# Potentiometers Line Guide

easurement. Cermet and wirewound elements are

**Potentiometers** convert rotary motion or linear displacement into a change of resistance, supplying a smooth transition of voltage or current levels. The resulting voltage output may be used to control position transducers in a wide variety of potential transportation, industrial and medical applications.

**Rotary Potentiometers** are compact, rugged, thick-film devices that use either conductive plastic, or cermet or wirewound elements. Developed for potential military applications, our proprietary conductive plastic offers extensive temperature range and infinite resolution, and is designed to provide precision

position measurement. Cermet and wirewound elements are stable over a range of operating temperatures and provide high power dissipation and improved resistance temperature coefficient.

**Linear Potentiometers** feature rugged extruded aluminum housings to withstand harsh chemicals and immersion in oils or water. Construction features include extended life PTFE bearings, precious-metal multi-finger contact wipers, and MystR® conductive plastic thick-film elements.

#### **FEATURES**

#### **ROTARY POTENTIOMETERS**

# CONDUCTIVE PLASTIC POTENTIOMETERS 308, 408 Series.

Features: Compact • Modular package

- Conductive plastic element
- 0.5 W power rating Nickel-plated brass shaft and bushings Enhanced performance 408: sealed for board washing PC and solder-hook terminals
- CW audio and linear tapers available

**Benefits:** Reduced cost potentiometer that offers 0.5 W power rating in a compact body. Potential applications include manual controls, audio and lighting consoles, medical equipment, precision joysticks, and telecommunications.

#### 380, 385, 53C, 485, RV4 Series.

**Features:** Cost-effective • Wide range of resistance values (100 Ohm to 5 MOhm, inclusive) • Wide variety of tapers

**Benefits:** Supplies good performance at a reasonable price • Wide range of resistance values promotes flexibility in the applications • Wide variety of tapers creates flexibility in the output signal

profile, allowing use in a wide variety of applications. Potential applications include use on audio and visual equipment, foot pedal controls, machine controls, welding equipment, gear shifters, joysticks, and throttles.

#### 381 Series.

**Features:** Conductive plastic element

- 1 W power rating Solder lug terminals
- Metal case and nickel-plated brass shaft and bushings • Locking-style bushing, rotary switch, or dual section options available • Linear taper

**Benefits:** Robust construction in a low-cost industrial package. Potential applications include manual and audio controls, and telecommunications.

#### 392, RV6 Series.

**Features:** Wave solderable • PCB washable • Cost-effective • Wide range of resistance values (100 Ohm to 5 MOhm, inclusive) • Small package size

**Benefits:** Devices may be automatically soldered on a PCB using the wave soldering process instead of being manually soldered, saving time and

yielding consistent results. The PCB containing the soldered devices may be washed after soldering, saving time and yielding consistent results. Good performance at a reasonable price. Wide range of resistance values promotes flexibility in the applications. May be used where space constraints may be present. Potential applications include audio and visual equipment, light switches, hand-held multimeters and mobile monitoring devices, test and measurement equipment, communications equipment, thermostats, hand-held medical equipment and mobile monitoring devices, medical laboratory and diagnostic equipment, and vehicle manual controls.

#### 574 Series.

Features: Conductive plastic element

• 0.5 W power rating • Reduced mounting profile • Quiet electrical output • Vertical mounting with support bracket • PC style mounting • Smooth feel • Robust construction • All plastic construction

• Metric bushing • Linear taper

Conductive

#### Quality. Reliability. Enhanced life. Global reach.

Honeywell S&C rotary position sensors deliver the features you need and quality you demand. Even better, we offer worldwide support and manufacturing.

Potentiometers: The Honeywell S&C lineup is legendary in military and aerospace industries for reliability, durability, and enhanced life. Our potentiometer designs allow customization to your specs and cost requirements without sacrificing reliability and accuracy. Measuring rotary position or linear displacement, these units easily withstand exposure to harsh chemicals and high temperatures.







