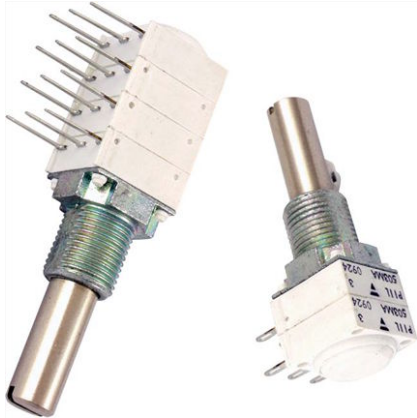


Long Life Cermet Potentiometer 2 Million Cycles



FEATURES

- 2 million cycles
- Cermet element
- 12.5 mm square single turn panel control
- 4, 6 and 6.35 shaft diameters and 29 terminal styles
- Multiple assemblies - up to four modules
- Test according to CECC 41000 or IEC 60393-1
- Low temperature coefficient
- Custom designs on request
- Linearity $\pm 3\%$ ($\pm 2\%$ available)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

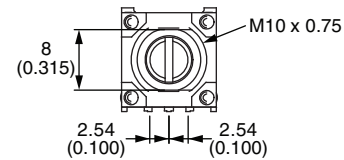
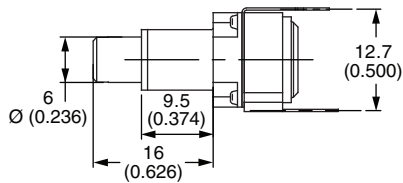


RoHS
COMPLIANT

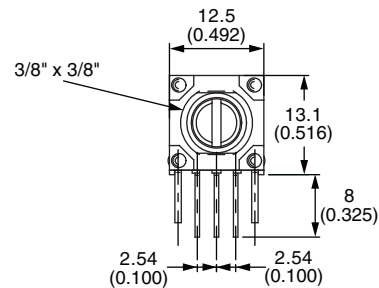
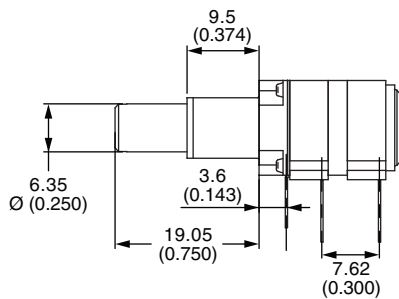
VERSATILE	MODULAR	COMPACT	ROBUST
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CONFIGURATION EXAMPLE - Dimensions in millimeters (inches) ± 0.5 mm (± 0.02 ")

Single module, single shaft, vertical mounting, PC pins with support plate, metric bushing and shaft



Dual modules, single shaft, PC pins with front support plates, imperial bushing and shaft



