



Home> Products > Linear and Rotary Potentiometric Sensors> LT > Product Page

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LTS05N05KF5C



Actual product appearance may vary.

LT Series Standard Linear Position Transducer, 127,0 mm [5.0 in] Electrical Travel, 1.0 % Linearity, Cable Termination, Item Number F58000105

Features

MystR² plastic element- Tested up to one billion operations
1/2 inch diameters- Fit in tight spaces and clamps easily to cylinders
Dual wiper design - Improves shock and vibration performance
Extruded wiper block guides - Smooth quiet motion, extends operating life
Anodized extruded aluminum housing- Tolerates clamping loads
Stainless steel shaft - Full performance in hostile environments
Precious metal contact- Low noise level over entire life
Absolute continuous measurement- Accurate position at power up

Potential Applications

Medical equipment
Hospital beds
Linear actuators
Animated characters
Gauging
Woodworking guides
Fluid flow meters
Seismology
Semiconductor Processing

Description

The LT Series is a small diameter linear position transducer that is rugged enough to withstand hostile factory environments. Using a proprietary dual wiper, internal ball joint and the MystR² conductive plastic film the LT provides a usable output at high vibration levels over long periods of time. LT transducers use precious metal wipers to further enhance reliability. The LT can be provided with shaft seals for spray or hose down environments. Intrinsically safe for Class I, II and III Division I, Groups A, B, C, D, E, F and G for hazardous (indoor/outdoor) NEMA 4 locations. V max.=30 V, I max.=100 mA, Ci=0, Li.=0mH.

Supporting Documentation

- ▶ Dimensions
- ▶ Circuitry

Product Specifications	
Supply Voltage	30 Vdc max.
Measurement Type	Linear
Housing Size	165,1 mm [6.5 in]
Total Mechanical Travel	128,27 mm [5.05 in]
Electrical Travel	127,0 mm [5.0 in]
Starting Force (max.)	28,35 g max. [1.0 oz max.]
Linearity	± 1.0 %
Backlash	0,00508 mm max. [0.0002 in max.]
Bearing Type	Sleeve
Shaft Material	Stainless Steel
Shaft Diameter	1/8 in - #4 - 40 UNC - 2A thread
Type of Element	MystR [®] conductive plastic film
Housing Style	Anodized Aluminum
Termination	28 awg, 3 cond. - 152,4 mm [6.0 in] cable
Wiper Current	<1 μ A
Resolution	Infinite
Operating Temperature Range	- 40 °C to 80 °C [- 40 °F to 176 °F]
Vibration	20 g / 0,75 mm (rms) 5 hz to 2 khz
Shock	50 g 11 ms half sine
Operating Life	one billion dither operations
Total Resistance	5,000 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	500 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	45 g [1.59 oz]
Sealing	NEMA 4
UNSPSC Code	41111945
UNSPSC Commodity	41111945 Linear position sensors
Availability	Global
Comments	Options; Electrical Travel, Total Resistance, Rod End Bearing, Metric Shaft Adapter
Series Name	LT

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