Plastic Pots		
	308, 408 Series	380, RV4, 485, 53C, 385 Series
Description	<ul><li>308: compact modular housing</li><li>408: sealed for board washing</li></ul>	<ul> <li>380: 2 W conductive plastic pot</li> <li>RV4: Military version of 380</li> <li>485: Custom version of 380</li> <li>53C: Cost-effective version of 380</li> <li>385: Custom version of 53C</li> </ul>
Expected rotational life	50 k cycles	100 k cycles, 25 k cycles
Element type	conductive plastic	conductive plastic
Power rating	0.5 W	2 W
Termination	PC, solder hook	solder lug with/without center tap, PC pin, fast-on, custom
Resistance range	308: 100 Ohm to 1 mOhm 408: 500 Ohm to 10 kOhm	100 Ohm to 5 MOhm, inclusive
Housing material	thermoplastic polyester	stainless steel
Bushing	1/4-32 NEF-2A or 3/8-32 NEF-2A; nickel-plated brass; standard, locking	3/8-32 NEF-2A; nickel-plated brass; standard, high torque, custom
Shaft	Ø3,18 mm [0.125 in], Ø6,35 mm [0.250 in]; nickel-plated brass	Ø6,35 mm [0.250 in]; nickel-plated brass
Electrical taper	CW audio, linear	linear, log, reverse log, custom





Conductive Plastic Pots		
	574 Series	575 Series
Description	low mounting profile	thermoplastic panel mount
Expected rotational life	50 k cycles	50 k cycles
Element type	conductive plastic	conductive plastic
Power rating	0.5 W	0.5 W
Termination	PC with bracket	PC, solder hook
Resistance range	1 kOhm to 100 kOhm	1 kOhm to 50 kOhm
Housing material	glass-reinforced plastic	glass-reinforced plastic
Bushing	Ø9,53 mm [0.375 in]; glass-reinforced plastic	Ø9,53 mm [0.375 in]; glass-reinforced plastic
Shaft	Ø6,35 mm [0.250 in]; glass-reinforced plastic	Ø6,35 mm [0.250 in]; glass-reinforced plastic
Electrical taper	linear	linear





### Conductive Plastic Pots

Plastic Pots			
	381 Series	392, RV6 Series	
Description	0.5 in diameter, 1 W conductive plastic	<ul> <li>392: 0.5 W conductive plastic pot</li> <li>RV6: Military version of 392</li> </ul>	
Expected rotational life	25 k cycles	tested to 50 k cycles	
Element type	conductive plastic	conductive plastic	
Power rating	1 W	0.5 W	
Termination	solder lug	solder hook, PC pin, custom	
Resistance range	100 Ohm to 5 mOhm	100 Ohm to 5 MOhm, inclusive	
Housing material	stainless steel	thermoplastic	
Bushing	Ø6,35 mm [0.250 in], Ø9,53 mm [0.375 in]; nickel-plated brass; standard, locking	1/4-32 NEF-2A, nickel-plated brass; metal panel seal: standard, split locking; metal no panel seal: standard, split locking; unthreaded; plastic standard, trimmer; custom	
Shaft	Ø3,18 mm [0.125 in]; nickel-plated brass	Ø3,18 mm [0.125 in]; nickel-plated brass or thermoplastic	
Electrical taper	CW audio, linear	linear, log, reverse log	







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Plastic Pots			•
r lastic i sta	578 Series	585 Series	590 Series
Description	long life, precision	metric sizes available	multiple sections available
Expected rotational life	2.5 M cycles	10 k cycles	50 k cycles
Element type	conductive plastic	carbon	conductive plastic
Power rating	0.5 W	0.05 W	0.5 W
Termination	PC	PC	PC, solder hook
Resistance range	1 kOhm to 10 kOhm	1 kOhm to 10 kOhm	100 Ohm to 1 mOhm
Housing material	glass-reinforced plastic	thermoplastic polyester	thermoplastic polyester
Bushing	Ø9,53 mm [0.375 in]; nickel-plated brass	M7 x 0.75 mm; nickel-plated brass	3/8-32 NEF-2A; nickel-plated brass
Shaft	Ø6,35 mm [0.25 in]; nickel-plated brass	Ø6 mm [0.24 in]; nickel-plated brass	Ø3,18 mm [0.125 in]; nickel plated brass
Electrical taper	linear	CW audio, linear	linear