GENERAL SPECIFICATIONS

ELECTRICAL (initial)							
Resistive Element	Cermet						
Electrical Travel	270° ± 10°						
Standard Resistance Values	1 kΩ, 5 kΩ, 10 kΩ, 50 kΩ						
Tolerance	<table border="0"> <tr> <td style="text-align: center;">Standard</td> <td style="text-align: center;">± 20 %</td> </tr> <tr> <td style="text-align: center;">On Request</td> <td style="text-align: center;">± 5 % or ± 10 %</td> </tr> </table>	Standard	± 20 %	On Request	± 5 % or ± 10 %		
Standard	± 20 %						
On Request	± 5 % or ± 10 %						
Taper	<p>The graph plots % Total Resistance (0 to 100) against % Clockwise Shaft Rotation (0 to 100). Three curves are shown: 'L' (Linear) is a straight line from (0,0) to (100,100); 'A' (Logarithmic) starts at (0,0) and rises more steeply than linear; 'F' (Exponential) starts at (0,0) and rises very steeply, reaching 100% resistance at approximately 60% rotation.</p>						
Circuit Diagram	<p>The diagram shows a potentiometer with three terminals: 'a' (1) at the left end, 'c' (3) at the right end, and 'b' (2) at the wiper. An arrow labeled 'cw' indicates clockwise rotation.</p>						
Power Rating at 70 °C	<table border="0"> <tr> <td style="text-align: center;">Linear Taper</td> <td style="text-align: center;">0.1 W at + 70 °C</td> </tr> <tr> <td style="text-align: center;">Non-Linear Taper</td> <td style="text-align: center;">0.05 W at + 70 °C</td> </tr> <tr> <td style="text-align: center;">Multiple Assemblies</td> <td style="text-align: center;">0.1 W at + 70 °C per module</td> </tr> </table> <p>The graph plots Power in W (0 to 0.10) against Ambient Temperature in °C (0 to 140). Two curves are shown: 'P11L LINEAR TAPER' starts at 0.10 W at 0°C and drops to 0 at 120°C; 'P11L LOG. TAPER' starts at 0.05 W at 0°C and drops to 0 at 120°C.</p>	Linear Taper	0.1 W at + 70 °C	Non-Linear Taper	0.05 W at + 70 °C	Multiple Assemblies	0.1 W at + 70 °C per module
Linear Taper	0.1 W at + 70 °C						
Non-Linear Taper	0.05 W at + 70 °C						
Multiple Assemblies	0.1 W at + 70 °C per module						
Temperature Coefficient (Typical)	± 150 ppm						
Limiting Element Voltage	350 V						
End Resistance (Typical)	2 Ω						
Independent Linearity	± 3 % (± 2 % available)						
Insulation Resistance	10 ⁶ MΩ min.						
Dielectric Strength	1500 V _{RMS} min.						
Attenuation	-						
Mechanical Endurance	2 000 000 cycles						



MECHANICAL (initial)	
Mechanical Travel	300° ± 5°
Operating Torque (Typical) Single and Dual Assemblies Three to Four Modules (Per Module)	0.4 Ncm to 1.7 Ncm max. (0.57 oz.-inch to 2.55 oz.-inch max.) 0.2 Ncm to 0.3 Ncm max. (0.28 oz.-inch to 0.42 oz.-inch max.)
End Stop Torque 4 mm Dia. Shafts 6 mm and 1/4" Dia. Shafts	35 Ncm max. (2.9 lb-inch max.) 80 Ncm max. (6.8 lb-inch max.)
Tightening Torque 7 mm Dia. Bushings 10 mm and 3/8" Dia. Bushings	150 Ncm max. (13 lb-inch max.) 250 Ncm max. (21 lb-inch max.)
Weight	7 g to 9 g per module (0.25 oz. to 0.32 oz.)

ENVIRONMENTAL	
Operating Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	IP64

MARKING
<ul style="list-style-type: none"> • Potentiometer Module Vishay logo, nominal ohmic value, and tolerance (code), identify P11L version, variation law, manufacturing date (four digits), "3" for the lead 3 • Switch Module Version, manufacturing date (four digits), "c" for common lead

