

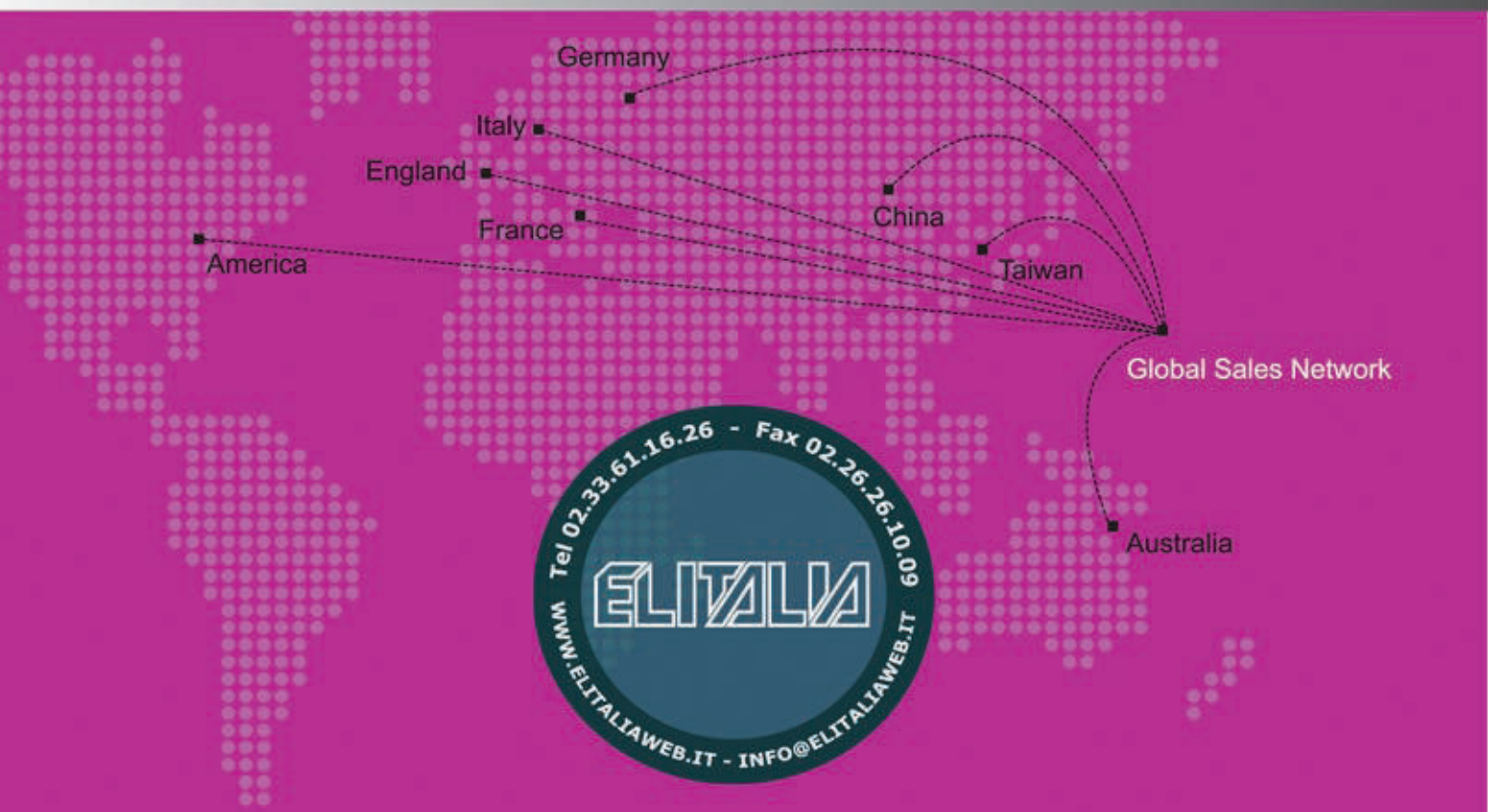


TAIWAY

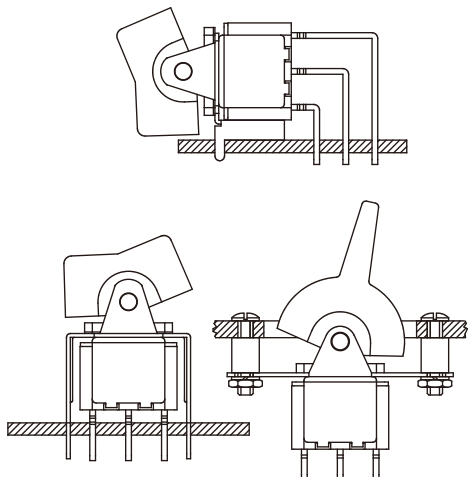
Turn on the world

ROCKER-SLIDE SWITCH CAT. part 2

IECQ QC 080000 / ISO 9001 / 14001



TAIWAY Since 1976

**SPECIFICATIONS:**

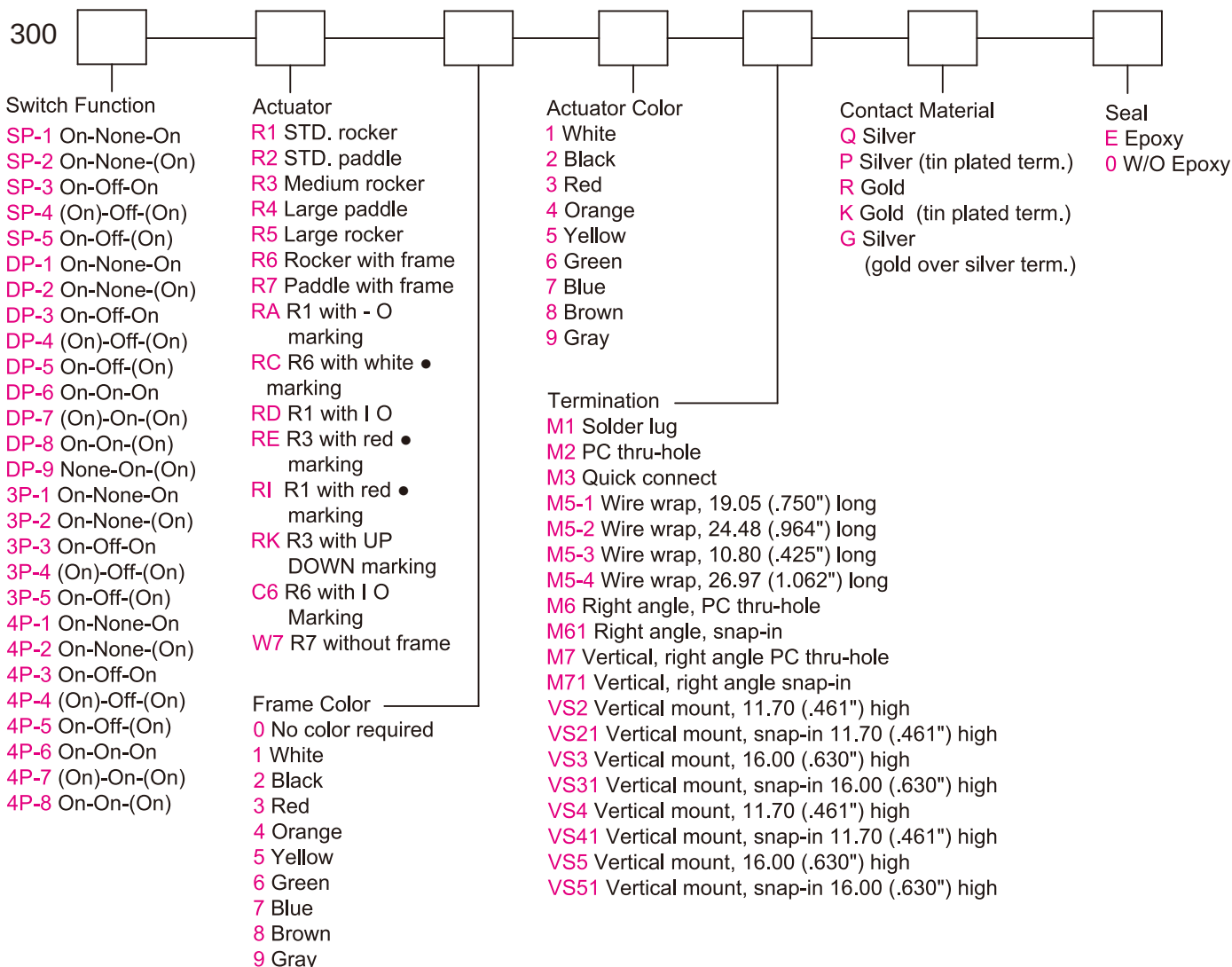
CONTACT RATING: Refer to "Contact Material Options" for more info.
 ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.
 CONTACT RESISTANCE: 10mΩ max. initial @ 2-4VDC.
 100mA for both silver and gold plated contacts.
 INSULATION RESISTANCE: 1,000MΩ min.
 DIELECTRIC STRENGTHS: 1,500V RMS @ sea level.
 OPERATING TEMPERATURE: -30°C to +85°C.

