

Linear and Rotary Position

Position sensors respond to the movement or location of a target, such as a molding press slide or a pulley shaft, by producing either a digital or an analogue output correlated to its location. Honeywell position sensors include digital and analogue Hall-effect position sensors, magnetoresistive digital sensors and potentiometric rotary and linear sensors. Sensors are directly compatible with other electronic circuits for application flexibility.

With the combined capabilities of three well-known brand names - Data Instruments, Clarostat, Electro and New England Instruments - Honeywell the group continuously strives to remain at the forefront of position sensing technology. In this catalogue we present our range of Linear and Rotary Position transducers and Torque Watch gauges, all suitable for use in industrial environments.



Linear and Rotary Position Transducers

Honeywell Sensing and Control manufactures a variety of potentiometric position sensors. The sensors use a tried and true potentiometric technology originally developed for military applications and more recently applied to industrial markets. MystR® conductive plastic potentiometric sensors are long-life units designed for rugged industrial applications. The proprietary MystR® conductive plastic has an extensive temperature range, infinite resolution and provides absolute position measurement on power-up. Intermediate signal conditioning is not required for normal ratio-metric position sensing. Very small stroke units (5 mm [0.2 in]) and units required to withstand exposure to harsh chemicals or work immersed in many different oils are available. If there is heavy hose down or spray from oil or water, a water resistant or waterproof potentiometer such as the AQ series should be used.

Linear products have CE approval, Intrinsically Safe For Class I, II, III, Division 1, Groups A, B, C, D, E, F, G With Enty. Vmax: 30 Vdc, Imax: 100 mA, Ci: 0.0 micro F, Li: 0.0 mH, T4A @ 105 °C Ambient.

Mechanical life:
Approvals:
Housing:
Element:
Shaft:
Wiper current:
Resolution:

1 billion dither operations
 CE, NEMA 4 - water resistant
 Anodized aluminium
 MystR® conductive plastic film
 Stainless steel
 < 1 uA
 Infinite

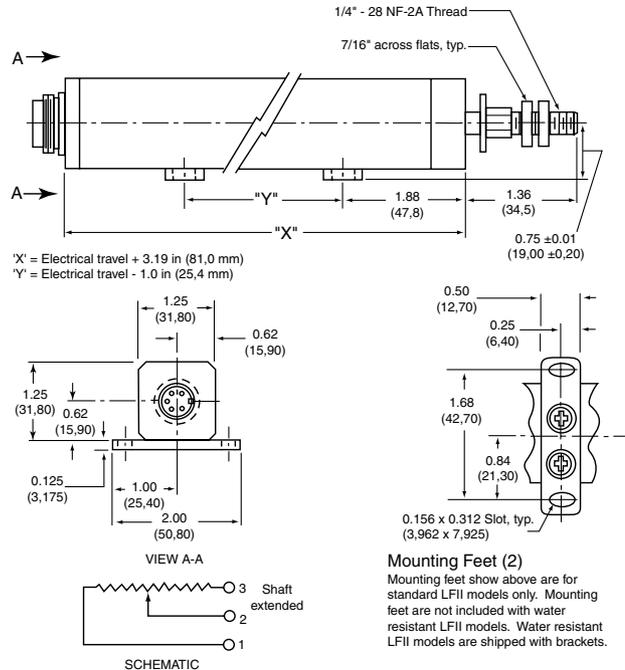
LFII Series Longfellow II linear position transducer



The new 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 are extruded the full length of the housing to ensure smooth operation even under severe side load conditions.

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

| | |
|-------------------------------|--|
| Operating temperature: | -65 °C to 105 °C (-85 °F to 221 °F) |
| Supply voltage (max.): | 30 Vdc |
| Linearity: | ± 0.1 % |
| Starting force (max.): | |
| Standard | 0.45 kg (1.0 lb) |
| Water resistant | 2.27 kg (5.0 lb) |
| Backlash (max.): | 0,025 mm (0.001 in) |
| Total Resistance: | 5000 Ohm |
| Shaft Ø: | 1/4 in |
| Termination: | Connector, Binder Series 681 |
| Housing length: | = Electrical travel + 3.19 in (81,02 mm) |
| Mechanical travel: | = Electrical travel + 0.09 in (2,29 mm) |



Mounting Feet (2)
 Mounting feet show above are for standard LFII models only. Mounting feet are not included with water resistant LFII models. Water resistant LFII models are shipped with brackets.

OPTIONS

Standard

Mating connector, 3718401, sold separately

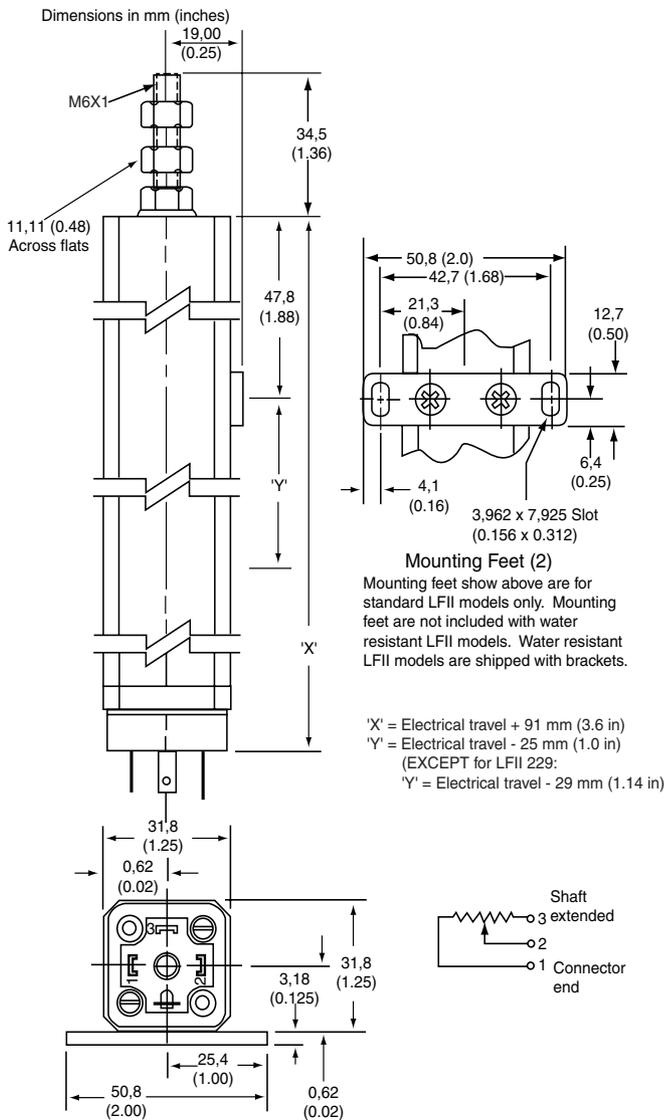
| ELECTRICAL TRAVEL (IN (MM)) | REFERENCE |
|-----------------------------|--------------|
| 6.0 (152,4) | LF2S06N5KB6A |
| 9.0 (228,6) | LF2S09N5KB6A |
| 12.0 (304,8) | LF2S12N5KB6A |
| 14.0 (355,6) | LF2S14N5KB6A |
| 18.0 (457,2) | LF2S18N5KB6A |
| 24.0 (609,6) | LF2S24N5KB6A |
| 30.0 (762,0) | LF2S30N5KB6A |
| 36.0 (914,4) | LF2S36N5KB6A |
| 48.0 (1219,2) | LF2S48N5KB6A |

Water resistant

Mating connector, E02903021, sold separately

| ELECTRICAL TRAVEL (IN (MM)) | REFERENCE |
|-----------------------------|--------------|
| 6.0 (152,4) | LF2W06N5KB6A |
| 9.0 (228,6) | LF2W09N5KB6A |
| 12.0 (304,8) | LF2W12N5KB6A |
| 14.0 (355,6) | LF2W14N5KB6A |
| 18.0 (457,2) | LF2W18N5KB6A |
| 24.0 (609,6) | LF2W24N5KB6A |
| 30.0 (762,0) | LF2W30N5KB6A |
| 36.0 (914,4) | LF2W36N5KB6A |
| 48.0 (1219,2) | LF2W48N5KB6A |

LFII Metric Series
Longfellow II linear position transducer



Operating temperature: -65 °C to 105 °C (-85 °F to 221 °F)
Supply voltage (max.): 30 Vdc
Linearity: ± 0.1 %
Starting force (max.):
 Standard 0,45 kg (1.0 lb)
 Water resistant 2,27 kg (5.0 lb)
Backlash (max.): 0,025 mm (0.001 in)
Total Resistance: 5000 Ohm
Shaft Ø: 1/4 in
Termination: Connector
 A = Binder Series 681
 G = DIN 43650
Housing length: = Electrical travel + 91,0 mm (3.6 in)
Mechanical travel: = Electrical travel + 2,2 mm (0.09 in)

OPTIONS

Standard - Binder

Mating connector, 3718401, sold separately

| ELECTRICAL TRAVEL (MM (IN)) | REFERENCE |
|-----------------------------|----------------|
| 152,4 (6.0) | LF2S0152M5KB8A |
| 228,6 (9.0) | LF2S0229M5KB8A |
| 304,8 (12.0) | LF2S0305M5KB8A |
| 355,6 (14.0) | LF2S0355M5KB8A |
| 457,2 (18.0) | LF2S0457M5KB8A |
| 609,6 (24.0) | LF2S0610M5KB8A |
| 762,0 (30.0) | LF2S0762M5KB8A |
| 914,4 (36.0) | LF2S0914M5KB8A |
| 1219,2 (48.0) | LF2S1219M5KB8A |

Standard - DIN 43650

Mating connector included

| ELECTRICAL TRAVEL (MM (IN)) | REFERENCE |
|-----------------------------|----------------|
| 152,4 (6.0) | LF2S0152M5KB8G |
| 228,6 (9.0) | LF2S0229M5KB8G |
| 304,8 (12.0) | LF2S0305M5KB8G |
| 355,6 (14.0) | LF2S0355M5KB8G |
| 457,2 (18.0) | LF2S0457M5KB8G |
| 609,6 (24.0) | LF2S0610M5KB8G |
| 762,0 (30.0) | LF2S0762M5KB8G |
| 914,4 (36.0) | LF2S0914M5KB8G |
| 1219,2 (48.0) | LF2S1219M5KB8G |