PACKAGING
<ul style="list-style-type: none"> • Box

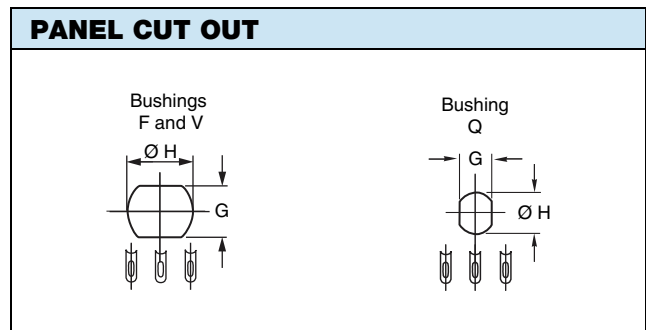
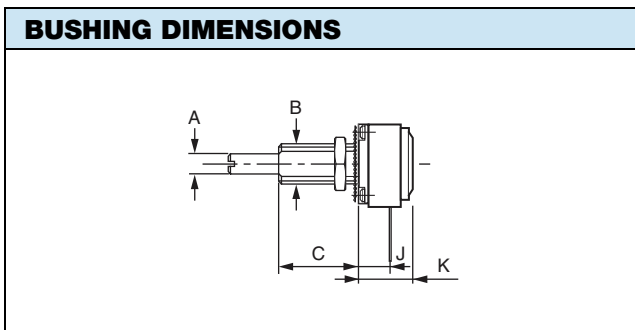
PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	OTHER
Electrical Endurance	1000 h at rated power 90°/30° - ambient temp. 70 °C	± 2 %	-	-
Climatic Sequence	Dry heat at + 125 °C/damp heat cold - 55 °C/damp heat, 5 cycles	± 1 %	-	-
Damp Heat, Steady State	+ 40 °C, 93 % relative humidity 56 days	± 2 %	-	Insulation resistance: > 1000 MΩ
Change of Temperature	- 55 °C to + 125 °C, 5 cycles	± 0.2 %	-	-
Mechanical Endurance	2 million cycles turn angle: ± 60° temperature: 20 °C	± 20 %	-	Independent linearity: ± 10 %
Shock	50 g's, 11 ms 3 shocks - 3 directions	± 0.2 %	± 0.5 %	-
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g's, 6 h	± 0.2 %	-	$\Delta V_{1-2}/V_{1-3} \pm 0.5 \%$



ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL										
P11L	1 2 3 4																

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR TAPER		NON-LINEAR TAPER	
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE
Ω	W	V	W	V
1K	0.1	10.0	0.05	7.1
5K	0.1	22.4	0.05	15.8
10K	0.1	31.6	0.05	22.4
50K	0.1	70.7	0.05	50.0

ORDERING INFORMATION (part number)																															
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A														
MODEL	NUMBER OF MODULES	BUSHING			LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	RESISTANCE CODE/ TOLERANCE/ TAPER OR SPECIAL																						
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Ø</th> <th>L</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>3/8"</td> <td>3/8"</td> </tr> <tr> <td>Q</td> <td>7</td> <td>8</td> </tr> <tr> <td>V</td> <td>10</td> <td>9.5</td> </tr> </tbody> </table>				Ø	L	F	3/8"	3/8"	Q	7	8	V	10	9.5															
	Ø	L																													
F	3/8"	3/8"																													
Q	7	8																													
V	10	9.5																													



BUSHINGS				mm (± 0.5)	mm (± 0.5)	INCHES (± 0.02)
				V	Q	F
A	Shafts	Ø	6	4	1/4	
B	Bushing	Ø	10	7	3/8	
C		L	9.5	8	3/8	
J	Lead versions X.. Y..		7	5	0.278	
K			11.1	9.1	0.436	
G	Panel		8.2	6.2	0.323	
H	Cutout	Ø	10.5	7.5	0.394	
	Thread		0.75	0.75	32 thread/inch	
	Wrench nut		12	10	0.500	

Note

- Hardware supplied in separate bags

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG				SHAFT	SHAFT STYLE	LEADS	RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL							
			A = See table below B = See table below C = See table below 0 = Without peg														

LOCATING PEGS (anti-rotation lug)																			
The locating peg is provided by a plate mounted on the bushing and positioned by the module sides. Four set positions are available, clock face orientation: 12, 3, 6, 9.																			
All P11 bushings have a double flat. When panel mounting holes have been punched accordingly, an anti-rotation lug is not necessary.																			
Locating peg code C not available for bushing Q.																			
		<table border="1"> <thead> <tr> <th>CODE</th><th>Ø d (mm)</th><th>L (mm)</th><th>e (mm)</th></tr> </thead> <tbody> <tr> <td>A</td><td>2</td><td>6.2</td><td>0.7</td></tr> <tr> <td>B</td><td>2</td><td>7.75</td><td>0.7</td></tr> <tr> <td>C</td><td>3.5</td><td>13.5</td><td>1.1</td></tr> </tbody> </table>		CODE	Ø d (mm)	L (mm)	e (mm)	A	2	6.2	0.7	B	2	7.75	0.7	C	3.5	13.5	1.1
CODE	Ø d (mm)	L (mm)	e (mm)																
A	2	6.2	0.7																
B	2	7.75	0.7																
C	3.5	13.5	1.1																
Locating pegs are supplied in separate bags with nuts and washers																			

