



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.

MLT006N9000F5C

MLT Series Linear Position Transducer, 152,4 mm [6.0 in] Electrical Travel, 1.0 % Linearity, Item Number F38000106

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                | 182,88 mm [7.2 in]  |
| Total Mechanical Travel     | 153,67 mm [6.05 in]   |
| Electrical Travel           | 152,4 mm [6.0 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            | 9,000 Ohms  |
| Resistance Tolerance        | ± 20 %  |
| Insulation Resistance       | 500 MOhm @ 500 Vdc  |
| Dielectric Strength         | 1000 V rms  |
| Weight (Ranges)             | 31 g [1.09 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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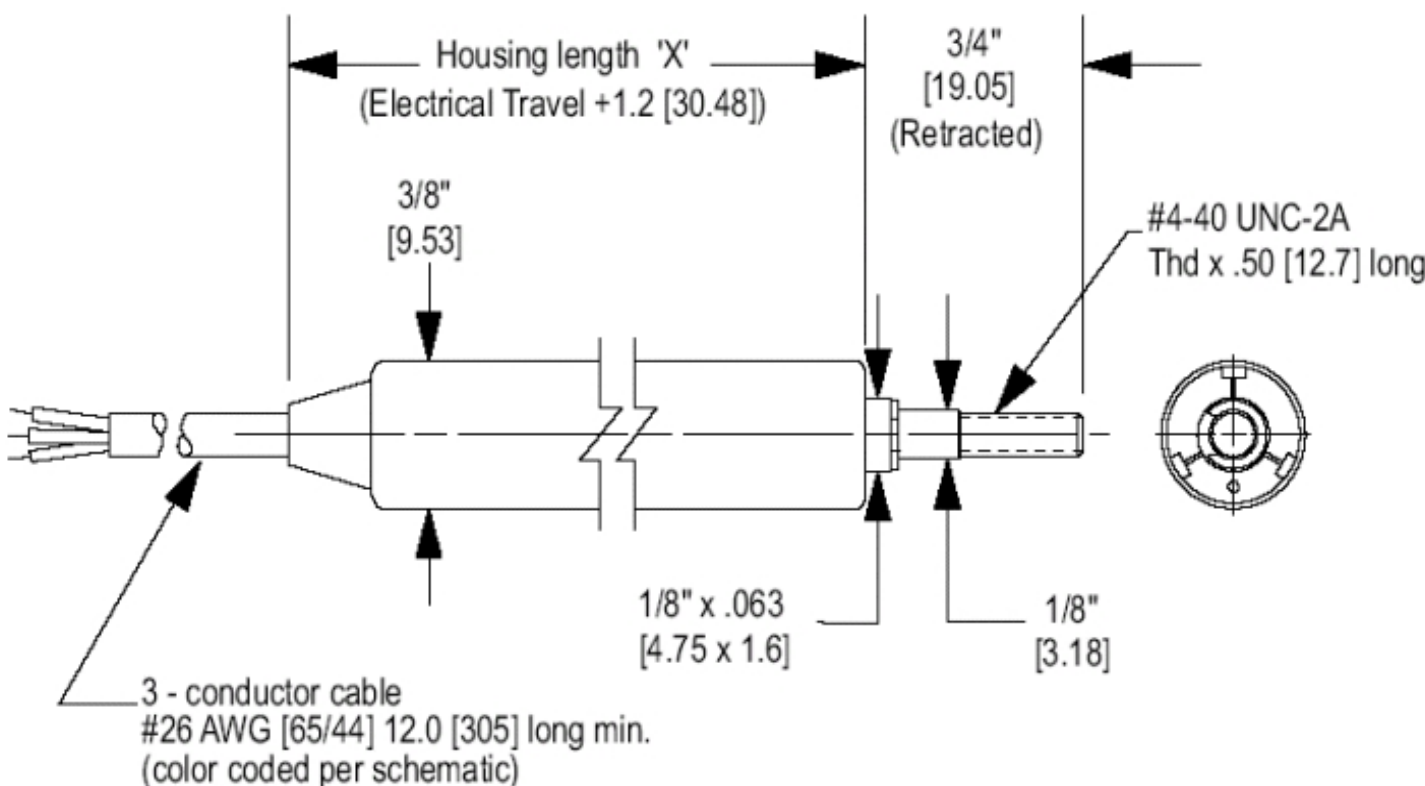
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DIMENSIONS

Dimensions For Reference Only

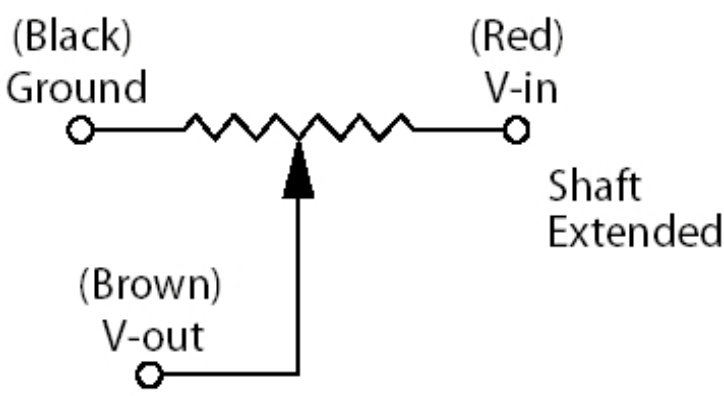
xx.xx = inches

(xx.x) = mm



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**⚠ 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.