

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



### 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](http://www.vishay.com/doc?99912)



### QUICK REFERENCE DATA

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

### ELECTRICAL SPECIFICATIONS

PARAMETER		
Useful electrical travel		310° ± 5°
Independent linearity standard		± 1.0 %
Independent linearity optional		± 0.5 %
Total resistance (R <sub>n</sub> )		10 kΩ
Tolerance on R <sub>n</sub>		± 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 <sub>n</sub> for linearity = 1 % ≥ 1000 R <sub>n</sub> for linearity ≤ 0.5 %
Insulation resistance		≥ 1 GΩ at 500 V <sub>DC</sub>
Dielectric strength		750 V, 50 Hz, 1 min

### MECHANICAL SPECIFICATIONS

PARAMETER		
Mechanical rotation without stop		360° continuous
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 <sup>2</sup>
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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