ORDERING INFORMATION (part number)

P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A																																													
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG	SHAFT				SHAFT STYLE	LEADS	RESISTANCE CODE/ TOLERANCE/ TAPER OR SPECIAL																																																				
				<table border="1"> <tr> <td></td><td>Ø</td><td>L</td> </tr> <tr> <td>AP = Custom shaft</td><td></td><td></td> </tr> <tr> <td>EA</td><td>4</td><td>9.5</td> </tr> <tr> <td>EB</td><td>4</td><td>12.5</td> </tr> <tr> <td>EJ</td><td>4</td><td>22</td> </tr> <tr> <td>FG</td><td>6</td><td>16</td> </tr> <tr> <td>FL</td><td>6</td><td>25</td> </tr> <tr> <td>FR</td><td>6</td><td>50</td> </tr> <tr> <td>GG</td><td>1/4"</td><td>5/8"</td> </tr> <tr> <td>GH</td><td>1/4"</td><td>3/4"</td> </tr> <tr> <td>GJ</td><td>1/4"</td><td>7/8"</td> </tr> <tr> <td>GL</td><td>1/4"</td><td>1"</td> </tr> <tr> <td>GO</td><td>1/4"</td><td>1.5"</td> </tr> </table>					Ø	L	AP = Custom shaft			EA	4	9.5	EB	4	12.5	EJ	4	22	FG	6	16	FL	6	25	FR	6	50	GG	1/4"	5/8"	GH	1/4"	3/4"	GJ	1/4"	7/8"	GL	1/4"	1"	GO	1/4"	1.5"	<table border="1"> <tr> <td>S = Slotted</td> </tr> <tr> <td>R = Round</td> </tr> <tr> <td>F = Flatted</td> </tr> <tr> <td>D = Custom</td> </tr> </table>				S = Slotted	R = Round	F = Flatted	D = Custom								
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SHAFTS - Dimensions in millimeters (inches)

The shaft length is always measured from the mounting face.
 Standard shafts are designed by a 3 letters code (3 digits).
 Shafts slots are aligned to ± 10° of the wiper position.
 All standard shafts are slotted except flatted and splined, see exceptions for bushing.