MATERIALS:

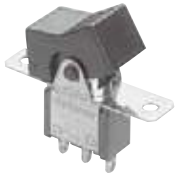
CASE: Diallyl phthalate(DAP)(UL 94V-0).
 ROCKERS: Nylon 6/6 or ABS.
 BUSHING: Zinc, nickel plated.
 HOUSING: Stainless steel.
 FRONT/REAR MOUNTING: Stainless steel.
 SWITCH SUPPORT: Brass, tin plated.
 TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM

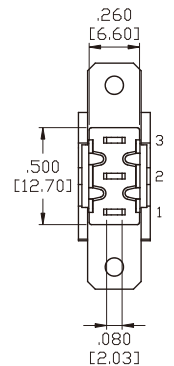
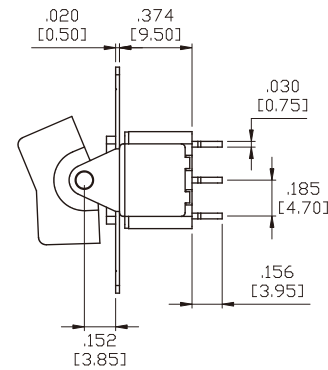
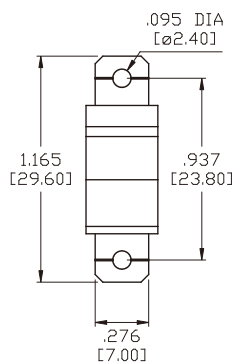
SPDT



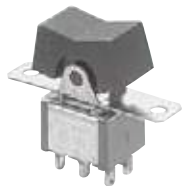
Model No.	Switching Position		
SP-1	ON	NONE	ON
SP-2	ON	NONE	(ON)
SP-3	ON	OFF	ON
SP-4	(ON)	OFF	(ON)
SP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic

2Comm.



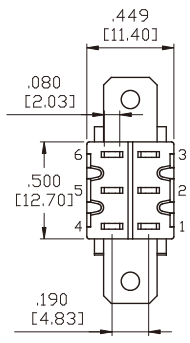
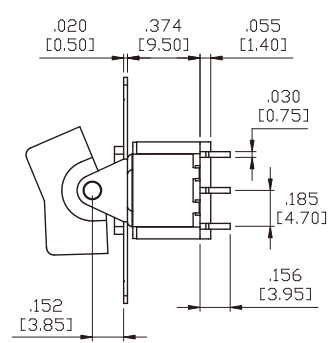
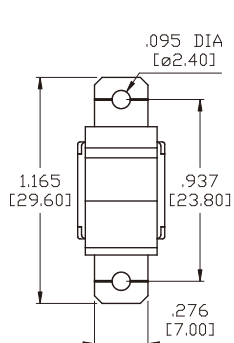
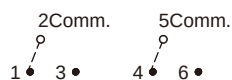
DPDT



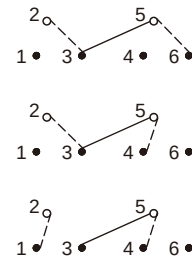
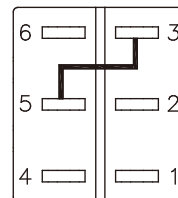
Model No.	Switching Position		
DP-1	ON	NONE	ON
DP-2	ON	NONE	(ON)
DP-3	ON	OFF	ON
DP-4	(ON)	OFF	(ON)
DP-5	ON	OFF	(ON)
Term. Comm.	2-3,5-6	OPEN	2-1,5-4

Model No.	Switching Position		
DP-6	ON	ON	ON
DP-7	(ON)	ON	(ON)
DP-8	ON	ON	(ON)
DP-9	OFF	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

Schematic



WIRING FOR ON-ON-ON (3-WAY) FUNCTION

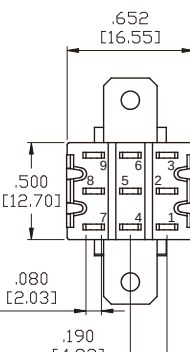
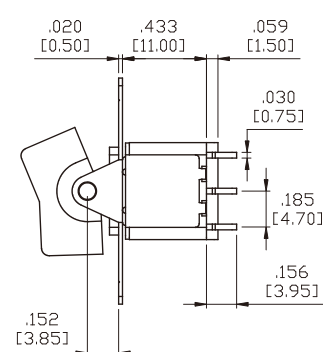
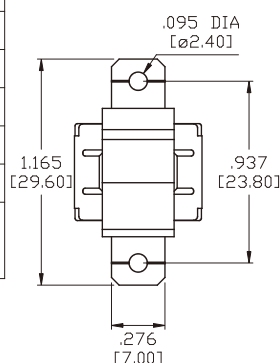


3PDT



Model No.	Switching Position		
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	2-1,5-4

Schematic

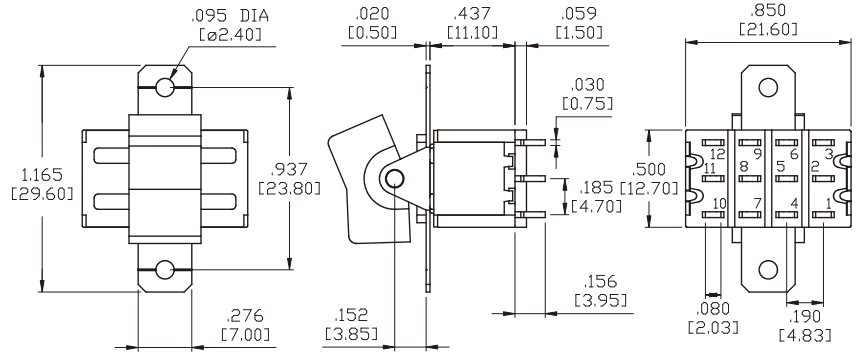


4PDT

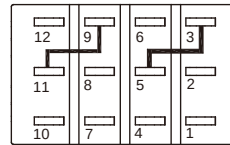


Model No.	Switching Position		
4P-1	ON	NONE	ON
4P-2	ON	NONE	(ON)
4P-3	ON	OFF	ON
4P-4	(ON)	OFF	(ON)
4P-5	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9, 11-12	OPEN	2-1,5-4 8-7, 11-10

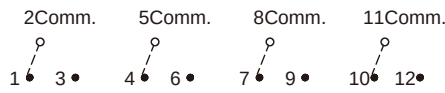
Model No.	Switching Position		
4P-6	ON	ON	ON
4P-7	(ON)	ON	(ON)
4P-8	ON	ON	(ON)
4P-9	OFF	ON	(ON)
Term. Comm.	2-3,5-6 8-9, 11-12	2-3,5-4 8-9, 11-10	2-1,5-4 8-7, 11-10



WIRING FOR ON-ON-ON (3-WAY) FUNCTION

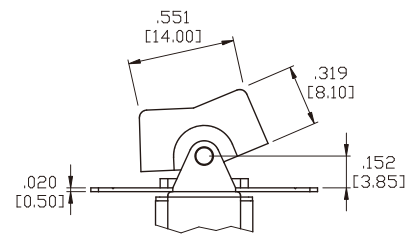
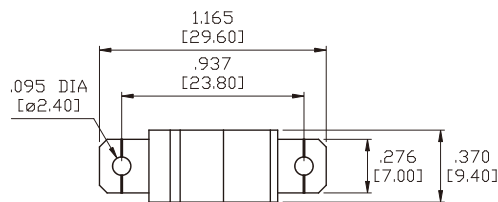


Schematic

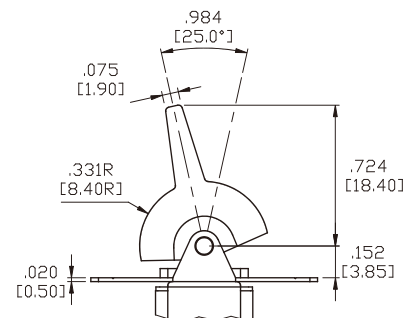
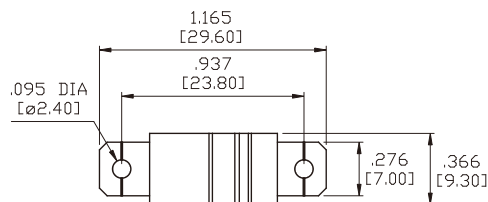


ACTUATOR OPTIONS FOR PANEL REAR MOUNT

R1

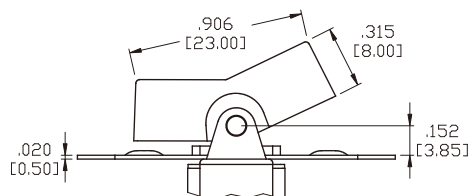
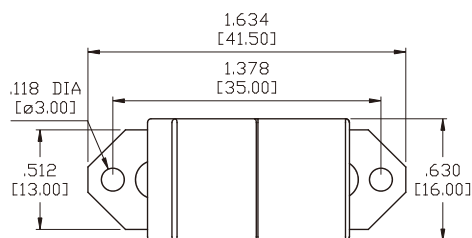


R2

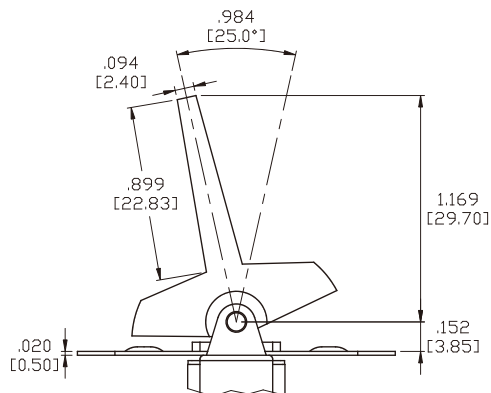
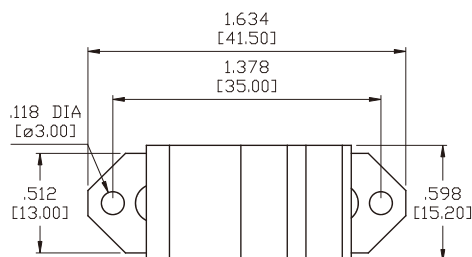