# Conductive Plastic Pots

Plastic Pots	
	640 Series
Description	thru-shaft potentiometer, low profile housing
Expected rotational life	>1 million cycles full cycles
Element type	conductive plastic
Power rating	0.5 W max.
Termination	three or six 20 AWG leadwires
Resistance range	1 kOhm to 1 MOhm, inclusive
Housing material	reinforced thermoplastic
Bushing	none (slotted rotor)
Shaft	none (customer provided)
Electrical taper	linear, linear quadrature







Wirewound Pots	•		
	309, 409 Series	43, RA20 Series	
Description	<ul><li>309: compact modular house</li><li>409: sealed for board washing</li></ul>	RA20 meets MIL-R-19	
Expected rotational life	25 k cycles	10 k cycles	
Element type	cermet	wirewound	
Power rating	1 W	2 W	
Termination	PC, solder hook	solder lug	
Resistance range	100 Ohm to 5 MOhm	43: 10 Ohm to 50 kOhm RA20: 50 Ohm to 15 kOhm	
Housing material	thermoplastic polyester	stainless steel	
Bushing	1/4-32 NEF-2A, 3/8-32 NEF-2A; nickel-plated brass; standard	3/8-32 NEF-2A; stainless steel, standard, locking	
Shaft	Ø3,18 mm [0.125 in], Ø6,35 mm [0.250 in]; nickel-plated brass	various diameters; nickel plated brass	
Electrical taper	linear	linear	



Cermet and





Wirewound Pots	3		8
	58, RA30 Series	591 Series	73 Series
Description	RA30 meets MIL-R-19	multiple sections available	10-turn construction
Expected rotational life	25 k cycles	25 k cycles	50 k cycles
Element type	wirewound	cermet	wirewound
Power rating	4 W	1 W	2 W
Termination	solder lug	PC, solder hook	solder lug
Resistance range	58: 50 Ohm to 50 kOhm RA30: 25 Ohm to 25 kOhm	500 Ohm to 100 kOhm	100 Ohm to 100 kOhm
Housing material	stainless steel	thermoplastic polyester	glass-filled nylon
Bushing	3/8-32 NEF-2A; stainless steel; standard, locking	3/8-32 NEF-2A; nickel-plated brass; standard	3/8-32 UNEF-2A; nickel-plated brass; standard
Shaft	various diameters; nickel-plated brass	Ø3,18 mm [0.125 in]; nickel-plated brass	Ø6,35 mm [0.25 in]; stainless steel or glass filled nylon
Electrical taper	linear	linear	linear

Linear Potentiometers		
	AQLT Series	AQMLT Serie

Potentiometers	•	•
	AQLT Series	AQMLT Series
Description	shaftless, waterproof linear position transducer	shaftless, waterproof linear position transducer
Operating temperature range	-40 °C to 80 °C [-40 °F to 176 °F]	-40 °C to 80 °C [-40 °F to 176 °F]
Supply voltage	30 Vdc max.	30 Vdc max.
Linearity	±1 %	±1 %
Starting force	56,7 g [2 oz] max.	28,35 g [1 oz] max.
Backlash	NA	n/a
Total resistance	6 kOhm to 38 kOhm	750 Ohm to 18 kOhm
Measurement range	127 mm to 965 mm [5 in to 38 in]	12,7 mm to 304,8 mm [0.5 in to 12 in]
Shaft	NA	n/a
Total mechanical travel	154,94 mm to 967,74 mm [6.1 in to 38.1 in]	15,24 mm to 307,34 mm [0.6 in to 12.1 in]
Electrical travel	152,4 mm to 965,2 mm [6 in to 38 in]	12,7 mm to 304,8 mm [0.5 in to 12 in]
Housing length	electrical travel + 54,87 mm [2.16 in]	electrical travel + 38,1 mm [1.5 in]
Vibration	20 g/0,75 mm (rms) 5 Hz to 2 kHz	20 g/0,75 mm (rms) 5 Hz to 2 kHz
Shock	50 g 11 ms half sine	50 g 11 ms half sine
Expected operating life	one billion dither operations	one billion dither operations
Resistance tolerance	±20 %	±20 %
Insulation resistance	500 m0hm at 500 Vdc	500 mOhm at 500 Vdc
Dielectric strength	250 V rms	250 V rms
Termination	cable	cable