Water resistant - Binder

Mating connector, E02903021, sold separately

| ELECTRICAL TRAVEL (MM (IN)) | REFERENCE |
|-----------------------------|----------------|
| 152,4 (6.0) | LF2W0152M5KB8A |
| 228,6 (9.0) | LF2W0229M5KB8A |
| 304,8 (12.0) | LF2W0305M5KB8A |
| 355,6 (14.0) | LF2W0355M5KB8A |
| 457,2 (18.0) | LF2W0457M5KB8A |
| 609,6 (24.0) | LF2W0610M5KB8A |
| 762,0 (30.0) | LF2W0762M5KB8A |
| 914,4 (36.0) | LF2W0914M5KB8A |
| 1219,2 (48.0) | LF2W1219M5KB8A |

Water resistant - DIN 43650

Mating connector included

| ELECTRICAL TRAVEL (MM (IN)) | REFERENCE |
|-----------------------------|----------------|
| 152,4 (6.0) | LF2W0152M5KB8G |
| 228,6 (9.0) | LF2W0229M5KB8G |
| 304,8 (12.0) | LF2W0305M5KB8G |
| 355,6 (14.0) | LF2W0355M5KB8G |
| 457,2 (18.0) | LF2W0457M5KB8G |
| 609,6 (24.0) | LF2W0610M5KB8G |
| 762,0 (30.0) | LF2W0762M5KB8G |
| 914,4 (36.0) | LF2W0914M5KB8G |
| 1219,2 (48.0) | LF2W1219M5KB8G |

DR Series

Durastar rodless linear position transducer



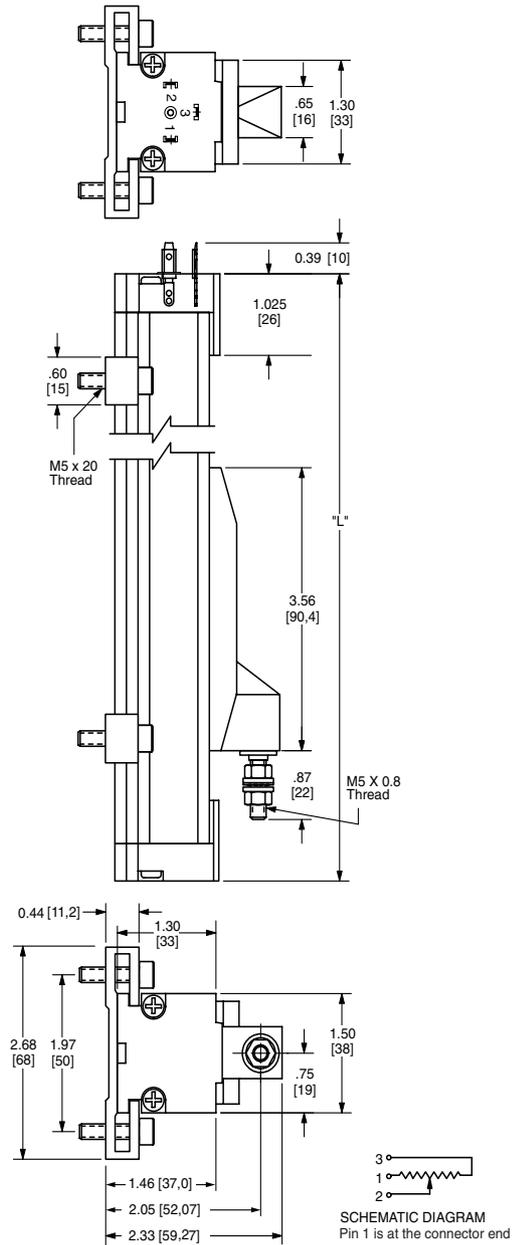
The DuraStar rodless linear position transducer is the longest lasting factory-rugged potentiometer. It allows large misalignment of shaft and housing, while providing whisper-quiet operation and smooth, clean signal output. MystR® provides the DuraStar excellent durability, especially in dither operation which is so often the determining factor in a potentiometer's life. It is an excellent replacement unit to reduce maintenance operations.

The rodless side-sealed DuraStar can also be used to replace a rodded potentiometer in contaminated applications to improve performance while providing long life.

| | |
|-------------------------------|---------------------------------------|
| Operating temperature: | -65 °C to 105 °C (-85 °F to 221 °F) |
| Supply voltage (max.): | 75 Vdc |
| Linearity: | ± 0.1 % |
| Starting force (max.): | 0,45 kg (1.0 lb) |
| Backlash (max.): | 0,025 mm (0.001 in) |
| Shaft: | M5x0.8 metric thread |
| Termination: | Connector, DIN 43560 |
| Mechanical travel: | = Electrical travel + 5,0 mm (0.2 in) |

Mating connector included

| ELECTRICAL TRAVEL (MM (IN)) | TOTAL RESISTANCE (OHM) | HOUSING LENGTH (MM (IN)) | REFERENCE |
|--------------------------------|---------------------------|-----------------------------|-------------|
| 101,6 (4.0) | 2000 | 250,0 (9.84) | DR04N02KB7G |
| 127,0 (5.0) | 2000 | 280,0 (11.02) | DR05N02KB7G |
| 152,4 (6.0) | 5000 | 300,0 (11.81) | DR06N05KB7G |
| 203,2 (8.0) | 5000 | 352,0 (13.86) | DR08N05KB7G |
| 228,6 (9.0) | 5000 | 375,9 (14.80) | DR09N05KB7G |
| 304,8 (12.0) | 5000 | 452,1 (17.80) | DR12N05KB7G |
| 355,6 (14.0) | 5000 | 514,1 (20.24) | DR14N05KB7G |
| 406,4 (16.0) | 5000 | 553,9 (21.8) | DR16N05KB7G |
| 457,2 (19.0) | 5000 | 605,0 (23.8) | DR18N05KB7G |
| 508,0 (20.0) | 5000 | 656,0 (25.83) | DR20N05KB7G |
| 609,6 (24.0) | 10000 | 757,9 (29.84) | DR24N10KB7G |
| 762,0 (30.0) | 10000 | 910,0 (35.83) | DR30N10KB7G |
| 914,4 (36.0) | 10000 | 1062,5 (41.83) | DR36N10KB7G |
| 1016,0 (40.0) | 10000 | 1164,0 (45.83) | DR40N10KB7G |
| 1270,0 (50.0) | 10000 | 1418,0 (55.83) | DR50N10KB7G |



SLF Series

Short Longfellow linear position transducer



The Short Longfellow is frequently used for measuring linear position or displacement up to 6 inches (152,4 mm) on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front bearing, 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.

| | |
|-------------------------------|---|
| Operating temperature: | -65 °C to 105 °C (-85 °F to 221 °F) |
| Supply voltage (max.): | 40 Vdc |
| Starting force (max.): | |
| Standard | 0,45 kg (1.0 lb) |
| Water resistant | 2,27 kg (5.0 lb) |
| Backlash (max.): | 0,025 mm (0.001 in) |
| Shaft Ø: | 1/4 in |
| Termination: | Connector, Binder Series 681 |
| Housing length: | = Electrical travel + 3.05 in (77,5 mm) |
| Mechanical travel: | = Electrical travel + 0.2 in (5,1 mm) |

| | Electrical Travel (in (mm)) | Total Resistance (Ohm) |
|----------------|------------------------------------|-------------------------------|
| SLF01 or SLW01 | 1.0 (25,4) | 1500 |
| SLF02 or SLW02 | 2.0 (50,8) | 3000 |
| SLF03 or SLW03 | 3.0 (76,2) | 4500 |
| SLF04 or SLW04 | 4.0 (101,6) | 6000 |
| SLF06 or SLW06 | 6.0 (152,4) | 9000 |

OPTIONS

Standard

Mating connector, 3718401, sold separately

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|--------------------------|------------------|
| 1.0 (25,4) | SLF01N1500B6A |
| 2.0 (50,8) | SLF02N3000B6A |
| 3.0 (76,2) | SLF03N4500B6A |
| 4.0 (101,6) | SLF04N6000B6A |
| 6.0 (152,4) | SLF06N9000B6A |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|--------------------------|------------------|
| 1.0 (25,4) | SLF01N1500F6A |
| 2.0 (50,8) | SLF02N3000F6A |
| 3.0 (76,2) | SLF03N4500F6A |
| 4.0 (101,6) | SLF04N6000F6A |
| 6.0 (152,4) | SLF06N9000F6A |

Water resistant

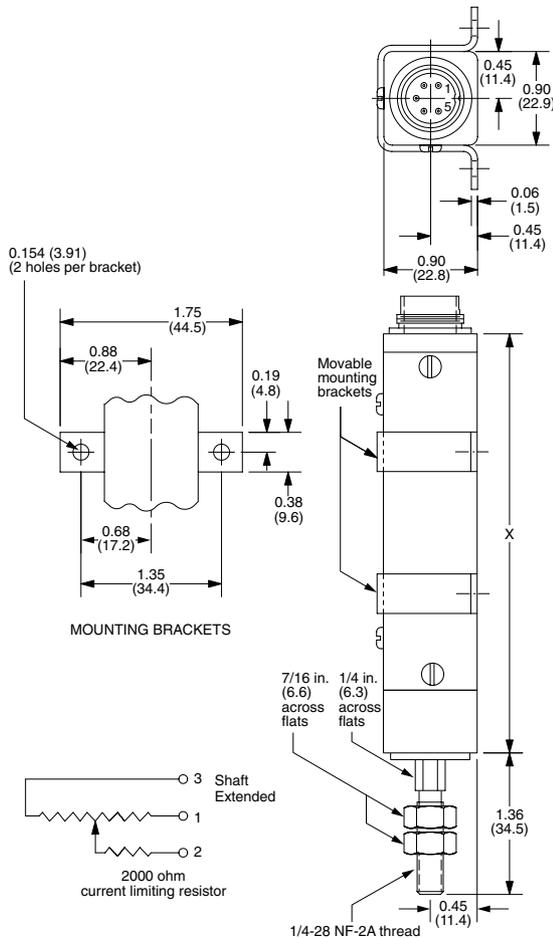
Mating connector, E02903021, sold separately

