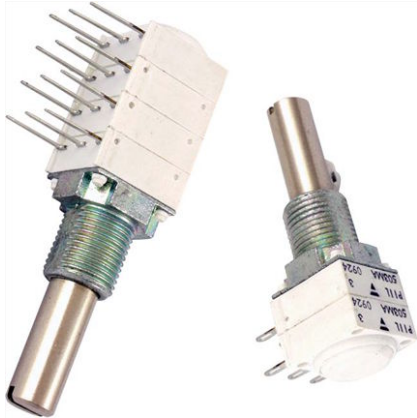


## Long Life Cermet Potentiometer 2 Million Cycles



### 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](http://www.vishay.com/doc?99912)

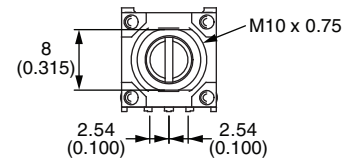
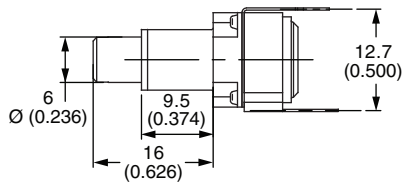


**RoHS**  
COMPLIANT

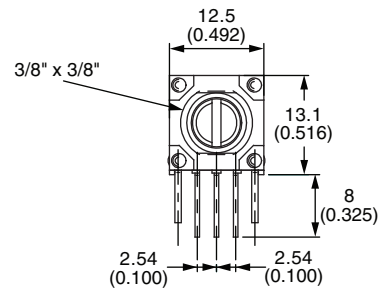
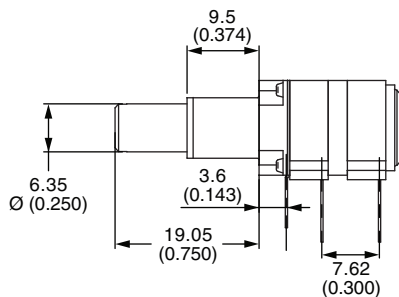
VERSATILE	MODULAR	COMPACT	ROBUST
-----------	---------	---------	--------

### CONFIGURATION EXAMPLE - Dimensions in millimeters (inches) $\pm 0.5$ mm ( $\pm 0.02$ " )

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;"><b>Standard</b></td> <td style="text-align: center;">± 20 %</td> </tr> <tr> <td style="text-align: center;"><b>On Request</b></td> <td style="text-align: center;">± 5 % or ± 10 %</td> </tr> </table>	<b>Standard</b>	± 20 %	<b>On Request</b>	± 5 % or ± 10 %		
<b>Standard</b>	± 20 %						
<b>On Request</b>	± 5 % or ± 10 %						
Taper							
Circuit Diagram							
Power Rating at 70 °C	<table border="0"> <tr> <td style="text-align: center;"><b>Linear Taper</b></td> <td style="text-align: center;">0.1 W at + 70 °C</td> </tr> <tr> <td style="text-align: center;"><b>Non-Linear Taper</b></td> <td style="text-align: center;">0.05 W at + 70 °C</td> </tr> <tr> <td style="text-align: center;"><b>Multiple Assemblies</b></td> <td style="text-align: center;">0.1 W at + 70 °C per module</td> </tr> </table>	<b>Linear Taper</b>	0.1 W at + 70 °C	<b>Non-Linear Taper</b>	0.05 W at + 70 °C	<b>Multiple Assemblies</b>	0.1 W at + 70 °C per module
<b>Linear Taper</b>	0.1 W at + 70 °C						
<b>Non-Linear Taper</b>	0.05 W at + 70 °C						
<b>Multiple Assemblies</b>	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 <sup>6</sup> MΩ min.						
Dielectric Strength	1500 V <sub>RMS</sub> min.						
Attenuation	-						
Mechanical Endurance	2 000 000 cycles						



<b>MECHANICAL</b> (initial)	
Mechanical Travel	300° ± 5°
Operating Torque (Typical)	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	35 Ncm max. (2.9 lb-inch max.) 80 Ncm max. (6.8 lb-inch max.)
Tightening Torque	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.)

