



E-SWITCH®

SERIES 300 SWITCHES

ROCKER AND PADDLE SWITCHES - MINIATURE



FEATURES & BENEFITS

- ▶ Multiple rocker & paddle options
- ▶ Up to 4 poles
- ▶ Multiple termination options
- ▶ Snap-in panel mount option available

APPLICATIONS/MARKETS

- ▶ Telecommunications
- ▶ Instrumentation
- ▶ Test equipment
- ▶ Networking
- ▶ Computer peripherals

SPECIFICATIONS

Contact Rating:	Dependent upon contact material
Life Expectancy:	40,000 make-and-break cycles at full load
Contact Resistance:	10 mΩ max. initial @ 2-4 VDC 100 mA for both silver and gold plated contacts
Insulation Resistance:	1,000 MΩ min.
Dielectric Strength:	1,000 V RMS @ sea level
Operating Temperature:	-30° C to 85° C

MATERIALS

Case:	Diallyl Phthalate (DAP)
Rockers:	Nylon
Bushing:	Brass, nickel plated
Housing:	Stainless steel
Terminal/Switch Support:	Brass, steel, electrotin plated
Contacts/Terminals:	Silver or gold plated copper alloy



HOW TO ORDER

SERIES 300	MODEL NO. [][]	ACTUATOR [][]	ACTUATOR ** COLOR [][]	TERMINATION [][]	CONTACT MATERIAL []	SEAL E	FRAME ** COLOR [][]
	SP1 SP2 SP3 SP4 SP5 DP1 DP2 DP3 DP4 DP5 DP6 DP7 DP8 3P1 3P2 3P3 3P4 3P5 4P1 4P2 4P3 4P4 4P5 4P6	<u>Panel Mount:</u> R1 R2 R3 R4 R6* R7* R8* R9* R11 R16 * Snap in panel mount	NONE = Black WHT = White RED = Red YEL = Yellow GRY = Gray ** Contact E-Switch for additional colors	M1 M3 M51 M52 M53 M54	Q = Silver R = Gold	E = Epoxy Sealed at Base of Terminal	(R6, R7 Only) BLK = Black WHT = White RED = Red YEL = Yellow GRY = Gray ** Contact E-Switch for additional colors

(See Above Model No. Options)

P.C. Mount:

J1
J2
J3
J4
J5
J6

BLK = Black
WHT = White
RED = Red
YEL = Yellow
GRY = Gray
PUR = Purple

M2
M6
M7
VS2
VS3
VS4
VS5
M61
VS21

Q = Silver
R = Gold

E = Epoxy
Sealed at Base of Terminal



Example Ordering Number

300SP1R6REDM1RERED

Specifications subject to change without notice.

TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESTOGGLE
SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESREFLECTOR
SWITCHESCAP
OPTIONS

TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESTOGGLE
SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESDETECTOR
SWITCHESCAP
OPTIONS

SERIES 300 SWITCHES

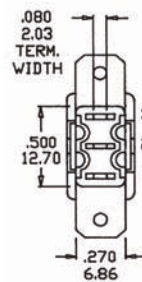
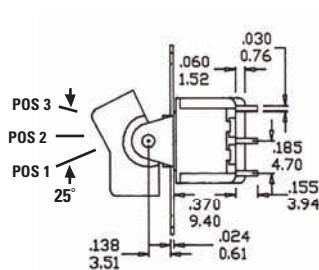
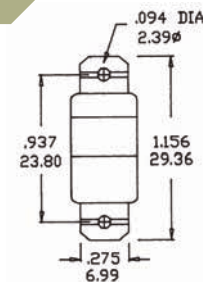
ROCKER AND PADDLE SWITCHES - MINIATURE

SPDT



2 Comm.
1 3

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
SP-1	ON	NONE	ON
SP-2	ON	NONE	(ON)
SP-3	ON	OFF	ON
SP-4	(ON)	OFF	(ON)
SP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

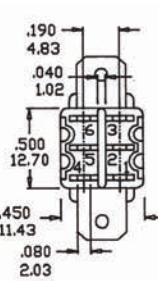
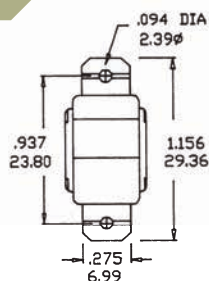
() = Momentary