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|--------------------------|------------------|
| 1.0 (25,4) | SLW01N1500B6A |
| 2.0 (50,8) | SLW02N3000B6A |
| 3.0 (76,2) | SLW03N4500B6A |
| 4.0 (101,6) | SLW04N6000B6A |
| 6.0 (152,4) | SLW06N9000B6A |

± 1.0 % Linearity

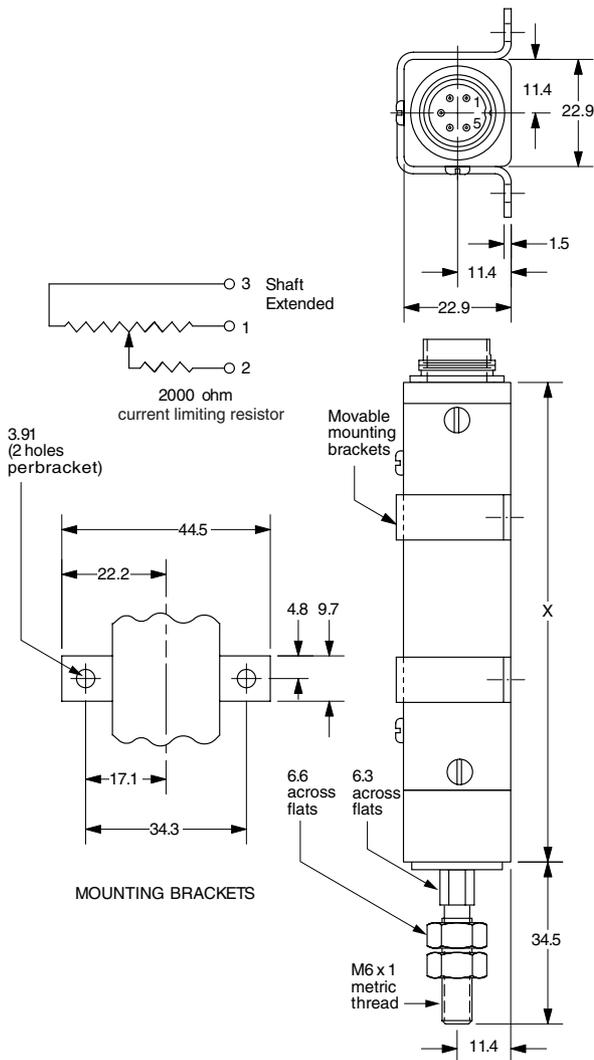
| ELECTRICAL TRAVEL | REFERENCE |
|--------------------------|------------------|
| 1.0 (25,4) | SLW01N1500F6A |
| 2.0 (50,8) | SLW02N3000F6A |
| 3.0 (76,2) | SLW03N4500F6A |
| 4.0 (101,6) | SLW04N6000F6A |
| 6.0 (152,4) | SLW06N9000F6A |



SLF Metric Series
Short Longfellow linear position transducer



Operating temperature: -65 °C to 105 °C (-85 °F to 221 °F)
Supply voltage (max.): 40 Vdc
Starting force (max.): Standard 0,45 kg (1.0 lb)
 Water resistant 2,27 kg (5.0 lb)
Backlash (max.): 0,025 mm (0.001 in)
Shaft Ø: M6x1 metric thread
Termination: Connector, Binder Series 681
Housing length: = Electrical travel + 77,5 mm (3.05 in)
Mechanical travel: = Electrical travel + 5,1 mm (0.2 in)



| | Electrical Travel (in mm) | Total Resistance (Ohm) |
|----------------------|------------------------------|---------------------------|
| SLF025R4 or SLW025R4 | 25,4 (1.0) | 1500 |
| SLF050R8 or SLW050R8 | 50,8 (2.0) | 3000 |
| SLF076R2 or SLW076R2 | 76,2 (3.0) | 4500 |
| SLF101R6 or SLW101R6 | 101,6 (4.0) | 6000 |
| SLF152R4 or SLW152R4 | 152,4 (6.0) | 9000 |

OPTIONS

Standard

Mating connector, 3718401, sold separately

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|------------------|
| 25.4 (1.0) | SLF025R4M1500B8A |
| 50.8 (2.0) | SLF050R8M3000B8A |
| 76.2 (3.0) | SLF076R2M4500B8A |
| 101.6 (4.0) | SLF101R6M6000B8A |
| 152.4 (6.0) | SLF152R4M9000B8A |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|------------------|
| 25.4 (1.0) | SLF025R4M1500F8A |
| 50.8 (2.0) | SLF050R8M3000F8A |
| 76.2 (3.0) | SLF076R2M4500F8A |
| 101.6 (4.0) | SLF101R6M6000F8A |
| 152.4 (6.0) | SLF152R4M9000F8A |

Water resistant

Mating connector, E02903021, sold separately

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|------------------|
| 25.4 (1.0) | SLW025R4M1500B8A |
| 50.8 (2.0) | SLW050R8M3000B8A |
| 76.2 (3.0) | SLW076R2M4500B8A |
| 101.6 (4.0) | SLW101R6M6000B8A |
| 152.4 (6.0) | SLW152R4M9000B8A |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|------------------|
| 25.4 (1.0) | SLW025R4M1500F8A |
| 50.8 (2.0) | SLW050R8M3000F8A |
| 76.2 (3.0) | SLW076R2M4500F8A |
| 101.6 (4.0) | SLW101R6M6000F8A |
| 152.4 (6.0) | SLW152R4M9000F8A |

LT Series

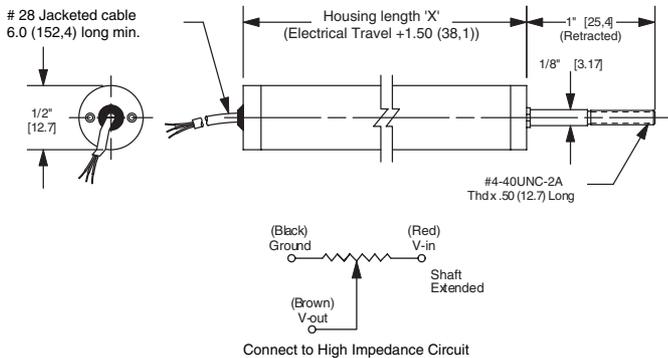
Linear position transducer, 1/2 in diameter



The LT Series are 1/2 inch diameter, linear position transducers rugged enough to withstand the hostile environment of the factory. The LT can be provided with shaft seals for spray or hose down environments.

- Operating temperature:** -40 °C to 80 °C (-40 °F to 176 °F)
- Supply voltage (max.):** 30 Vdc
- Starting force (max.):**
 - Standard 28,35 g (1.0 oz)
 - Water resistant 340,19 g (12.0 oz)
- Backlash (max.):** 0,00508 mm (0.0002 in)
- Shaft Ø:** 1/8 in
- Termination:** Cable
- Housing length:** = Electrical travel + 1.50 in (38,10 mm)
- Mechanical travel:** = Electrical travel + 0.05 in (1,27 mm)

| | Electrical Travel (in (mm)) | Total Resistance (Ohm) |
|----------------|--------------------------------|---------------------------|
| LTS01 or LTW01 | 1.0 (25,4) | 1000 |
| LTS02 or LTW02 | 2.0 (50,8) | 2000 |
| LTS03 or LTW03 | 3.0 (76,2) | 3000 |
| LTS04 or LTW04 | 4.0 (101,6) | 4000 |
| LTS05 or LTW05 | 5.0 (127,0) | 5000 |
| LTS06 or LTW06 | 6.0 (152,4) | 6000 |
| LTS07 or LTW07 | 7.0 (177,8) | 7000 |
| LTS08 or LTW08 | 8.0 (203,2) | 8000 |
| LTS09 or LTW09 | 9.0 (228,6) | 9000 |
| LTS10 or LTW10 | 10.0 (254,0) | 10000 |



OPTIONS

Standard

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|--------------|
| 1.0 (25,4) | LTS01N01KB5C |
| 2.0 (50,8) | LTS02N02KB5C |
| 3.0 (76,2) | LTS03N03KB5C |
| 4.0 (101,6) | LTS04N04KB5C |
| 5.0 (127,0) | LTS05N05KB5C |
| 6.0 (152,4) | LTS06N06KB5C |
| 7.0 (177,8) | LTS07N07KB5C |
| 8.0 (203,2) | LTS08N08KB5C |
| 9.0 (228,6) | LTS09N09KB5C |
| 10.0 (254,0) | LTS10N10KB5C |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|--------------|
| 1.0 (25,4) | LTS01N01KF5C |
| 2.0 (50,8) | LTS02N02KF5C |
| 3.0 (76,2) | LTS03N03KF5C |
| 4.0 (101,6) | LTS04N04KF5C |
| 5.0 (127,0) | LTS05N05KF5C |
| 6.0 (152,4) | LTS06N06KF5C |
| 7.0 (177,8) | LTS07N07KF5C |
| 8.0 (203,2) | LTS08N08KF5C |
| 9.0 (228,6) | LTS09N09KF5C |
| 10.0 (254,0) | LTS10N10KF5C |

