



### SLF04N6000B6A



*Actual product appearance may vary.*

**Short LongFellow Linear Position Transducer, 101,6 mm [4.0 in] Electrical Travel, Binder Series 681 Termination, Item Number F56104103**

#### Features

- MystR\* 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
- 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.

Product Specifications	
Supply Voltage	40 Vdc max.
Measurement Type	Linear
Housing Size	176,5 mm [6.95 in]
Total Mechanical Travel	105,4 mm [4.15 in]
Electrical Travel	101,6 mm [4.0 in]
Starting Force (max.)	0,45 kg [1.0 lb]
Linearity	± 0.1 %
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	MystR® 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 dither operations
Total Resistance	6,000 Ohms
Resistance Tolerance	± 20 %
Weight (Ranges)	182 g [0.4 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	SLF