

## APPLICATIONS

- INJECTION MOLDING MACHINES
- PRINTING PRESSES
- MEAT PACKING EQUIPMENT
- WEATHER INSTRUMENTS
- DRILL PRESSES
- WOODWORKING MACHINES
- CRANES
- FRONT-END LOADERS
- SCALES
- SEMI CONDUCTOR PROCESSING

## SHORT LONGFELLOW SERIES • LINEAR POSITION TRANSDUCER

The Short Longfellow is frequently used for measuring linear position or displacement up to 6 inches on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front and rear bearings, 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 1, Groups A, B, C, D, E, F and G for Hazardous (indoor/outdoor) NEMA 4 locations.  
 $V_{max} = 30\text{ V}$ ,  $I_{max} = 100\text{ mA}$ ,  $C_i = 0, \mu\text{F}$ ,  $L_i = 0\text{ mH}$ .



# SHORT LONGFELLOW SERIES LINEAR POSITION TRANSDUCER

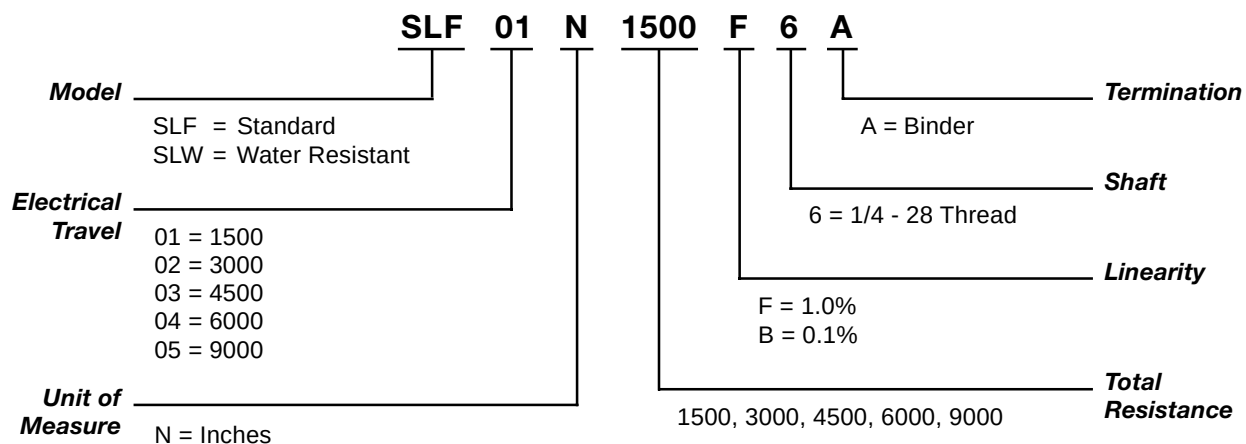
## FEATURES

- Precious metal wipers
- 0.081 inch thick housing with 0.25 inch shaft
- Shaft seals
- MystR® plastic element
- Absolute continuous measurement
- High performance bearings
- High level DC output

## BENEFIT

- Insures high performance, low noise
- Rugged construction for manufacturing environment
- Protects internal components from factory environment
- Tested up to 1 billion operations
- Accurate position at power up
- Long life even with side load conditions
- Works with simple controls

## HOW TO ORDER



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

Note: The *Total Resistance* is determined by *Electrical Travel*, at 1500 Ohms per inch.

# SHORT LONGFELLOW SERIES • LINEAR POSITION TRANSDUCER

## TECHNICAL SPECIFICATIONS

### MECHANICAL

|                         |                              |
|-------------------------|------------------------------|
| Total Mechanical Travel | See table below              |
| Starting Force*         | 1 lb                         |
| Total Weight            | 0.26 to 0.49 lb              |
| Vibration               | 20 g / 0.75 mm (rms) 5-2 kHz |
| Shock                   | 50 g, 11 ms half sine        |
| Backlash                | 0.001 in.                    |
| Life                    | One Billion operations       |

### ELECTRICAL

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Theoretical Electrical Travel | See table below                                  |
| Independent Linearity**       | ±1.0% or ±0.1%                                   |
| Total Resistance              | 1500 Ohms per inch theoretical electrical travel |
| Resistance Tolerance          | ±20%                                             |
| Operating Temperature         | -65° to 105° C                                   |
| Resolution                    | Infinite                                         |
| Maximum Applied Voltage       | 40 Vdc                                           |
| Recommended Wiper Current     | <1 µA                                            |
| Electrical Connection         | Binder Series 681 Connector or equivalent        |

\* Starting Force for SLW 5 lbs. (2.3 kg)

\*\* 5-95% of Theoretical Electrical Travel

Caution: Do not test on an Ohm Meter on the Rx 1 scale or other current devices.

