

# 5320-series

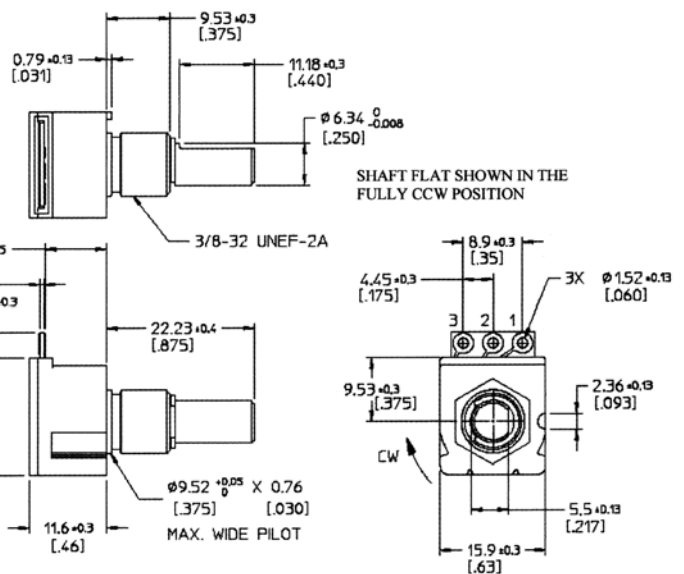
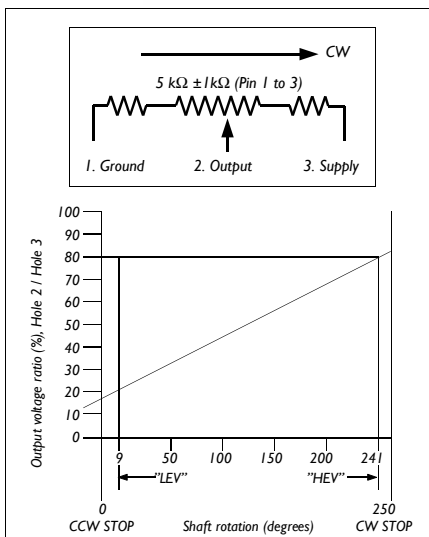
# Rotary sensor 0-240 deg



The 5320 Series from Regal Components 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 Duncan 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.



## Materials

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

## Mechanical Specifications

Total Travel (stop to stop): .....250 degrees (std)  
 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.

## 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)

## Electrical Specifications

Active Electrical Travel: .....240 degrees (std)  
 Input Voltage (Vs): .....5V ± 0.25V  
 Power Dissipation: .....0.25W @ 85°C  
 Resistance (Rt): .....5kΩ ± 20% (std)  
 Linearity, Independent: .....±2% (std)  
 Low End Voltage (LEV): .....20% ± 10% (std)  
 High End Voltage (HEV): .....80% ± 10% (std)  
 RGV: .....100% Max.  
 Output Smoothness: .....(0.2%) Max.



Specifications subject to change without notice.

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