Water resistant

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|--------------|
| 1.0 (25,4) | LTW01N01KB5C |
| 2.0 (50,8) | LTW02N02KB5C |
| 3.0 (76,2) | LTW03N03KB5C |
| 4.0 (101,6) | LTW04N04KB5C |
| 5.0 (127,0) | LTW05N05KB5C |
| 6.0 (152,4) | LTW06N06KB5C |
| 7.0 (177,8) | LTW07N07KB5C |
| 8.0 (203,2) | LTW08N08KB5C |
| 9.0 (228,6) | LTW09N09KB5C |
| 10.0 (254,0) | LTW10N10KB5C |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|--------------|
| 1.0 (25,4) | LTW01N01KF5C |
| 2.0 (50,8) | LTW02N02KF5C |
| 3.0 (76,2) | LTW03N03KF5C |
| 4.0 (101,6) | LTW04N04KF5C |
| 5.0 (127,0) | LTW05N05KF5C |
| 6.0 (152,4) | LTW06N06KF5C |
| 7.0 (177,8) | LTW07N07KF5C |
| 8.0 (203,2) | LTW08N08KF5C |
| 9.0 (228,6) | LTW09N09KF5C |
| 10.0 (254,0) | LTW10N10KF5C |

MLT Series

Linear position transducer, 3/8 in Diameter

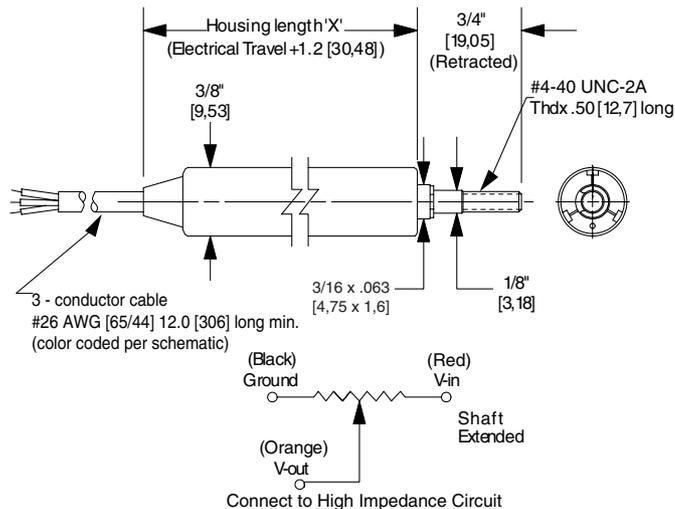


The MLT Series is 3/8 in diameter linear position transducer that is rugged enough to withstand hostile factory environments. Using a proprietary dual wiper, internal ball joint and the MystR® conductive plastic film the MLT provides a usable output at high vibration levels over long periods of time. MLT transducers use precious metal wipers to further enhance reliability.

The MLT's 3/8 inch diameter is among the smallest available and can be used to replace LVDT's in many applications.

| | |
|-------------------------------|--|
| Operating temperature: | -40 °C to 80 °C (-40 °F to 176 °F) |
| Supply voltage (max.): | 30 Vdc |
| Starting force (max.): | 28,35 g (1.0 oz) |
| Backlash (max.): | 0,0127 mm (0.0005 in) |
| Shaft Ø: | 1/8 in |
| Termination: | Cable |
| Housing length: | = Electrical travel + 1.20 in (30,48 mm) |
| Mechanical travel: | = Electrical travel + 0.05 in (1,27 mm) |

| | Electrical Travel (in (mm)) | Total Resistance (Ohm) |
|--------|--------------------------------|---------------------------|
| MLTOR5 | 0.5 (12,7) | 750 |
| MLT001 | 1.0 (25,4) | 1500 |
| MLT002 | 2.0 (50,8) | 3000 |
| MLT003 | 3.0 (76,2) | 4500 |
| MLT004 | 4.0 (101,6) | 6000 |
| MLT005 | 5.0 (127,0) | 7500 |
| MLT006 | 6.0 (152,4) | 9000 |



OPTIONS

± 0.1 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|----------------|
| 2.0 (50,8) | MLT002N3000B5C |
| 3.0 (76,2) | MLT003N4500B5C |
| 4.0 (101,6) | MLT004N6000B5C |
| 5.0 (127,0) | MLT005N7500B5C |
| 6.0 (152,4) | MLT006N9000B5C |

± 0.25 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|----------------|
| 1.0 (25,4) | MLT001N1500D5C |

± 1.0 % Linearity

| ELECTRICAL TRAVEL | REFERENCE |
|-------------------|----------------|
| 0.5 (12,7) | MLTOR5N0750F5C |
| 1.0 (25,4) | MLT001N1500F5C |
| 2.0 (50,8) | MLT002N3000F5C |
| 3.0 (76,2) | MLT003N4500F5C |
| 4.0 (101,6) | MLT004N6000F5C |
| 5.0 (127,0) | MLT005N7500F5C |
| 6.0 (152,4) | MLT006N9000F5C |

AQLT/AQMLT Series

Shaftless, waterproof linear position transducer



The AQLT and AQMLT are shaftless waterproof linear potentiometers designed to operate in wet/washdown and in-tank environments.

The AQ series features an external actuator magnetically coupled to a position feedback element. The magnetic actuator replaces the shaft, found in traditional linear transducers, and eliminates the need for additional stroke length mounting space.

Precious metal dual wipers, MystR® proprietary conductive plastic, and anodized aluminum housings provide long life and reliable operation in numerous applications.

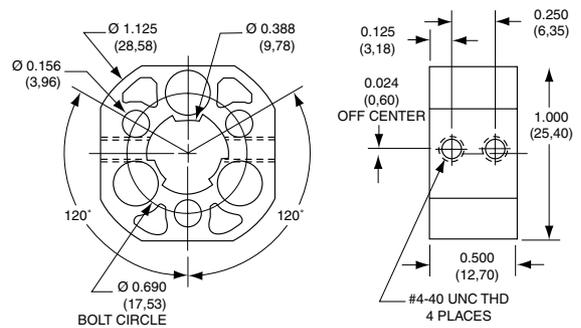
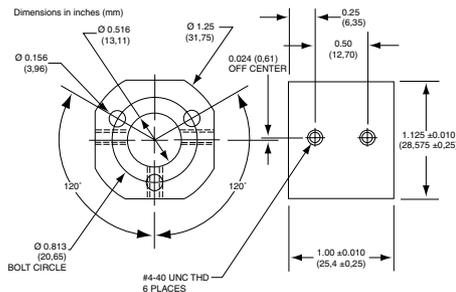
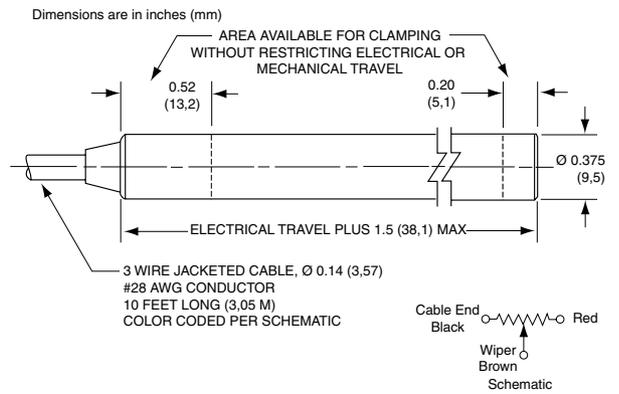
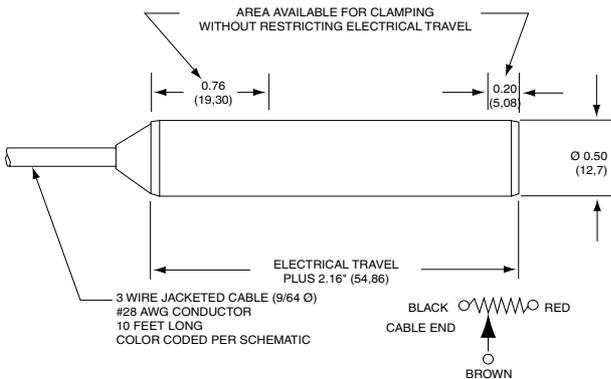
| | |
|-------------------------------|------------------------------------|
| Operating temperature: | -40 °C to 80 °C (-40 °F to 176 °F) |
| Supply voltage (max.): | 30 Vdc |
| Linearity: | ± 1.0 % |
| Starting force (max.): | AQMT 56,7 g (2.0 oz) |
| | AQMLT 28,35 g (1.0 oz) |
| Sealing: | IP68 |
| Termination: | Cable |

AQLT Series

Housing length: = Electrical travel + 54,87 mm (2.16 in)
Mechanical travel: = Electrical travel + 2,54 mm (0.1 in)

AQMLT Series

Housing length: = Electrical travel + 38,1 mm (1.5 in)
Mechanical travel: = Electrical travel + 2,54 mm (0.1 in)



| ELECTRICAL TRAVEL (MM (IN)) | TOTAL RESISTANCE (OHM) | REFERENCE |
|-----------------------------|------------------------|--------------|
| 152,4 (6.0) | 6000 | AQLT06N06KFC |
| 304,8 (12.0) | 12000 | AQLT12N12KFC |
| 457,2 (18.0) | 18000 | AQLT18N18KFC |
| 609,6 (24.0) | 24000 | AQLT24N24KFC |
| 762,0 (30.0) | 30000 | AQLT30N30KFC |
| 965,2 (38.0) | 38000 | AQLT38N38KFC |

| ELECTRICAL TRAVEL (MM (IN)) | TOTAL RESISTANCE (OHM) | REFERENCE |
|-----------------------------|------------------------|-----------------|
| 12,7 (0.5) | 750 | AQMLT05N00750FC |
| 25,4 (1.0) | 1500 | AQMLT01N01500FC |
| 76,2 (3.0) | 3000 | AQMLT03N04500FC |
| 152,4 (6.0) | 9000 | AQMLT06N09000FC |
| 228,6 (9.0) | 13500 | AQMLT09N13500FC |
| 304,8 (12.0) | 18000 | AQMLT12N18000FC |

M22 Series Rotary position transducer



The M22 rotary potentiometer, available in servo and bushing mount, utilizes wear-resistant MystR® conductive plastic film combined with precious metal wipers to produce a quiet operating, low-noise, stable signal. Gold plated terminals eliminate soldering problems due to tarnish. The high-quality components are packaged in a cost-effective housing designed with an anodized aluminum face plate or nickel-plated brass bushing to handle assembly and operating loads. The integral internal terminations eliminate the need for internal wires which may break under vibration and thermal stress.

