



8A Series

Sealed Sub-Miniature Pushbutton Switches

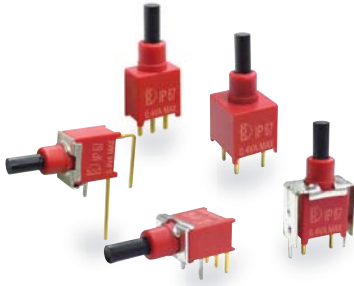
IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60529:2001

C US
E 187490

RoHS
compliant

Pb
lead-free

8A
Pushbutton Switches



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material, see page 124.

MECHANICAL LIFE: 50,000 make-and-break cycles.

CONTACT RESISTANCE: 20 mΩ max. (initial value) @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 MΩ min./1000VDC

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level. (initial value)

OPERATING TEMPERATURE: -40°C to 85°C.

MATERIALS

CASE & BUSHING: Glass filled nylon 6/6, flame retardant,
heat stabilized (UL94V-0).

PLUNGER: Thermoplastic polyester (UL 94V-0), internal o-ring sealed.

SWITCH SUPPORT: Brass or steel electrotin plated.

CONTACT/TERMINAL: Copper or brass with silver or gold plated.
(See page 124)

HOW TO ORDER

MODEL NO.	PLUNGER	BUSHING	TERMINAL TYPE	TERMINAL PLATING	SEAL	RoHS SOLDERING
<u>SP</u> 8AS8 ON-(ON) 8AS9 OFF-(ON)	P1 For 8AS8: 5.46 high For 8AS9/D9: 5.90 high	A1 4.50 high for SP A2 4.50 high for DP	M1 Solder Lug M2 PC thru-hole M51 Wire wrap M6 Right angle, PC thru-hole M6N Right angle, snap-in, PC thru-hole M7 Vertical right angle, PC thru-hole M7N Vertical rightangle, snap-in, PC thru-hole *	Q Gold flash over silver R Gold C Gold over silver	E EPOXY (std)	S RoHS & Lead Free
<u>DP</u> 8AD9 OFF-(ON)						

V-bracket
 VS2 9.30 high
 V2N 9.30 high, snap-in *

Note: Plunger cap options see page 118.

* Terminal M7N, V2N is not suitable for DP.

EXAMPLE: 8AS8P1A1M2RES

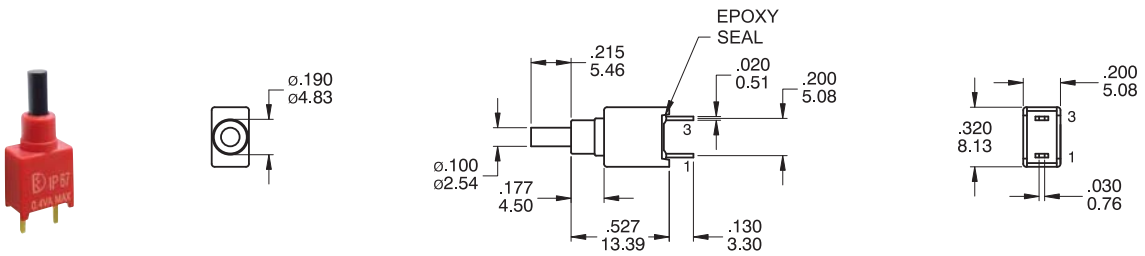
▼ SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
			POS.1	POS.2	POS.1	POS.2
SP	Q28A18	8AS8	ON	(ON)	2-1 	2-3
	Q28A19	8AS9*	OFF	(ON)	OPEN	1-3
DP	Q28A29	8AD9**	OFF	(ON)	OPEN	1-3,4-6

()=MOMENTARY

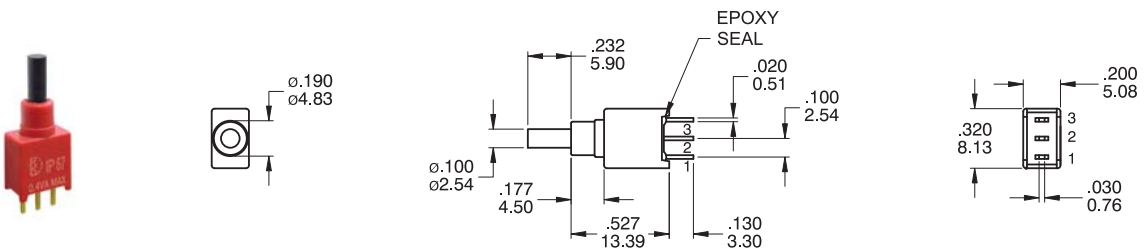
* Omit terminal 2
** Omit terminal 2 & 5

