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Vishay Spectrol

Model 132

1⁵/₁₆" (33.3 mm) Low Cost Industrial Single Turn Wirewound, Bushing Mount Type Potentiometer



QUICK REFERENCE DATA				
Sensor type ROTATIONAL, single turn wirewour				
Output type	Output by turrets			
Market appliance	Industrial			
Dimensions	1 ⁵ / ₁₆ " (33.3 mm)			

FEATURES

- Suitable model for all industrial applications
- Center tap available
- · Continuous rotation and mechanical stops both standard
- Large electrical angle: 352° ± 2°



COMPLIANT

• Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS					
PARAMETER	MIL-PRF-12934 TEST PROCEDURES APPLY				
	STANDARD	SPECIAL			
Total Resistance	5 Ω to 20 k Ω	to 35 kΩ			
Tolerance: 50 Ω and Above	±3%	± 1 %			
Below 50 Ω	± 5 %	± 3 %			
Linearity (independent)	STANDARD	BEST PRACTICAL			
Total Resistance					
5 Ω to 20 Ω	± 1.0 %	± 0.75 %			
20 Ω to 200 Ω	± 1.0 %	± 0.50 %			
200 Ω and above	± 0.5 %	± 0.25 %			
Noise	100 Ω ENR				
Power Rating	40 °C ambient				
	2.75 W				
	derated to zero at 125 °C				
Electrical Angle					
Continuous Rotation	35	52° ± 2°			
Stops	$340^{\circ} \pm 5^{\circ}$				
Insulation Resistance	1000 MΩ minimum at 500 V _{DC}				
Dielectric Strength	1000 V _{RMS} , 60 Hz				
Absolute Minimum Resistance	1.0 % of total resistance or 0.5 W whichever is greater				
Minimum Voltage	0.5 % maximum				
Temperature Coefficient of Resistance	Refer to standard	resistance element data			

MATERIAL SPECIFICATIONS					
Housing	Molded glass filled thermoplastic				
Rear Lid	Glass filled thermoset plastic				
Shaft	Stainless steel, non-magnetic				
Terminals	Brass, plated for solderability, Non-passivated				
Mount Hardware Lockwasher Internal Tooth: Panel Nut:	Steel, nickel plated Brass, nickel plated				

ENVIRONMENTAL SPECIFICATIONS				
Vibration	15 <i>g</i> thru 2000 Hz			
Shock	50 g			
Salt Spray	48 h			
Rotational Life				
Shaft Revolutions	500 000			
Operating Temperature Range	- 55 °C to + 125 °C			

ORDERING INFORMATION/DESCRIPTION							
132	В	0	0	20K	BO10		
MODEL	BUSHING MOUNT	MECHANICAL OPTIONS	OTHER OPTIONAL FEATURES	OHMIC VALUE	PACKAGING		
		0. Continuous 2. Stops	0. Standard (end taps) 1. Center tap (within 5° of electrical center)		Box of 10 pieces		
Other characteristics will be standard as described on this specification sheet. If special characteristics are required such as special linearity tolerance, special resistance tolerance, non-linear functions, etc., please state these on your order.							

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For technical questions, contact: sferprecisionpot@vishay.com

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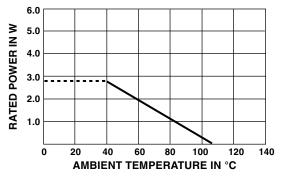
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SAP PART NUM	BERING GUID	ELINES				
132	В	2	1	103	B10	
MODEL	STYLE	MECHANICAL OPTIONS	ELECTRICAL OPTIONS	OHMIC VALUE	PACKAGING	
		2: With stops	1: With center tap	103: 10K	Box of 10 pieces	
DIMENSIONS in	inches (millimete	ers)				
	28/132 	(33.32)		∎	€ CW MATIC	
MECHANICAL S	PECIFICATION	IS				
PARAMETER						
Rotation				or 340° ± 5° (stops)		
Bearing Type			Sleeve			
Torque (maximums)			STARTING 1.0 oz in (72 g - cm)		NNING (50.40 g - cm)	
Runouts (maximums)						
Shaft Runout (TIR)			0.002" (0.05 mm)			
Pilot Dia. Runout (TIR)			0.003" (0.08 mm)			
Lateral Runout (TIR)			0.005" (0.13 mm)			
Shaft End Play			0.008" (0.20 mm)			
Shaft Radial Play			0.003" (0.08 mm)			
Weight			1.0 oz. maximum (28.35 g)			
		8.0 in - Ibs (9.21 kg - cm) (stops version only)				

POWER RATING CHART



MARKING	
Unit Identification	Units shall be marked with Vishay Spectrol name, model number, resistance and tolerance, linearity, terminal identification, and data code Applicable test procedures: MIL-R-12934. Example of a marking for a standard part: 132-0-0-103

RESISTANCE ELEMENT DATA						
RESISTANCE VALUES (Ω)	RESO- LUTION (%)	ohms Per Turn	MAXIMUM CURRENT AT 40 °C AMBIENT (mA)	MAXIMUM VOLTAGE ACROSS COIL (V)	WIRE TEMP. COEF. (ppm/°C)	
5	0.419	0.021	742	3.71	800	
10	0.327	0.032	524	5.24	800	
20	0.280	0.056	371	7.42	800	
50	0.290	0.145	234	11.7	20	
100	0.251	0.251	166	16.6	20	
200	0.212	0.424	122	24.4	20	
500	0.161	0.806	74.2	37.1	20	
1K	0.150	1.50	52.4	52.4	20	
2K	0.132	2.64	37.1	74.2	20	
5K	0.107	5.34	23.4	117	20	
10K	0.080	7.98	16.6	166	20	
20K	0.067	13.4	12.2	244	20	
35K	0.057	20.0	8.88	311	20	

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