The M22 series rotary potentiometers are used in position-sensing applications which demand high reliability at low cost.

| | | |
|-------------------------------|------|------------------------------------|
| Operating temperature: | | -40 °C to 85 °C (-40 °F to 185 °F) |
| Supply voltage (max.): | | 30 Vdc |
| Starting force (max.): | M22B | 0.3 oz in (torque) |
| | M22S | 1.0 oz in (torque) |
| Total resistance: | | 2000 Ohm |
| Backlash (max.): | | 0.1° |
| Shaft Ø: | | 3,175 mm (0.125 in) |
| Termination: | | Gold plated solder terminals |
| Housing size: | | 22,0 mm (0.87 in) |
| Bearing type: | | Sleeve |
| Mechanical travel: | M22B | 330° |
| | M22S | Continuous rotation |
| Electrical travel: | M22B | 320° |
| | M22S | 340° |

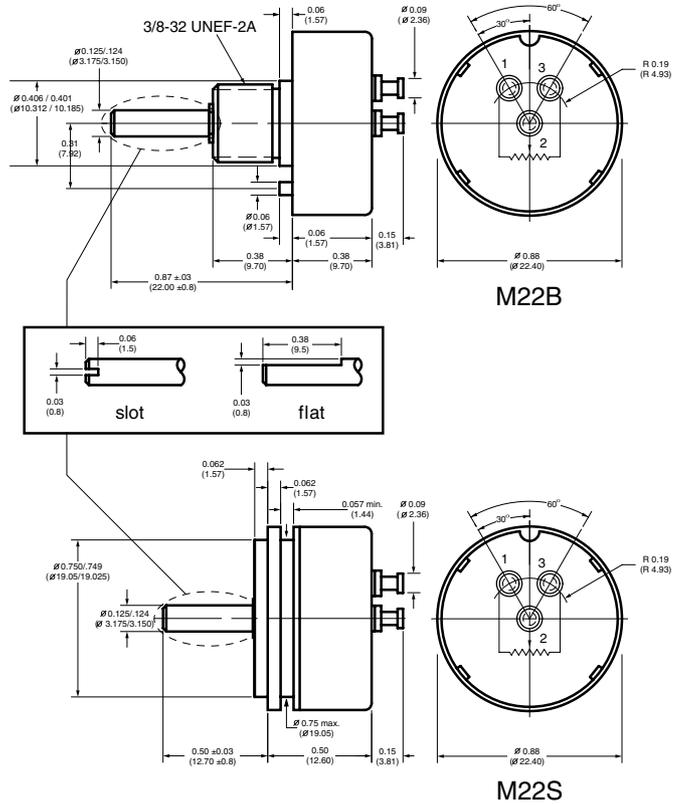
OPTIONS

Threaded bushing mount

| LINEARITY | REFERENCE |
|-----------|-----------|
| ± 0.5 % | M22B2KE1S |
| ± 1.0 % | M22B2KF1S |

Servo mount

| LINEARITY | REFERENCE |
|-----------|-----------|
| ± 0.25 % | M22S2KD1S |
| ± 0.5 % | M22S2KE1S |
| ± 1.0 % | M22S2KF1S |



WPM Series

Rotary position transducer, servo mount



Available in servo mount styles, the WPM Series rotary transducer provides long life by utilizing the proprietary MystR[®] conductive plastic film, precious metal wipers and shielded ball bearings on the stainless steel shaft.

The MystR[®] film provides exceptionally long rotational and dither life without sacrificing microlinearity or resolution. The shielded ball bearings ensure long life even with side load conditions.

| | |
|-------------------------------|--|
| Operating temperature: | -55 °C to 125 °C (-67 °F to 257 °F) |
| Supply voltage (max.): | 60 Vdc |
| Total resistance: | 5000 Ohm |
| Backlash (max.): | 0.01 % |
| Shaft Ø: | WPM5KA4* 3,175 mm (0.125 in) WPM5KB1* 6,35 mm (0.25 in) |
| Termination: | Gold plated solder terminals |
| Bearing type: | Ball bearings |
| Mechanical travel: | Continuous rotation |
| Approvals: | MIL-PRF-39023 qualified |

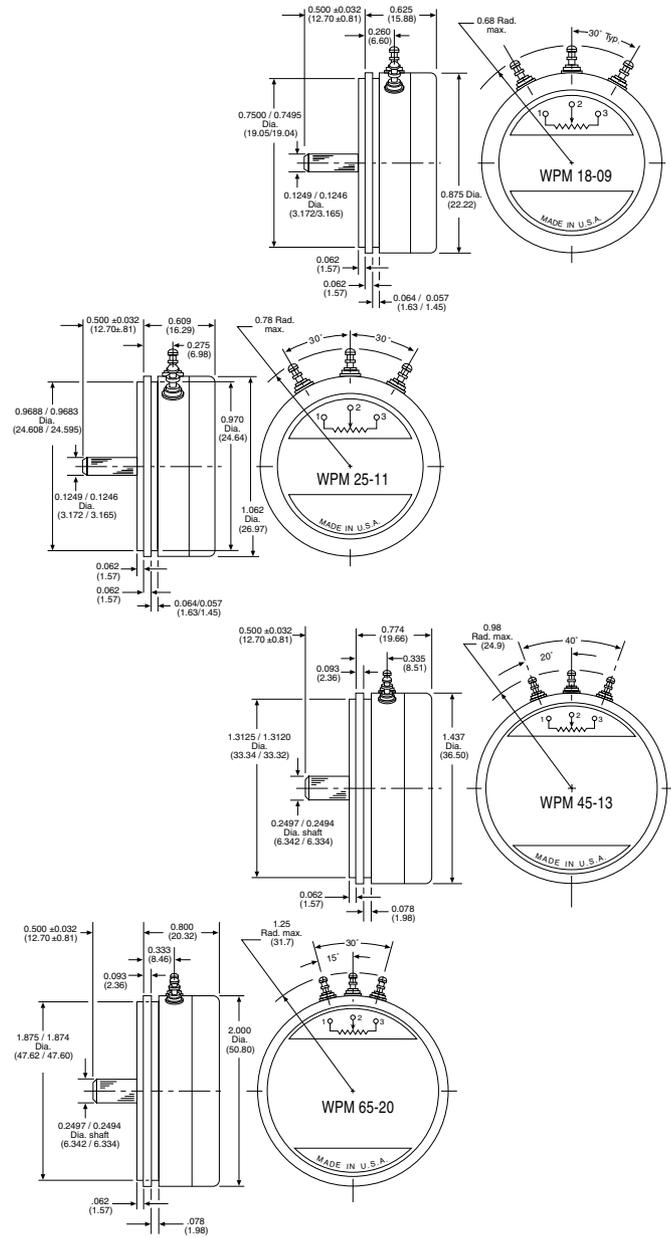
OPTIONS

A4

| ELECTRICAL TRAVEL | STARTING FORCE (MAX.) | LINEARITY | REFERENCE |
|-------------------|-----------------------|-----------|--------------|
| 350° | 0.8 oz in (torque) | ± 0.075 % | WPM5KA4S4513 |
| 353° | 1.0 oz in (torque) | ± 0.075 % | WPM5KA4S6520 |

B1

| ELECTRICAL TRAVEL | STARTING FORCE (MAX.) | LINEARITY | REFERENCE |
|-------------------|-----------------------|-----------|--------------|
| 340° | 0.4 oz in (torque) | ± 0.1 % | WPM5KB1S1809 |
| 345° | 0.4 oz in (torque) | ± 0.1 % | WPM5KB1S2511 |



Torque Watch Guages

The Torque Watch, an industry mainstay when an accurate indication of rotary force is necessary, is simple to use, requiring no special tools or setups. Available in three models they cover ranges from 0.003 to 200 inch-ounces. Attach the gauge to the device being measured, and simply rotate it, for a direct reading dial.

Protection against over-torque is provided by a stainless steel internal rotation stop. The low range 366 Series will prevent damage from over-torque up to three times the normal range, whilst the mid range 641 Series and the high range 940 Series will prevent damage up to twice the normal range.

Models are available in standard (ounce inch), metric (gram centimeter) and System International (Newton meter) measuring options.

366 Series Low range 0.003 - 0.60 oz in



The Series 366 Torque Watch accurately measures very low torque. Three miniature adapter chucks allow simple coupling to the device being measured.

OPTIONS

Standard

| OUNCE INCHES | REFERENCE |
|---------------|-----------|
| 0.06 to 0.6 | 366-0 |
| 0.01 to 0.1 | 366-2 |
| 0.003 to 0.03 | 366-3 |

Metric

| GRAM CENTIMETER | REFERENCE |
|-----------------|-----------|
| 6 to 42 | 366-0M |
| 1 to 7.5 | 366-2M |
| 0.2 to 2 | 366-3M |

651 Series Mid range 0.05 - 40.0 oz in



The Series 651 Torque Watch provides accurate measurement of low static torque. A 1/4 inch keyed chuck provides a simple means of coupling to the device under measurement.

OPTIONS

Standard

| OUNCE INCHES | REFERENCE |
|--------------|-----------|
| 0.05 to 1.2 | 651C-1 |
| 1 to 20 | 651C-2 |
| 2 to 40 | 651C-3 |
| 0.1 to 2.4 | 651X-2 |
| 0.25 to 5 | 651X-3 |
| 0.5 to 10 | 651X-4 |

Metric

| GRAM CENTIMETER | REFERENCE |
|-----------------|-----------|
| 2.5 to 80 | 651C-1M |
| 50 to 1.2 K | 651C-2M |
| 150 to 2.8 K | 651C-3M |
| 5 to 150 | 651X-2M |
| 10 to 300 | 651X-3M |
| 25 to 600 | 651X-4M |

System International

| NEWTON METER | REFERENCE |
|--------------|-----------|
| 0.5 to 9 | 651C-1SI |
| 10 to 140 | 651C-2SI |
| 15 to 285 | 651C-3SI |
| 1 to 18 | 651X-2SI |
| 2 to 36 | 651X-3SI |
| 5 to 70 | 651X-4SI |

940 Series High range 15.0 - 200.0 oz in



The Series 940 Torque Watch accurately measures torque in values that range from 15.0 to 200 oz/in. A 3/8 inch keyed chuck and 3/8 inch square socket driver adapter provide a simple means of coupling to the device under measurement.

