



1 ¹³/₁₆" (46 mm) Ten Turn Wirewound Potentiometer, Bushing Mount



QUICK REFERENCE DATA			
Sensor type ROTATIONAL, multi turn wirewound			
Output type	Output by turrets		
Market appliance Industrial			
Dimensions	1 ¹³ / ₁₆ " (46 mm)		

FEATURES

- Gangable up to 2 sections
- Large range of ohmic values: 20 Ω to 200 k Ω
- Extra taps available upon request
- Ideally suits for all industry applications

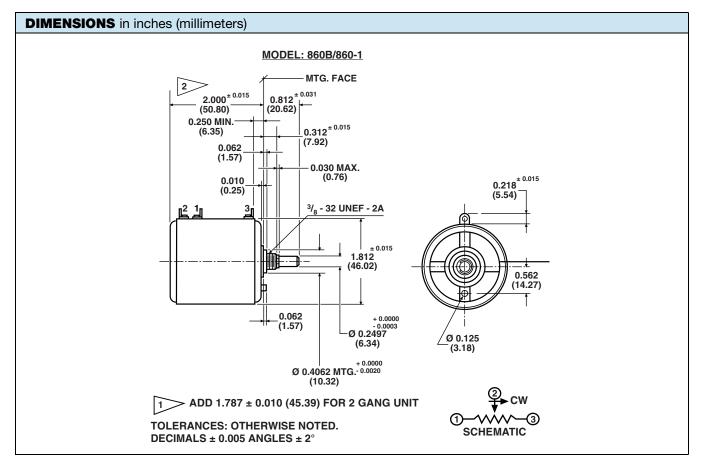
PARAMETER				
Total resistance Standard range Tolerance: 200 Ω and above Below 200 Ω	20 Ω to 200 kΩ STANDARD ± 3 % ± 5 %	Special up to 500 kΩ SPECIAL ± 1 % ± 3 %		
Linearity (independent)	± 0.25 % standard			
$20~\Omega$ to $50~\Omega$ $50~\Omega$ to $200~\Omega$ $200~\Omega$ to $5~k\Omega$ and above	± 0.15 % ± 0.10 % ± 0.05 % ± 0.025 %			
Noise	100 Ω ENR			
Electrical angle	3600° + 4° - 0°			
Power rating	8.0 W at 40 °C derated to zero at 125 °C			
Insulation resistance	1000 MΩ minimum 500 V _{DC}			
Dielectric strength	1000 V _{RMS} , 60 Hz			
Absolute minimum resistance	Not to exceed linearity x total resistance or 1 Ω , whichever is greater			
End Voltage	0.5 % of total applied voltage maximum			
Phasing	CCW end points sect. 2 phased to sect 1 within 1°			
Taps (extra)	Available as special standard tolerance ± 1°			

ORDERING INFORMATION/DESIGNATION					
Model 860 can be ordered from this datasheet with a variety of alternate characteristics, as shown. For most rapid service on your order, please state:					
860	В	1	20K	BO10	
MODEL	BUSHING MOUNT	NUMBER OF SECTIONS	RESISTANCE OF EACH SECTION	PACKAGING	
		From 1 up to 2 sections (maximum)	Beginning with the section nearest the mounting end	Box of 10 pieces	

SAP PART NUMBI	ERING GUIDELINES			
860	В	1	203	B10
MODEL	STYLE	NUMBER OF SECTIONS	OHMIC VALUE OF SECTION Nº 1	PACKAGING

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MECHANICAL SPECIFICA	ATIONS			
PARAMETER				
Rotation	3600° + 4° - 0°			
Bearing type	Sleeve b	earing		
Torque (maximums): Section 1 Section 2	STARTING RUNNING 1.75 oz in (126.02 g - cm) 1.26 oz in (90.01 g - cm) 2.55 oz in (183.62 g - cm) 1.85 oz in (133.21 g - cm)			
Runouts (maximums) Shaft (TIR) Pilot dia (TIR) Lateral (TIR) Shaft end play Shaft radial play	0.002" (0.05 cm) 0.002" (0.05 cm) 0.005" (0.13 cm) 0.002" min. 0.010" max. (0.05 cm to 0.25 cm) 0.003" max. (0.08 cm)			
Weight (maximums) Single section Additional section	4.5 oz. (127.58 g) 4.0 oz. (113.40 g)			
Stop strength	750 oz in (static) (54.01 kg - cm)			
Ganging	2 sections maximum ears of clamp band between sections positioned 45°, ± 10° CCW from terminal center line			
Moment inertia	15.0 g - cm ² maximum			



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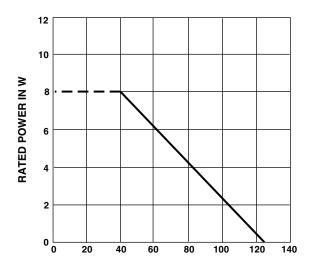
Vishay Spectrol

MATERIAL SPECIFICATIONS				
Bushing	Aluminum, nickel plated			
Housing and front lid	Molded glass filled thermoset plastic			
Rear lid	Molded glass filled nylon			
Shaft	Stainless steel, non magnetic, non-passivated			
Terminals	Brass, plated for solderability			
Mounting hardware Lockwasher: Panel nut:	Internal tooth steel, nickel plated Brass, nickel plated			

ENVIRONMENTAL SPECIFICATIONS			
Vibration	10 g thru 500 CPS		
Shock	50 <i>g</i>		
Rotational life	500 000 shaft revolutions		
Load life	900 h		
Temperature range	- 55 °C to + 125 °C		
Salt spray	48 h		

MARKING	
Unit identification	Units will be marked with Vishay Spectrol name and model no, resistance and resistance tolerance, linearity, terminal identification, and date code. Example of a marking for a standard part: 860-11202

POWER RATING CHART



AMBIENT TEMPERATURE IN °C

RESISTANCE ELEMENT DATA					
STANDARD RESISTANCE VALUES (Ω)	RESOLUTION (%)	OHMS PER TURN	MAXIMUMCURRENT AT 70 °C AMBIENT (mA)	MAXIMUM VOLTAGE ACROSS COIL (V)	WIRE TEMPERATURE COEFFICIENT (ppm/°C)
20	0.044	0.009	632	13	800
50	0.027	0.014	400	20	800
100	0.024	0.024	283	28	800
200	0.028	0.056	200	40	180
500	0.023	0.115	126	63	20
1K	0.018	0.182	89	89	20
2K	0.020	0.402	63	126	20
5K	0.015	0.754	40	200	20
10K	0.013	1.23	28	283	20
20K	0.010	1.97	20	400	20
50K	0.007	3.69	13	632	20
100K	0.007	6.51	8.9	894	20
200K	0.005	9.63	5.0	1000	20
500K	0.004	20.0	2.0	1000	20

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