DPDT



2 Comm. 5 Comm.
1 3 4 6

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
DP-1	ON	NONE	ON
DP-2	ON	NONE	(ON)
DP-3	ON	OFF	ON
DP-4	(ON)	OFF	(ON)
DP-5	ON	OFF	(ON)
DP-7	ON	ON	(ON)
DP-8	(ON)	ON	(ON)
Term. Comm.	2-3, 5-6	OPEN	2-1, 5-4

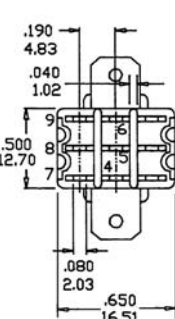
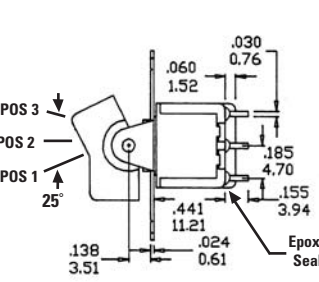
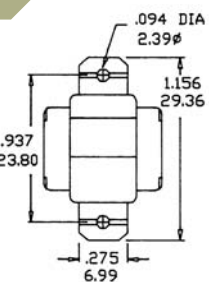
() = Momentary

3PDT



2 Comm. 5 Comm. 8 Comm.
1 3 4 6 7 9

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
3P-1	ON	NONE	ON
3P-2	ON	NONE	(ON)
3P-3	ON	OFF	ON
3P-4	(ON)	OFF	(ON)
3P-5	ON	OFF	(ON)
Term. Comm.	2-3, 5-6 8-9	OPEN	2-1, 5-4 8-7

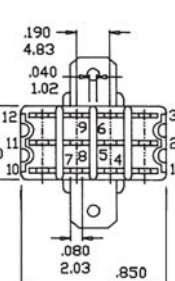
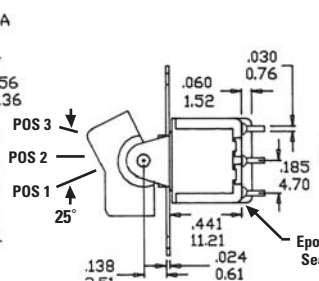
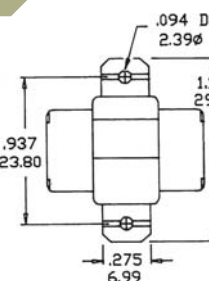
() = Momentary

4PDT



2 Comm. 5 Comm. 8 Comm. 11 Comm.
1 3 4 6 7 9 10 12

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
4P-1	ON	NONE	ON
4P-2	ON	NONE	(ON)
4P-3	ON	OFF	ON
4P-4	(ON)	OFF	(ON)
4P-5	ON	OFF	(ON)
Term. Comm.	2-3, 5-6 8-9, 11-12	OPEN	2-1, 5-4 8-7, 11-10
4P-6	ON	ON	ON
Term. Comm.	2-3, 5-6 8-9, 11-12	2-3, 5-4 8-9, 11-10	2-1, 5-4 8-7, 11-10

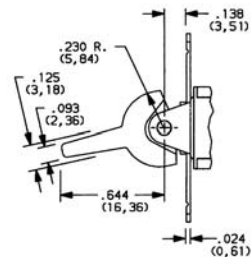
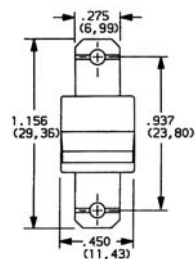
() = Momentary

TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESTOGGLE
SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESDETECTOR
SWITCHESCAP
OPTIONS

SERIES 300 SWITCHES

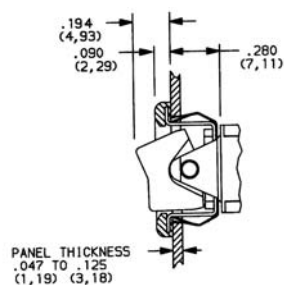
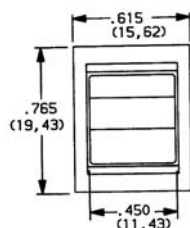
ROCKER AND PADDLE SWITCHES - MINIATURE

R16

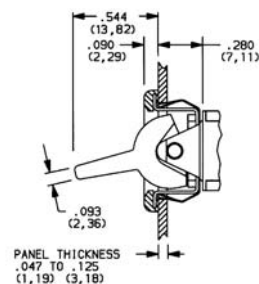
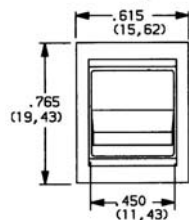


