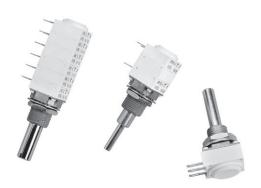


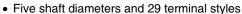
COMPLIANT

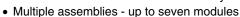
12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)



FEATURES





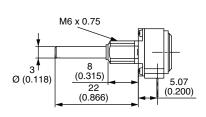


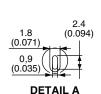
- Tests according to CECC 41000 or IEC 60393-1
- GAM T1
- P11S version for industrial, military and aeronautics applications
- P11A version for professional audio applications
- · Low current compatibility
- Shaft and panel sealed version
- Up to twenty-one indent positions
- Rotary and push/push switch options
- · Concentric shafts
- · Custom designs on request
- Trimmer version T11 (see document no. 51021)
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

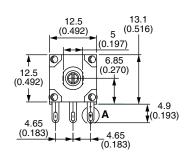
VERSATILE MODULAR COMPACT ROBUST

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

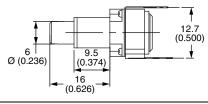
Single module, single shaft, solder lugs, metric bushing and shaft

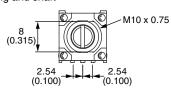




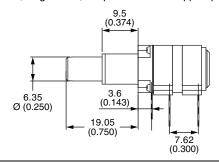


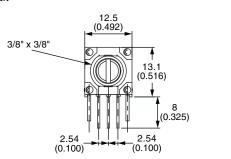
Single module, single shaft, vertical mounting, PC pins with support plate, metric bushing and shaft





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





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For technical questions, contact: sfer@vishay.com
See also Application Note: www.vishay.com/doc?51001 and www.vishay.com/doc?52029

Document Number: 51031 Revision: 19-Mar-12



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GENERAL SPECIFICATIONS

ELECTRICAL (initial)			
ELECTRICAL (IIIIIai)	P11A	P11S	
Resistive Element	Conductive plastic	Cermet	
Electrical Travel	270° ± 10°	270° ± 10°	
Linear Taper	1 kΩ to 1 MΩ	20 Ω to 10 MΩ	
Resistance Range (1) Non Linear Taper	470 Ω to 500 kΩ	100 Ω to 2.2 M Ω	
Standard	± 20 %	± 20 %	
Tolerance On Request	± 20 /6	± 5 % or ± 10 %	
On nequest		10 % 01 1 10 %	
Taper	31° Elect	W S S V S S S S S S S S S S	
Circuit Diagram	$ \begin{array}{c} a \\ \bigcirc \\ (1) \\ b \\ \downarrow \\ c \\ (2) \end{array} $ $ \begin{array}{c} c \\ (3) \\ (3) $		
Linear Taper	0.5 W at + 70 °C	1 W at + 70 °C	
Non-Linear Taper	0.25 W at + 70 °C	0.5 W at + 70 °C	
Multiple Assemblies	0.25 W at + 70 °C per module	0.5 W at + 70 °C per module	
Power Rating at 70 °C	P11S Linear Taper O.5 P11S Non-Linear Taper O.25 P11A Non-Linear Taper O 10 20 30 40 50 6	60 70 80 90 100 110 120 130 Ambient Temperature (°C)	
Temperature Coefficient (Typical)	± 500 ppm	± 150 ppm	
Limiting Element Voltage	350 V	350 V	
End Resistance (Typical)	2 Ω	2 Ω	
Contact Resistance Variation (Typical) Linear Taper	1 %	2 % or 3 Ω	
		· · · · · · · · · · · · · · · · · · ·	
Independent Linearity (Typical) Linear Taper	± 5 %	± 5 %	
Independent Linearity (Typical) Linear Taper Insulation Resistance	\pm 5 % 10^6 M Ω min.	$\pm 5 \%$ $10^6 \mathrm{M}\Omega \mathrm{min}.$	
Insulation Resistance	10^6 M Ω min.	10^6 M Ω min.	

