APPLICATIONS

INJECTION MOLDING MACHINES

PRINTING PRESSES

MEAT PACKING EQUIPMENT

> • DRILL PRESSES

• WOODWORKING MACHINES

CRANES

FRONT-END LOADERS

SCALES

SEMI CONDUCTOR PROCESSING LONGFELLOW II • LINEAR POSITION TRANSDUCER

The new Longfellow II has a rugged long-life design featuring greater resistance to vibration and a smooth high quality signal. 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 extruded the full length of the housing insure smooth operation even under severe side load conditions.

The Longfellow II is a direct drop-in replacement for existing Waters, Data Instruments, Novotechnik, Gefran or Sfernice units. The newly designed internal components provide improvements which were developed after worldwide testing and field experience.

Intrinsically Safe for Class I, II, and III Division 1, 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, uF, Li, = 0 mH.

1-1

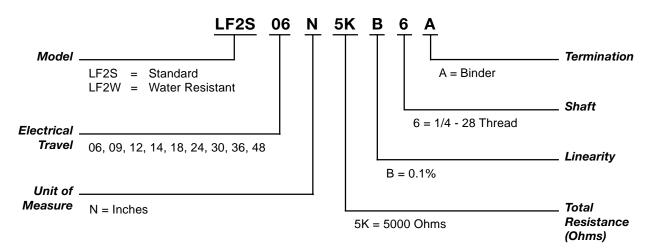
FEATURES

- Vibration damped element
- Spring-loaded ball joint assembly
- Extruded wiper carrier guides
- Precious metal wipers
- MystR[®] plastic elements
- High DC level output
- High performance bearings
- Absolute continuous measurement
- Shaft seals
- LF2W

BENEFIT

- No wiper bounce in high vibration Environments
- Operation under high side loads
- Smooth operation under large misalignment
- Insures high performance, low noise, no oxidation
- Tested up to one billion operations
- Works with simple controllers
- Long life under side load conditions
- Accurate position at power-up
 - Protect internal components from environments
 - NEMA 4 and water resistant

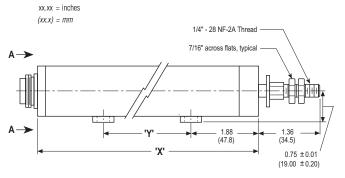


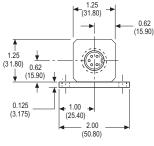


TECHNICAL SPECIFICATIONS

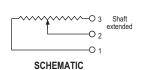
MECHANICAL		
Total Mechanical Travel	6 to 48 in.	
	(150 to 1200 mm)	
Starting Forces*	1.0 lb (0.45 kg)	
Total Weight	0.8 to 4.9 lb	
	(0.36 to 2 kg)	
Vibration**	20 g rms/0.75 mm 5-2 Hz	
Shock	50 g, 11 ms half sine	
Backlash	0.001 in.	
	(0.025 mm)	
Life	One Billion Dither Operations	-
ELECTRICAL		
Theoretical	6.0 to 48.0 in.	
Electrical Travel	(150 to 1200 mm)	
Independent	0.1% over	
Linearity	Theoretical Electrical Travel	
Total Resistance	5000 Ohms	
Resistance Tolerance	20%	
Operating	-65° to 105° C	
Temperature	(-85° to 221° F)	
Resolution	Infinite	
Insulation Resistance	1000 M Ohms @ 500 Vdc	
Dielectric Strength	1000 V rms	
Recommended Wiper Curre	ent <1 μA	
Electrical	Binder Series 681	
Connection	Connector or Equivalent	
Maximum Applied Voltage	30 Vdc	_

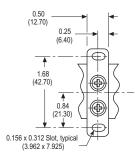
DIMENSIONS





VIEW A-A





MOUNTING FEET (2)

Mounting feet shown above are for standard LF II models only. Mounting feet are not included with water resistant LF II models. Water resistant LF II models are shipped with brackets.

Starting force for LFIIW 5 lbs. MAX

Water resistant LFIIW Models are rated to NEMA 4

** For vibration levels up to 50 g rms and higher additional housing clamps are required

Caution: Do not test on an Ohm Meter on the Rx 1 scale or other current devices Caution: Excessive Wiper Current can cause Output errors or damage. Caution: Zero shaft side load is recommended to achieve maximum life.

SPECIALS AND ACCESSORIES

Other Electrical Travels
Other Resistance Values

Rod-end Bearings

Ball Joint Assembly

- Dual Element
- DIN 43650 Connector
- Optional Linearity Values
- M6 x 1 Metric Thread

Item # 1102800 M.G. 10/01

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www.honeywell.com/sensing/products/di

WARRANTY/REMEDY

Notes:

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

1. Total Mechanical Travel equals Electrical Travel plus 0.090 inches minimum

(EXCEPT for LF II 09/225: 'Y' Equals Electrical Travel minus 1.12 inches)

2. 'X' Overall Length equals Electrical Travel plus 3.19 inches

3. 'Y' Equals Electrical Travel minus 1.00 inches

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.



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