

Honeywell



Representative photograph, actual product appearance may vary.

SLF01N1500F6A

Short LongFellow Linear Position Transducer, 25,4 mm [1.0 in] Electrical Travel, Binder Series 681 Termination, Item Number F56101101

Features

- 7 Mystr® plastic elements - Tested up to one billion operations
- 7 Precious metal wipers - Insures high performance, low noise
- 7 .081" thick housing with 6 mm shaft - Rugged construction for manufacturing environment
- 7 High performance bearings - Long life even with side load conditions
- 7 Shaft seals - Protects internal components from factory environment
- 7 Absolute continuous measurement - Accurate position at power - up
- 7 High level DC output - Works with simple controls

Typical Applications

- ? Injection molding machines
- ? Printing presses
- ? Meat packing equipment
- ? Drill presses
- ? Wookworking machines
- ? Cranes
- ? Front - end loaders

Description

The Short Longfellow is frequently used for measuring linear position or displacement up to 6" on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front bearing, anodized extruded aluminum housing, stainless steel shaft and precious metal wipers are suitable for a factory's harsh environment.

Based on the proprietary MystR[®] conductive plastic film, it provides a high resolution, absolute position measurement without external signal conditioners.

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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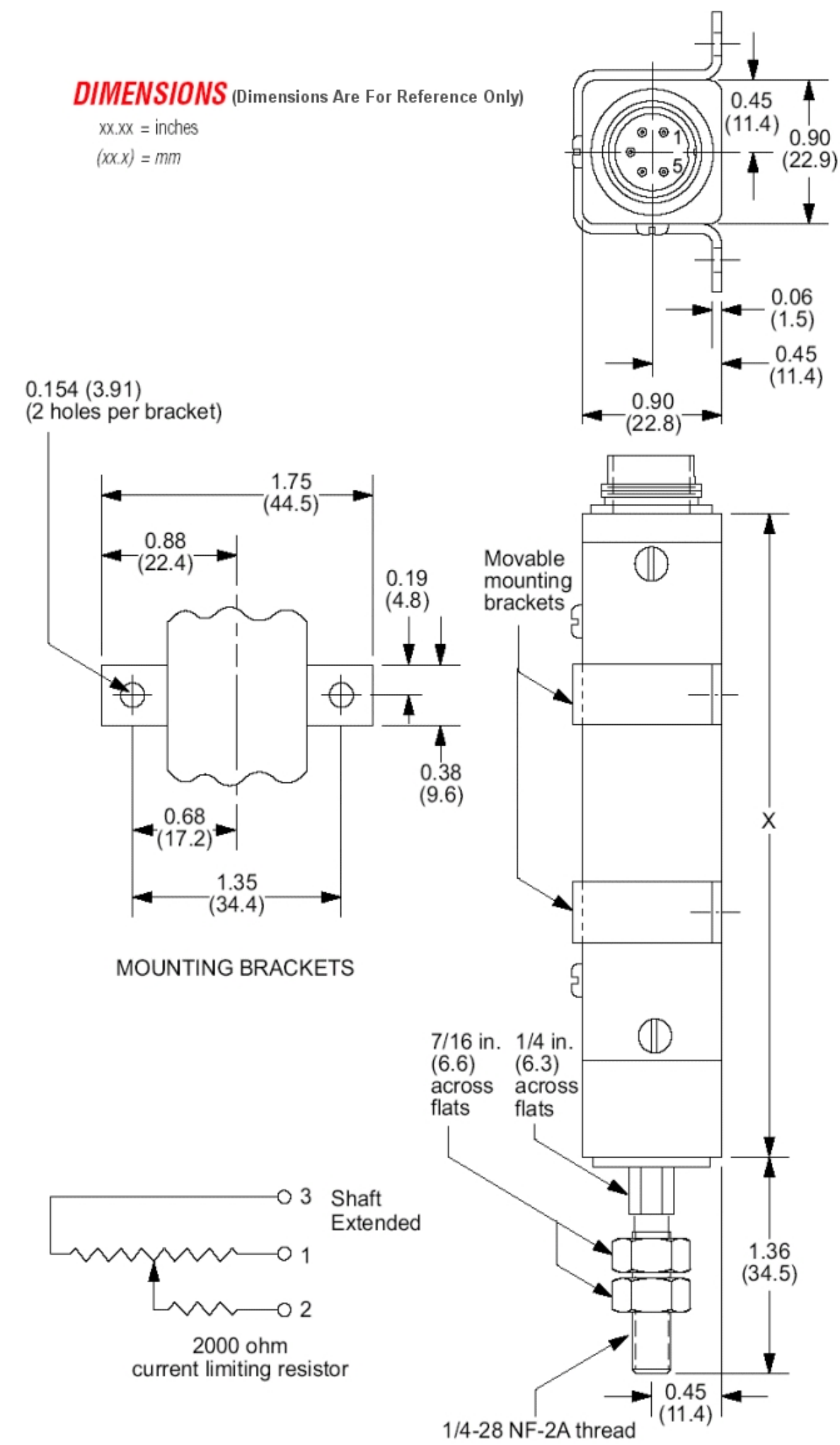
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Product Specifications	
Supply Voltage	40 Vdc max.
Measurement Type	Linear
Housing Size	102.9 mm [4.05 in]
Total Mechanical Travel	30.5 mm [1.20 in]
Electrical Travel	25.4 mm [1.0 in]
Starting Force (max.)	0.45 kg [1.0 lb]
Linearity	± 1.0 %
Backlash	0.025 mm [.001 in]
Bearing Type	Sleeve
Shaft Material	Stainless Steel
Shaft Diameter	1/4 in - 28 NF - 2A thread
Type of Element	Mysa® conductive plastic film
Housing Style	Anodized Aluminum
Termination	Binder Series 681
Wiper Current	<1 µA
Resolution	Infinite
Operating Temperature Range	- 65 °C to 105 °C [- 85 °F to 221 °F]
Vibration	20 g / 0.75 mm (rms) 5 hz to 2 khz
Shock	50 g 11 ms half sine
Operating Life	one billion other operations
Total Resistance	1,500 Ohms
Resistance Tolerance	± 20 %
Weight (Ranges)	118 g [0.26 lb]
Sealing	NEMA 4
UNSPSC Code	41111945
UNSPSC Commodity	41111945 Linear position sensors
Availability	Global
Comments	Note: Mating Connector, Item Number 3718401, Sold Separately. Options: Electrical Travel, Total Resistance, Linearity, Rod End Bearing, Ball Joint Assembly, Shaft Thread (M6 x 1 Metric), Dual Elements
Series Name	S/LF Series

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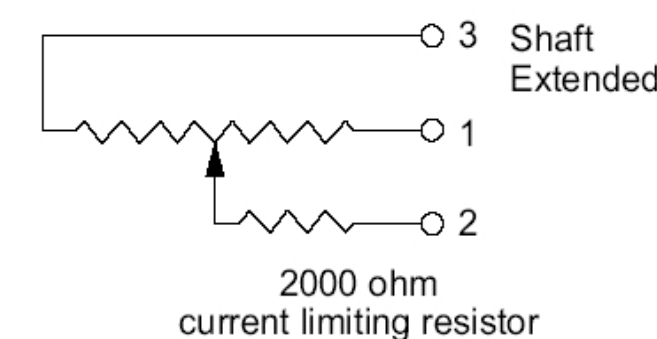
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⚠ WARNING
PERSONAL INJURY
DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

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.