



Representative photograph, actual product appearance may vary.

LF2S09N5KB6A

LongFellow® II Linear Position Transducer, 228,6 mm [9.0 in] Electrical Travel, Binder Series 681 termination, Item Number 9810902

Features

- Vibration damped element - No wiper bounce in high vibration environments
- Spring-loaded ball joint on wiper assembly - Smooth, easy operation under high side loads
- Extruded wiper carrier guides - Smooth operation under large misalignment
- Precious metal wipers - Insures high performance, low noise, no oxidation
- MystR® plastic elements - Tested up to one billion operations
- High performance bearings - Long life under side load conditions
- Shaft seals - Protect internal components from harsh environments
- High DC level output - Works with simple controllers
- Absolute continuous measurement - Accurate position at power-up

Typical Applications

- Injection molding machines
- Printing presses
- Meat packing equipment
- Drill presses
- Woodworking machines
- Cranes
- Front-end loaders
- Scales

Description

The LongFellow® II incorporates design innovations to increase transducer life and provide greater resistance to vibration, while providing a smooth high-quality signal for demanding factory control applications. It has a solid stainless steel shaft, longer front-end bearings, a vibration-free damped element, a spring-loaded ball joint and a high precision precious metal wiper. Carrier guides extrude the full length of the housing to insure smooth operation even under severe side load conditions.

The newly designed internal components provide improvements based on worldwide testing and field experience.

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	30 Vdc max.
Measurement Type	Linear
Housing Size	309,6 mm [12.19 in]
Total Mechanical Travel	230,8 mm [9.09 in]
Electrical Travel	228,6 mm [9.0 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	5,000 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	1000 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	0,500 kg [1.1 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), Din 43650 Connector, Dual Elements
Series Name	LFII Series

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