ACTUATOR OPTIONS – SNAP-IN FRONT MOUNT

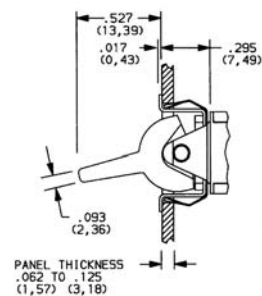
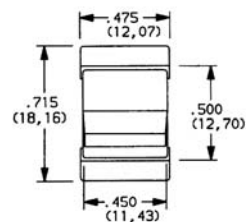
R6



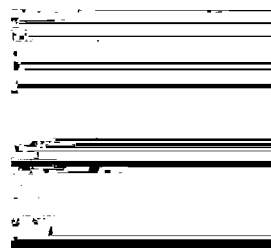
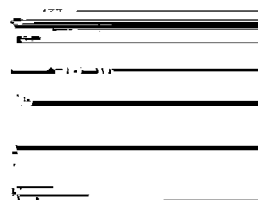
R7



R8



R9

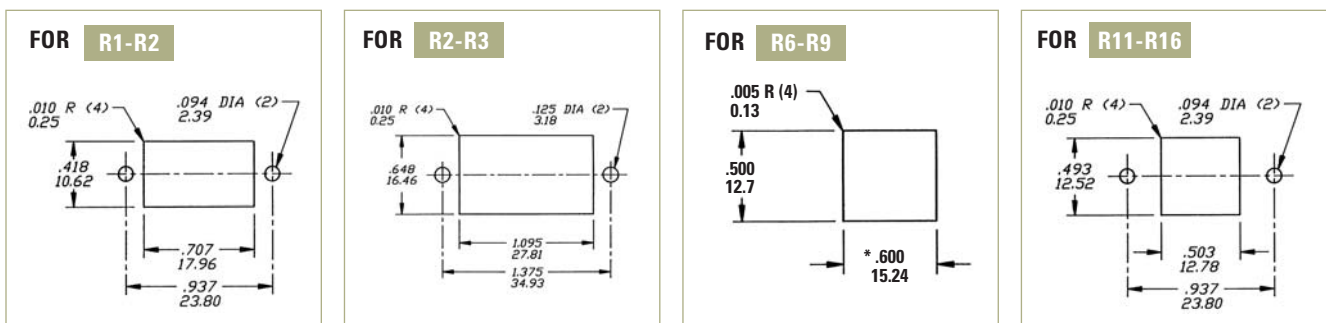


Actuator & Frame Colors:

Black, White, Red

Consult E-Switch for other colors and custom actuator marking.