Note

(1) Consult Vishay Sfernice for other ohmic values

12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)



MECHANICAL (initial)	
Mechanical Travel	300° ± 5°
Operating Torque (Typical)	
Single and Dual Assemblies Three to Seven Modules (Per Module)	0.4 Ncm to 1.8 Ncm max. (0.57 ozinch to 2.55 ozinch max.) 0.2 Ncm to 0.3 Ncm max. (0.28 ozinch to 0.42 ozinch max.)
End Stop Torque (All Bushing Except G and Concentric Shaft Configuration)	
3 mm, 4 mm, and 1/8" 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.)
End Stop Torque for Bushing G	
All Shafts Dia.	40 Ncm max. (3.4 lb-inch max.)
End Stop Torque for Concentric Shaft Configuration	
3 mm and 1/8" Dia. Shafts 6 mm and 1/4" Dia. Shafts	25 Ncm max. (2.1 lb-inch max.) 80 Ncm max. (6.8 lb-inch max.)
Tightening Torque	
6 mm, 7 mm, and 1/4" 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						
	P11A	P11S				
Operating Temperature Range	- 55 °C to + 125 °C	- 55 °C to + 125 °C				
Climatic Category	55/125/21	55/125/56				
Sealing	IP64	IP64				

MARKING

• Potentiometer Module

Vishay logo, nominal ohmic value $(\Omega, k\Omega, M\Omega)$, two stars identify P11A version, tolerance in % - variation law, manufacturing date (four digits), "3" for the lead 3

- Switch Module
 - Version, manufacturing date (four digits), "c" for common lead
- Indent Module
 - Version, manufacturing date (four digits)

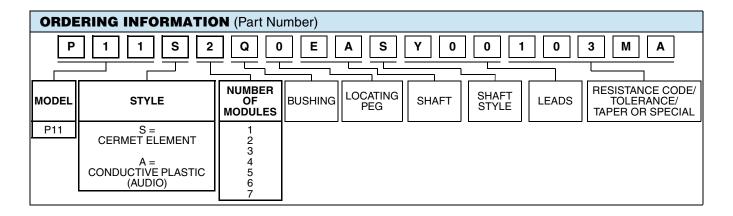
PACKAGING

Box

PERFORMANCES								
TESTS	CONDITIONS	TYPICA	TYPICAL VALUE AND DRIFTS					
12313	CONDITIONS		P11S	P11A				
Electrical Endurance	1000 h at rated power 90'/30' - ambient temp. 70 °C	$\Delta R_{\rm T}/R_{\rm T}$ Contact resistance variation	± 2 % ± 4 %	± 10 % ± 5 %				
Change of Temperature	- 55 °C to + 125 °C, 5 cycles	$\Delta R_{T}/R_{T}$	± 0.2 %	± 0.5 %				
Damp Heat, Steady State	+ 40 °C, 93 % relative humidity P11S: 56 days, P11A: 21 days	$\Delta R_{ m T}/R_{ m T}$ Insulation resistance	± 2 % > 1000 MΩ	± 5 % > 10 MΩ				
Mechanical Endurance	50 000 cycles	$\Delta R_{\rm T}/R_{\rm T}$ Contact resistance variation	± 5 % ± 5 %	±6% ±4%				
Climatic Sequence	Dry heat at + 125 °C/damp heat cold - 55 °C/damp heat, 5 cycles	$\Delta R_{T}/R_{T}$	± 1 %	-				
Shock	Shock 50 g's, 11 ms 3 shocks - 3 directions		± 0.2 % ± 0.5 %	± 0.2 % ± 0.5 %				
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g's, 6 h	$\Delta R_{T}/R_{T} \ \Delta V_{1-2}/V_{1-3}$	± 0.2 % ± 0.5 %	± 0.2 % ± 0.5 %				



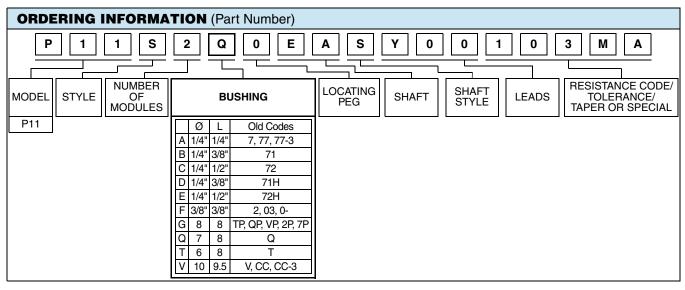
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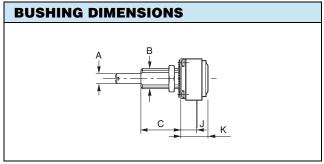


