



PANEL POTENTIOMETERS





Vishay Sfernice





- P11S/P11A
- PE30
- P9
- PRV6
- PRV4
- PE60
- P16/PA16
- P10
- P13
- 248/249
- P11P
- P30L
- P10L
- P11L








PANEL POTENTIOMETERS

Panel Potentiometers Selector Guide				
	<u>PE30</u>	<u>P11S</u>	<u>PRV4</u>	<u>P11L</u>
Model				
Applications	Off road Welding machine Machine tool	Off road Welding machine Aeronautics/military Medical Cash dispensers	Off road Welding machine HVAC	Off road Welding machine Aeronautics/military Medical
Main Features	Fully sealed 3 W Robust High torque	Versatile Modular Options	Fully sealed 2 W Robust High torque	High rotational life Modular Options
Life Cycles	25,000	50,000 (1,000,000)	25,000	2,000,000
Size	19.7 mm diam. 3/4"	12.5 mm square 1/2"	19.7 mm diam. 3/4"	12.5 mm square 1/2"
Mounting	PCB/cabling	PCB/cabling	PCB/cabling	PCB/cabling
Technology	Cermet	Cermet	Cermet	Cermet
Temperature Range	- 55 °C + 125 °C	- 55 °C + 125 °C	- 55 °C + 125 °C	- 55 °C + 125 °C
Shaft Material	Metal	Metal	Metal	Metal
Multigang (Y/N)	N	Y	N	Y
Resistance Range	22 Ω to 10 MΩ	22 Ω to 10 MΩ	22 Ω to 10 MΩ	1 kΩ - 5 kΩ - 10 kΩ and 50 kΩ
Variation Laws	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear
Power Rating (PR)	3 W	1 W	2 W	0.1 W
Standard Tolerance	20 %	20 % 10 %	20 %	20 % 10 %
Miscellaneous Features	300° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP64 Sealing Panel sealing optional	300° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP64 Sealing







Panel Potentiometers Selector Guide				
	<u>P30L</u>	<u>PRV6</u>	<u>P16</u>	<u>P10</u>
Model				
Applications	Off road Machine tool HVAC	Off road Medical equipment Goggles	Medical equipment Goggles Telecom Military	White goods Climatization Toys
Main Features	High rotational life Fully sealed High torque	Fully sealed Mil design	Low profile Knob included Panel sealing	Economical
Life Cycles	2,000,000	50,000	50,000	10,000
Size	19.7 mm diam. 3/4"	12.5 mm diam. 1/2"	16 mm diam. (incl. knob) 5/8"	9.5 mm square 3/8"
Mounting	PCB/cabling	PCB/cabling	PCB/cabling	PCB
Technology	Cermet	Cermet	Cermet	Cermet
Temperature Range	- 40 °C + 100 °C	- 55 °C + 125 °C	- 40 °C + 125 °C	- 55 °C + 125 °C
Shaft Material	Metal	Metal	Plastic/metal knob	Plastic
Multigang (Y/N)	N	N	N	N
Resistance Range	1 k Ω - 5 k Ω - 10 k Ω and 50 k Ω	20 Ω to 10 M Ω	22 Ω to 10 M Ω	100 Ω to 2 M Ω
Variation Laws	Linear	Linear/nonlinear	Linear/nonlinear	Linear
Power Rating (PR)	2 W	1.5 W	1 W	0.5 W
Standard Tolerance	20 % 10 %	20 %	20 %	10 % 5 %
Miscellaneous Features	300° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP67 Sealing	290° Mech. travel IP67 Sealing Panel sealing optional