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Potentiometers	MLT Series	DR Series
Description	plunger-driven linear transducer	Durastar rodless, space-saving side actuator
Operating temperature range	-40 °C to 80 °C [-40 °F to 176 °F]	-65 °C to 105 °C [-85 °F to 221 °F]
Supply voltage	30 Vdc max.	75 Vdc max.
Linearity	±1 %	0.1 % from 1% to 100% of theoretical electrical travel
Starting force	28,35 g [1 oz] max.	0,45 kg [1.0 lb]
Backlash	0,0127 mm [0.0005 in] max.	0,025 mm [0.001 in] max.
Total resistance	750 Ohm to 9 kOhm	2 kOhm to 10 kOhm
Measurement range	13 mm to 152 mm [0.5 in to 6 in]	102 mm to 1270 mm [4 in to 50 in]
Shaft	Ø3,18 mm [0.125]	M5 x 0.8
Total mechanical travel	13,97 mm to 153,67 mm [0.55 in to 6.05 in]	106 mm to 1275 mm [4.2 in to 50.2 in]
Electrical travel	12,7 mm to 152,4 mm [0.5 in to 6 in]	101,6 mm to 1270 mm [4 in to 50 in]
Housing length	electrical travel + 30,48 mm [1.2 in]	250 mm to 1418 mm [9.84 in to 55.83 in]
Vibration	20 g/0,75 mm (rms) 5 Hz to 2 kHz	20 g/0,75 mm (rms) 5 Hz to 2 kHz
Shock	50 g 11 ms half sine	50 g 11 ms half sine
Expected operating life	one billion dither operations	one billion dither operations
Resistance tolerance	±20 %	±20 %
Insulation resistance	500 m0hm at 500 Vdc	1000 m0hm at 500 Vdc
Dielectric strength	1000 V rms	1000 V rms
Termination	cable	Hirschmann GDM

Linear Potentiometers	and is	Homewall	
	LFII Series	SLF Series	LT Series
Description	vibration-resistant, plunger-driven linear transducer	short stroke version of the LFII	plunger-driven linear transducer
Operating temperature range	-65 °C to 105 °C [-85 °F to 221 °F]	-65 °C to 105 °C [-85 °F to 221 °F]	-40 °C to 80 °C [-40 °F to 176 °F]
Supply voltage	30 Vdc max.	40 Vdc max.	30 Vdc max.
Linearity	±1 %	±1 % or ±0.1 %	±1 %
Starting force	0,45 kg [1 lb] (standard); LFIIW: 2,27 kg [5 lb] (water resistant)	1 lb (standard) 5 lb (water resistant)	28,35 g max. [1 oz max.] 12 oz max. (water resistant)
Backlash	0,025 mm [0.001 in] max.	0,025 mm [0.001 in] max.	0,00508 mm [0.0002 in] max.
Total resistance	5 kOhm	1,5 kOhm to 9 kOhm	1 kOhm to 10 kOhm
Measurement range	152 mm to 1219 mm [6 in to 48 in]	25 mm to 152 mm [1 in to 6 in]	25 mm to 254 mm [1 in to 10 in]
Shaft	Ø6,35 mm [0.25 in]	Ø6,35 mm [0.25 in]	Ø3,18 mm [0.125]
Total mechanical travel	154,6 mm to 1221,4 mm [6.09 in to 48.09 in]	30,5 mm to 166,2 mm [1.2 in to 6.15 in]	26,7 mm to 255.3 mm [1.05 in to 10.05 in]
Electrical travel	152,4 mm to 1219,2 mm [6 in to 48 in]	25,4 mm to 152,4 mm [1 in to 6 in]	25,4 mm to 254 mm [1 in to 10 in]
Housing length	electrical travel + 81,02 mm [3.19 in]	electrical travel + 77,5 mm [3.05 in]	electrical travel + 38,10 mm [1.50 in]
Vibration	20 g/0,75 mm (rms) 5 Hz to 2 kHz (for vibration levels up to 50 g rms and higher, additional housing clamps are required)	20 g/0,75 mm (rms) 5 Hz to 2 kHz	20 g/0,75 mm (rms) 5 Hz to 2 kHz
Shock	50 g 11 ms half sine	50 g 11 ms half sine	50 g 11 ms half sine
Expected operating life	one billion dither operations	one billion dither operations	one billion dither operations
Resistance tolerance	±20 %	±20 %	±20 %
Insulation resistance	1000 m0hm at 500 Vdc	n/a	500 m0hm at 500 Vdc
Dielectric strength	1000 V rms	n/a	1000 V rms
Termination	connector, binder series 681	connector, binder series 681	cable