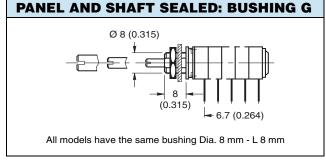
STANDA	STANDARD RESISTANCE ELEMENT DATA											
			P11S C	ERMET			P11A CONDUCTIVE PLASTIC					
STANDARD		LINEAR TAF	PER	NO	N LINEAR 1	TAPER	ı	LINEAR TAF	PER	NO	N LINEAR 1	APER
RESISTANCE VALUES	WAA.		MAX. CUR. THROUGH WIPER	POWER	MAX. WORKING VOLTAGE			MAX. WORKING VOLTAGE	MAX. CUR. THROUGH WIPER			MAX. CUR. THROUGH WIPER
Ω	W	٧	mA	W	V	mA	W	V	mA	W	٧	mA
22 47 50 100	1 1 1 1	4.69 6.86 7.07 10.0	213 146 141 100	0.5	7.07	70.7						
220 470 500	1 1 1	14.8 21.7 22.4	67.4 46.1 44.7	0.5 0.5 0.5	10.5 15.3 15.8	47.7 32.6 31.6				0.25	11.2	22.4
1K 2.2K 4.7K	1 1 1	31.6 46.9 63.6	31.6 21.3 14.5	0.5 0.5 0.5	22.4 33.2 48.5	22.4 15.1 10.3	0.5 0.5 0.5	22.4 33.2 48.5	22.4 15.1 10.3	0.25 0.25 0.25	15.8 23.5 34.3	15.8 10.7 7.29
5K 10K 22K	1 1	70.7 100 148	14.1 10.0 6.74	0.5 0.5 0.5	50.0 70.7 105	10.0 7.07 4.77	0.5 0.5 0.5	50.0 70.7 105	10.0 7.07 4.77	0.25 0.25 0.25	35.4 50.0 74.2	7.07 5.00 3.37
47K 50K	1	217 224	4.61 4.47	0.5 0.5	153 158	3.26 3.16	0.5 0.5	153 158	3.26 3.16	0.25 0.25	108 112	2.31 2.24
100K 220K 470K 500K	0.56 0.26 0.25	316 350 350 350	3.16 1.59 0.75 0.70	0.5 0.5 0.26 0.25	224 332 349 350	2.24 1.51 0.74 0.70	0.5 0.5 0.26 0.25	224 332 350 350	2.24 1.51 0.74 0.70	0.25 0.25 0.25 0.25	158 235 343 350	1.58 1.07 0.73 0.70
1M 2.2M 4.7M 5M 10M	0.12 0.56 0.26 0.25 0.12	350 350 350 350 350	0.35 0.16 0.074 0.070 0.035	0.12 0.056	350 350	0.35 0.16	0.12	350	0.35			

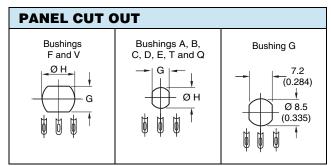
12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)

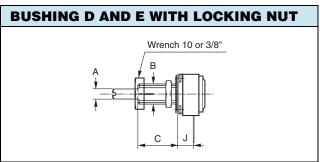












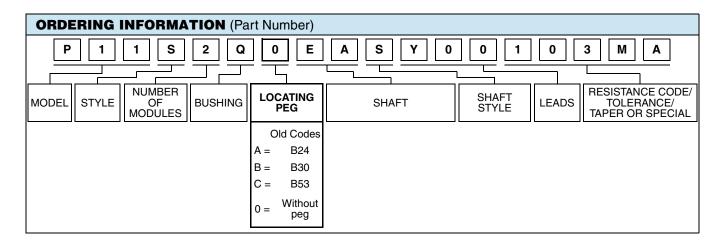
	BUSHINGS		G	Т	Q	V	Α	В	С	D	E	F
	возпіназ		DI	MENSION	S mm (± 0	.5)		DIME	NSIONS I	INCHES (± 0.02)		
Α	Shafts	Ø	All Dia.	3	4	6	1/8"	1/8"	1/8"	1/8"	1/8"	1/4"
В	Bushing	Ø	8	6	7	10	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
С		L	8	8	8	9.5	1/4"	3/8"	1/2"	3/8"	1/2"	3/8"
J	Lead versions X Y		6.7	5	5	7	0.200	0.200	0.200	0.200	0.200	0.278
	K		10.4	9.1	9.1	11.1	0.357	0.357	0.357	0.357	0.357	0.436
G	Panel		7.2	5.2	6.2	8.2	0.197	0.197	0.197	0.197	0.197	0.323
Н	Cutout	Ø	8.5	6.5	7.5	10.5	0.268	0.268	0.268	0.268	0.268	0.394
	Thread			0.	75				32 threa	ads/inch		
	Wrench nut		12	8	10	12	0.313	0.313	0.313	0.313	0.313	0.500
	Style									Slotted	Slotted	