ACTUATOR OPTIONS FOR PANEL REAR MOUNT

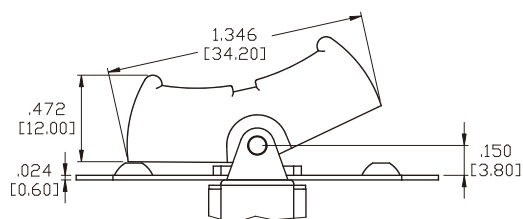
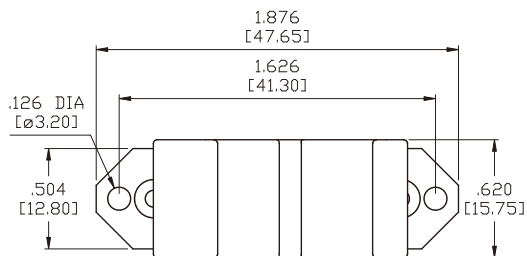
R3



R4

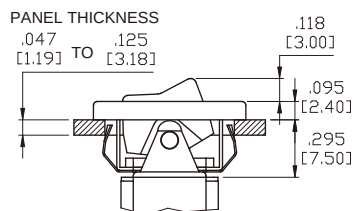
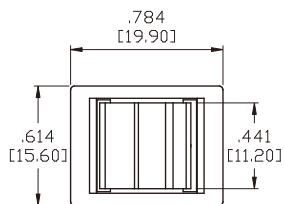


R5

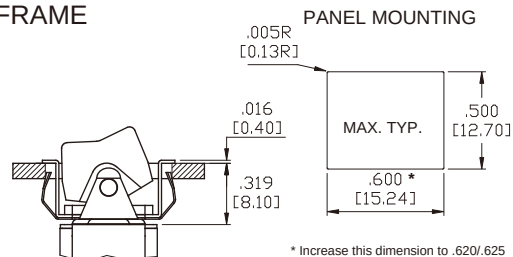
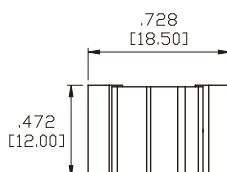


ACTUATOR OPTIONS FOR SNAP-IN FRONT MOUNT

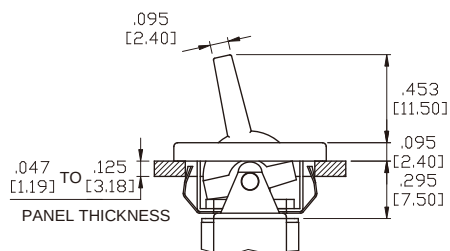
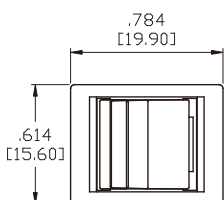
R6



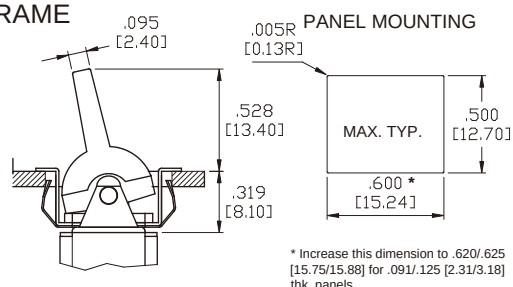
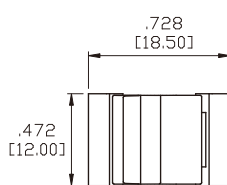
R6 WITHOUT FRAME



R7



R7 WITHOUT FRAME



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

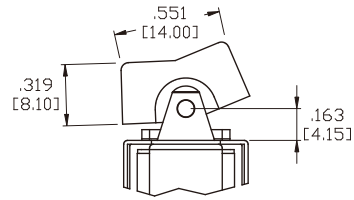
Tact

Touch Key

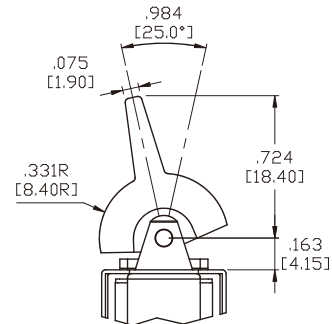
Miscellaneous

ACTUATOR OPTIONS FOR P.C. MOUNT

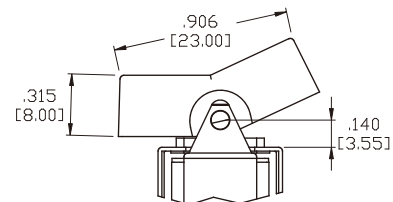
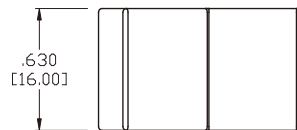
R1



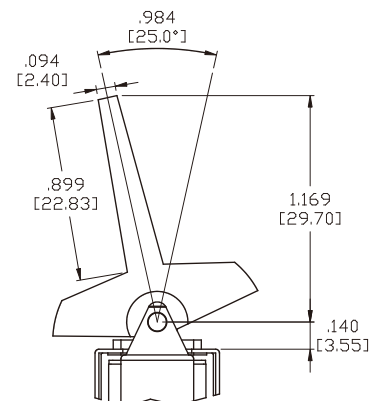
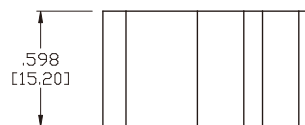
R2



R3

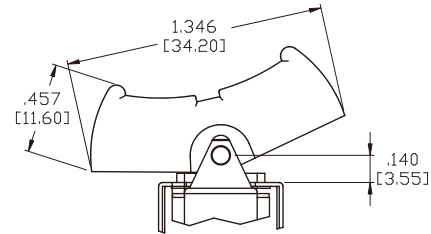
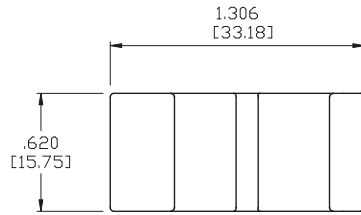


R4

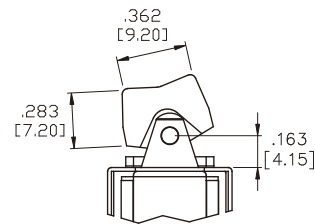
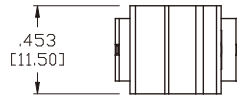


ACTUATOR OPTIONS FOR P.C. MOUNT

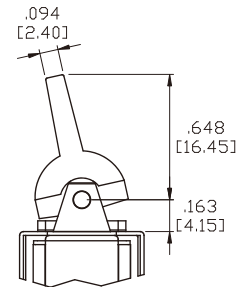
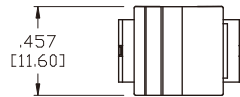
R5



R6

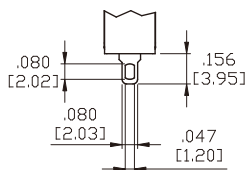


R7



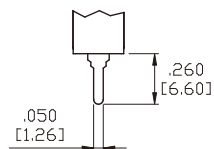
TERMINATION OPTIONS

M1 STD. SOLDER LUG



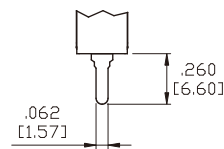
THK .030 [0.75]

M2 PC THRU-HOLE



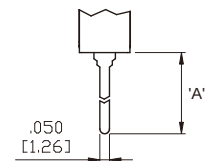
THK .030 [0.75]

M3 QUICK CONNECT



THK .030 [0.75]

M5 WIRE WRAP

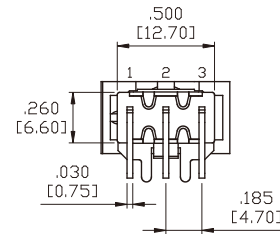
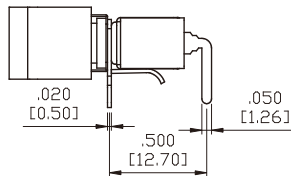
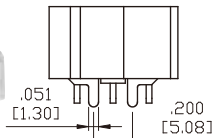


THK .030 [0.75]

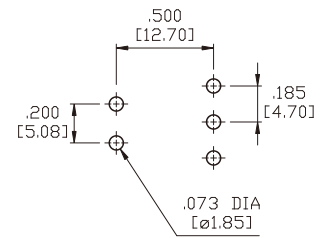
OPTION CODE	DIM.'A'
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

TERMINATION OPTIONS

M6

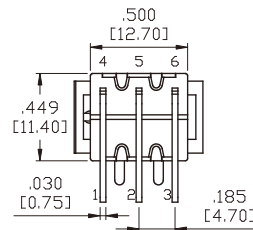
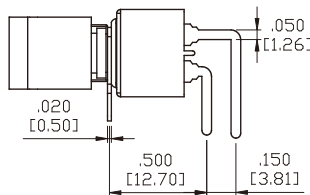
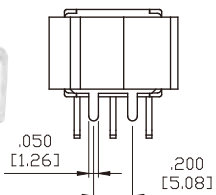


P.C.MOUNTING

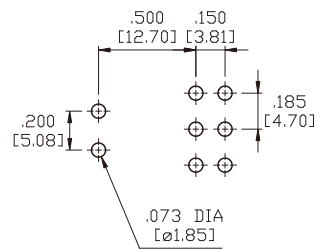


SPDT

M6

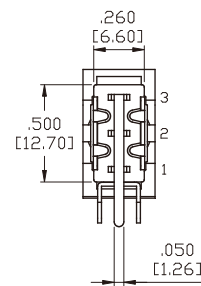
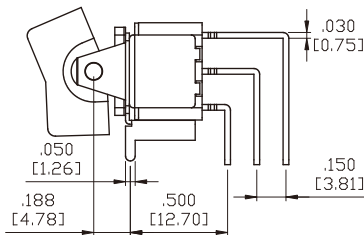
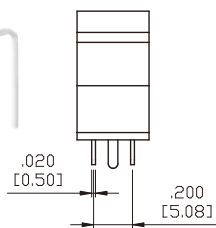


