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SLF050R8M3000F8A



Actual product appearance may vary.

Short LongFellow Linear Position Transducer, 50,8 mm [2.0 in] Electrical Travel, Binder Series 681 Termination, Item Number F56102109

Features

MystR² plastic elements - Tested up to one billion operations
 Precious metal wipers - Insures high performance, low noise
 .081" thick housing with 6 mm shaft - Rugged construction for manufacturing environment
 High performance bearings - Long life even with side load conditions
 Shaft seals - Protects internal components from factory environment
 Absolute continuous measurement - Accurate position at power -up
 High level DC output - Works with simple controls

Potential Applications

Injection molding machines
 Printing presses
 Meat packing equipment
 Drill presses
 Woodworking 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 MystR² 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.

Supporting Documentation

- ▣ [Dimensions](#)
- ▣ [Circuitry](#)

Product Specifications	
Supply Voltage	40 Vdc max.
Measurement Type	Linear
Housing Size	128,3 mm [5.05 in]
Total Mechanical Travel	55,9 mm [2.20 in]
Electrical Travel	50,8 mm [2.0 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	M6 x 1 metric thread
Type of Element	MystR [®] conductive plastic film
Housing Style	Anodized Aluminum
Termination	Binder Series 681
Wiper Current	<1 μ A
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 dither operations
Total Resistance	3,000 Ohms
Resistance Tolerance	± 20 %
Weight (Ranges)	141 g [0.31 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 1/4 - 28 - 2B), Dual Elements
Series Name	SLF Metric

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