▼ POLE OPTIONS



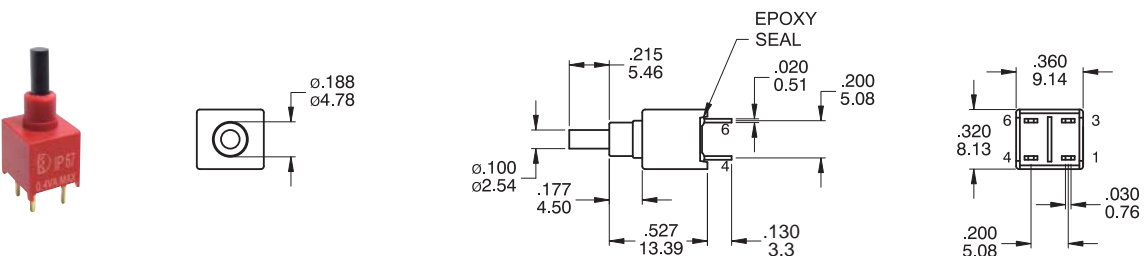
SPST

Model name. 8AS9P1A1M2RES



SPDT

Model name. 8AS8P1A1M2RES



DPST

Model name. 8AD9P1A2M2RES



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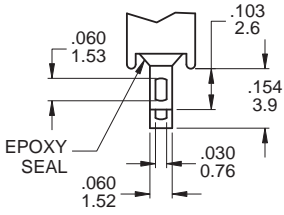
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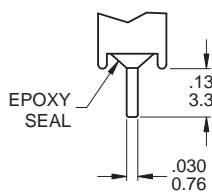
▼ TERMINAL OPTIONS

M1 Solder lug



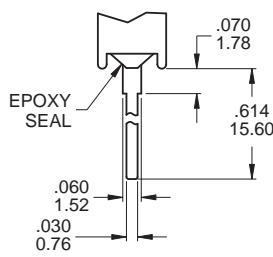
.020inch(0.51mm) THK.

M2 PC Thru-hole



.020inch(0.51mm) THK.

M51 Wire Wrap



.020inch(0.51mm) THK.

OTHER TERMINAL OPTIONS

M6 Right angle P.C. Mount

M6N Right angle P.C. Mount
Snap-in bracket

M7 Vertical right angle P.C. Mount

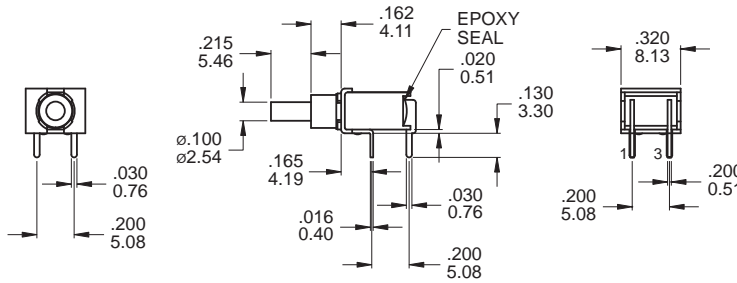
M7N Vertical right angle P.C. Mount
Snap-in bracket

VS2 Vertical bracket P.C. Mount

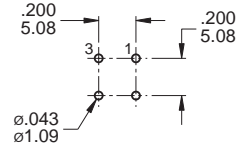
V2N Vertical bracket P.C. Mount
Snap-in bracket

M6

(M6N - Snap-in)



PCB MOUNTING

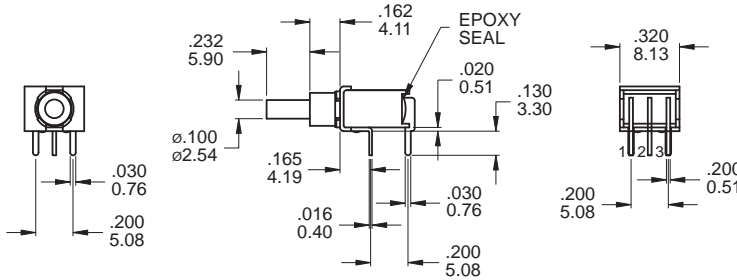


SPST

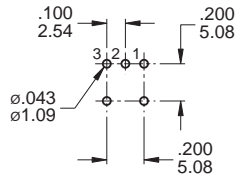
Model name. 8AS9P1A1M6RES

M6

(M6N - Snap-in)



