



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

MLT001N1500F5C

MLT Series Linear Position Transducer, 25,4 mm [1.0 in] Electrical Travel, 1.0 % Linearity, Item Number F38000101

Features

- ? MystR<sup>®</sup> 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

Typical Applications

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

Description

The MLT Series is a small 3/8" - diameter linear position transducer that is rugged enough to withstand hostile factory environments. Using a proprietary dual wiper, internal ball joint and the MystR<sup>®</sup> 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.

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Product Specifications	
Supply Voltage	30 Vdc max.
Measurement Type	Linear
Housing Size	55,88 mm [2.2 in]
Total Mechanical Travel	26,67 mm [1.05 in]
Electrical Travel	25,4 mm [1.0 in]
Starting Force (max.)	28,35 g max. [1.0 oz max.]
Linearity	± 1.0 %
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 <sup>®</sup> conductive plastic film
Housing Style	Anodized Aluminum
Termination	26 awg, 3 cond. - 305,0 mm [12.0 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	1,500 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	500 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	14 g [0.49 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 Series

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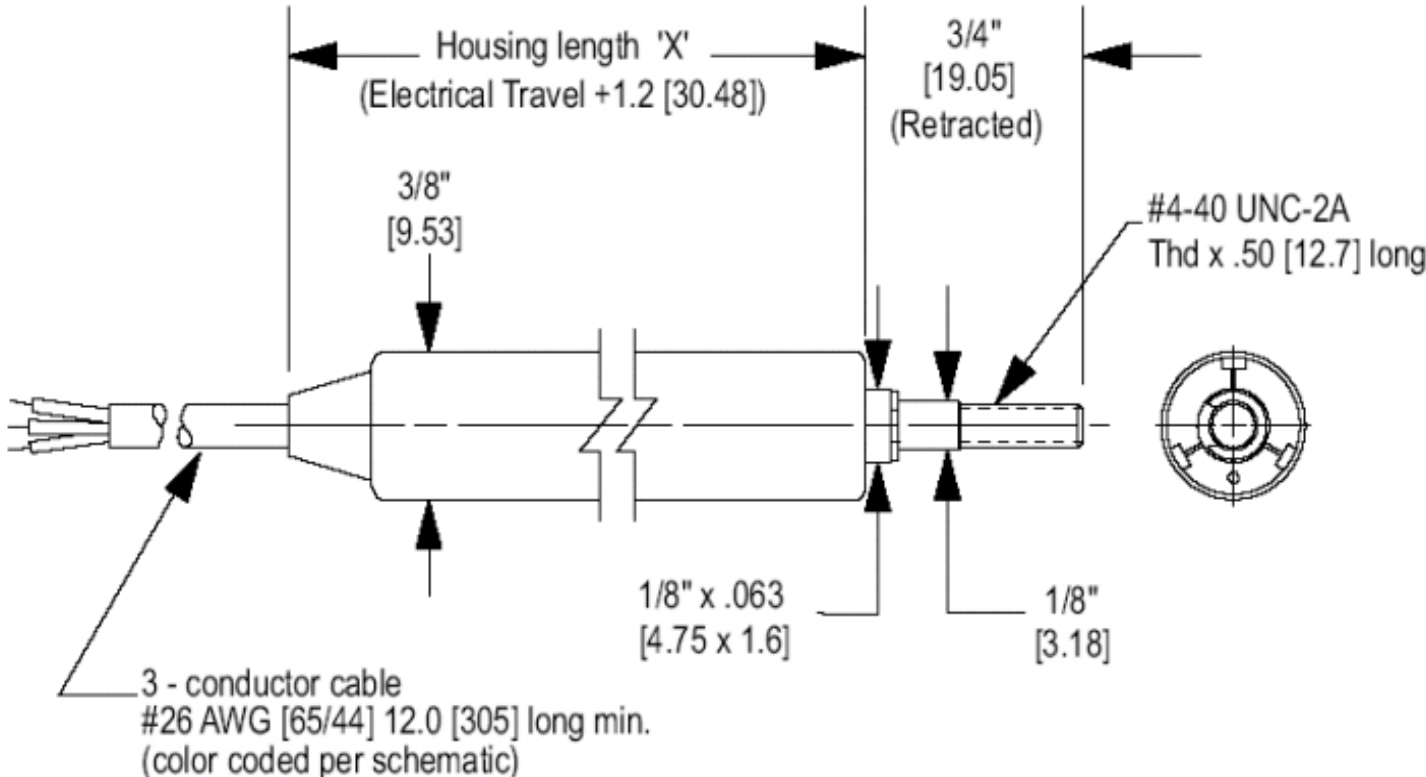
MLT Series Linear Position Transducer, 25,4 mm [1.0 in] Electrical Travel, 1.0 % Linearity, Item Number F38000101

DIMENSIONS

Dimensions For Reference Only

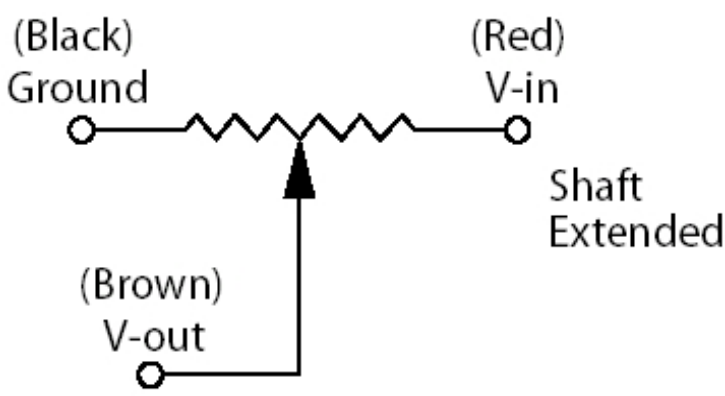
xx.xx = inches

(xx.x) = mm



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Connect to High Impedance Circuit

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MLT Series Linear Position Transducer, 25,4 mm [1.0 in] Electrical Travel, 1.0 % Linearity, Item Number F38000101

**⚠ WARNING**

**PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

**⚠ WARNING**

**MISUSE OF DOCUMENTATION**

- ? The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- ? Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.