**Benefits:** Reduced cost commercial potentiometer with the benefits of a conductive plastic element. Potential applications include welding/heating controls, joysticks, and manual controls.

#### 575 Series.

**Features:** Conductive plastic element • 0.5 W power rating • Reduced mounting profile • Quiet electrical output • Solder hook terminals for panel mounting

• Smooth feel • Robust construction • All plastic construction • Linear taper

**Benefits:** Reduced cost commercial potentiometer with the benefits of a conductive plastic element. Potential applications include welding/heating controls, joysticks, and manual controls.

#### 578 Series.

Features: Conductive plastic element

• 0.5 W power rating • Variable resistor technology • Low mounting profile

• Quiet electrical output • Precision

control • PC terminals • Nickel-plated shaft and bushing • Smooth feel • Robust construction • Linear taper • Central tap version available

**Benefits:** Precision-type potentiometer with low torque and very linear tapers delivers enhanced control. Potential applications include off-road vehicles, electric vehicles, marine controls, material handling, personal mobility, manual controls, telecommunications, and audio equipment.

#### 585 Series.

Features: Compact size • Carbon element

- 0.05 W power rating Horizontal mount
- PC terminals Metal shaft and bushings
- Linear taper

**Benefits:** Designed to be used as a low-wattage component that can be panel mounted or PC mounted. Robust construction in a low-cost commercial package, using carbon composition elements. Potential applications include manual and audio controls, heating equipment, and telecommunications.

#### 590 Series.

**Features:** Compact size • Conductive plastic element • 0.5 W power rating

- Linear taper
   PC terminals
- Brass shaft and bushing Linear taper

**Benefits:** Reduced cost potentiometer with the benefits of a conductive plastic element. Potential applications include manual controls, lighting and audio consoles, precision joysticks, welding and heating, and telecommunications.

#### 640 Series.

Features: Thru-shaft configuration actuated by customer-provided actuator shaft • Reinforced, low-profile housing • Dust sealed with splash- or moisture-

sealed options • Long rotational life of greater than one million cycles

Benefits: Thru-shaft configuration allows use in space-constrained applications where there may not be enough room for a shaft/bushing integral to the sensor. May be used in rugged environments where space constraints may be present. Designed to provide protection against dust or moisture ingress. Long rotational life promotes extended life in the application. Potential applications include position and movement detection in construction/agricultural vehicles/ equipment, vehicle manual controls, pedals, steering equipment, audio/visual equipment, industrial vehicle attachments machine control joysticks, robotic arms. valve actuators and material handling equipment.