FLATTED SHAFT

Bushing: F
 Shaft: GHF

SPLINED SHAFT

Bushing: Q
 Shaft: FHK
 Ø 7
 Ø 6
 19

CUSTOM SHAFTS

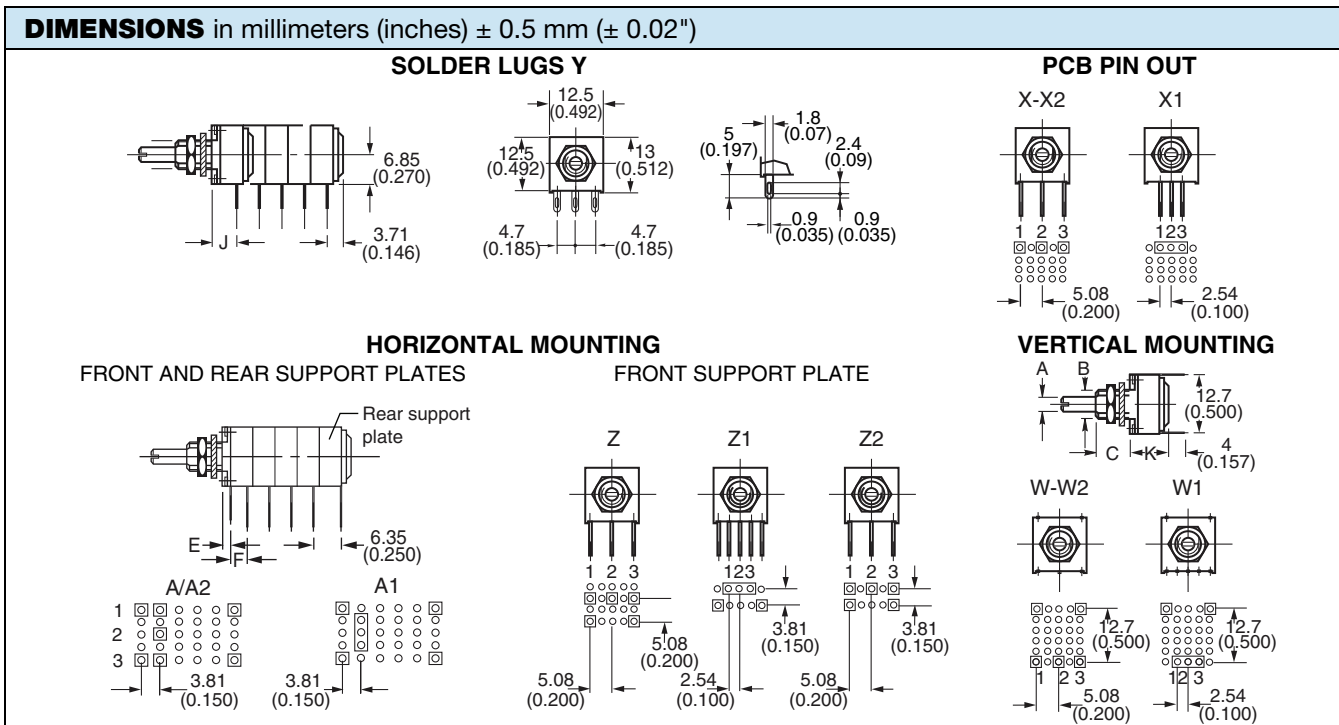
When special shafts are required - flat, threaded ends, special shaft lengths, etc. a drawing is required.

STANDARD COMBINATION OF SHAFT STYLES AND BUSHINGS

SHAFT DIA.	BUSHING CODE	SHAFT LENGTH AND STYLE AVAILABLE IN STANDARD (others on request)					
		FGS	FLS	FRS	GLS	GOS	GHF
6	V						
6.35	F	GGs	GHS	GJS	GLS	GOS	GHF
4	Q	EAS	EBS	EJS	FHK		

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS						RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL					
						Available leads											
						A00 W00 X00 Y00 Z00											
						A10 W10 X03 Y03 Z03											
						A13 W20 X04 Y04 Z04											
						A14 X10 Z10											
						A20 X13 Z13											
						A23 X14 Z14											
						A24 X20 Z20											
						X23 Z23											
						X24 Z24											

FIRST DIGIT		SECOND DIGIT		THIRD DIGIT	
Y	Soldering lugs	0	Y = 4.65 (0.183") A, X, Z, W = 5.08 (0.200") pin spacing pins section 0.9 x 0.3 (0.035" x 0.012")	0	5.08 (0.200") space between modules
X	PCB pins	1	2.54 (0.100") pin spacing pin section 0.6 x 0.3 (0.024" x 0.012")	3	7.62 (0.300") space between modules
Z	PCB pins with front support plate	2	5.08 (0.200") pin spacing pins section 0.6 x 0.3 (0.024" x 0.012")	4	10.16 (0.400") space between modules
A	PCB pins with front and back support plates				
W	PCB pins - vertical mounting with 2 extra pins - 1 module only				



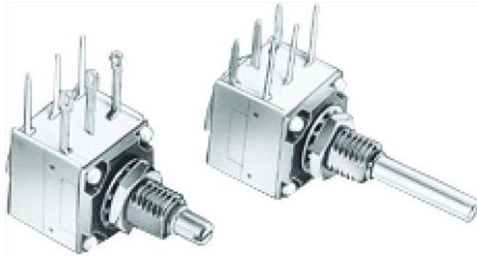
THE POSITION OF EACH MODULE IS FREE

BUSHINGS	MILLIMETERS (± 0.5)		INCHES (± 0.02)	
	V	Q	F	
E Leads Z00	3.85	1.85	0.150	
E Leads Z1, Z2, A..	3.6	1.6	0.140	
F	Leads Z0: 5.08 (0.200")		Leads A...Z1, Z2: 3.81 (0.150")	
J Leads X.. Y..	7	5	0.278	