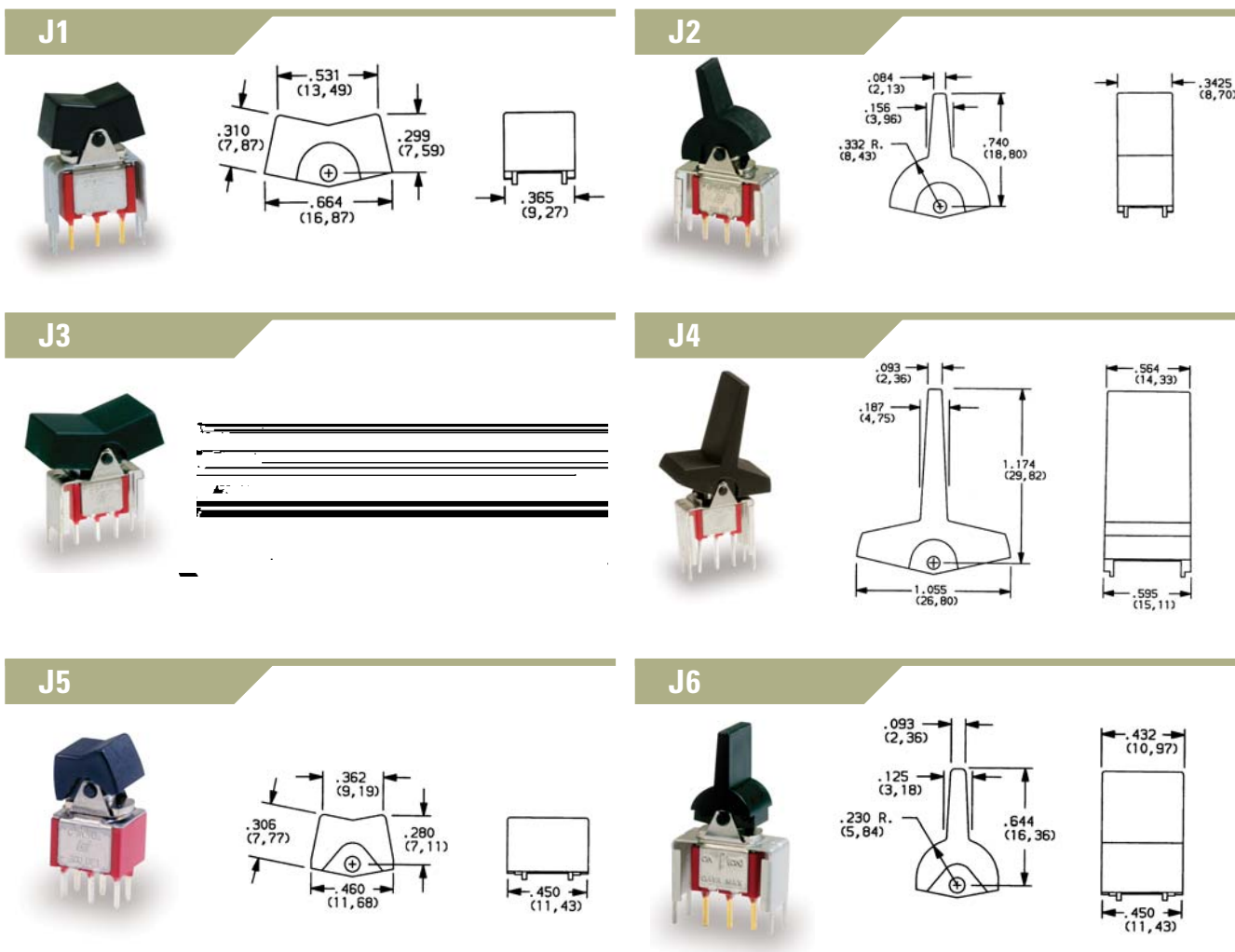
RECOMMENDED PANEL MOUNTING



* For R8 and R9: Increase this dim. to .620/.625 (15.75/15.88) for .091/.125 (2.31/3.18) thk. panels.

* For R6 and R7: Increase this dim. to .620/.625 (15.75/15.88) for .060/.125 (1.52/3.18) thk. panels.

ACTUATOR OPTIONS – P.C. MOUNT



Actuator & Frame Colors:

Black, White, Red

Consult E-Switch for other colors and custom actuator marking.

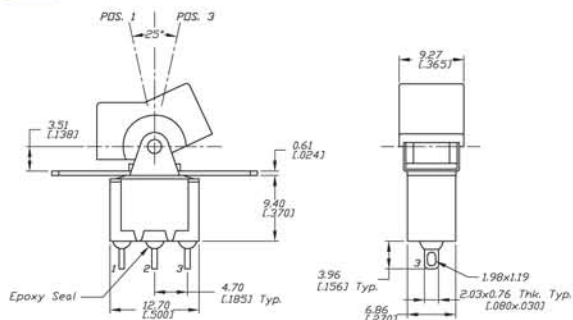
TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESTOGGLE
SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESDETECTOR
SWITCHESCAP
OPTIONS

