



Industrial Rotary Position Sensor Bushing Mount Type, Conductive Plastic



	QUICK REFERENCE DATA		
	Sensor type	ROTATIONAL, conductive plastic	
	Output type	Output by turrets	
ļ	Market appliance	Industrial	
ļ	Dimensions	15.81 mm x 17.46 mm	

FEATURES

- Fully sealed for high immunity to environmental damage
- Excellent temperature stability
- · Rotational life exceeds 2 million revolutions
- · Low cost and wide range of options
- Stainless steel shaft
- Shock to 30 g vibration to 15 g at 10 Hz to 2000 Hz

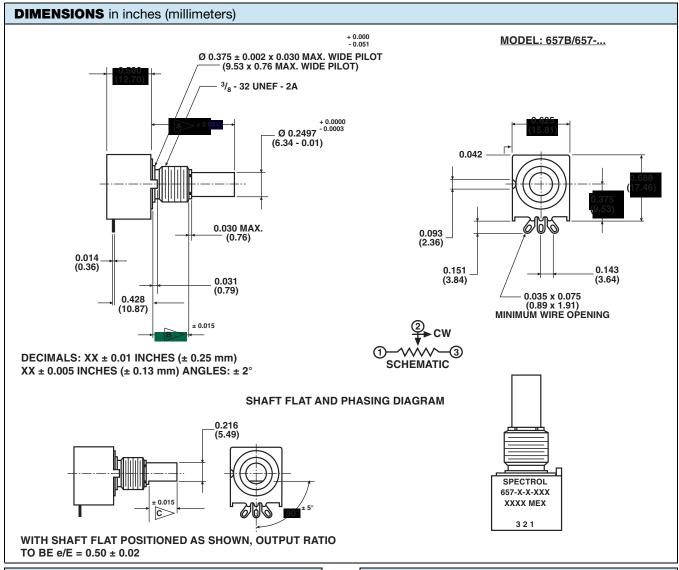
ELECTRICAL SPECIFICATIONS			
PARAMETER			
Standard resistance	1 kΩ to 100 kΩ		
Capability range	200 kΩ		
Resistance tolerance	± 20 %		
Linearity	± 2 %		
Power rating	1.0 W at 85 °C		
Electrical travel	240° ± 4°		
Dielectric withstanding	500 V _{RMS} at 60 Hz minimum		
Output smoothness	0.2 % maximum		

MECHANICAL SPECIFICATIONS		
PARAMETER		
Bearing type	Sleeve	
Mechanical rotation	250° ± 2°	
Stop strength	10 in - Ib minimum, 11.5 kg/cm	
Starting torque	3.0 o.z - in maximum, 216 g/cm	
Running torque	3.0 oz in maximum, 216 g/cm	

ORDEF	ORDERING INFORMATION/DESCRIPTION						
657	В	F		0		50 kΩ	B10
MODEL	STYLE	SHAFT OPTIONS	SHAFT	SHAFT BUSHING OPTIONS		TOTAL RESISTANCE	PACKAGING
			$\overline{\mathbb{A}}$	\mathbb{B}			
	B: Bushing	R - Round F - Flatted	Shaft length 0 - 0.875" FMS 1 - 0.625" FMS 2 - 1.000" FMS 3 - 1.250" FMS	Bushing length 0.375" FMS 0.250" FMS 0.500" FMS 0.750" FMS	Flat 0.440" 0.315" 0.440" 0.440"		Box of 10 pieces

SAP PART NUMBERING GUIDELINES				
657B	R	1	103	BO10
MODEL	END SHAFT	SHAFT AND BUSHING OPTIONS	OHMIC VALUE	PACKAGING
	R: Round	(see above)		





STANDARD RESISTANCE VALUES		
CODE	RESISTANCE (Ω)	
102	1K	
202	2K	
502	5K	
103	10K	
203	20K	
503	50K	
104	100K	

MATERIAL SPECIFICATIONS		
Shaft	Stainless steel	
Bushing	Nickel plated brass	
Housing	Thermoplastic	
Element	Conductive plastic on alumina substrate	

ENVIRONMENTAL SPECIFICATIONS		
Rotational life	2 million revolutions	
Vibration	15 g at 10 Hz to 2000 Hz	
Operating temperature	-40 °C to +125 °C	
Storage temperature	-55 °C to +150 °C	
Temperature coefficient	± 600 ppm/°C	
Shock	30 <i>g</i>	
Resistant to solder heat	350 °C for 5 s	
Moisture resistance IP rating	Sealed construction IP67* application to provide protection for wiring terminals	

Nota

 Nothing stated herein shall be construed as a guarantee of quality or durability.

MARKING			
Unit identification	Vishay Spectrol, part number, data code, country of origin and terminal designation. Example of a marking for a standard part: 657-2-0-102		



Legal Disclaimer Notice

Vishay

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