Notes

- Hardware supplied in separate bags
- Slotted bushing for locking nut option



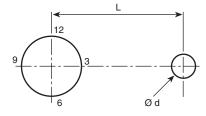
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LOCATING PEGS (Anti-Rotation Lug)

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.

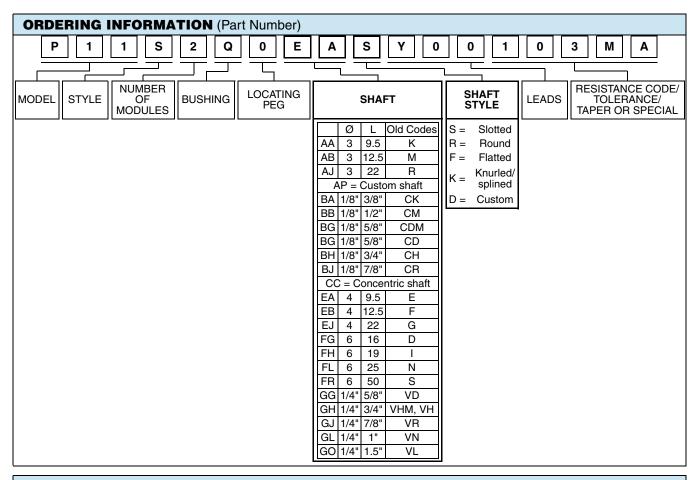


CODE	VERSION	BUSHING A, B, C, D, E, T, Q	BUSHING F, V	EFFECTIVE HIGH PEG
Α	Ø d mm	2	2	0.7
	L mm	6.2	6.2	
В	Ø d mm	2	2	0.7
В	L mm	7.75	7.75	
С	Ø d mm	-	3.5	1.1
	L mm	-	13.5	

Locating pegs are supplied in separate bags with nuts and washers

12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)



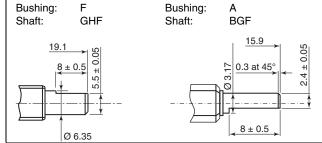


SHAFTS in millimeters ± 0.5

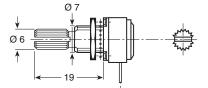
The shaft length is always measured from the mounting face. Standard shafts are designed by a 3 letters code (3 digits). Shafts slots are aligned to \pm 10° of the wiper position.

All standard shafts are slotted except flatted and splined, see exeptions for bushing.

FLATTED SHAFT



BUSHING: Q SPLINED SHAFT: FHK



CUSTOM SHAFTS

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

STANDARD	STANDARD COMBINATION OF SHAFT STYLES AND BUSHINGS										
SHAFT DIA.	BUSHING CODE	SHAFT	LENGTH AND	STYLE AVAILA	BLE IN STANDAI	RD (Others on re	equest)				
3	Т	AAS	ABS	AJS							
3.17	Α	BAS	BBS	BGS	BGF	BHS	BJS				
3.17	В	BBS	BGS	BHS	BJS						
3.17	С	BGS	BHS	BJS							
4	Q	EAS	EBS	EJS	FHK						
6	V	FGS	FLS	FRS							
6.35	F	GGS	GHS	GJS	GLS	GOS	GHF				