SERIES 300 SWITCHES

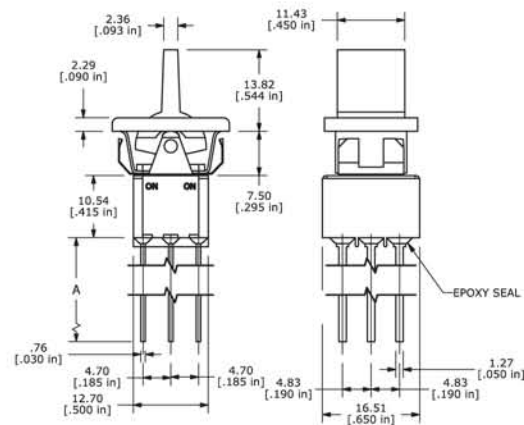
ROCKER AND PADDLE SWITCHES - MINIATURE

TERMINATION OPTIONS – PANEL MOUNT

M1 STD

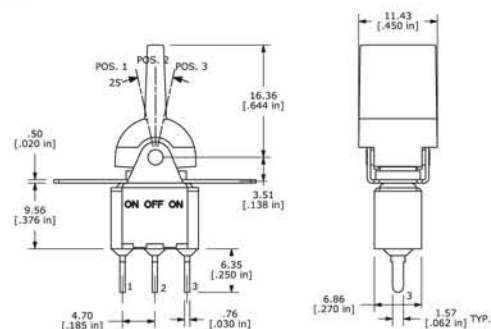


M5 WIRE WRAP



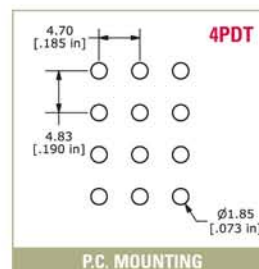
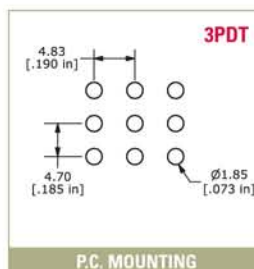
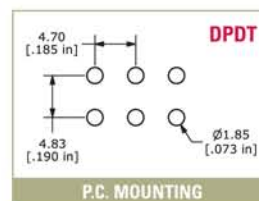
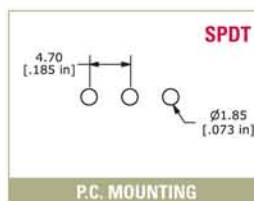
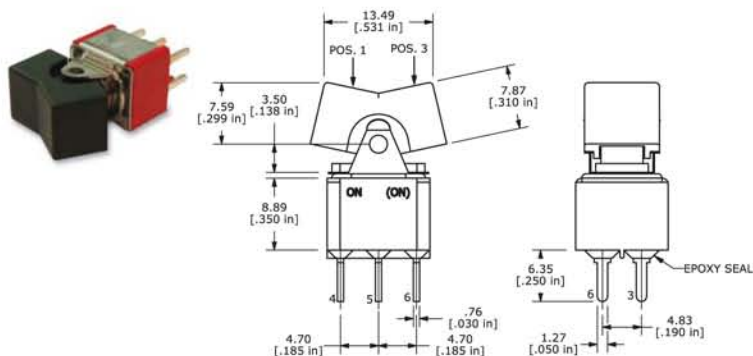
Option Code	Dim. 'A'
M51	18.70 [.736 in]
M52	24.20 [.953 in]
M53	10.55 [.415 in]
M54	26.97 [1.062 in]

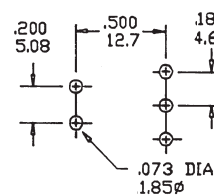
M3 QUICK CONNECT



TERMINATION OPTIONS – P.C. MOUNT

M2

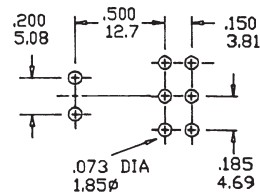
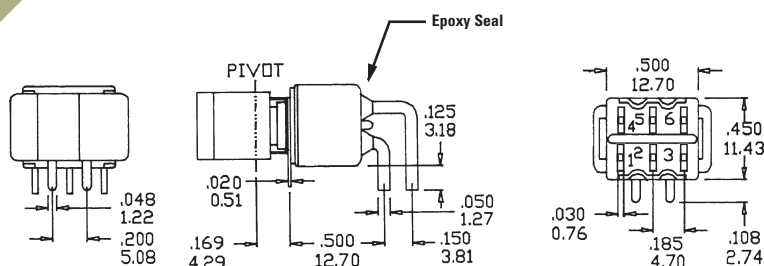


**M6**SPST
Shown with J1
Actuator

P.C. MOUNTING

M6

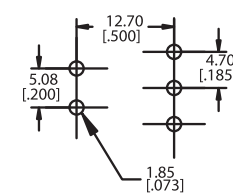
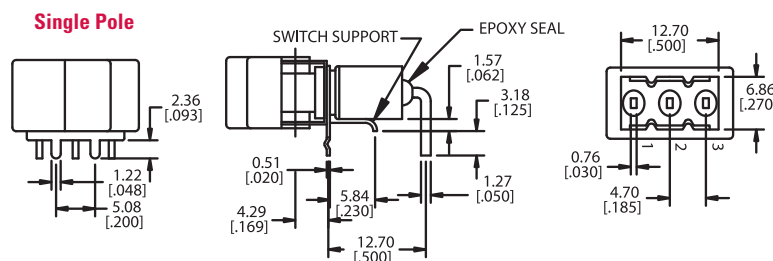
DPDT



