

→ Honeywell.com

→ Automation & Control Solutions

NEWS & EVENTS

Honeywell Sensing and Control

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

Order Product and Get Support

- U.S. Authorized Distributors
- Global Sales & Service
- N. American Sales Reps
- Distributor Inventory
- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
- Customer Feedback

MLT002N3000B5C



MLT Series Linear Position Transducer, 50,8 mm [2.0 in] Electrical Travel, Less than 0.5 % Linearity, Item Number F38000202

Actual product appearance may vary.

Features

- MystR[?] plastic element -Tested up to one billion operations
- 3/8 inch diameter Fits 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
- Internal spring loaded ball joint

 Less error from shaft
 misalignment
- 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 charactersGauging
- Woodworking guides
- Fluid flow meters
- Seismology
- Semiconductor Processing

My Links

- Login to iCOM
- → Login as Rep/AD
- Login as Guest
- → Login to Digital University

Keyword Search

Search for product and support information.

All Sensing and Contr

Product Search

Part number search:



Use (*) to expand search

Specification Search

Description

The MLT 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 MLT provides a usable output at high vibration levels over long periods of time. MLT transducers use precious metal wipers to further enhance reliability.

The MLT's 3/8 inch diameter is among the smallest available and can used to replace LVDT's in many applications.

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





Product Specifications			
Supply Voltage		30 Vdc max.	

1 of 2 3/26/2008 11:31 AM

Measurement Type	Linear	
Housing Size	81,28 mm [3.2 in]	
Total Mechanical Travel	52,07 mm [2.05 in]	
Electrical Travel	50,8 mm [2.0 in]	
Starting Force (max.)	28,35 g max. [1.0 oz max.]	
Linearity	less than 0.5 %	
Backlash	0,0127 mm max. [0.0005 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	26 awg, 3 cond 305,0 mm [12.0 in] cable	
Wiper Current	<1 µA	
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	3,000 Ohms	
Resistance Tolerance	± 20 %	
Insulation Resistance	500 MOhm @ 500 Vdc	
Dielectric Strength	1000 V rms	
Weight (Ranges)	20 g [0.71 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	MLT	

Terms & Conditions | Privacy Statement | Site Map

2 of 2