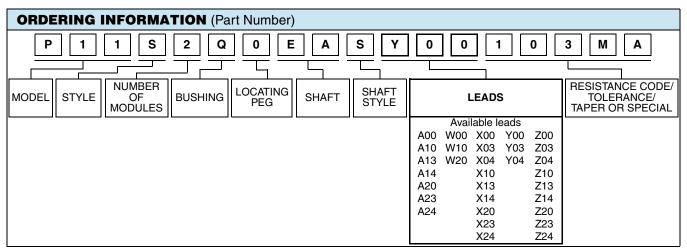
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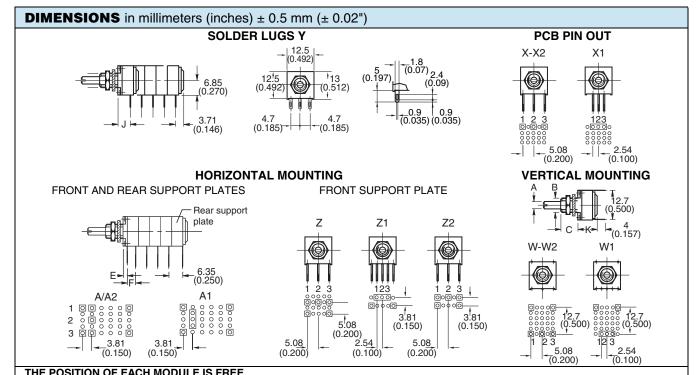
FIRST DIGIT Y Soldering lugs X PCB pins Z PCB pins with front support plate

- A PCB pins with front and back support plates

 PCB pins 1 module only
- SECOND DIGIT
- 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")
- 1 2.54 (0.100") pin spacing pin section 0.6 x 0.3 (0.024" x 0.012")
- 2 5.08 (0.200") pin spacing pins section 0.6 x 0.3 (0.024" x 0.012")

THIRD DIGIT

- 5.08 (0.200") space between modules
 7.62 (0.300") space between modules
- 4 10.16 (0.400") space between modules



1111	THE POSITION OF EACH MODULE IS FREE										
	BUSHINGS		Т	Q	٧	Α	В	С	D	E	F
	возніказ	DIMENSIONS mm (± 0.5)					DIME	NSIONS	INCHES (± 0.02)	
Е	Leads Z00	3.15	1.85	1.85	3.85	0.071	0.071	0.071	0.071	0.071	0.150
E	Leads Z1. Z2. A	2.8	1.6	1.6	3.6	0.063	0.063	0.063	0.063	0.063	0.140
	F	Le	eads Z0.: 5	5.08 (0.200)")		Lead	s A Z1. Z	2 2.: 3.81 (0	0.150")	
J	Leads X Y	6.7	5	5	7	0.200	0.200	0.200	0.200	0.200	0.278
Е	Leads Z0. with Rotary Switch	1.45	0.15	0.15	2.15	0.006	0.006	0.006	0.006	0.006	0.0846

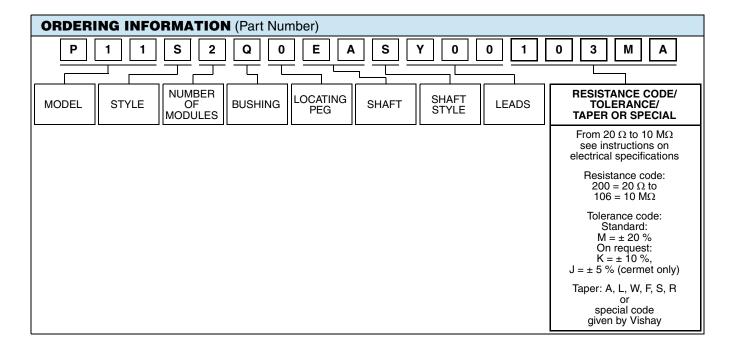
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12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)



Revision: 19-Mar-12



SPECIAL CODES GIVEN BY VISHAY

Option available:

- Custom shaft
- Custom design on request
- · Specific linearity
- · Specific interlinerarity
- · Specific taper
- Multiple assemblies with various modules



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P11 OPTION: ROTARY SWITCH MODULES



- · Rotary switchs
- 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 P11 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 $300^{\circ} \pm 5^{\circ}$ and electrical travel of electrical modules is $238^{\circ} \pm 10^{\circ}$.

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.