Panel Potentiometers Selector Guide				
	<u>P10L</u>	<u>P11P</u>	<u>249</u>	<u>PE60</u>
Model				
Applications	White goods Climatization Toys Consumer goods	Welding machines High voltage adjustment	Welding machines Cash dispensers	Aeronautics/military High voltage Rheostat Aeronautic lighting
Main Features	High rotational life Economical	All plastic top High dielectric strength	Plastic bushing and all plastic pot available High dielectric strength	6 W Cables
Life Cycles	500,000	50,000	25,000	25,000
Size	9.5 mm square 3/8"	12.5 mm square 1/2"	12.7 mm square 1/2"	12.5 mm diam. 1"
Mounting	PCB	PCB/cabling	PCB	Cable/connector
Technology	Cermet	Cermet	Cermet	Cermet
Temperature Range	- 40 °C + 100 °C	- 40 °C + 100 °C	- 55 °C + 125 °C	- 55 °C + 125 °C
Shaft Material	Plastic	Plastic	Plastic/metal	Metal
Multigang (Y/N)	N	Y	N	N
Resistance Range	1 k Ω - 5 k Ω - 10 k Ω and 50 k Ω	22 Ω to 10 M Ω	500 Ω to 1 M Ω	1 Ω to 1 M
Variation Laws	Linear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear
Power Rating (PR)	0.1 W	1 W	1 W	6 W
Standard Tolerance	20 % 10 %	20 % 10 %	20 % 10 %	20 % 10 % 5%
Miscellaneous Features	290° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP64 Sealing Panel sealing optional	295° Mech. travel IP50 Sealing	300° Mech. travel IP67 Sealing Panel sealing optional

Panel Potentiometers Selector Guide					
Model	<u>P13</u>	<u>PA16</u>	<u>P9</u>	<u>P11A</u>	<u>248</u>
					
Applications	Military	Audio Military	Professional audio	Professional audio	Professional audio
Main Features	Fully sealed Mil design Stability	Low profile Knob included Panel sealing	Small size Versatile Modular Smooth feeling Options	Conductive plastic Versatile Modular Options	Conductive plastic Compact, plastic shaft available
Life Cycles	25,000	50,000	25,000	50,000	25,000
Size	12.6 mm diam. 1/2"	16 mm diam. (incl. knob) 5/8"	9 mm square 3/8"	12.5 mm square 1/2"	12.7 mm square 1/2"
Mounting	PCB/cabling	PCB/cabling	PCB	PCB/cabling	PCB
Technology	Cermet	Conductive plastic	Conductive plastic	Conductive plastic	Conductive plastic
Temperature Range	- 55 °C + 125 °C	- 40 °C + 125 °C	- 55 °C + 100 °C	- 55 °C + 125 °C	- 55 °C + 125 °C
Shaft Material	Metal	Plastic/metal knob	Metal	Metal	Plastic/metal
Multigang (Y/N)	N	N	Y	Y	N
Resistance Range	20 Ω to 10 MΩ	20 Ω to 10 MΩ	1 KΩ to 1 MΩ	1 KΩ to 1 MΩ	500 Ω to 1 MΩ
Variation Laws	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear
Power Rating (PR)	1.5 W	0.5 W	0.1 W	0.5 W	0.5 W
Standard Tolerance	20 % 10 %	20 %	20 % 10 %	20 % 10 %	20 %
Miscellaneous Features	300° Mech. travel IP67 Sealing Panel sealing optional	300° Mech. travel IP67 Sealing	300° Mech. travel IP64 Sealing Panel sealing optional	300° Mech. travel IP64 Sealing Panel sealing optional	295° Mech. travel IP50 Sealing



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Custom Options – Custom Designs		
	Custom shafts and bushings	Available for P11S, P11A, PE30, P9, PRV6, PRV4, P13, PE60, P30L, and P10L
	Custom knobs	Available for P16 and PA16
	Harness and special connectors	Available for P11S, P11A, PE30, P9, PRV6, PRV4, P16, P13, PE60, P30L, and P10L
	Custom shafts	Available for P11S, P11A, P11L, P30L, and P9
	Tracks and resistive elements	On request
	Locking device	Available for P11S, P11A, PE30, PRV6, P13, and PE60

Custom Options – Special Features/Options		
Special tight linearity	Available for P11S, P11A, P11P, PE30, P9, PRV6, PRV4, P13, and PE60	
Special interlinearity	Available for P11S, P11A, P11P multigang	
1 Million cycles option	Available for P11S, standard for P11L and P30L	
On/off switches	Available for P11S, P11A, and P11P	
Indent modules	Available for P11S, P11A, and P11P	
Custom taper or specific resistive track angle	Available for P11S, P11A, P11P, PA16, P16, PE30, P9, PRV6, PRV4, P13, PE60	
Other custom designs and options available on request. This selector guide lists the features of standard generic models. Please check specific datasheets to obtain precise data.		

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VMN-SG2130-1004