT Inductive Linear Position Sensors							
Part Number	Price	Drawing Link	Stroke mm [inch]	Body Length mm [inch]	Output	Connection m [ft]	Housing Material
LZE13-2.5A-00-10S	\$05auq:	PDF	2.5 [0.10]	35.8 [1.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-6.4A-00-10S	\$05aus:	PDF	6.4 [0.25]	35.8 [1.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-12.7A-00-10S	\$;05aut:	PDF	12.7 [0.50]	35.8 [1.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-025A-00-10S	\$05auu:	PDF	25 [1.0]	35.8 [1.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-050A-00-10S	\$05auv:	PDF	50 [2.0]	61.2 [2.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-100A-00-10S	\$05aux:	PDF	100 [4.0]	112.0 [4.41]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-150A-00-10S	\$05auy:	PDF	150 [6.0]	165.1 [6.50]	0 - 10 VDC	1 [3.2]	Stainless steel
LZE13-200A-00-10S	\$05auz:	PDF	200 [8.0]	215.9 [8.50]	0 - 10 VDC	1 [3.2]	Stainless steel

LZE13 LVIT Inductive Linear Position Sensor Specifications

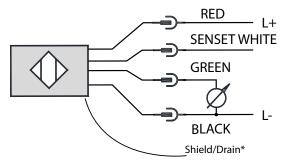
Analog I/Os	0-10 VDC output; 12-30V input, 35mA max		
Measuring Ranges	2.5 to 200 mm [0.1 to 8 in]		
Linearity Error	± 0.15% of Full Scale Output (FSO) typical, ±0.25% FSO max		
Resolution	0.025% of FSO		
Bandwidth	300Hz nominal		
Operating Temperature	-20 to +105°C [-40 to +221°F]		
Temperature Coefficient	≤ 0.015% of FSO/K		
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, 316L stainless steel 28 AWG		
Mounting	M4 x 0.7 [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.



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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