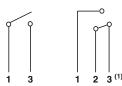
RSIF SINGLE POLE CHANGEOVER

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 Pov	62.5 VA v 15 VA =						
Switching Cur	rrent Maximum	0.25 A 250 V v 0.5 A 30 V =					
Maximum Cu	rrent Through Element	2 A					
Contact Resis	Contact Resistance						
Dielectric	Terminal to Terminal	1000 V _{RMS}					
Strength	Terminal to Bushing	2000 V _{RMS}					
Maximum Vol	tage Operation	250 V v 30 V =					
Insulation Res	sistance Between Contacts	$10^6\mathrm{M}\Omega$					
Life at P _{max} .	Life at P _{max.}						
Minimal Trave	l	25°					
Operating Ter	mperature	- 40 °C to + 85 °C					

ELECTRICAL DIAGRAM

RSD	RSID	RSIF
RSF	CCW POSITION	CW POSITION





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

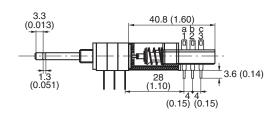
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12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)



P11 OPTION: PUSH/PUSH OR MOMENTARY/PUSH SWITCH MODULES



- · Push/push or momentary push
- Current up to 2 A
- Sealing IP60

MODULES: PUSH/PUSH SWITCH RSPP MOMENTARY/PUSH SWITCH RSMP

They have to be the last element of potentiometer

Options:

2 reversing switches F2 4 reversing switches F4 6 reversing switches F6 8 reversing switches F8

Not available with panel sealed option.

Number of modules before the switch limited to 3 modules. Length of shaft (FMF) 25 mm maximum.

RSPP F2: PUSH/PUSH SWITCH WITH TWO REVERSING **SWITCHES**

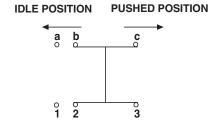
Idle position: The contact is made between 1 and 2 and a and b. It is open between 2 and 3 and b and c.

Pushed position: The contact is made between 2 and 3 and b and c. It is open between 1 and 2 and a and b.

SWITCH SPECIFICATIONS						
Switching Pov	Switching Power Maximum					
Switching Cur	rent Maximum	0.5 A v				
Maximum Cui	rrent Through Element	2 A				
Contact Resis	Contact Resistance					
Dielectric	Terminal to Terminal	1500 V _{RMS}				
Strength	Terminal to Bushing	2000 V _{RMS}				
Maximum Vol	tage Operation	250 V v				
Insulation Res	sistance Between Contacts	$10^3\mathrm{M}\Omega$				
Life at P _{max.}	Life at P _{max.}					
Minimal Trave	3.3 mm to 4.7 mm					
Operating Ter	nperature	- 40 °C to + 70 °C				

ELECTRICAL DIAGRAM

RSPP F2



ORDERING INFORMATION (First order only for special code creation)

RSPP

F2

RSPP: Push/push

RSMP: Momentary/push

F2: 2 reversing switches (standard version)

F4: 4 reversing switches F6: 6 reversing switches

F8: 8 reversing switches



Vishay Sfernice

P11 OPTION: CONCENTRIC SHAFTS

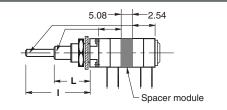
The CC concentric shaft versions allies the total flexibility of the P11 modular system to the advantage of having two separate shafts.

The outer 6 mm or 1/4" or 1/8" dia. shaft drives the modules situated immediately behind the panel, before the spacer module.

The inner 3 mm or 1/8" or 0.07" dia. shaft drives the modules situated after the spacer module.

Spacer is available with a choice of two spacer thickness:

5.08 mm designations or 2.54 mm designation. See dimensional drawing



BUSHING CODE	OUT	TER SHAFT DIAME	TER	INNER SHAFT DIAMETER				
	DIAMETER	LENGTH L	SHAFT STYLE	DIAMETER	LENGTH I	SHAFT STYLE		
V	6	16	R	3	28.5	R		
F	6.35 (1/4")	16	R	3.17 (1/8")	28.5	R		
A	3.17 (1/8")	12.7 (1/2")	R	1.8 (0.07")	22.2 (7/8")	R		

ORDERING INFORMATION (First order only for special code creation)

5.08

2.54: Mechanical spacer of 2.54 mm **5.08:** Mechanical spacer of 5.08 mm

Customer should define witch modules is driven by each shaft (see example of ordering information at the end of the data sheet)

P11 OPTION: DETENT MODULES

The detents mechanism is housed in a standard P11 module.