P.C.MOUNTING

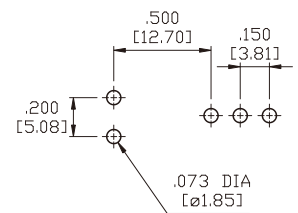


DPDT

M7

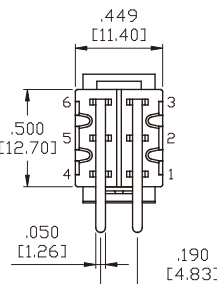
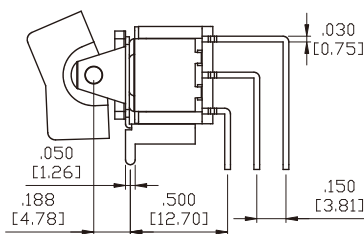
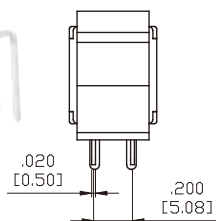
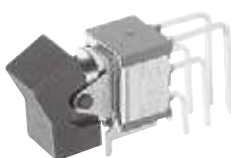


P.C.MOUNTING

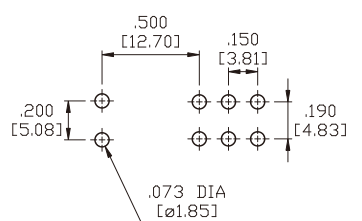


SPDT

M7

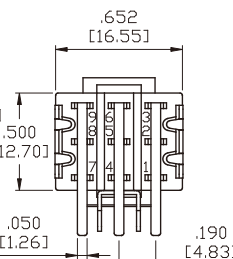
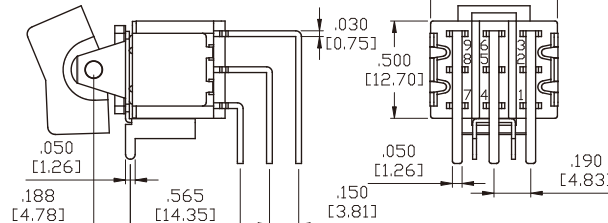
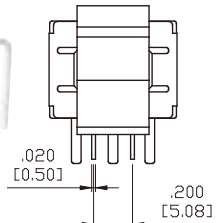
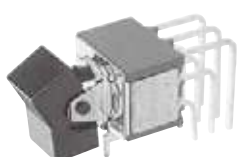


P.C.MOUNTING

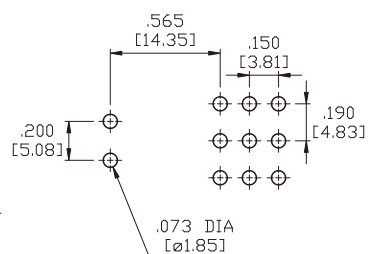


DPDT

M7



P.C.MOUNTING



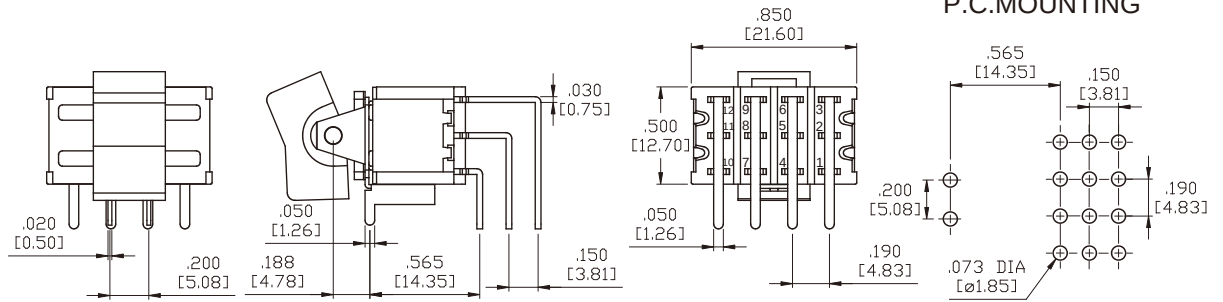
3PDT

TERMINATION OPTIONS

M7



4PDT

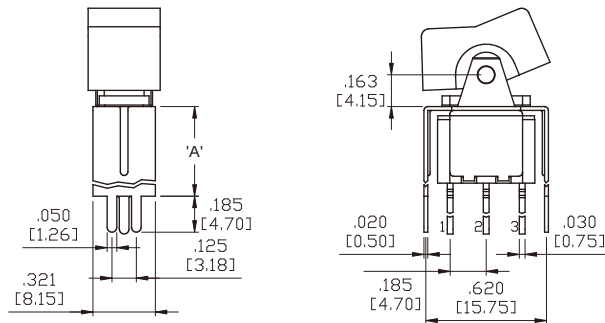


P.C.MOUNTING

VS2-VS3

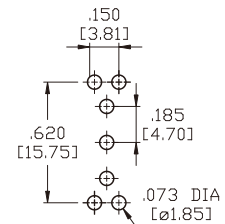


SPDT



OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

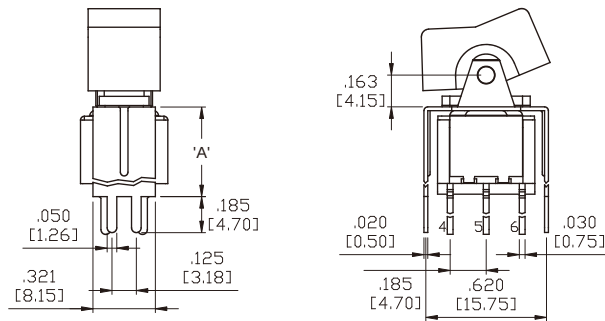
P.C.MOUNTING



VS2-VS3

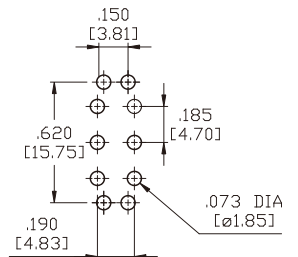


DPDT



OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

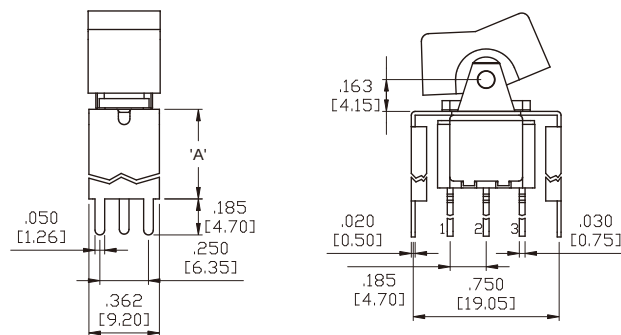
P.C.MOUNTING



VS4-VS5

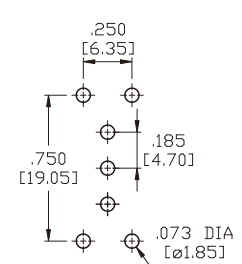


SPDT



OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

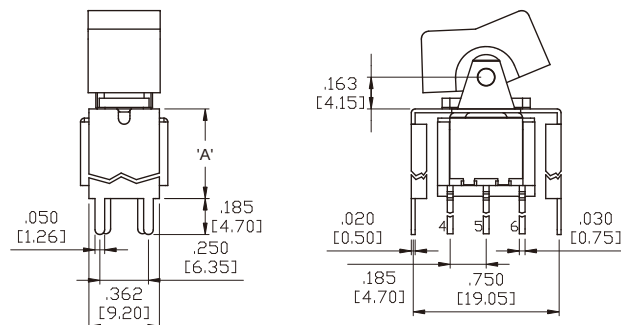
P.C.MOUNTING



VS4-VS5

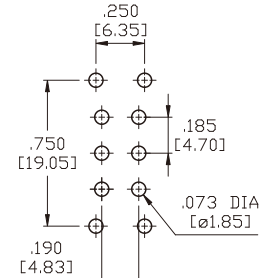


DPDT



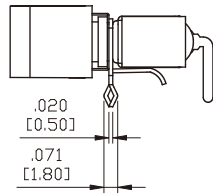
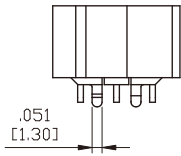
OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING

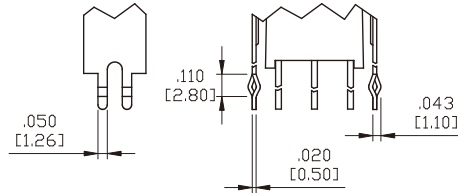


SNAP-IN TERMINATION OPTIONS

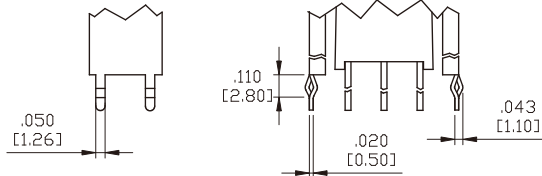
M61



VS21,VS31



VS41,VS51



* PC Mounting for M61,VS21,VS31,VS41,VS51 refer to M6,VS2,VS3,VS4,VS5 respectively.

CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	
P		Tin plated ^{5 7}		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	
K		Tin plated ^{5 6}		
G	Silver ¹	Gold over silver ³	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* P, K not available with M1 and M3 terminals

* 6Amps (Movable Contact: coin silver, silver plated) available to model ON-NONE-ON without UL approval

SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 10mΩ max. initial @2-4VDC.
100mA, for both silver and gold plated contacts.
INSULATION RESISTANCE: 1,000MΩ min.
DIELECTRIC STRENGTH: 1500V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C.