OPTIONS

Standard

| OUNCE INCHES | REFERENCE |
|--------------|-----------|
| 30 to 200 | 940-1 |
| 15 to 100 | 940-2 |

Metric

| GRAM CENTIMETER | REFERENCE |
|-----------------|-----------|
| 2.5 K to 14.3 K | 940-1M |
| 1 K to 7.1 K | 940-2M |

System International

| NEWTON METER | REFERENCE |
|--------------|-----------|
| 0.25 to 1.4 | 940-1SI |
| 0.1 to 0.7 | 940-2SI |

Clarostat Rotary Position Transducers

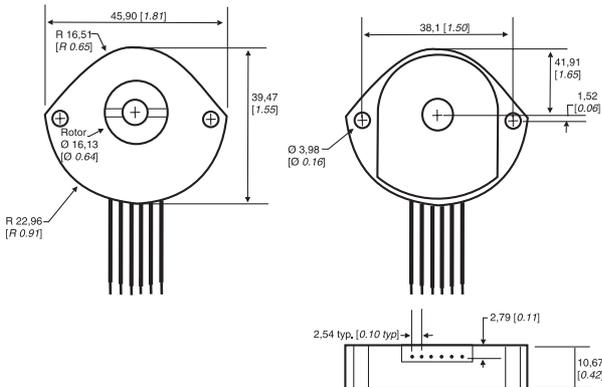
TH100 Series



The TH-100 Series puts Honeywell's proven variable-resistor technology to work in angle-management applications such as control-lever sensing and equipment position feedback. High performance and low cost make it attractive for a wide range of applications. Special electrical and mechanical configurations, including dual tracks, D-shape rotor holes, etc. are available on special order.

The device provides for angle measurements, has 152.4 mm (6.0 in) wire leads, a 6,35 mm (0.25 in) slotted thru hole and is sealed.

| | |
|---|---|
| Power rating: | 0.5 W max. |
| Element type: | Conductive plastic |
| Terminal type: | three 20 AWG |
| Shaft: | 6,35 mm (0.25 in) thru hole with .105 w x .090 d slot |
| Body: | 38,1 mm (1.5 in) x 45,72 mm (1.8 in) |
| Electrical taper: | Linear |
| Storage & operating temperature: | -40 °C to 120 °C (-40 °F to 248 °F) |
| Working voltage (max): | 350 Vdc |
| Linearity: | ± 5% standard; to ± 1% special |
| Total resistance: | 10 K |
| Total resistance tolerance: | ± 15% |
| Rotational cycles: | > 1 million |



OPTIONS

180° Rotation

| TAPER | CABLE CONNECTOR | REFERENCE |
|--------|-----------------|-----------------|
| Linear | No | 640CS103A06NAAY |

90° Rotation

| TAPER | CABLE CONNECTOR | REFERENCE |
|--------|-----------------|-----------------|
| Linear | No | 640ES103A06NAAY |

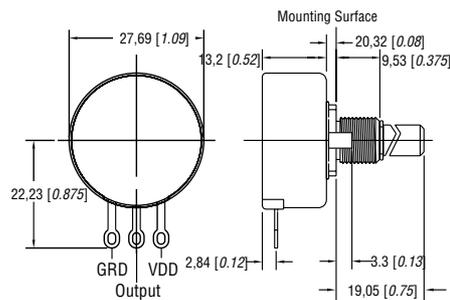
HRS100 Series, Hall-effect



The HRS100 provides angular position information for a variety of sensing and control applications in the automotive, marine, truck, off-road, industrial implementation, aerospace, and rail industries. The use of magnetically coupled information in place of a mechanical wiper assembly provides a long life, cost-effective solution for harsh environments that include temperature, vibration, dither, moisture and dirt.

This position sensor incorporates Hall-effect to provide a sensing device that will last for more than 50 million operations. The device is packaged in a metal housing with a 9,5 mm (0.375 in) diameter bushing and a 6,35 mm (0.25 in) diameter slotted shaft and solder lug terminals.

| | |
|------------------------------------|---|
| Terminal type: | Straight solder lug |
| Bushing: | 9,52 mm (.375 in) FMS, includes C-ring |
| Shaft: | Slotted 6,32 mm ± 0,03 (0.249 in ± 0.001) |
| Body: | 27,79 mm (1.094 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 85 °C (-40 °F to 185 °F) |
| Supply voltage (max): | 5 Vdc |
| Linearity: | ± 2% |
| Rotational cycles: | 10 million |
| Mechanical operating angle: | 90° |



OPTIONS

90° Rotation

| SHAFT | LUG | REFERENCE |
|---------|-----------------|--------------|
| Slotted | Straight Solder | HRS100SAB090 |

Clarostat Rotary Potentiometers and Position Transducers

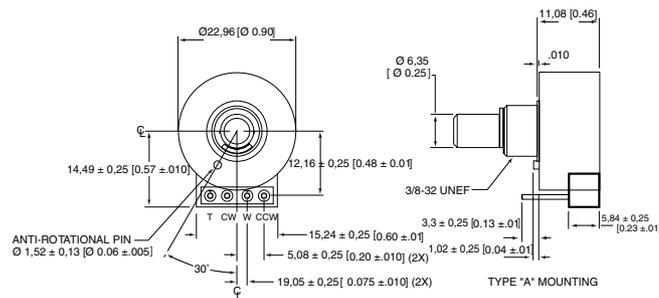
578 Series, Precision potentiometer



The 578 Series conductive plastic precision potentiometer puts Honeywell's proven variable resistor technology to work in a high performance, cost-effective device. With its compact size, rugged construction and advanced versatility, the 578 provides superior control for applications such as joy-stick controllers and position-sensing devices.

The model 578 features a 9,5 mm x 9,5 mm (0.375 in x 0.375 in) bushing, 6,35 mm x 19,05 mm (0.25 in x 0.75 in) slotted shaft, linear taper, and type A pc pins (please consult with the factory for custom OEM configurations).

| | |
|------------------------------------|--|
| Power rating: | 0.5 W @ 70 °C (158 °F) |
| Element type: | Conductive plastic |
| Terminal type: | PC pin type A |
| Bushing: | 9,52 mm (0.375 in) D x 9,52 mm (0.375 in) L |
| Shaft: | 6,35 mm x 19,05 mm (0.25 in x 0.75 in) Slotted |
| Body: | 22,86 mm (0.900 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 100 °C (-40 °F to 212 °F) |
| Working voltage: | 400 Vdc |
| Linearity: | 1% |
| Total resistance tolerance: | ± 10% |
| Revolutions: | 5 million |
| Mechanical rotation: | 320° ± 5° |



OPTIONS

1 kOhm Resistance

| SHAFT | RESISTANCE TAPER | REFERENCE |
|-------------------------|------------------|----------------|
| Slotted stainless steel | Linear | 578X1G48S102SA |

5 kOhm Resistance

| SHAFT | RESISTANCE TAPER | REFERENCE |
|-------------------------|------------------|----------------|
| Slotted stainless steel | Linear | 578X1G48S502SA |

10 kOhm Resistance

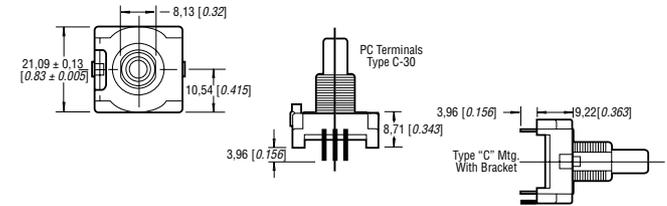
| SHAFT | RESISTANCE TAPER | REFERENCE |
|-------------------------|------------------|----------------|
| Slotted stainless steel | Linear | 578X1G48S103SA |

574 Series, Commercial potentiometer



The 574 Series conductive plastic potentiometer offers low mounting profile, smooth feel, and robust construction with a thermoplastic housing, bushing, and shaft. Terminals are PC style with a bracket for vertical mounting. No hardware is included.

| | |
|------------------------------------|---|
| Power rating: | 0.25 W @ 70 °C (158 °F) |
| Element type: | Conductive plastic |
| Terminal type: | PC terminals type C with C mounting bracket |
| Bushing: | M9 x 6,35 mm (0.25 in) L |
| Shaft: | 6,35 (0.25 in) Ø x 19,05 (0.75 in) L |
| Body: | 21,08 mm (0.830 in) square |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 120 °C (-40 °F to 248 °F) |
| Working voltage: | 350 Vac |
| Linearity: | ± 5% |
| Total resistance tolerance: | ± 20% |
| Rotational cycles: | 50,000 |
| Mechanical rotation: | 300° ± 5° |



OPTIONS

Flatted Shaft

| RESISTANCE | TAPER | REFERENCE |
|------------|--------|-----------------|
| 1 kOhm | Linear | 574SX1M48F102SD |
| 10 kOhm | Linear | 574SX1M48F103SD |
| 100 kOhm | Linear | 574SX1M48F104SD |
| 50 kOhm | Linear | 574SX1M48F503SD |

Slotted Shaft

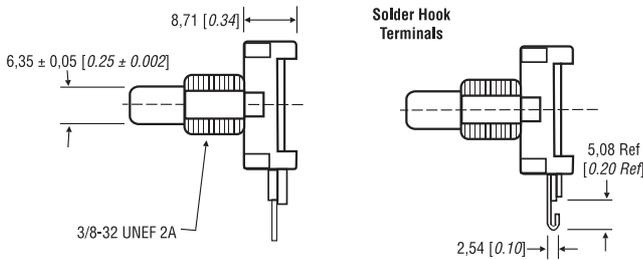
| RESISTANCE | TAPER | REFERENCE |
|------------|--------|-----------------|
| 1 kOhm | Linear | 574SX1M48S102SD |
| 10 kOhm | Linear | 574SX1M48S103SD |
| 100 kOhm | Linear | 574SX1M48S104SD |
| 50 kOhm | Linear | 574SX1M48S503SD |

