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

# 5320 Series Panel Pot

The BEI'Ugpuqtu 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 DGKUgpuqtu'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.



#### **Ordering Information:**

#### **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)**

#### 5321 5322 5323 9.53 12.7 15.88 [.375] [500] 22.23 [.625] 25.46,35 [875] [1.00] [.250] Dimensions are shown in millimeters [in-

**Basic Configurations: Shaft & Bushing Lengths** 

532X RXK LX.X X



#### STANDARD PART: 5321 R5K L2.0





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## **Standard Sensor as Example**









#### **Mechanical Specifications**

Total Travel (stop to stop): Stop Strength: Shaft Pull Out Strength: Shaft Operating Torque: Shaft Starting Torque: Cycle Life: Detent Life: Detent Torque: Detent Release Position:

#### **Environmental Specifications**

Moisure & Dust Resistant: Vibration: Shock: Temperature:

Salt Spray: Resistance to Solder Heat: 250 degrees 1350 Nmm (190 in-oz) 200N (45lbs) 5-25 Nmm (0.7-3.5 in-oz) 35 Nmm (5 in-oz) Max. 1 Million cycles 10,000 cycles 35-120 Nmm (5-17 in-oz) 20 degrees Max.

Sealed, IP66/IP67 15g, 10 to 2000 Hz 30g -40°C to +125°C operating -55° to +150°C storage 96 hours 350°C (660°F) for 5 sec. (at termination points)

#### **Electrical Specifications**

Electrical Travel: Active Electrical Travel: PowerRating at 70C: Resistance Tolerance: Linearity, Independent: RGV: (Output Smoothness):

#### **Materials**

Shaft: Bushing: Housing (Package): PCB:

240 degrees 216 degrees (5%-95%) 0.25W (derating to 0 at 125C  $\pm 20\%$ ±2% (Active) 100% Max. (0.2%) Max.

> Stainless Steel Nickel Plated Brass Nylon 6 (Akulon) 4101/21 (FR-4)

Specifications subject to change without notice. BE2023



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