

### Linear Potentiometric Sensors - LF2509N5KB6A

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

Actual product appearance may vary.

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### Description

The LongFellow<sup>®</sup> 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.

#### 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<sup>®</sup> 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

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