

Knob Panel Potentiometers with Switch



KEY BENEFITS

- Low profile: 7 mm bushing length (15 mm inside equipment)
- Small size: 16 mm knob diameter
- Pot in the knob
- CCW electrical cut-off incorporated
- Indent feeling
- Metal knob available
- High dielectric strength 2.5 kV_{RMS}
- IP67 sealing
- Cermet and conductive plastic element available

END PRODUCTS

- Portable equipment
- Communication headsets
- Night vision goggles
- Cockpit panel controls

RESOURCES

- Datasheet: P16S, PA16S - <http://www.vishay.com/doc?51063>
- For technical questions contact sfer@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



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DIMENSIONS in millimeters (± 0.5 mm)		
P16SNP Thickness nut 2 mm washer 1.5 mm 	P16SNM Thickness nut 2 mm washer 1.5 mm 	PANEL CUTOUT

MECHANICAL SPECIFICATIONS	
Mechanical Travel	$300^\circ \pm 5^\circ$
Operating Torque	2 Ncm typical
End Stop Torque	25 Ncm maximum
Max. Tightening Torque of Mounting Nut	250 Ncm maximum
Unit Weight	4.5 g typical

ENVIRONMENTAL SPECIFICATIONS		
	Metallic Knob	Plastic Knob
Temperature Range	- 40 °C to 125 °C	- 40 °C to 85 °C
Climatic Category	40/100/56	40/85/56
Sealing	Sealed container and panel sealed	
Protection Grades	IP67	

SWITCH ELECTRICAL AND MECHANICAL SPECIFICATIONS		
ON/OFF Switch	Actuation in counter clockwise position (between terminal a and terminal b)	
Switching Current	P16S	100 mA max.
	PA16S	1 mA max.
Switch Actuation Torque	4 Ncm min.	
Switch Actuation Travel	$30^\circ \pm 5^\circ$	
Dielectric Strength Terminal to Terminal (RMS)	1000 V	
Insulation Resistance between Contacts	10^6 M Ω	
Switch Mechanical Endurance	10 000 cycles	
1 Cycle	ON-OFF-ON	

Revision: 17-Apr-12

Resistors - Low profile and small size