575 Series, Commercial potentiometer



The 575 Series conductive plastic potentiometer offers a smooth feel and robust construction, with a thermoplastic housing, bushing, and shaft. Terminals are solder-hook style for panel mounting. No hardware is included.

| | |
|------------------------------------|--|
| Power rating: | 0.5 W @ 70 °C (158 °F) |
| Element type: | Conductive plastic |
| Terminal type: | Solder hook-200 grid |
| Bushing: | 9,52 mm (.375 in) D x 6,35 mm (0.25 in) L |
| Shaft: | 6,35 mm (0.25 in) Ø x 19,05 mm (0.75 in) L |
| Body: | 21,08 mm (0.830 in) square |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 120 °C (-40 °F to 248 °F) |
| Working voltage: | 350 Vac |
| Linearity: | ± 5% |
| Total resistance tolerance: | ± 20% |
| Rotational cycles: | 50,000 |
| Mechanical rotation: | 300° ± 5° |



OPTIONS

Flatted Shaft

| RESISTANCE | TAPER | REFERENCE |
|------------|--------|-----------------|
| 1 kOhm | Linear | 575SX1A48F102SS |
| 10 kOhm | Linear | 575SX1A48F103SS |
| 50 kOhm | Linear | 575SX1A48F503SS |

Slotted Shaft

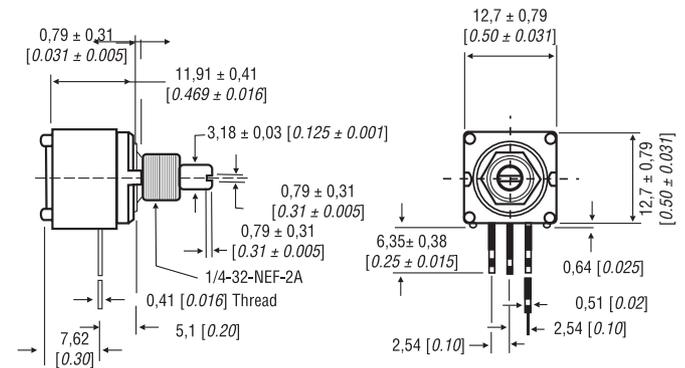
| RESISTANCE | TAPER | REFERENCE |
|------------|--------|-----------------|
| 1 kOhm | Linear | 575SX1A48S102SS |
| 10 kOhm | Linear | 574SX1A48S103SS |
| 50 kOhm | Linear | 574SX1A48S503SS |

590 Series, Commercial potentiometer



The 590 Series conductive plastic modular potentiometer features low electrical noise, smooth feel, robust construction, and brass bushing and shaft. Terminals are PC style. Hardware included. Multiple sections (up to three) are available on special order.

| | |
|------------------------------------|---|
| Power rating: | 0.5 W @ 70 °C (158 °F) |
| Element type: | Conductive plastic |
| Terminal type: | PC, 6,35 mm (0.25 in) long |
| Bushing: | 6,35 mm (0.25 in) Ø x 6,35 mm (0.25 in) L |
| Shaft: | Slotted, 3,17 mm (0.125 in) Ø x 22,23 mm (0.875 in) L |
| Body: | 12,7 mm (0.50 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 120 °C (-40 °F to 248 °F) |
| Linearity: | ± 5% |
| Total resistance tolerance: | ± 10% (up to 500 kOhms) ± 20 % (1 MOhm and over) |
| Rotational cycles: | 50,000 |
| Mechanical rotation: | 295° ± 5° |



OPTIONS

Slotted Shaft

| RESISTANCE | TAPER | REFERENCE |
|------------|--------|-----------------|
| 100 Ohm | Linear | 590SX1N56S101SP |
| 500 Ohm | Linear | 590SX1N56S501SP |
| 1 kOhm | Linear | 590SX1N56S102SP |
| 5 kOhm | Linear | 590SX1N56S502SP |
| 10 kOhm | Linear | 590SX1N56S103SP |
| 100 kOhm | Linear | 590SX1N56S104SP |
| 500 kOhm | Linear | 590SX1N56S504SP |
| 1 MOhm | Linear | 590SX1N56S105SP |

Clarostat Rotary Potentiometers and Position Transducers (continued)

380 Series, Industrial potentiometer

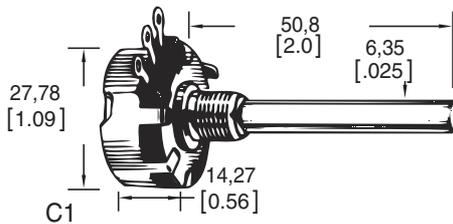


The 380 Series "Quiet One" is a 2-watt conductive plastic potentiometer offering superior dynamic noise and a long rotational life. It meets MIL-R-94 specifications where applicable.

| | |
|------------------------------------|---|
| Approvals: | MIL-R-94 |
| Power rating: | 2.0 W max. |
| Element type: | Conductive plastic |
| Terminal type: | Solder lug |
| Shaft: | Slotted |
| Body: | 27,79 mm (1.094 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -55 °C to 120 °C (-67 °F to 248 °F) |
| Working voltage: | 500 Vdc |
| Linearity: | ± 5% |
| Total resistance tolerance: | ± 10% (up to 500 kOhms) ± 20 % (1 MOhm and over) |
| Rotational cycles: | 100,000 |
| Mechanical rotation: | 312° ± 3° |

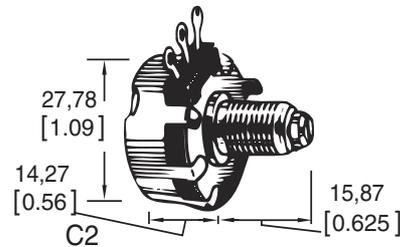
OPTIONS

**C1: 2.0 in (50,8 mm) Round Shaft;
0.375 in (9,5 mm) L bushing**



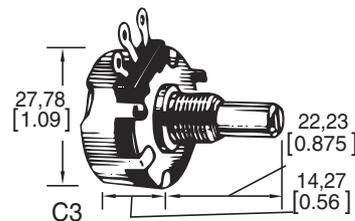
| RESISTANCE | REFERENCE |
|------------|-----------|
| 100 Ohm | 380C1100 |
| 250 Ohm | 380C1250 |
| 500 Ohm | 380C1500 |
| 1 kOhm | 380C11000 |
| 1.5 kOhm | 380C11500 |
| 2 kOhm | 380C12000 |
| 2.5 kOhm | 380C12500 |
| 5 kOhm | 380C15000 |
| 10 kOhm | 380C110K |
| 15 kOhm | 380C115K |
| 20 kOhm | 380C120K |
| 25 kOhm | 380C125K |
| 50 kOhm | 380C150K |
| 100 kOhm | 380C1100K |
| 200 kOhm | 380C1200K |
| 250 kOhm | 380C1250K |
| 500 kOhm | 380C1500K |
| 1 MOhm | 380C11MEG |

**C2: 0.625 in (15,88 mm) screwdriver slotted shaft;
0.5 in (12,7 mm) L locking bushing**



| RESISTANCE | REFERENCE |
|------------|-----------|
| 250 Ohm | 380C2250 |
| 1 kOhm | 380C21000 |
| 5 kOhm | 380C25000 |
| 10 kOhm | 380C210K |
| 25 kOhm | 380C225K |
| 50 kOhm | 380C250K |
| 100 kOhm | 380C2100K |
| 250 kOhm | 380C2250K |
| 1 MOhm | 380C21MEG |

**C3: 0.875 in (22,23 mm) shaft;
0.375 in (9,5 mm) L bushing**



| RESISTANCE | REFERENCE |
|------------|-----------|
| 100 Ohm | 380C3100 |
| 250 Ohm | 380C3250 |
| 500 Ohm | 380C3500 |
| 1 kOhm | 380C31000 |
| 2 kOhm | 380C32000 |
| 2.5 kOhm | 380C32500 |
| 5 kOhm | 380C35000 |
| 10 kOhm | 380C3310K |
| 25 kOhm | 380C325K |
| 50 kOhm | 380C350K |
| 100 kOhm | 380C3100K |
| 150 kOhm | 380C3150K |
| 200 kOhm | 380C3200K |
| 250 kOhm | 380C3250K |
| 500 kOhm | 380C3500K |
| 1 MOhm | 380C31MEG |
| 5 MOhm | 380C35MEG |

RV4 MIL Series potentiometer

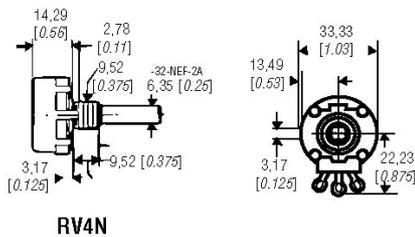


The RV4 is a dual-marked potentiometer with all the fine features of the 380 Series in a more economical package. It is built in strict accordance with MIL-R-94.

| | |
|-------------------------------|-------------------------------------|
| Approvals: | MIL-R-94 |
| Power rating: | 2.0 W max. |
| Element type: | Conductive plastic |
| Terminal type: | Solder lug |
| Shaft: | Slotted |
| Body: | 27,79 mm (1.094 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -55 °C to 120 °C (-67 °F to 248 °F) |
| Working voltage: | 500 Vdc |
| Linearity: | ± 5% |
| Rotational cycles: | 25,000 |
| Mechanical rotation: | 312° ± 3° |

