



VISHAY INTERTECHNOLOGY, INC.



PANEL POTENTIOMETERS

P11S / P11A

PE30

P9

PRV6

PRV4

PE60

P16 / PA16

P10

P13

248 / 249

P11P






P30L

P10L














PANEL POTENTIOMETERS

Panel Potentiometers Selector Guide

	PE30	P11S	PRV4	P30L	PRV6S
					
Applications	Off road Welding machine Machine tool	Off road Welding machine Aeronautics/military Medical Cash dispensers	Off road Welding machine HVAC	Off road Machine tool HVAC	Off road Medical equipment Goggles
Main Features	Fully sealed 3 W Robust High torque	Versatile Modular Options	Fully sealed 2 W Robust High torque	High rotational life Fully sealed High torque	Fully sealed Mil design
Life Cycles	25,000	50,000 (1,000,000)	25,000	1,000,000	50,000
Size	19.7 mm diam. 3/4"	12.5 mm square 1/2"	19.7 mm diam. 3/4"	19.7 mm diam. 3/4"	12.5 mm diam. 1/2"
Mounting	PCB/cabling	PCB/cabling	PCB/cabling	PCB/cabling	PCB/cabling
Technology	Cermet	Cermet	Cermet	Cermet	Cermet
Temperature Range	-55 °C +125 °C	-55 °C +125 °C	-55 °C +125 °C	-40 °C + 100 °C	-55 °C +125 °C
Shaft Material	Metal	Metal	Metal	Metal	Metal
Multigang (Y/N)	N	Y	N	N	N
Resistance Range	22 Ω to 10 MΩ	20 Ω to 10 MΩ	20 Ω to 10 MΩ	1 K - 5 K - 10 K and 50 K	20 Ω to 10 MΩ
Variation Laws	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear	Linear/nonlinear
Power Rating (PR)	3 W	1 W	2 W	2 W	1.5 W
Standard Tolerances	20 %	20 % 10 %	20 %	20 % 10 %	20 %
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 IP67 Sealing Panel sealing optional	300° Mech. travel IP67 Sealing Panel sealing optional




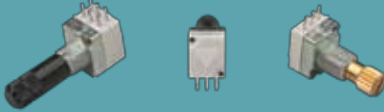




P16	P10	P10L	P11P	249	PE60
					
Medical equipment Goggles Telecom Military	White goods Climatization Toys	White goods Climatization Toys Consumer goods	Welding machines High voltage adjustment	Welding machines Cash dispensers	Aeronautics/military High voltage Rheostat Aeronautic lighting
Low profile Knob included Panel sealing	Economical	High rotational life Economical	All plastic pot High dielectric strength	Plastic bushing and all plastic pot available High dielectric strength	6 W Cables
50,000	10,000	500,000	50,000	25,000	25,000
16 mm diam. (incl. knob) 5/8"	9.5 mm square 3/8"	9.5 mm square 3/8"	12.5 mm square 1/2"	12.7 mm square 1/2"	25 mm diam. 1"
PCB/cabling	PCB	PCB	PCB/cabling	PCB	Cable/connector
Cermet	Cermet	Cermet	Cermet	Cermet	Cermet
-40 °C + 125 °C	-55 °C +125 °C	-40 °C +100 °C	-40 °C +100 °C	-55 °C +125 °C	-55 °C +125 °C
Plastic/metal knob	Plastic	Plastic	Plastic	Plastic/metal	Metal
N	N	N	Y	N	N
20 Ω to 10 MΩ	100 Ω to 2 M	1 K - 5 K - 10 K and 50 K	20 Ω to 10 MΩ	500 Ω to 1 MΩ	1 Ω to 1M
Linear/nonlinear	Linear	Linear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear
1 W	0.5 W	0.1 W	1 W	1 W	6 W
20 %	10 % 5 %	20 % 10 %	20 % 10 %	20 % 10 %	20 % 10 % 5 %
300° Mech. travel IP67 Sealing	290° Mech. travel IP67 Sealing Panel sealing optional	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

P13	PA16	P9	P11A	248
				
Military	Audio Military	Professional audio	Professional audio	Professional audio
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
25,000	50,000	25,000	50,000	25,000
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"
PCB/cabling	PCB/cabling	PCB	PCB/cabling	PCB
Cermet	Conductive plastic	Conductive plastic	Conductive plastic	Conductive plastic
-55 °C +125 °C	-40 °C + 125 °C	-55 °C +100 °C	-55 °C +125 °C	-55 °C +125 °C
Metal	Plastic/metal knob	Metal	Metal	Plastic/metal
N	N	Y	Y	N
20 Ω to 10 MΩ	20 Ω to 10 MΩ	1 KΩ to 1MΩ	1 KΩ to 1 MΩ	500 Ω to 1 MΩ
Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear	Linear/nonlinear
1.5 W	0.5 W	0.1 W	0.5 W	0.5 W
20 % 10 %	20 %	20 % 10 %	20 % 10%	20 %
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



PANEL POTENTIOMETERS

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, 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	
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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WORLDWIDE SALES CONTACTS

THE AMERICAS

UNITED STATES

VISHAY AMERICAS
ONE GREENWICH PLACE
SHELTON, CT 06484
UNITED STATES
PH: +1-402-563-6866
FAX: +1-402-563-6296

ASIA

SINGAPORE

VISHAY INTERTECHNOLOGY ASIA PTE LTD.
25 TAMPINES STREET 92
KEPPEL BUILDING #02-00
SINGAPORE 528877
PH: +65-6788-6668
FAX: +65-6788-0988

P.R. CHINA

VISHAY TRADING (SHANGHAI) CO., LTD.
15D, SUN TONG INFOPORT PLAZA
55 HUAI HAI WEST ROAD
SHANGHAI 200030
P.R. CHINA
PH: +86-21-5258 5000
FAX: +86-21-5258 7979

JAPAN

VISHAY JAPAN CO., LTD.
MG IKENOHATA BLDG. 4F
1-2-18, IKENOHATA
TAITO-KU
TOKYO 110-0008
JAPAN
PH: +81-3-5832-6210
FAX: +81-3-5832-6260

EUROPE

GERMANY

VISHAY EUROPE SALES GMBH
GEHEIMRAT-ROSENTHAL-STR. 100
95100 SELB
GERMANY
PH: +49-9287-71-0
FAX: +49-9287-70435

FRANCE

VISHAY S.A.
199, BLVD DE LA MADELEINE
06003 NICE, CEDEX 1
FRANCE
PH: +33-4-9337-2920
FAX: +33-4-9337-2997

UNITED KINGDOM

VISHAY LTD.
PALLION INDUSTRIAL ESTATE
SUNDERLAND SR4 6SU
UNITED KINGDOM
PH: +44-191-514-4155
FAX: +44-191-567-8262