P.C. MOUNTING

M61WITH P.C. BOARD
RETENTION BRACKET

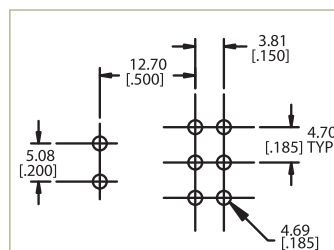
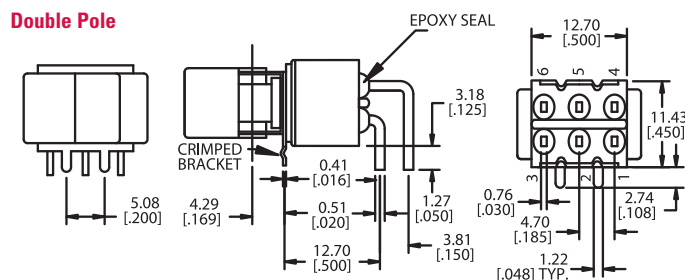
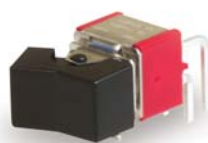
SPST



P.C. MOUNTING

M61WITH P.C. BOARD
RETENTION BRACKET

DPDT



P.C. MOUNTING



SERIES 300 SWITCHES

ROCKER AND PADDLE SWITCHES - MINIATURE

TACT
SWITCHES

NAVIGATION
SWITCHES

PUSHBUTTON
SWITCHES

TOGGLE
SWITCHES

ROCKER
SWITCHES

SLIDE
SWITCHES

SNAP-ACTION
SWITCHES

DIP
SWITCHES

KEYLOCK
SWITCHES

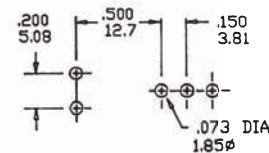
ROTARY
SWITCHES

DETECTOR
SWITCHES

CAP
OPTIONS

M7

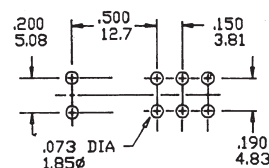
SPDT



P.C. MOUNTING

M7

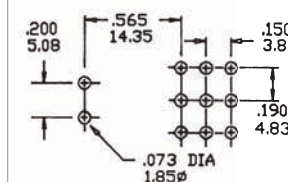
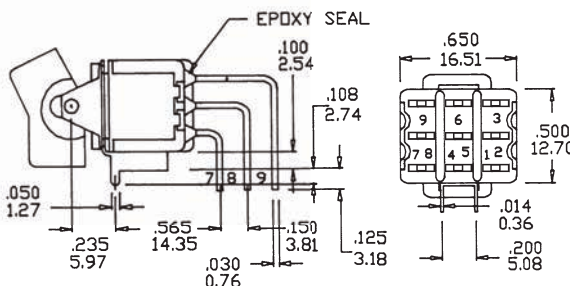
DPDT



P.C. MOUNTING

M7

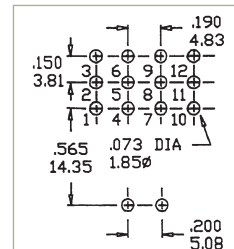
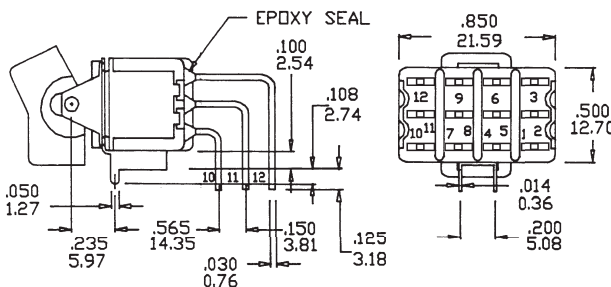
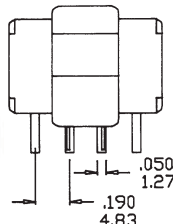
3PDT