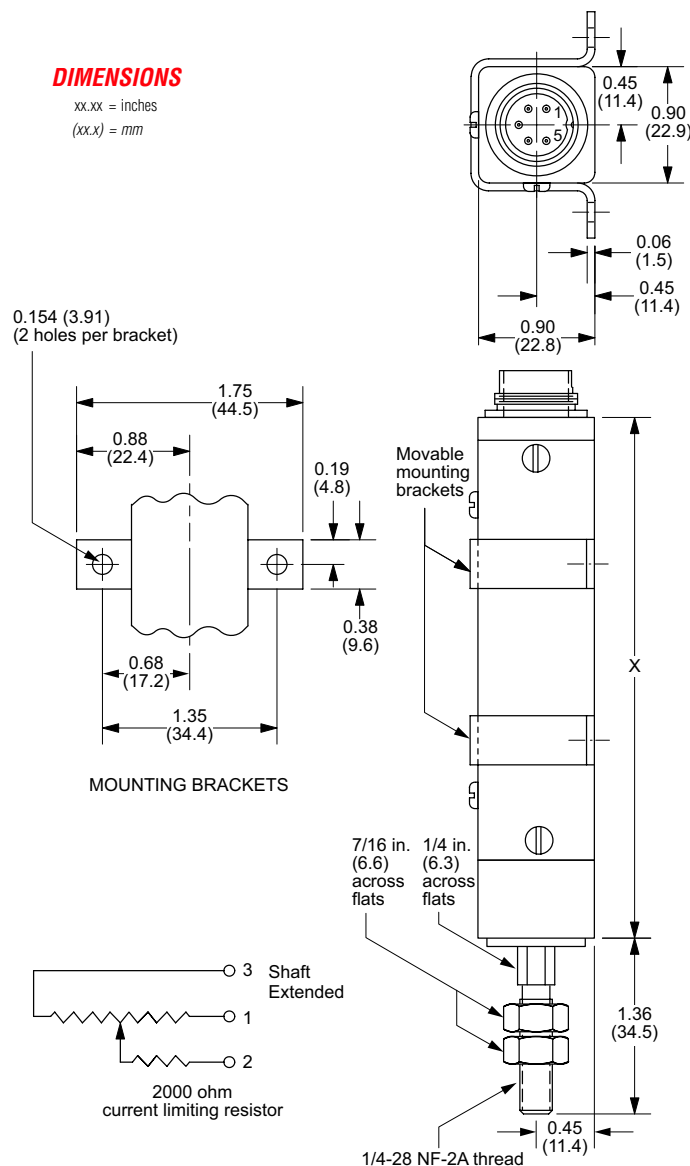
Caution: Excessive Wiper Current can cause Output errors or damage.

Caution: Zero shaft side load is recommended to achieve maximum life.

| Model          | Electrical Travel in inches | Mechanical Travel in inches | Total Resistance in Ohms | Body Length 'X' in inches |
|----------------|-----------------------------|-----------------------------|--------------------------|---------------------------|
| SLF01 or SLW01 | 1.0                         | 1.20                        | 1500                     | 4.05                      |
| SLF02 or SLW02 | 2.0                         | 2.20                        | 3000                     | 5.05                      |
| SLF03 or SLW03 | 3.0                         | 3.15                        | 4500                     | 5.95                      |
| SLF04 or SLW04 | 4.0                         | 4.15                        | 6000                     | 6.95                      |
| SLF06 or SLW06 | 6.0                         | 6.15                        | 9000                     | 8.95                      |

### DIMENSIONS

xx.xx = inches  
(xx.x) = mm



## SPECIALS AND ACCESSORIES

- Other Mechanical Travels
- Other Electrical Travels
- Other Resistance Values
- Rod and Bearings
- Ball Joint Assembly
- Other Linearity Values

## WARRANTY/REMEDY

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.

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.

Item # 1098800 M.G. 10/01

**Honeywell**

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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