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

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

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

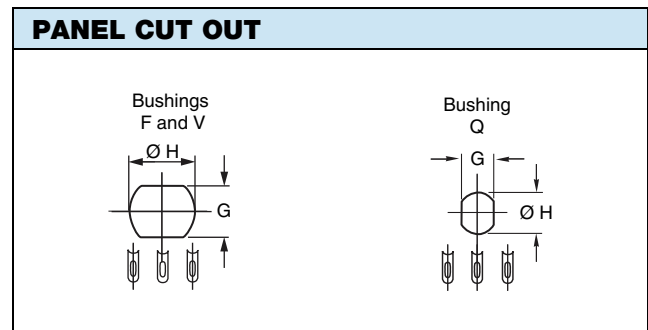
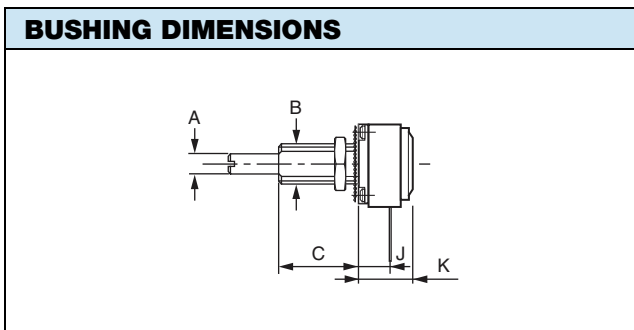
<b>PERFORMANCES</b>				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	OTHER
Electrical Endurance	1000 h at rated power 90°/30° - ambient temp. 70 °C	± 2 %	-	-
Climatic Sequence	Dry heat at + 125 °C/damp heat cold - 55 °C/damp heat, 5 cycles	± 1 %	-	-
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
<b>MODEL</b>	<b>NUMBER OF MODULES</b>		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"> <tr> <td></td><td>∅</td><td>L</td></tr> <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> </table>				∅	L	F	3/8"	3/8"	Q	7	8	V	10	9.5															
	∅	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	∅	6	4	1/4	
B	Bushing	∅	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	∅	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" style="width: 100%; text-align: center;"> <tr> <th></th> <th>Ø</th> <th>L</th> </tr> <tr> <td colspan="3">AP = Custom shaft</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"	<p>S = Slotted R = Round F = Flatted D = Custom</p>		
	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"																																																

**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.

<p><b>FLATTED SHAFT</b></p> <p>Bushing: F Shaft: GHF</p>	<p><b>SPLINED SHAFT</b></p> <p>Bushing: Q Shaft: FHK</p>
--	--

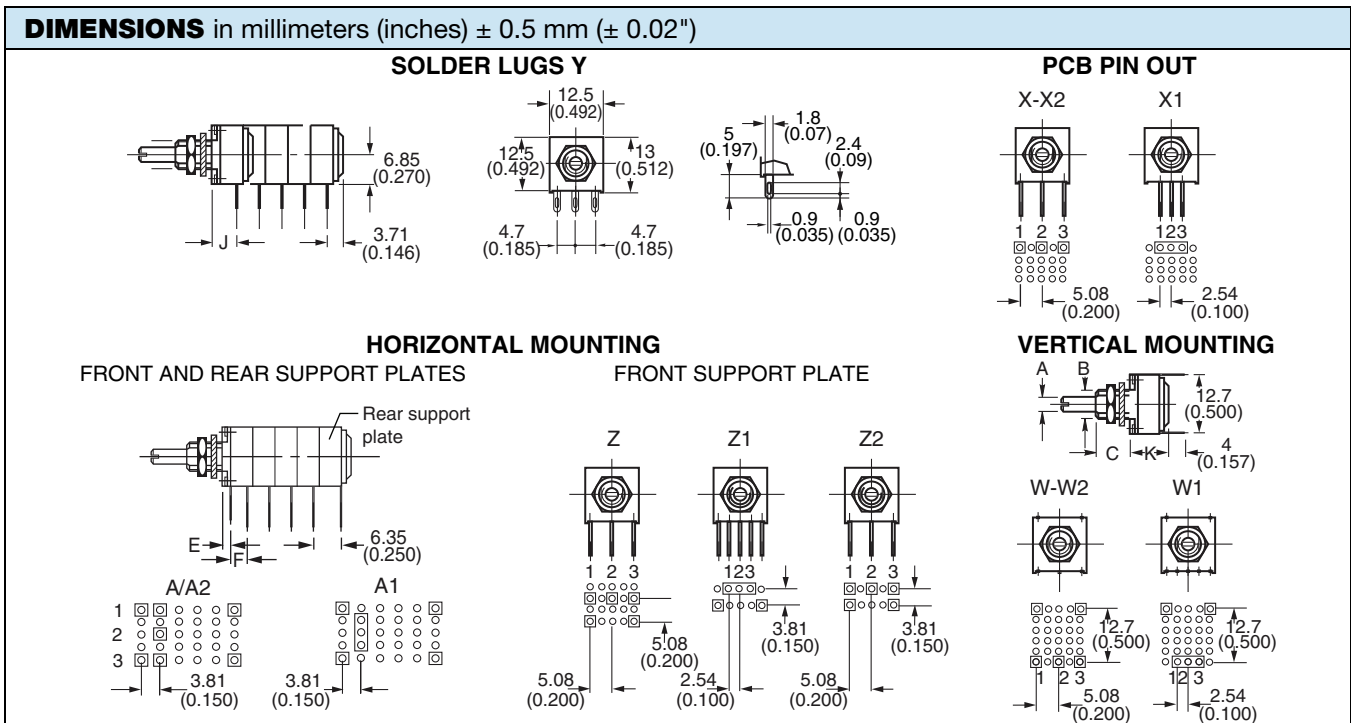
**CUSTOM SHAFTS**  
 When special shafts are required - flat, threaded ends, special shaft lengths, etc. a drawing is required.