P.C. MOUNTING

M7

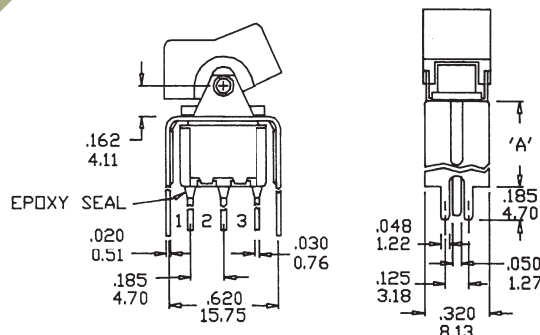
4PDT



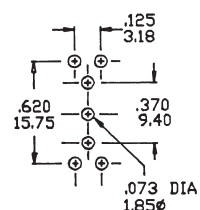
P.C. MOUNTING

VS2-VS3

SPDT



Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)

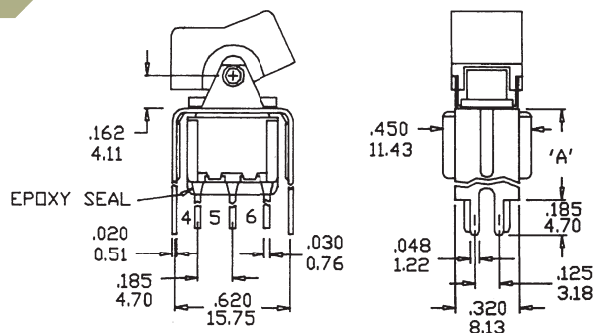


P.C. MOUNTING

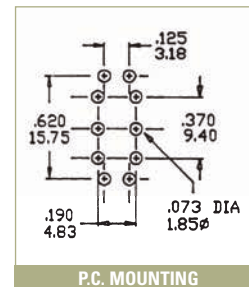


VS2-VS3

DPDT

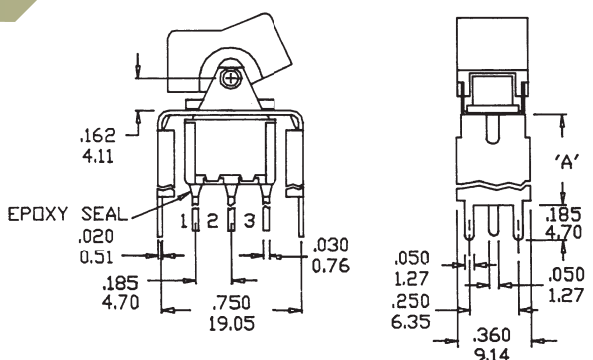


Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)

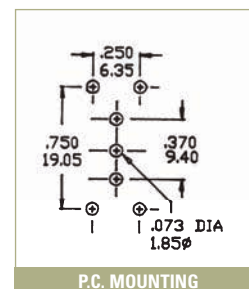


VS4-VS5

SPDT

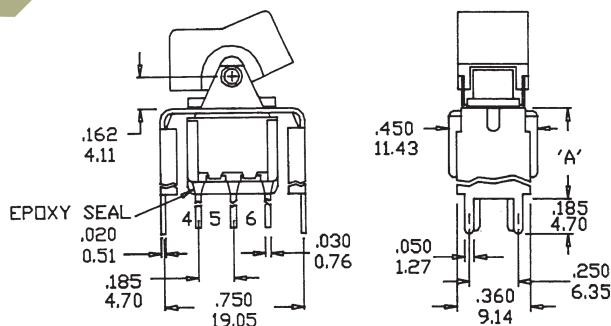


Option Code	Dim. 'A'
VS4	.460 (11.68)
VS5	.630 (16.00)

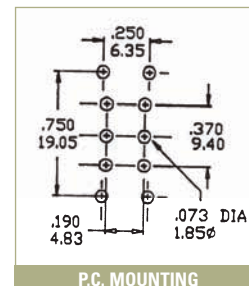


VS5

DPDT



Option Code	Dim. 'A'
VS5	.630 (16.00)



CONTACT MATERIAL OPTIONS

Q

Fixed Terminal:	Silver plated copper alloy
Moving Contact:	Silver plated copper alloy
Rating:	5 Amps with resistive load @ 120VAC or 28VDC; 2 Amps with resistive load @ 250VAC

R

Fixed Terminal:	Copper alloy with gold plate over nickel plate
Moving Contact:	Copper alloy with gold plate over nickel plate
Rating:	0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)