PCB MOUNTING

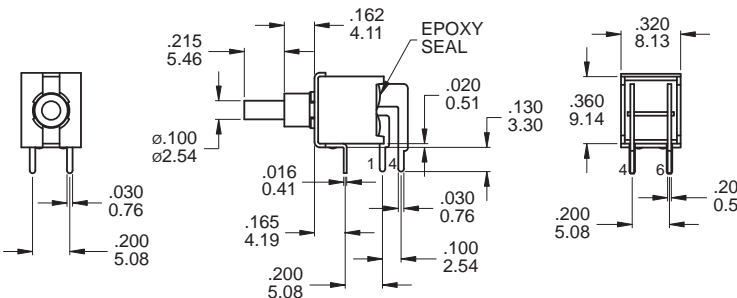


SPDT

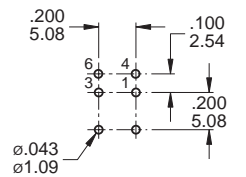
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M6

(M6N - Snap-in)



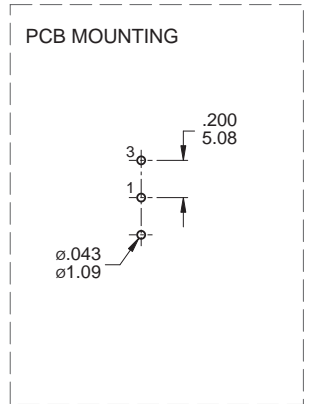
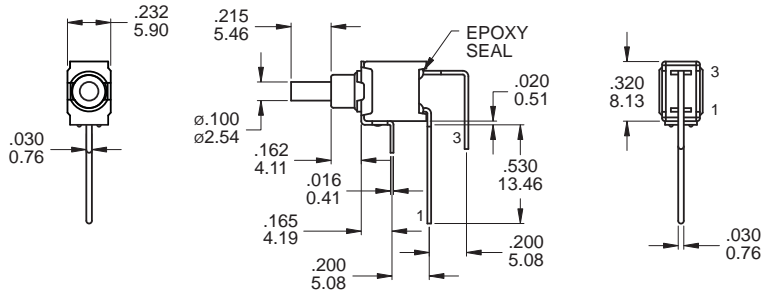
PCB MOUNTING



DPST

Model name. 8AD9P1A2M6RES

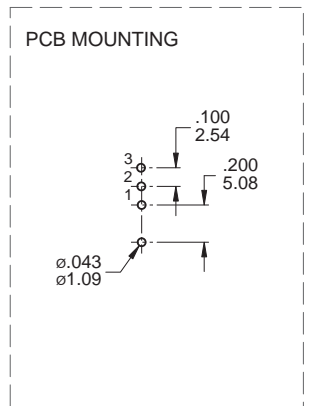
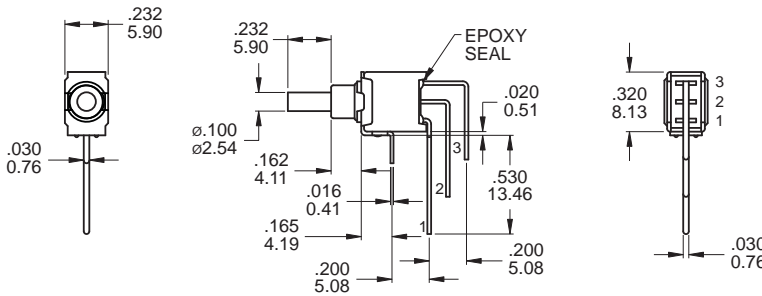
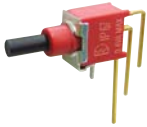
M7
(M7N - Snap-in)



SPST

Model name. 8AS9P1A1M7RES

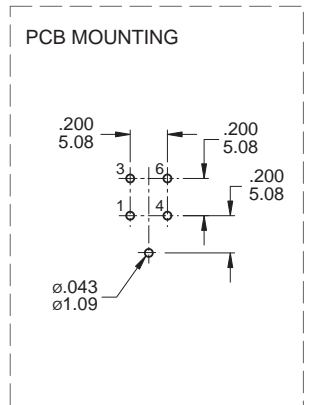
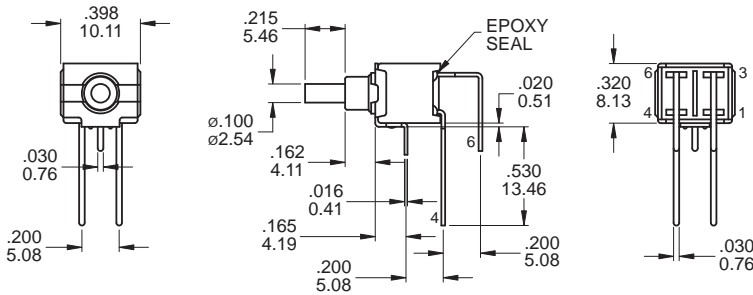
M7
(M7N - Snap-in)