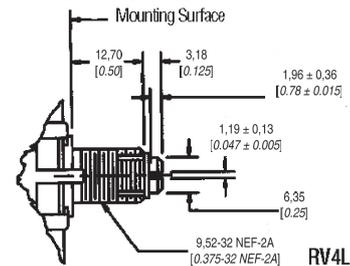
OPTIONS

Standard Bushing,
0.875 in (22,23 mm) shaft length



RV4N

Locking Bushing



RV4L

| RESISTANCE | TOLERANCE | REFERENCE |
|------------|-----------|-------------|
| 100 Ohm | ± 10% | RV4NAYS101A |
| 250 Ohm | ± 10% | RV4NAYS251A |
| 500 Ohm | ± 10% | RV4NAYS501A |
| 1 kOhm | ± 10% | RV4NAYS102A |
| 2.5 kOhm | ± 10% | RV4NAYS252A |
| 5 kOhm | ± 10% | RV4NAYS502A |
| 10 kOhm | ± 10% | RV4NAYS103A |
| 25 kOhm | ± 10% | RV4NAYS253A |
| 50 kOhm | ± 10% | RV4NAYS503A |
| 100 kOhm | ± 10% | RV4NAYS104A |
| 250 kOhm | ± 10% | RV4NAYS254A |
| 500 kOhm | ± 10% | RV4NAYS504A |
| 750 Kohm | ± 10% | RV4NAYS754A |
| 1 MOhm | ± 10% | RV4NAYS105A |
| 5 MOhm | ± 20% | RV4NAYS505B |

| RESISTANCE | TOLERANCE | REFERENCE |
|------------|-----------|-------------|
| 100 Ohm | ± 10% | RV4LAYS101A |
| 250 Ohm | ± 10% | RV4LAYS251A |
| 500 Ohm | ± 10% | RV4LAYS501A |
| 1 kOhm | ± 10% | RV4LAYS102A |
| 2.5 kOhm | ± 10% | RV4LAYS252A |
| 5 kOhm | ± 10% | RV4LAYS502A |
| 10 kOhm | ± 10% | RV4LAYS103A |
| 25 kOhm | ± 10% | RV4LAYS253A |
| 50 kOhm | ± 10% | RV4LAYS503A |
| 100 kOhm | ± 10% | RV4LAYS104A |
| 250 kOhm | ± 10% | RV4LAYS254A |
| 500 kOhm | ± 10% | RV4LAYS504A |
| 750 kOhm | ± 10% | RV4LAYS754A |
| 1 MOhm | ± 10% | RV4LAYS105A |
| 5 MOhm | ± 20% | RV4LAYS505B |

Clarostat Rotary Potentiometers and Position Transducers (continued)

RV6/392M MIL Series potentiometer



RV6/392M Series are economical potentiometers designed to meet wave soldering applications for mounting PC boards. They meet flow solderability and washability test requirements, and MIL-R-94 standard apply.

| | |
|------------------------------------|---|
| Approvals: | MIL-R-94 |
| Power rating: | 0.5 W max. |
| Element type: | Conductive plastic |
| Terminal type: | Solder hook |
| Shaft: | Slotted |
| Body: | 12,7 mm (0.5 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -40 °C to 120 °C (-40 °F to 248 °F) |
| Working voltage: | 350 Vdc |
| Linearity: | ± 5% |
| Total resistance tolerance: | ± 10% (up to 500 kOhms) ± 20 % (1 MOhm and over) |
| Rotational cycles: | 50,000 |
| Mechanical rotation: | 295° ± 5° |

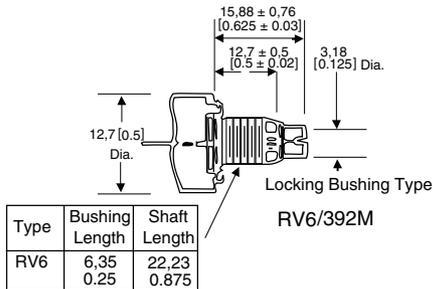
OPTIONS

**Standard Bushing, 6,35 mm (0.25 in) L;
0.875 in (22,23 mm) shaft length**

| RESISTANCE | REFERENCE |
|------------|-------------|
| 100 Ohm | RV6NAYS101A |
| 250 Ohm | RV6NAYS251A |
| 500 Ohm | RV6NAYS501A |
| 1 kOhm | RV6NAYS102A |
| 2.5 kOhm | RV6NAYS252A |
| 5 kOhm | RV6NAYS502A |
| 10 kOhm | RV6NAYS103A |
| 25 kOhm | RV6NAYS253A |
| 50 kOhm | RV6NAYS503A |
| 100 kOhm | RV6NAYS104A |
| 250 kOhm | RV6NAYS254A |
| 500 kOhm | RV6NAYS504A |
| 1 MOhm | RV6NAYS105A |

**Locking Bushing, 12,7 mm (0.50 in) L;
0.625 in (15,88 mm) shaft length**

| RESISTANCE | REFERENCE |
|------------|-------------|
| 100 Ohm | RV6LAYS101A |
| 250 Ohm | RV6LAYS251A |
| 500 Ohm | RV6LAYS501A |
| 1 kOhm | RV6LAYS102A |
| 2.5 kOhm | RV6LAYS252A |
| 5 kOhm | RV6LAYS502A |
| 10 kOhm | RV6LAYS103A |
| 25 kOhm | RV6LAYS253A |
| 50 kOhm | RV6LAYS503A |
| 100 kOhm | RV6LAYS104A |
| 250 kOhm | RV6LAYS254A |
| 500 kOhm | RV6LAYS504A |
| 1 MOhm | RV6LAYS105A |

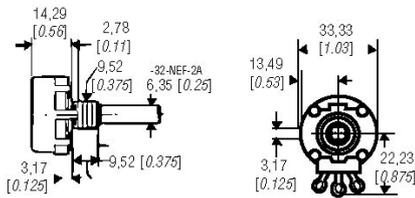


53 Series potentiometer



The 53 Series has all the fine features of the Series 380 in a more economical package. It is available with a 50,8 mm [2.0 in] long shaft.

| | |
|-------------------------------|-------------------------------------|
| Power rating: | 2.0 W max. |
| Element type: | Conductive plastic |
| Terminal type: | Solder lug |
| Shaft: | Slotted, 50,8 mm (2.0 in) L |
| Body: | 27,79 mm (1.094 in) Ø |
| Electrical taper: | Linear |
| Operating temperature: | -55 °C to 120 °C (-67 °F to 248 °F) |
| Working voltage: | 500 Vdc |
| Linearity: | ± 5% |
| Rotational cycles: | 25,000 |
| Mechanical rotation: | 312° ± 3° |



OPTIONS

Standard Bushing, 2.0 in (50,8 mm) shaft length

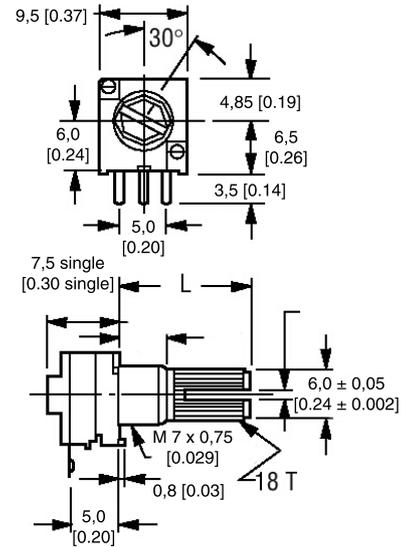
| RESISTANCE | TOLERANCE | REFERENCE |
|------------|-----------|------------|
| 100 Ohm | ± 10% | 53C1100 |
| 250 Ohm | ± 10% | 53C1250 |
| 500 Ohm | ± 10% | 53C1500 |
| 1 kOhm | ± 10% | 53C11K |
| 2.5 kOhm | ± 10% | 53C12500 |
| 5 kOhm | ± 10% | 53C15K |
| 10 kOhm | ± 10% | 53C110K |
| 25 kOhm | ± 10% | 53C125K |
| 50 kOhm | ± 10% | 53C150K |
| 100 kOhm | ± 10% | 53C1100K |
| 150 kOhm | ± 10% | 53C1150K |
| 250 kOhm | ± 10% | 53C1250K |
| 500 kOhm | ± 10% | 53C1500K |
| 750 kOhm | ± 10% | 53C1750K |
| 1 MOhm | ± 20% | 53C11MEG |
| 2.5 MOhm | ± 20% | 53C12.5MEG |
| 5 MOhm | ± 20% | 53C15MEG |

585 Series, Commercial potentiometer



Our Series 585 offers a robust construction in a low-cost commercial package, using carbon composition elements and a metal shaft and bushing.

| | |
|-------------------------------|--|
| Power rating: | 0.05 W max. @ 40 °C |
| Element type: | Carbon composition |
| Terminal type: | 3 in-line |
| Bushing: | M 7 x 0.75 thread, 7 mm L |
| Shaft: | 6,0 mm (0.24 in) Ø by 25,0 mm (0.98 in) L |
| Flatted shaft: | 12,0 mm (0.47 in) long by 4,5 mm (0.18 in) D standard; round end available |
| Body: | 9,5 mm (0.37 in) square |
| Operating temperature: | -55 °C to 120 °C (-67 °F to 248 °F) |
| Resistance tolerance: | ± 20% |
| Rotational cycles: | 10,000 |
| Mechanical rotation: | 300° |



OPTIONS

Linear taper

| RESISTANCE | SECTION | REFERENCE |
|------------|---------|-----------------|
| 1 kOhm | Single | 585SX4Q25F102SP |
| 5 kOhm | Single | 585SX4Q25F502SP |
| 10 kOhm | Single | 585SX4Q25F103SP |
| 1 kOhm | Double | 585DX4Q25F102SP |
| 5 kOhm | Double | 585DX4Q25F502SP |
| 10 kOhm | Double | 585DX4Q25F103SP |

Audio taper

| RESISTANCE | SECTION | REFERENCE |
|------------|---------|-----------------|
| 1 kOhm | Single | 585SX4Q25F102ZP |
| 5 kOhm | Single | 585SX4Q25F502ZP |
| 10 kOhm | Single | 585SX4Q25F103ZP |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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