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LTW02N02KB5C

**LT Series Water Resistant Linear Position Transducer, 50.8 mm [2.0 in]
Electrical Travel, 0.1 % Linearity, Cable Termination, Item Number F58000232**

*Actual product appearance may vary.***Features**

- MystR® 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 MystR® 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.

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Product Specifications

Supply Voltage	30 Vdc max.
Measurement Type	Linear
Housing Size	88.9 mm [3.5 in]
Total Mechanical Travel	52.07 mm [2.05 in]
Electrical Travel	50.8 mm [2.0 in]
Starting Force (max.)	340.19 g max. [12.0 oz max.]
Linearity	± 0.1 %
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	2,000 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	500 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	26 g [0.92 oz]
Sealing	NEMA 4 - Water Resistant
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