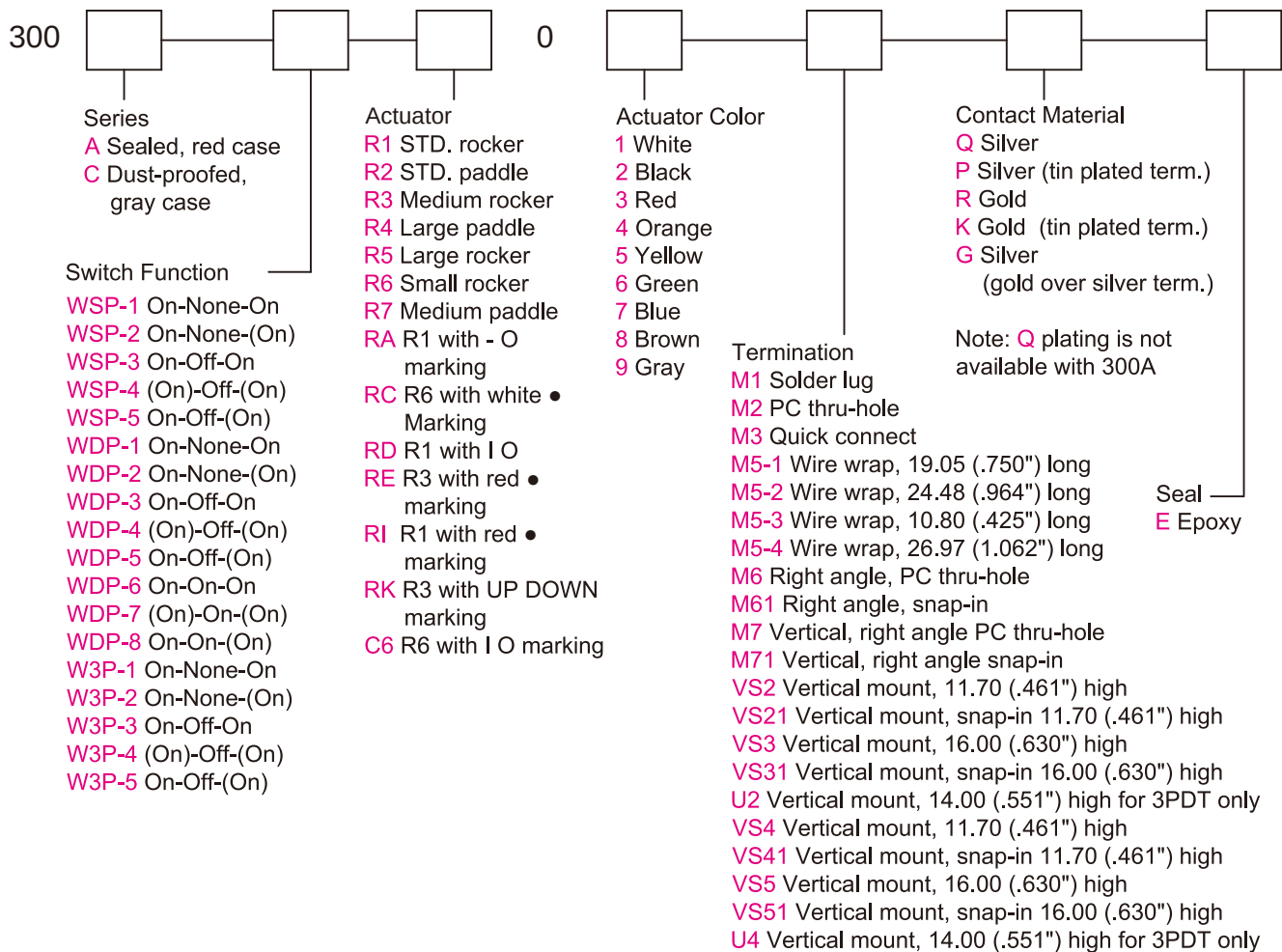
MATERIALS:

CASE & BUSHING: PA9T or FR52, flame retardant, heat stabilized (UL 94V-0).
ACTUATOR: Nylon, black std, internal o-ring sealed (300A).
ACTUATOR: Nylon, black std (300C).
PANEL REAR MOUNT: Nylon, black std.
SWITCH SUPPORT: Brass, tin plated.
ACTUATOR PIVOT & MOUNTING BRACKET: Nylon, black std.
ACTUATOR PIVOT RETAINER: Stainless steel.
TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



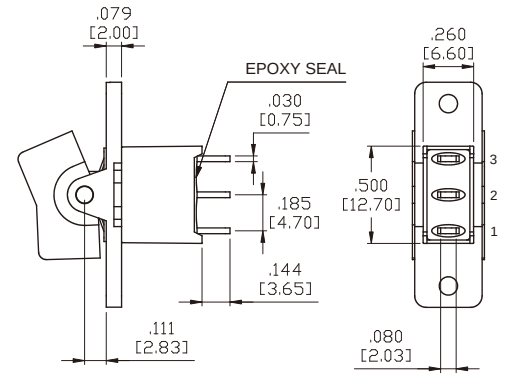
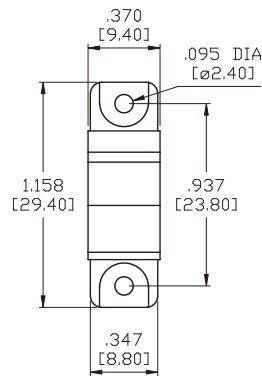
Series 300A/C (Sealed) Miniature Rocker & Paddle Switches

SPDT



Model No.	Switching Position		
WSP-1	ON	NONE	ON
WSP-2	ON	NONE	(ON)
WSP-3	ON	OFF	ON
WSP-4	(ON)	OFF	(ON)
WSP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic



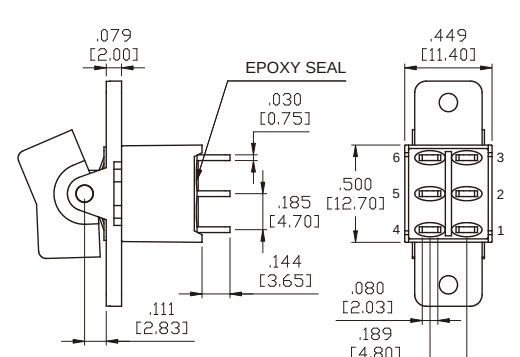
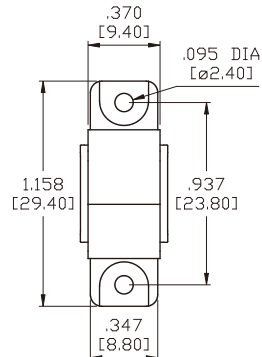
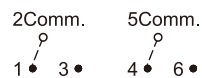
DPDT



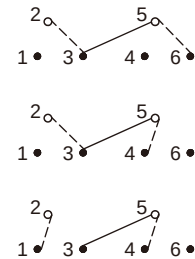
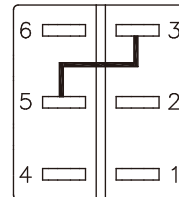
Model No.	Switching Position		
WDP-1	ON	NONE	ON
WDP-2	ON	NONE	(ON)
WDP-3	ON	OFF	ON
WDP-4	(ON)	OFF	(ON)
WDP-5	ON	OFF	(ON)
Term. Comm.	2-3,5-6	OPEN	2-1,5-4

Model No.	Switching Position		
WDP-6	ON	ON	ON
WDP-7	(ON)	ON	(ON)
WDP-8	ON	ON	(ON)
WDP-9	OFF	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

Schematic



WIRING FOR ON-ON-ON (3-WAY) FUNCTION

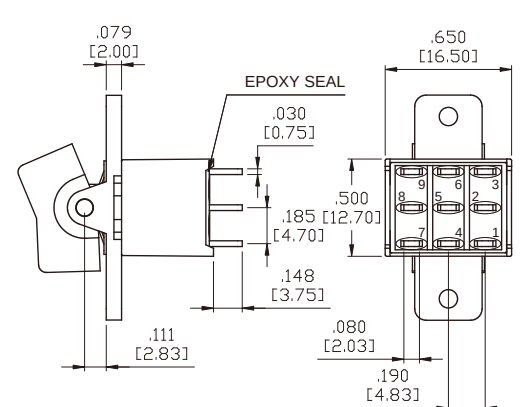
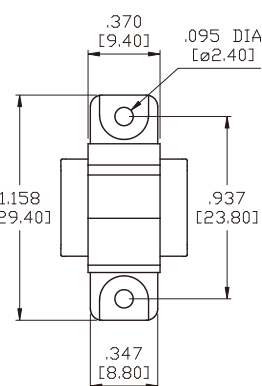


3PDT



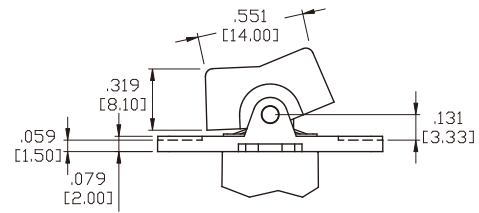
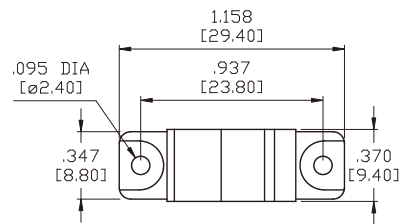
Model No.	Switching Position		
W3P-1	ON	NONE	ON
W3P-2	ON	NONE	(ON)
W3P-3	ON	OFF	ON
W3P-4	(ON)	OFF	(ON)
W3P-5	ON	OFF	(ON)
Term. Comm.	2-3,5-6	OPEN	2-1,5-4

