

Rotary Precision Position Sensor Single Turn, Compact, Sealed, Extended Life

5320 Series Panel Pot

The BEI Sensors 5320 Series offers a highly reliable rotary potentiometer sensor that can be easily integrated or re-packaged into a wide variety of existing and new applications. The new 5320 Series is ideally suited for tight packaging constraints while providing superior durability, long service life and repeatable accuracy. The sensor is fully sealed and impervious to contamination and moisture. A wide variety of standard and non-standard options are available including detent functions, electrical/mechanical angles, shaft/bushing sizes, lengths and configurations, resistance values, etc.

The 5320 Series standard termination offers gold plated through holes for direct soldering. Options are also available for custom termination methods by contacting BEI Sensors Sales. The 5320 series sensors offer all of the advantages of a cost effective, traditional potentiometer while providing a rugged, compact, low-profile design to survive the harshest conditions.



5320 Series Features:

Extended Operating Life

1 million plus operational cycles

Fully Sealed Construction

Meets or exceeds IP66/IP67 standards

Extended Temperature Range

Operating: -40° to +125°C

Storage: -55° to +150°C

High Quality, Rugged Construction

Stainless Steel Shaft, Nickel Plated Brass Bushing

See Reverse for Additional Environmental Specifications

Wide Range of Configurations (see ordering info)

Shaft and Bushing Lengths

Linearity (accuracy) Tolerance Limits

With or Without Detent Function

Total Resistance

Custom Options Available (contact Duncan Sales)

Ordering Information:

Basic Configurations: Shaft & Bushing Lengths

5321	5322	5323

532X RXK LX.X X

Detent:
 Blank = None, D = Included
 Independent Linearity:
 Standard = +/-2.0%
 Total Resistance:
 Standard = 1K, 5K or 10K
 Basic Configuration Model (identified above)
 STANDARD PART: 5321 R5K L2.0

No Detent Function
 Standard +/-2.0% Linearity
 5K Total Resistance

BEI SENSORS

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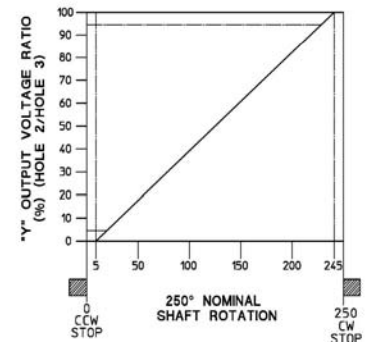
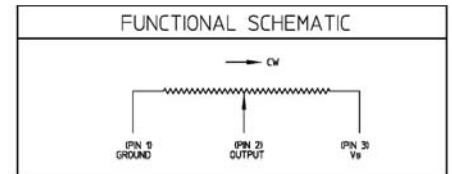
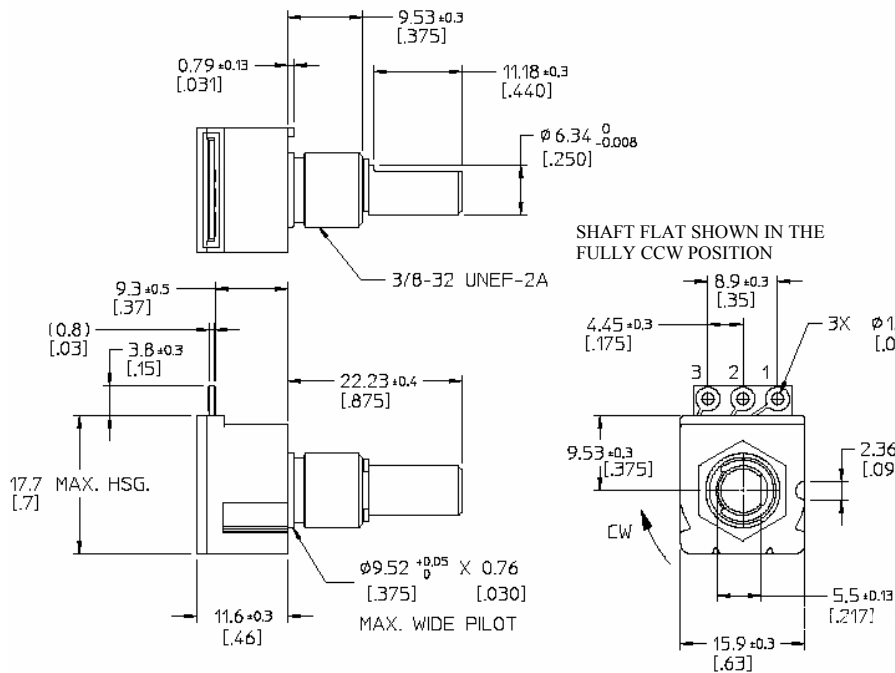
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ISO 9001 : 2000 Registered

Rotary Precision Position Sensor 5320 Series Panel Pot

Standard Sensor as Example

Dimensions are shown in millimeters [inches reference]



Mechanical Specifications

Total Travel (stop to stop):	250 degrees
Stop Strength:	1350 Nmm (190 in-oz)
Shaft Pull Out Strength:	200N (45lbs)
Shaft Operating Torque:	5-25 Nmm (0.7-3.5 in-oz)
Shaft Starting Torque:	35 Nmm (5 in-oz) Max.
Cycle Life:	1 Million cycles
Detent Life:	10,000 cycles
Detent Torque:	35-120 Nmm (5-17 in-oz)
Detent Release Position:	20 degrees Max.

Electrical Specifications

Electrical Travel:	240 degrees
Active Electrical Travel:	216 degrees (5%-95%)
PowerRating at 70C:	0.25W (derating to 0 at 125C
Resistance Tolerance:	±20%
Linearity, Independent:	±2% (Active)
RGV:	100% Max.
(Output Smoothness):	(0.2%) Max.

Environmental Specifications

Moisture & Dust Resistant:	Sealed, IP66/IP67
Vibration:	15g, 10 to 2000 Hz
Shock:	30g
Temperature:	-40°C to +125°C operating -55° to +150°C storage
Salt Spray:	96 hours
Resistance to Solder Heat:	350°C (660°F) for 5 sec. (at termination points)

Materials

Shaft:	Stainless Steel
Bushing:	Nickel Plated Brass
Housing (Package):	Nylon 6 (Akulon)
PCB:	4101/21 (FR-4)

Specifications subject to change without notice. BE2023