# CERMET AND WIREWOUND POTENTIOMETERS 309/409 Series.

Features: Compact • Modular package

- Cermet element 1 W power rating
- Enhanced performance 409 is sealed for board washing PC and solder-hook terminals

Benefits: Reduced cost potentiometer that offers the temperature stability of a cermet element and a 1 watt power rating in a compact body. Stable over operating temperature. Potential applications include audio consoles, lighting controls, precision joysticks, telecom control systems, manual controls, medical equipment, telecommunications, and marine controls.

#### 43/RA20 Series.

Features: Wirewound element
• 2 W power rating • RA20 meets
MIL-R-19 standards • Rugged metal
construction • Nickel-plated brass shaft
• Lock-style bushing available • Linear
taper

**Benefits:** Very stable over operating temperature. Potential applications include manual controls, welding, and heating.

#### 58/RA30 Series.

Features: Wirewound element

• 4 W power rating • RA30 meets

MIL-R-19 standards • Rugged metal

construction • Nickel-plated brass shaft

- Lock-style bushing available
- Linear taper

**Benefits:** Designed to be stable over operating temperature. Potential applications include manual controls, welding, and heating.

#### 591 Series.

Features: Compact size • Cermet element

- 1 W power rating Temperature stability
- Linear taper PC terminals Brass shaft and bushing Linear taper

**Benefits:** Reduced cost potentiometer with the benefits of a cermet element. Designed to be stable over operating temperature. Potential applications include manual controls, welding and heating, telecommunications.

#### 73 Series.

Features: Wirewound element

- 2 W power rating 10-turn construction
- Nickel-plated brass shaft and bushings
- Linear taper

**Benefits:** Precision-type potentiometer made with a wirewound element. Offers 10 turns for enhanced resolution and accurate output. Potential applications include manual controls.

### LINEAR POTENTIOMETERS AQLT Series.

Features: 1/2 in body diameter

- Multiple finger-wiper design Extruded wiper block guides MystR® plastic element Anodized extruded aluminum housing Sealed construction Precious metal contact Absolute continuous measurement Infinite resolution
- Tolerates clamping loads Tested up to one billion operations • 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

**Benefits:** Fits in tight spaces and clamps easily to cylinders. Improves shock and vibration performance. Smooth quiet motion; extends operating life. Enhanced performance in hostile environments. Low noise level often. Accurate position at power up. Magnetic actuator replaces the shaft found in traditional linear transducers and often eliminates need for additional stroke length mounting space. Enhanced life and often reliable operation in potential applications including in-tank level sensing, robotic motion control, woodworking guides, seismology, packaging and processing equipment, animated characters, marine steering systems, off-road vehicles, semiconductor process equipment, and medical equipment.

#### **AQMLT Series.**

Features: 3/8 in body diameter

- Multiple finger-wiper design Extruded wiper block guides MystR® plastic element Anodized extruded aluminum housing Sealed construction Precious metal contact Absolute continuous measurement Infinite resolution
- Tolerates clamping loads Tested up to one billion operations • 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

**Benefits:** Fits in tight spaces and clamps easily to cylinders. Improves shock and vibration performance. Smooth quiet motion; extends operating life. Enhanced performance in hostile environments. Low noise level over entire life. Accurate position at power up. Magnetic actuator

replaces the shaft found in traditional linear transducers and often eliminates need for additional stroke length mounting space. Enhanced life and often reliable operation in potential applications including in-tank level sensing, robotic motion control, woodworking guides, seismology, packaging and processing equipment, animated characters, marine steering systems, off-road vehicles, semiconductor process equipment, and medical equipment.

#### LFII Series.

Features: Vibration-damped element
• Extruded wiper carrier guides • Precious metal wipers • MystR<sup>®</sup> plastic elements

• Stainless-steel shaft • Enhanced dc level output • Enhanced performance bearings

• Infinite resolution • Absolute continuous measurement • Shaft seals • Water-resistant option available • Metric Series available • Tested up to one billion operations • 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

Benefits: No wiper bounce in high vibration environments. Smooth, easy operation under high side loads and large misalignment. Provides enhanced performance, low noise, no oxidation. Works with simple controllers. Enhanced life even under side load conditions. Often accurate position at power-up. Protects internal components from harsh environments. Potential applications include injection molding machines, printing presses, meat packing equipment, drill presses, woodworking machines, cranes, front-end loaders, and scales.