Schematic

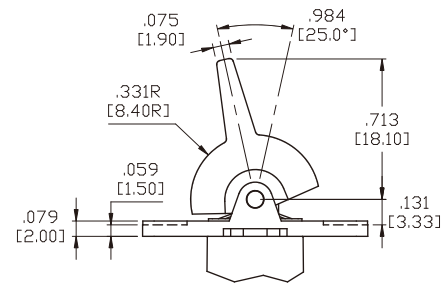
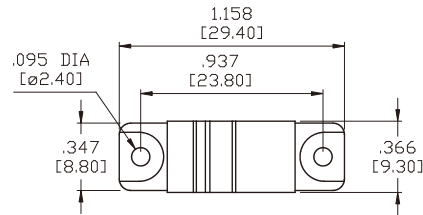


ACTUATOR OPTIONS FOR PANEL REAR MOUNT

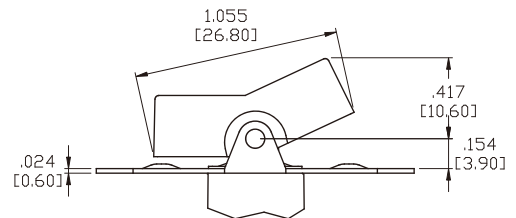
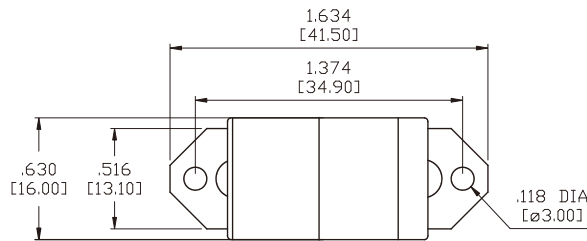
R1



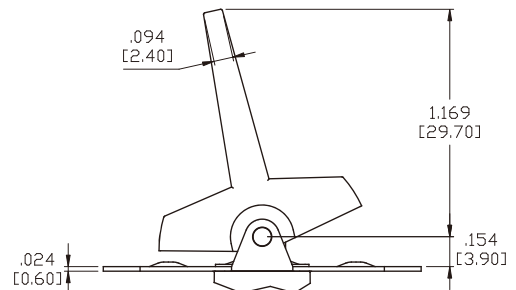
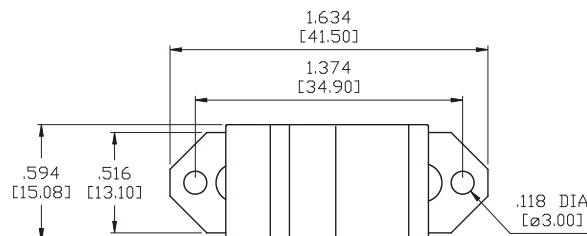
R2



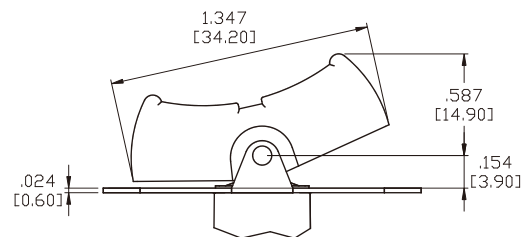
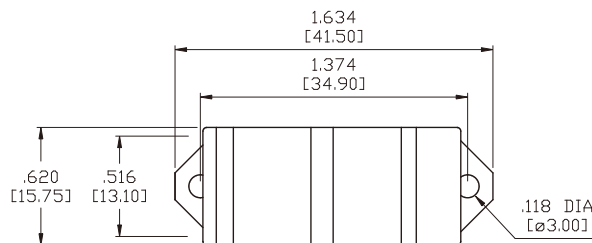
R3



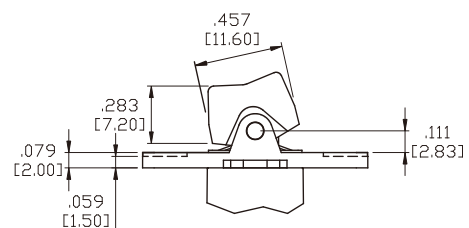
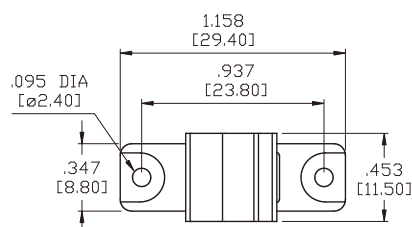
R4



R5



R6



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

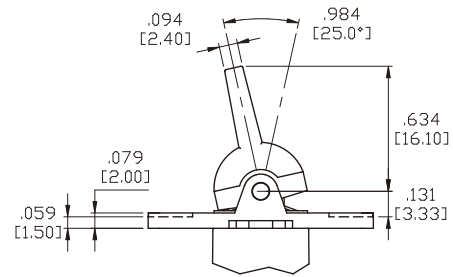
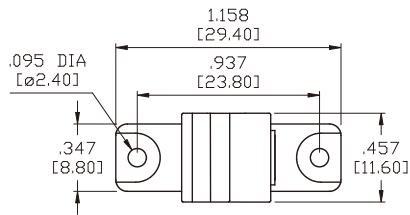
Touch Key

Miscellaneous

Series 300A/C (Sealed) Miniature Rocker & Paddle Switches

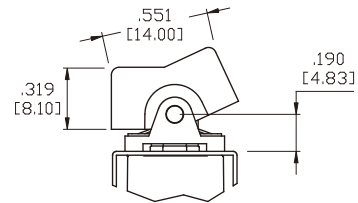
ACTUATOR OPTIONS FOR PANEL REAR MOUNT

R7

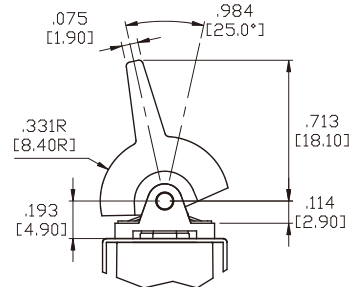


ACTUATOR OPTIONS FOR P.C MOUNT

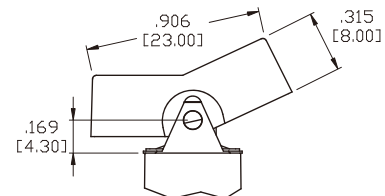
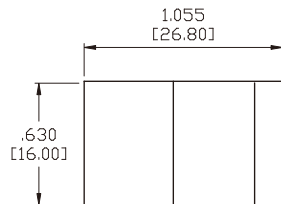
R1



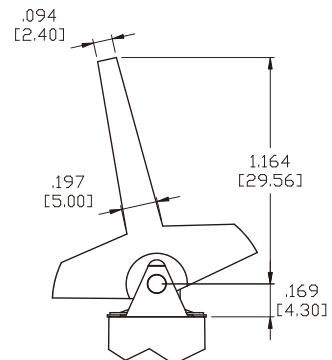
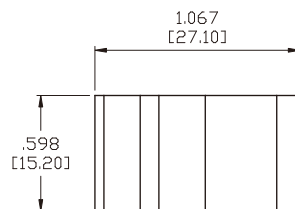
R2



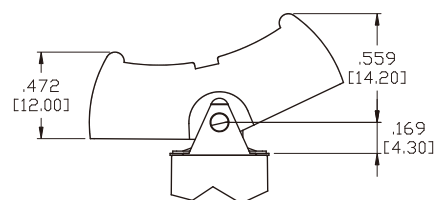
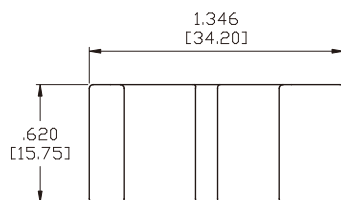
R3



R4

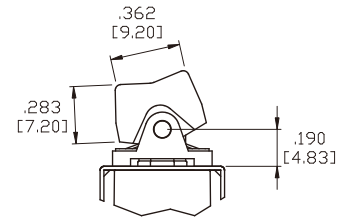


R5

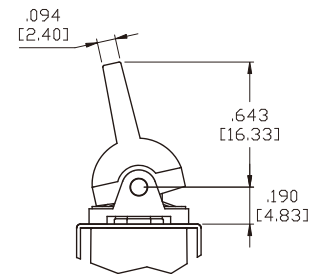
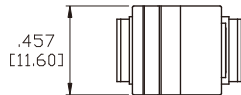


ACTUATOR OPTIONS FOR P.C MOUNT

R6

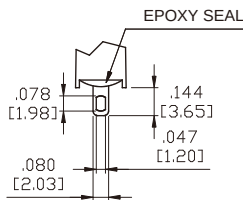


R7



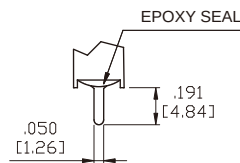
TERMINATION OPTIONS

M1 STD. SOLDER LUG



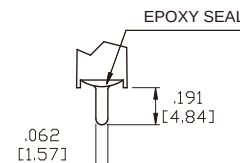
THK .030 [0.75]

M2 PC THRU-HOLE



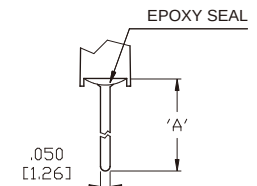
THK .030 [0.75]

M3 QUICK CONNECT



THK .030 [0.75]

