PP27 BS



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Vishay MCB

Single Turn Continuous Rotation Potentiometer or with Stop-Ends Conductive Plastic Track



QUICK REFERENCE DATA					
Sensor type	ROTATIONAL, conductive plastic				
Output type	Output by turrets				
Market appliance	Industrial				
Dimensions	27 mm				

FEATURES

- Infinite resolution
- Precious metal contacts
- Housing: high temperature thermo plastic
- · Terminals: soldering pins
- · Shaft: stainless steel
- Plain bearing (= sleeve bearing)
- Bush mounting
- Rotation with stop-ends (standard design) or without
- Dust proof
- Applicable standards: NFC 93255, MIL R39023
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS						
PARAMETER						
Useful electrical travel	310° ± 5°					
Independent linearity standard	± 1.0 %					
Independent linearity optional	± 0.5 %					
Total resistance (R _n)	10 kΩ					
Tolerance on R _n	± 20 %					
Output smoothness	≤ 0.1 %					
Power rating at 40 °C	1 W					
Temperature coefficient	-300 ± 300 ppm/°C					
Wiper current	≤ 1 mA					
Recommended load impedance	≥ 100 R _n for linearity = 1 % ≥ 1000 R _n for linearity ≤ 0.5 %					
Insulation resistance	\geq 1 G Ω at 500 V _{DC}					
Dielectric strength	750 V, 50 Hz, 1 min					

MECHANICAL SPECIFICATIONS PARAMETER					
Mechanical rotation with stop	333° ± 5 ° continuous				
Running and starting torque	≤ 1.4 N cm				
Stop torque	100 N cm				
Bush tightening torque	250 N cm				
Moment of inertia	≤ 1 g cm ²				
Protection class	IP50				
Weight	30 g				
Mounting	Bush				

PERFORMANCE					
PARAMETER					
Operating temperature range	-55 °C to +105 °C				
Life	10M cycles				
Rotation speed (max.)	120 rpm				

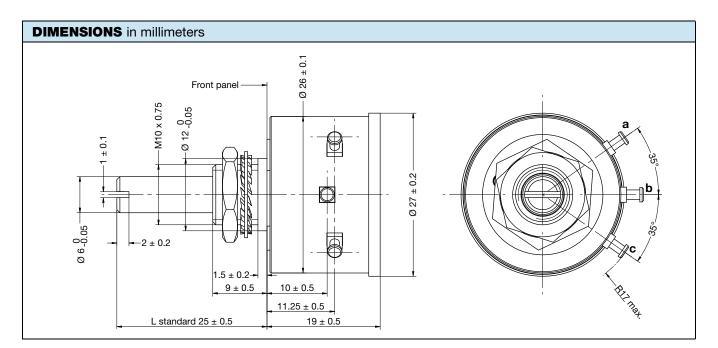




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SAP PART NUMBERING GUIDELINES										
MODEL	MOUNTING	TYPE	GANG	VALUE	LINEARITY	ANGLE	PACKAGING			
PP27	B = bushing	S = sleeve bearing	1	103 = 10K	A = 1 %	310	B = box			



POWER RATING CHART

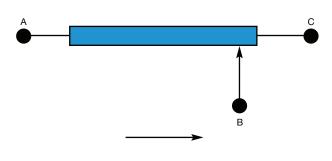
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W

1.0

0

ELECTRICAL DIAGRAM



Clockwise when viewed from shaft end

OPTIONS (on request)

- Continuous rotation (without stop-ends)
- · Through shaft
- · Ganging 2 or 3
- Other electrical travels
- Other ohmic value
- Other tolerances on Rn
- Other linearities (0.5 %)
- Middle tap
- · Shaft with different length (top shaft, rear shaft), screwdriver slot
- Pin on the through shaft to use the rear side of potentiometer as a dial
- · Output with wires equipped of connector

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