SPDT

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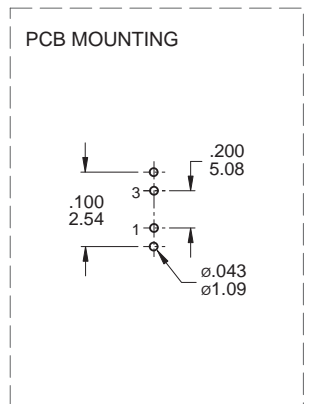
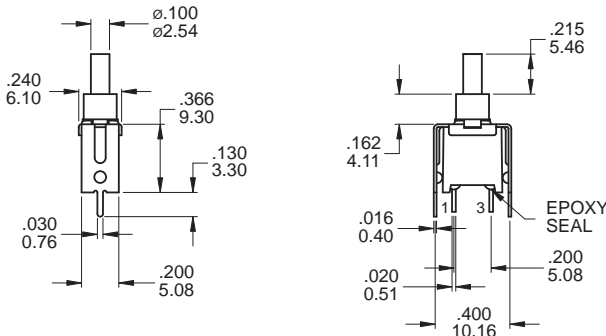
M7



DPST

Model name. 8AD9P1A2M7RES

VS2
(V2N - Snap-in)



SPST

Model name. 8AS9P1A1VS2RES



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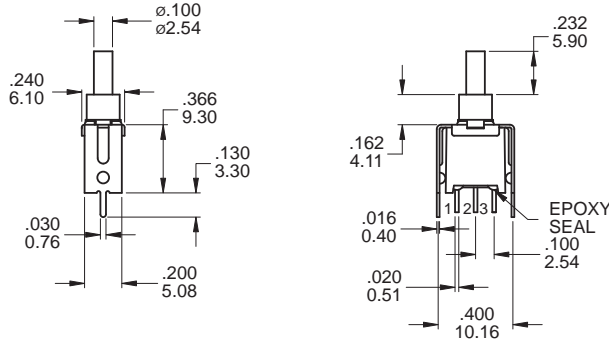
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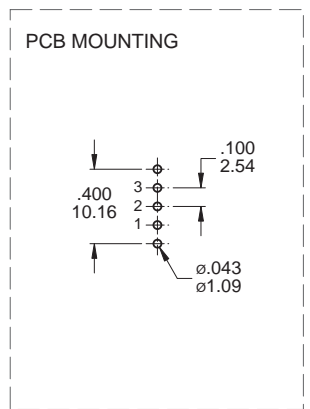
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VS2 (V2N - Snap-in)

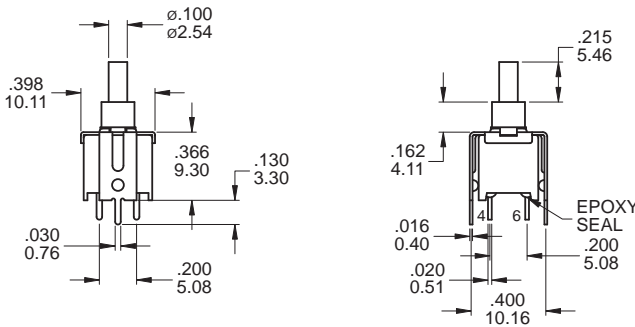


SPDT

Model name. 8AS8P1A1VS2RES

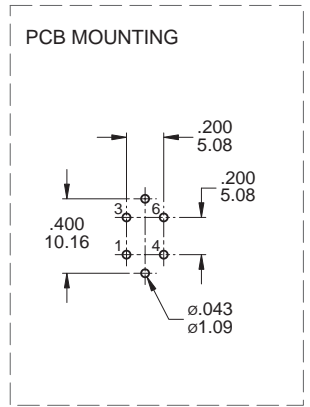


VS2



DPST

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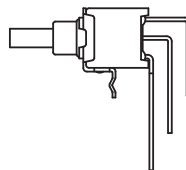
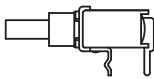


▼ SNAP-IN TERMINAL OPTIONS

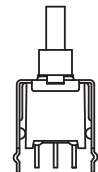
M6N



M7N *



V2N *



* Note: Terminal M7N, V2N is not suitable for DP.

▼ CONTACT & TERMINAL PLATING OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	Gold over silver	
R	Gold	Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)

▼ SOLDERING PROCESS

MANUAL SOLDERING: Use 30 watts soldering iron and controlled the temperature at 350°.

Duration of solder immersion: Max. 5 sec.

WAVE SOLDERING: Recommend soldering temperature: 260 ± 5°C

Duration of solder immersion: Max. 5 sec. (PCB thickness is 1.6mm)