M5 WIRE WRAP



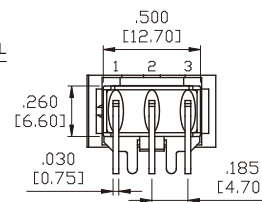
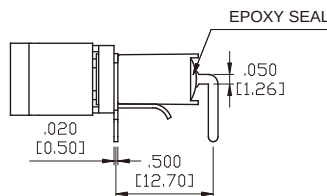
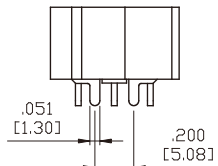
THK .030 [0.75]

OPTION CODE	DIM.'A'
M5-1	.711 [18.05]
M5-2	.924 [23.48]
M5-3	.386 [9.80]
M5-4	1.022 [25.97]

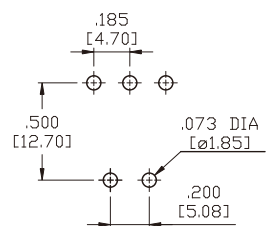
M6



SPDT



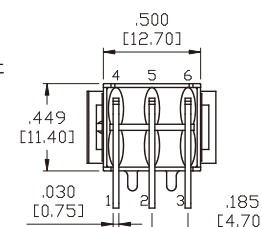
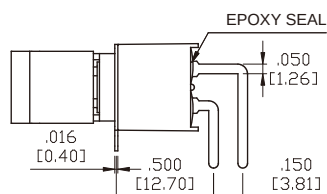
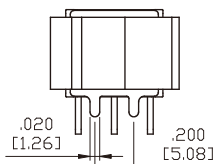
P.C.MOUNTING



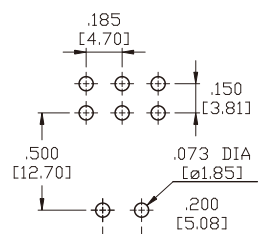
M6



DPDT



P.C.MOUNTING



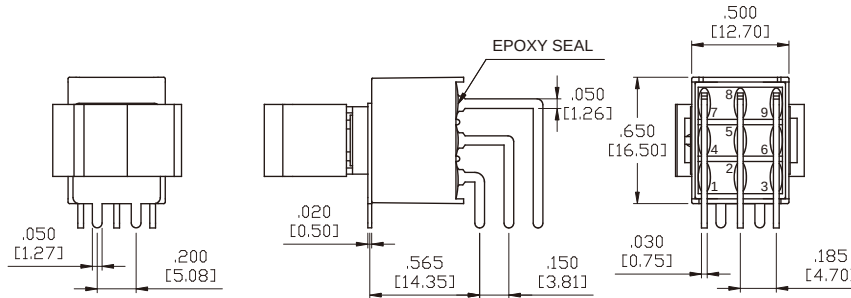
Series 300A/C (Sealed) Miniature Rocker & Paddle Switches

TERMINATION OPTIONS

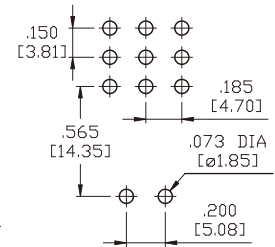
M6



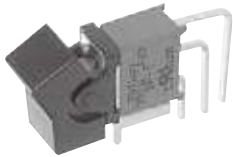
3PDT



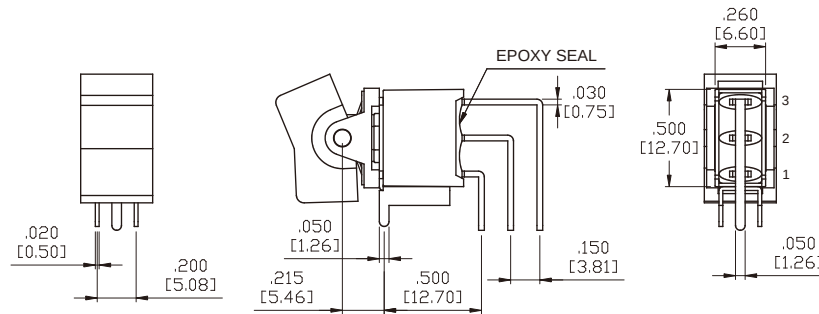
P.C.MOUNTING



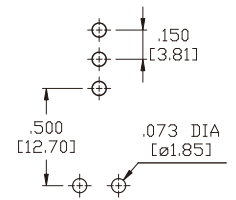
M7



SPDT



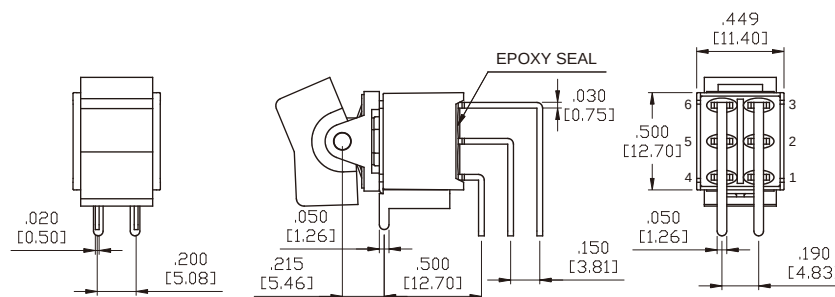
P.C.MOUNTING



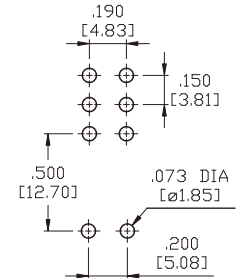
M7



DPDT



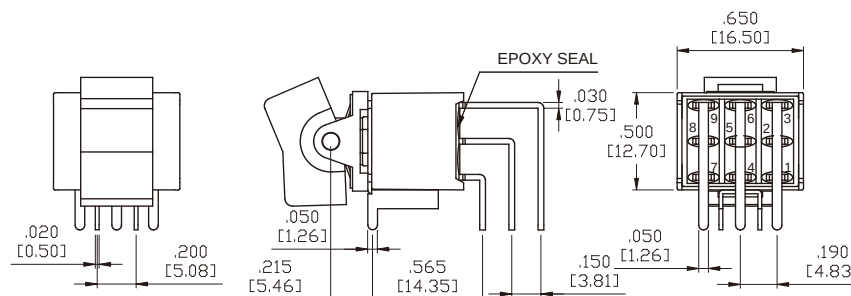
P.C.MOUNTING



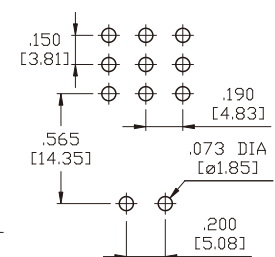
M7



3PDT



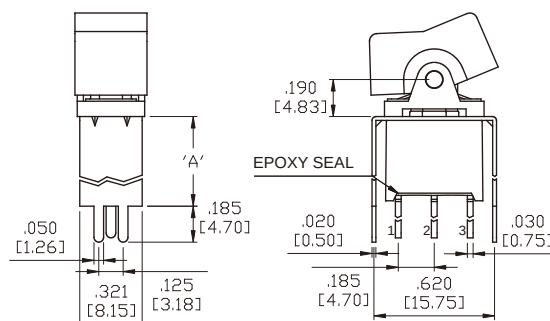
P.C.MOUNTING



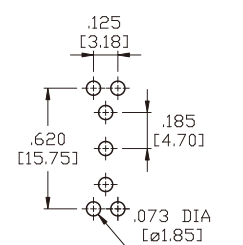
VS2-VS3



SPDT



P.C.MOUNTING



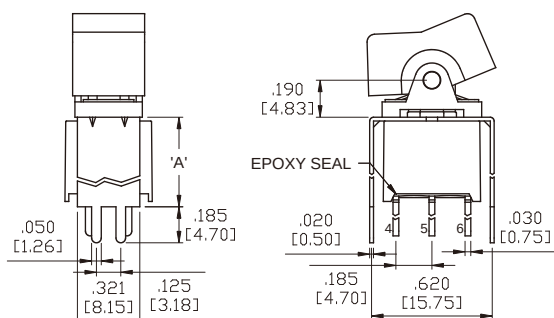
OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

TERMINATION OPTIONS

VS2-VS3

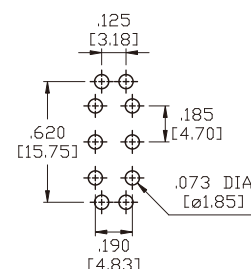


DPDT



OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

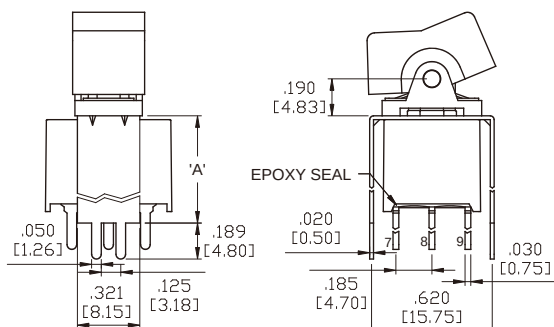
P.C.MOUNTING



U2-VS3

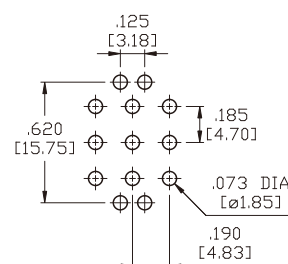


3PDT



OPTION CODE	DIM.'A'
U2	.551 [14.00]
VS3	.630 [16.00]

