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LF2W30N5KB6A



Actual product appearance may vary.

LongFellow® II Linear Position Transducer, Water Resistant, 762,0 mm [30.0 in] Electrical Travel, Binder Series 681 termination, Item Number 9811207

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
 MystR² 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

Potential Applications

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

Description

The LongFellow² 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 springloaded 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.

Supporting Documentation

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

Product Specifications	
Supply Voltage	30 Vdc max.
Measurement Type	Linear
Housing Size	843,0 mm [33.19 in]
Total Mechanical Travel	764,2 mm [30.09 in]
Electrical Travel	762,0 mm [30.0 in]
Starting Force (max.)	2,27 kg [5.0 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 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	5,000 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	1000 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	1,18 kg [2,6 lb]
Sealing	NEMA 4 - Water Resistant
UNSPSC Code	41111945
UNSPSC Commodity	41111945 Linear position sensors
Availability	Global
Comments	Note: Mating Connector, Item Number E02903021, 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

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