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	RESISTANCE CODE/ TOLERANCE/ TAPER OR SPECIAL										
							Resistance code: 1K = 102 5K = 502 10K = 103 50K = 503 Tolerance code: Standard: M = ± 20 % On request: K = ± 10 %, J = ± 5 % Taper: A, L, F or special code given by Vishay										

SPECIAL CODES GIVEN BY VISHAY
Option available: <ul style="list-style-type: none"> • Custom shaft • Specific design on request • Specific linearity • Multiple assemblies with various modules

APPLICATION NOTE	
<p>The potentiometer shall be used in voltage divider with an impedance load at least 100 times higher than the total potentiometer nominal resistance value.</p> <p>Advised load impedance: 1 MΩ min. for resistance range of 1 kΩ to 50 kΩ</p>	

P11L OPTION: ROTARY SWITCH MODULES


- Rotary switches
- Current up to 2 A
- Actuation CW or CCW position
- Sealing IP60

**MODULES: RS ON/OFF SWITCH
RSI CHANGEOVER SWITCH**

The position of each module is free.

RS and RSI rotary switches are housed in a standard P11L module size 12.7 mm x 12.7 mm x 5.08 mm (0.5" x 0.5" x 0.2"). They have the same terminal styles as the assembled electrical modules.

An assembly can comprise 1 or more switch modules.

Switch actuation is described as seen from the shaft end.

D: Means actuation in maximum CCW position

F: Means actuation in maximum CW position

The switch actuation travel is 25° with a total mechanical travel of 300° ± 5° and electrical travel of electrical modules is 238° ± 10°.

Leads finish: Gold plated

RDS SINGLE POLE SWITCH, NORMALLY OPEN

In full CCW position, the contact between 1 and 3 is open. It is made at the beginning of the travel in CW direction.

RSF SINGLE POLE SWITCH, NORMALLY OPEN

In full CW position, the contact between 1 and 3 is open. It is made at the beginning of the travel in CCW direction.

RSID SINGLE POLE CHANGEOVER

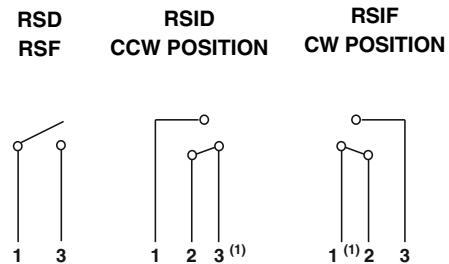
In full CCW position, the contact is made between 3 and 2 and open between 3 and 1. Switch actuation (CW direction) reverses these positions.

RSIF SINGLE POLE CHANGEOVER

In full CW position, the contact is made between 1 and 2 and open between 1 and 3. Switch actuation (CCW direction) reverses these positions.

SWITCH SPECIFICATIONS

Switching Power Maximum		0.5 VA =
Switching Current Maximum		0.1 A, 5 V =
Maximum Current Through Element		2 A
Contact Resistance		100 mΩ
Dielectric Strength	Terminal to Terminal	1000 V _{RMS}
	Terminal to Bushing	2000 V _{RMS}
Maximum Voltage Operation		5 V =
Insulation Resistance Between Contacts		10 ⁶ MΩ
Life at P _{max.}		100 000 actuations
Minimal Travel		25°
Operating Temperature		- 40 °C to + 85 °C

ELECTRICAL DIAGRAM

Note

(1) Common

ORDERING INFORMATION (First order only)

RSID

RSD	SPST: Single pole, open switch in CCW position - 2 pins
RSF	SPST: Single pole, open switch in CW position - 2 pins
RSID	SPDT: Single pole, changeover switch in CCW position - 3 pins
RSIF	SPDT: Single pole, changeover switch in CW position - 3 pins

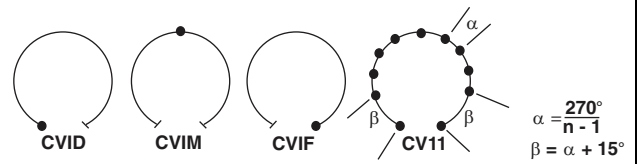
P11L OPTION: DETENT MODULES

The detents mechanism is housed in a standard P11L module.
Up to 21 detent positions available.