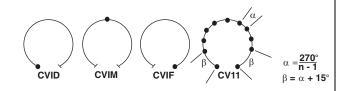
Up to 21 detent positions available.

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: 10 000 cycles



ORDERING INFORMATION (First order only for special code creation)

CV1M

CV1M 1 detent at half travel

CV1M J84 CV1M with accuracy of center point ± 2 % (all tapers except S)

CV1D 1 detent at CCW position
CV1F 1 detent at CW position

CV3 3 detents CV11 11 detents CV21 21 detents

P11 OPTION: NEUTRAL MODULES "EN"

Neutral or screen module is housed in a standard P11 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)

ΕN

EN Neutral module

Document Number: 51031 Revision: 19-Mar-12 For technical questions, contact: sfer@vishay.com

www.vishay.com

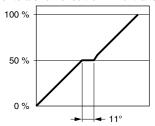
12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)

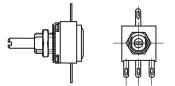


P11 OPTION: CENTER CURRENT TAP "J"

The extra terminal is a solder lug connected at 50 % of electrical travel and siluated in the potentiometer module opposite the terminals.

Center tap presents a short circuit of 11° of travel.





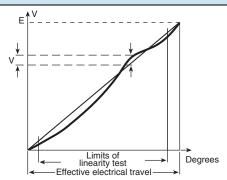


Sealing IP60

ORDERING INFORMATION (First order only)

J Center tap

P11 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 theorical variation curve the nearest to it. The linearity and the conformity are expressed in percentage of the total applied voltage E

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)

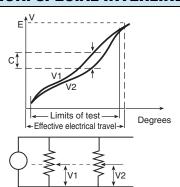
J123

J123 Independent linearity ± 3 % (linear law) J145

Independent linearity ± 2 % (linear law)

For other request, contact us.

P11 OPTION: SPECIAL INTERLINEARITY - INTERCONFORMITY



It is the maximum deviation between the actual voltage outputs of 2 or more pot modules in the same assembly. It is expressed as a percentage of the total applied voltage, or in dB attenuation.

Interlinearity is measured between 2 pot modules, over 20 to 90 % of the attenuation.

The interlinearity or interconformity is expressed as a percentage of the total applied voltage:

$$1\% = \frac{|C|}{F}$$

Or in decibels by comparison between outputs V1 and V2

$$I dB = 20 \log \frac{V_1}{V_2}$$

ORDERING INFORMATION (First order only)

J44

J44 Interlinearity ± 2 % (linear taper) For other request, contact us.



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EXAMPLES OF FIRST ORDER INFORMATION									
FIRST EXAMPLE: Triple module (switch is counted as a module)									
P 1 1 S MODEL STYLE S MODULES	3 Q 0 A P S Y 0 0 U U U U U U U U U U U U U U U U U								
ORDERING INFORMATION:									
PART NUMBER	P11S3Q0APSY00								
SHAFT AND BUSHING	See drawing of special shaft attached								
MODULE NO. 1	RSID								
MODULE NO. 2	103 M A J123								
MODULE NO. 3	503 M A J								
P 1 1 S	STANDARD CONCENTRIC SHAFT CCR SOLDER LUGS SPECIAL TO BE DEFINED BY VISHAY								
ORDERING INFORMATION:									
PART NUMBER	P11S5V0CCRY00								
SHAFT AND BUSHING									
MODULE NO. 1	CV1M Driven by outer shaft								
MODULE NO. 2	502 K A Driven by outer shaft								
MODULE NO. 3	5.08 Mechanical spacer 5.08 mm								
MODULE NO. 4	103 K A Driven by inner shaft								
MODULE NO. 5	103 K A Driven by inner shaft								

PART	PART NUMBER DESCRIPTION (used on some Vishay document or label, for information only)											
P11S	2	Q	0	EA	S	Y00	10K	20 %	Α			e3
MODEL	MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	VALUE	TOL.	TAPER	SPECIAL	SPECIAL	LEAD (Pb)-FREE



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Vishay

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