



Features

- Compact design
- High reliability
- Mounting hole pin
- RoHS compliant*

Applications

- Industrial controls
- Robotics
- Factory automation equipment
- Motion control systems
- Human-machine interfaces (HMI)
- Commercial equipment
- Position feedback applications

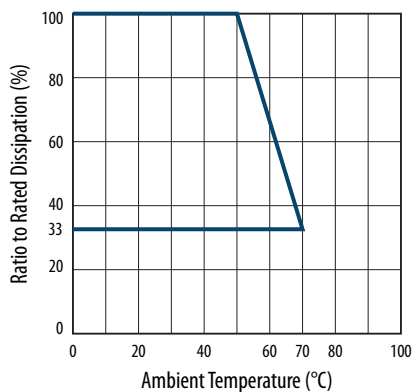
Sustainability

- Small size reduces material use
- High pallet density for lower CO₂
- Eco-logistics-friendly packing
- Recyclable ESD-safe packaging
- High efficiency, low power loss

Product Overview

Bourns® PST065 Series combines a compact 6 mm hollow-shaft design with long operational life and reliable performance. The hollow-shaft configuration simplifies mechanical integration, while the miniature package supports highly space-constrained designs. Engineered to provide stable output performance throughout its service life, the PST065 Series helps improve system durability and reduce maintenance requirements. Combining compact dimensions, dependable operation, and extended service life, the PST065 Series offers a reliable solution for applications requiring consistent position feedback over time.

Derating Curve of Rated Dissipation



Electrical Characteristics

Contact Rating.....	10 mA @ 5 VDC
Insulation Resistance	100 MΩ min. @ 200 VDC
Dielectric Strength - Sea Level.....	50 VAC 1 min.
Linear Taper B	Linear
Rated Power	0.1 W
Rated Voltage.....	200 VAC – 100 VDC
Standard Resistance Range	1 KΩ to 5 MΩ
Total Resistance Tolerance	
1 KΩ to 1 MΩ.....	±20 %
≥1 MΩ to 5 MΩ.....	±30 %
Electrical Travel.....	200° ±20°

Environmental Characteristics

Operating Temperature	-10 °C to +70 °C
Storage Temperature	-25 °C to +80 °C
Soldering Condition	
Dip Soldering.....	260 °C ±5 °C for 3 s
Manual Soldering.....	350 °C ±5 °C for 3 s
IP Rating.....	IP 40

Mechanical Characteristics

Mechanical Angle.....	235° ±10°
Rotational Torque	5 to 30 gf/cm
Rotational Speed	60° / sec.
Rotation Stopper Strength.....	0.3 Kg/cm
Push – Pull Strength of Shaft.....	0.5 Kg/cm
Shaft Play in Axial Direction.....	0.5 K gf max.
Rotational Life.....	10,000 cycles

Product Characteristics

Weight.....	0.2 grams
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Contact Information

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*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

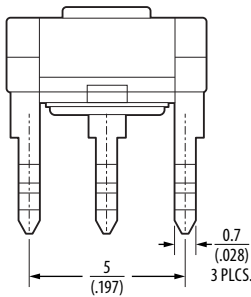
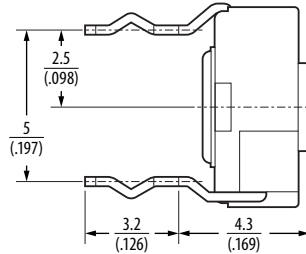
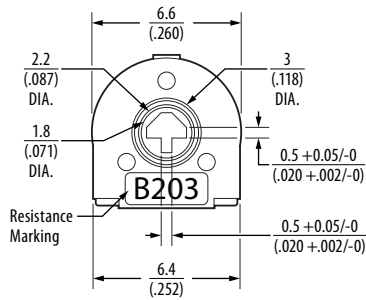
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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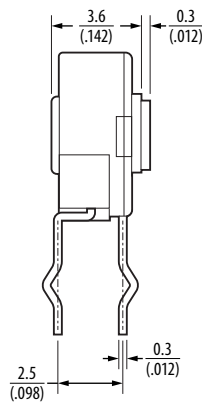
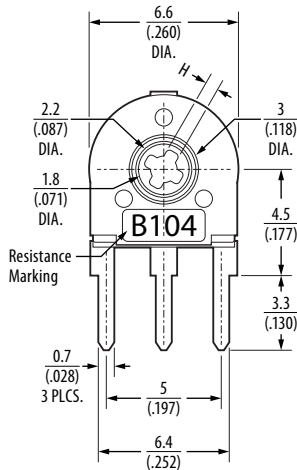
Product Dimensions

PST065H Horizontal PC Board Mounting Hole Pin



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

PST065V Vertical PC Board Mounting Hole Pin



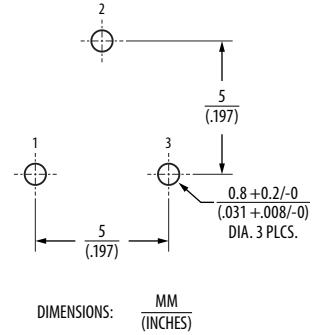
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Tolerances Unless Otherwise Specified

≤10	±0.3
10 ~ 100	±0.5
≥100	±1.5
Angle	±5 °

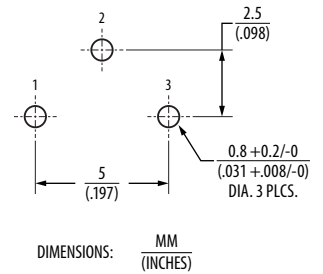
Mounting Hole Details

PST065H



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

PST065V



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$



How to Order

PST065 - 1 01 K1 N 503

Model Series _____

6 mm Incremental Potentiometer _____

1 = Horizontal
2 = Vertical

Key Shaft _____

01 = Hole

Shaft Style _____

K1 = 0.70 Cross Key Shaft
K2 = 0.65 Cross Key Shaft
K3 = 0.60 Cross Key Shaft
M1 = 1.42 Hexagon Key Shaft
M2 = 1.40 Hexagon Key Shaft
N1 = 0.50 Arrow Key Shaft

Switch Configuration _____

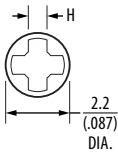
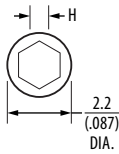
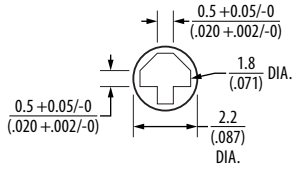
N = No Switch

Resistance _____

Resistance Code

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Hole Style

Style K				Style M			Style N1		
									
Code H	K1	K2	K3	Code H	M1	M2			
	$\frac{0.7 + 0.05/-0}{(.028 + .002/-0)}$	$\frac{0.65 + 0.05/-0}{(.026 + .002/-0)}$	$\frac{0.6 + 0.05/-0}{(.024 + .002/-0)}$		$\frac{1.42 + 0.05/-0}{(.056 + .002/-0)}$	$\frac{1.4 + 0.05/-0}{(.055 + .002/-0)}$			

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