Count detents as follows: 1 for CCW position, 1 for full CW position, plus the other positions forming equal resistance increments (linear taper) - not equal angles.

Available: CVID - CVIF - CVIM
CV3 - CV11 - CV21

Mechanical endurance: 50 000 cycles



ORDERING INFORMATION (First order only for special code creation)

CV1M

- CV1M** 1 detent at half travel
- CV1D** 1 detent at CCW position
- CV1F** 1 detent at CW position
- CV3** 3 detents
- CV11** 11 detents
- CV21** 21 detents

P11L OPTION: NEUTRAL MODULES "EN"

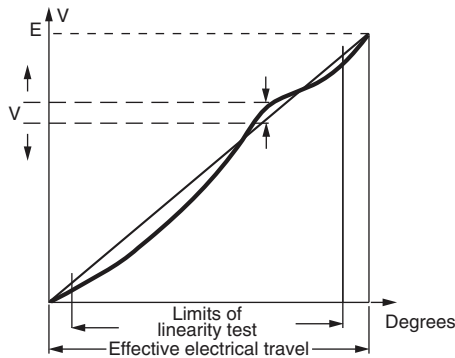
Neutral or screen module is housed in a standard P11L module.
It is used as a screen between two electrical modules.
The leads can be connected to ground.

ORDERING INFORMATION (First order only for special code creation)

EN

EN Neutral module

P11L OPTION: SPECIAL LINEARITY - CONFORMITY



The independent linearity (conformity for the non-linear laws) is the maximum gap ΔV between the actual variation curve and the theoretical variation curve the nearest to it. The linearity and the conformity are expressed in percentage of the total applied voltage E

$$\text{linearity conformity} = \frac{\pm \Delta V_{\max}}{E}$$

They are measured over 90 % of actual electrical travel (centered).
On request linearity can be guaranteed in linear taper.

ORDERING INFORMATION (First order only)

J123

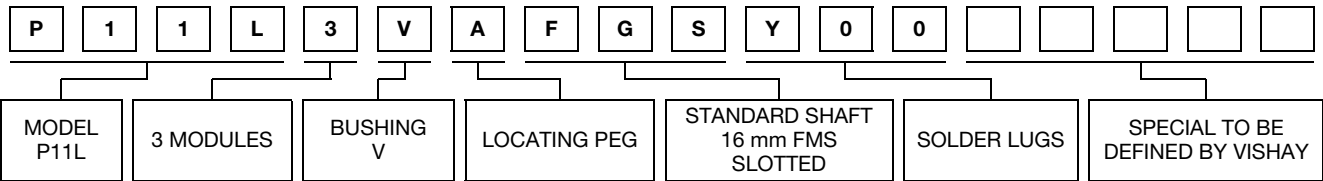
- J123** Independent linearity $\pm 3\%$ (linear law)
- J145** Independent linearity $\pm 2\%$ (linear law)

For other request, contact us.



EXAMPLES OF FIRST ORDER INFORMATION

FIRST EXAMPLE: Triple module (switch is counted as a module)



ORDERING INFORMATION:

PART NUMBER	P11L3VAFGSY00.....
SHAFT AND BUSHING	See drawing of special shaft attached
MODULE NO. 1	503 M A
MODULE NO. 2	103 M A J123
MODULE NO. 3	503 M A

PART NUMBER DESCRIPTION (used on some Vishay document or label, for information only)

P11L	3	V	A	FG	S	Y00				T1927		e3
MODEL	MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	VALUE	TOL.	TAPER	SPECIAL	SPECIAL	LEAD (Pb)-FREE



Disclaimer

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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