**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	FGS	FLS	FRS			
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				



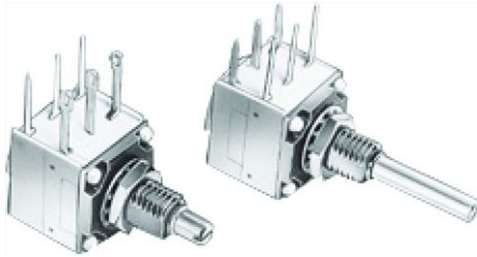
THE POSITION OF EACH MODULE IS FREE			
BUSHINGS	MILLIMETERS (± 0.5)		INCHES (± 0.02)
	V	Q	F
E Leads Z00	3.85	1.85	0.150
E Leads Z1, Z2, A..	3.6	1.6	0.140
F	Leads Z0: 5.08 (0.200")		Leads A...Z1, Z2: 3.81 (0.150")
J Leads X.. Y..	7	5	0.278



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"> <li>• Custom shaft</li> <li>• Specific design on request</li> <li>• Specific linearity</li> <li>• Multiple assemblies with various modules</li> </ul>

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**

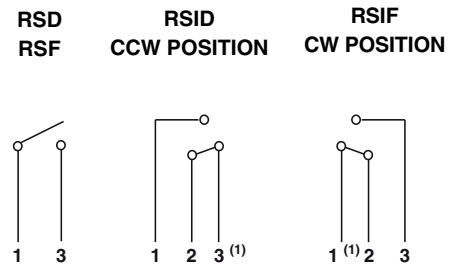
In full CCW position, the contact is made between 3 and 2 and open between 3 and 1. Switch actuation (CW direction) reverses these positions.

**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 <sub>RMS</sub>
	Terminal to Bushing	2000 V <sub>RMS</sub>
Maximum Voltage Operation		5 V =
Insulation Resistance Between Contacts		10 <sup>6</sup> MΩ
Life at P <sub>max.</sub>		100 000 actuations
Minimal Travel		25°
Operating Temperature		- 40 °C to + 85 °C

**ELECTRICAL DIAGRAM**

**Note**

(1) Common

**ORDERING INFORMATION** (First order only)

**RSID**

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

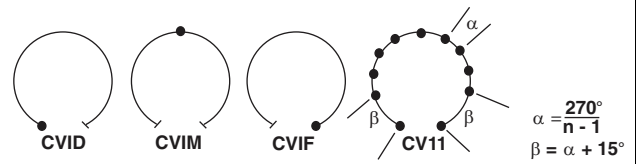
**P11L OPTION: DETENT MODULES**

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"**

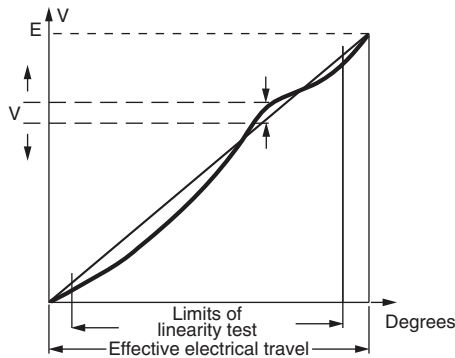
Neutral or screen module is housed in a standard P11L module. It is used as a screen between two electrical modules. The leads can be connected to ground.

**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  $\Delta V$  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**

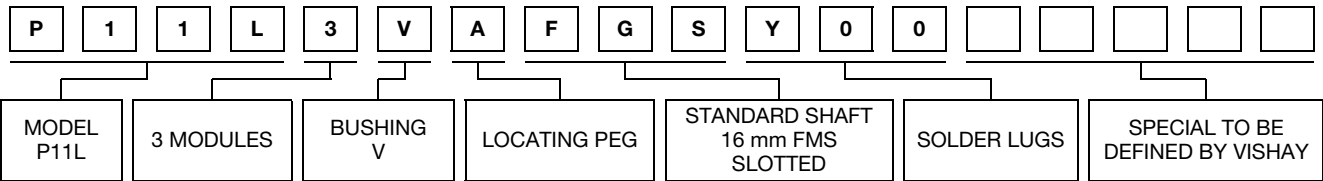
- J123** Independent linearity  $\pm 3\%$  (linear law)
- J145** Independent linearity  $\pm 2\%$  (linear law)

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

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

## 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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.