#### SLF Series.

**Features:** Precious metal wipers • 0.081 in thick housing with 6 mm [0.25 in] shaft

- MystR® plastic elements High level dc output Enhanced performance bearings
- Absolute continuous measurement
- Shaft seals Infinite resolution Waterresistant option available • Tested up to one billion operations • 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

Benefits: Provides enhanced performance, low noise. Rugged construction for manufacturing environment. Enhanced life even with side load conditions. Protects internal components from factory environment. Often accurate position at power-up. Works with simple controls. Provides a high resolution, often absolute position measurement without external signal conditioners. Potential applications include injection molding machines, printing presses, meat packing equipment, drill presses, woodworking machines, cranes, and front-end loaders.

#### LT Series.

Features: 1/2 in diameter • Dual-wiper design • Extruded wiper-block guides

- MystR® plastic element Stainless-steel shaft • Anodized extruded aluminum housing • Precious metal contact
- Absolute continuous measurement
- Shaft seals for spray-or-hose-down environments Infinite resolution
- Enhanced reliability Tested up to one billion operations 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

**Benefits:** Fits into tight spaces, clamps easily to cylinders. Improves shock and vibration performance. Smooth, quiet motion; enhances operating life. Tolerates clamping loads. Rugged construction to withstand hostile environments. Often accurate position at power up. Provides usable output at high vibration levels for long periods. Diameter is among the smallest available and can replace displacement transducers in many applications. Potential applications include animated characters, gauging, fluid flow meters, seismology, semiconductor processing, linear actuators, hospital beds, and other medical equipment.

#### **MLT Series.**

Features: 3/8 in diameter • Dual-wiper design Extruded wiper-block guides

- MystR® plastic element Stainless-steel shaft Internal spring-loaded ball joint
- Anodized extruded aluminum housing
- Precious metal contact Absolute continuous measurement Infinite resolution Enhanced reliability Tested up to one billion operations 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

Benefits: Fits into tight spaces, clamps easily to cylinders. Improves shock and vibration performance. Smooth, quiet motion; extends operating life. Tolerates clamping loads. Rugged construction to withstand hostile environments. Often accurate position at power up. Provides usable output at high vibration levels for long periods. Reduces error from shaft misalignment. Diameter is among the smallest available and can replace displacement transducers in many applications. Potential applications include animated characters, gauging, fluid flow meters, seismology, semiconductor processing, linear actuators, hospital beds, and other medical equipment.

#### **DR Series.**

Features: Vibration-damped element

- Extended side bearing Extruded wipercarrier guides • Rugged ribbed housing
- Precious metal wipers
   MystR<sup>®</sup> plastic elements
   High dc level output
- Enhanced performance bearings
- Absolute continuous measurement
- Infinite resolution NEMA 4 sealing
- Tested up to one billion operations
- 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

Benefits: No wiper bounce in high vibration environments. Improved life under high misalignment. Smooth, whisper-quiet operation under large misalignment. Rugged construction to withstand hostile environments. Provides enhanced performance, low noise, no oxidation. Works with simple controllers. Enhanced life even under side load conditions. Often accurate position at power-up. This long -lasting, rodless, sidesealed transducer may be used to replace rodded potentiometers in contaminated applications. Potential applications include injection molding machines, printing presses, meat packing equipment, drill presses, woodworking machines, cranes, front-end loaders, and scales.

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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For more information about Sensing and Control products, visit sensing.honeywell. com or call +1-815-235-6847 or 1-800-537-6945; email inquiries to info.sc@ honeywell.com

# **A** WARNING PERSONAL INJURY

 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

## MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422 USA



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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.



Тел: +7 (812) 336 43 04 (многоканальный) Email: org@lifeelectronics.ru