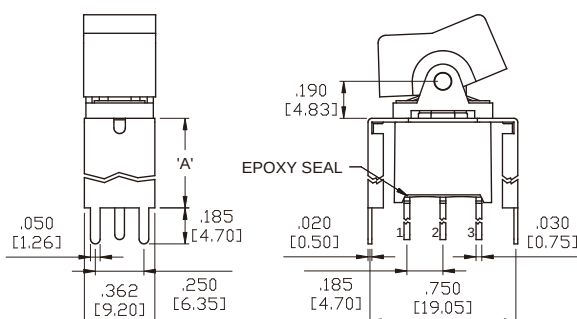
P.C.MOUNTING



VS4-VS5

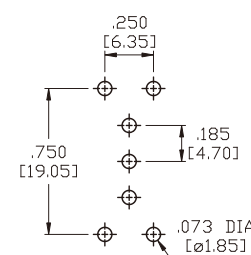


SPDT



OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

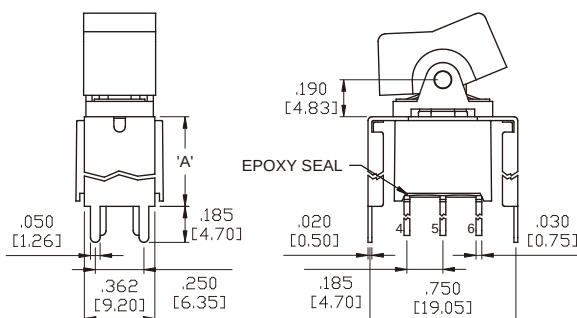
P.C.MOUNTING



VS4-VS5

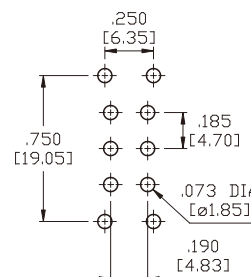


DPDT



OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

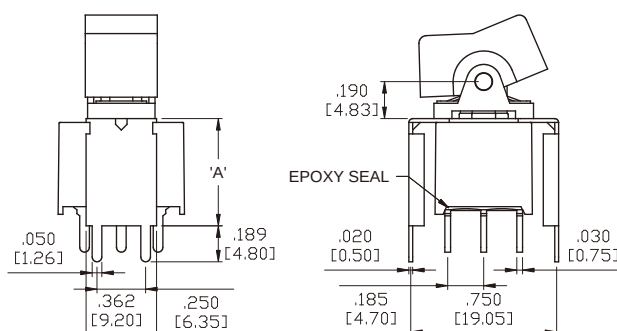
P.C.MOUNTING



U4-VS5

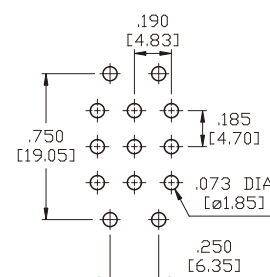


3PDT



OPTION CODE	DIM.'A'
U4	.551 [14.00]
VS5	.630 [16.00]

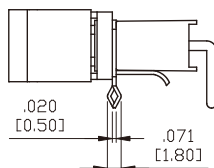
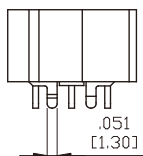
P.C.MOUNTING



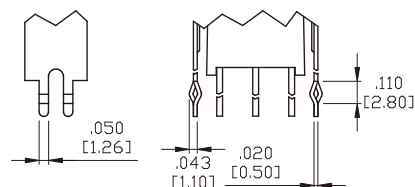
Series 300A/C (Sealed) Miniature Rocker & Paddle Switches

SNAP-IN TERMINATION OPTIONS

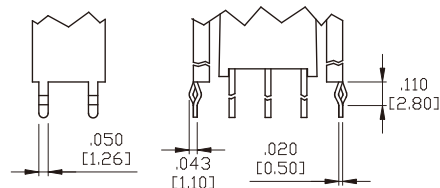
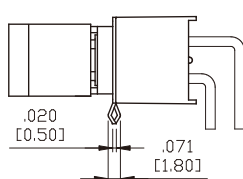
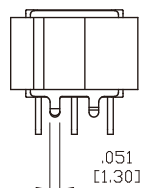
M61



VS21,VS31



VS41,VS51



* PC Mounting for M61,M71,VS21,VS31,VS41,VS51 refer to M6,M7,VS2,VS3,VS4,VS5 respectively.

CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
G	Silver ¹	Gold over silver ³	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	c UL _{US} IP67
P		Tin plated ⁵ ₇		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	IP67
K		Tin plated ⁵ ₆		

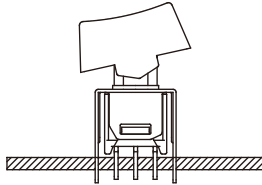
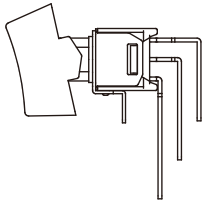
* Standard G plating for sealed product.

1. Movable Contact: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* P, K not available with M1 and M3 terminals

* 6Amps (Movable Contact: coin silver, silver plated) available to model ON-NONE-ON without UL approval

* IP67 protection for 300A series only



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.

ELECTRICAL LIFE: 30,000 make-and-break cycles at full load.

CONTACT RESISTANCE: 20mΩ max. initial @ 2-4 VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000MΩ min.

DELECTRIC STRENGTH: 1,500 V RMS @ sea level.

OPERATING TEMPERATURE: -30°C to +85°C.

MATERIALS:

CASE: Diallyl phthalate(DAP)(UL 94V-0).

ROCKER: Nylon 6/6 (UL 94V-0).

BUSHING: Zinc, nickel plated.

HOUSING: Stainless Steel.

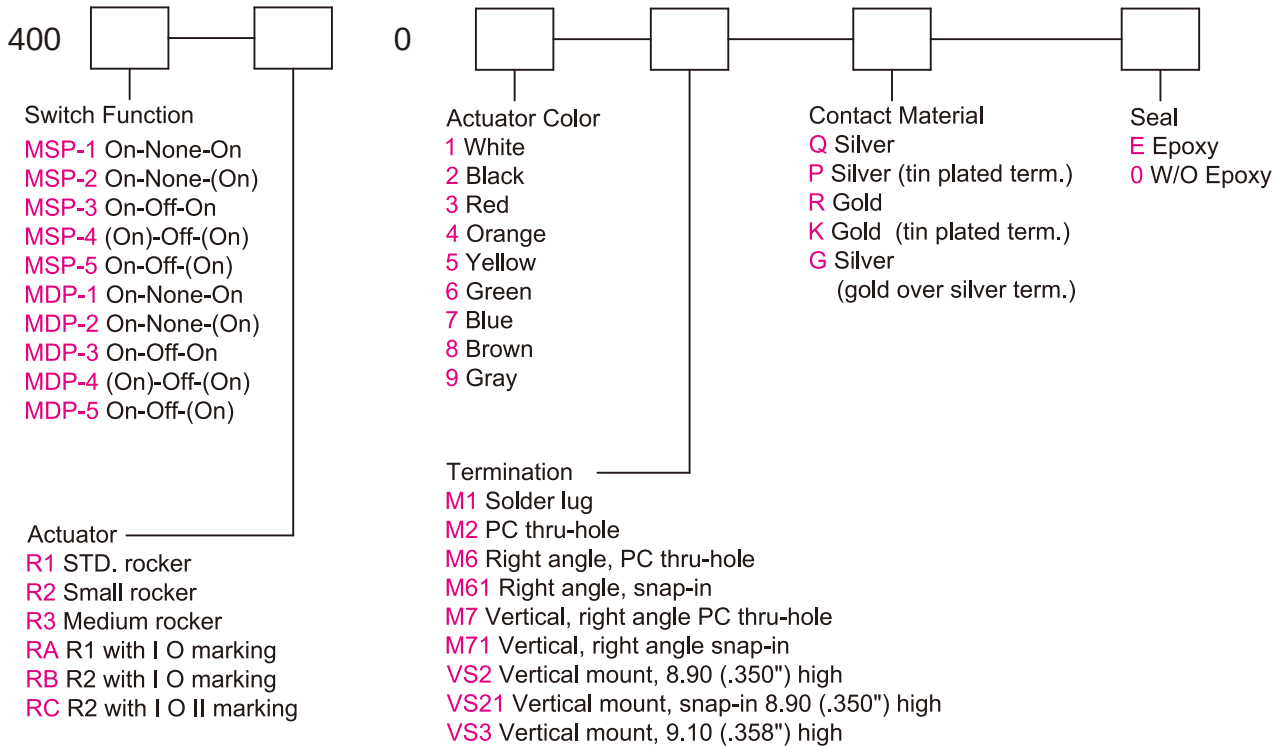
SWTCH SUPPORT: Brass, tin plated.

TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



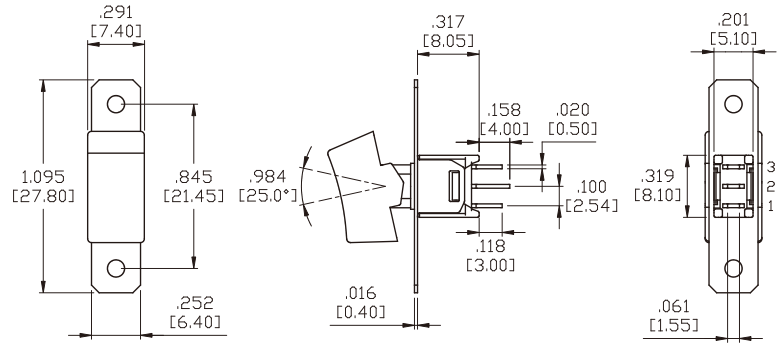
SPDT



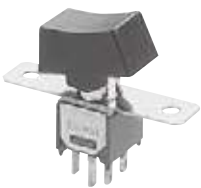
Model No.	Switching Position		
MSP-1	ON	NONE	ON
MSP-2	ON	NONE	(ON)
MSP-3	ON	OFF	ON
MSP-4	(ON)	OFF	(ON)
MSP-5	ON	OFF	(ON)
TERM. COMM.	2-3	OPEN	2-1

Schematic

2Comm.



DPDT

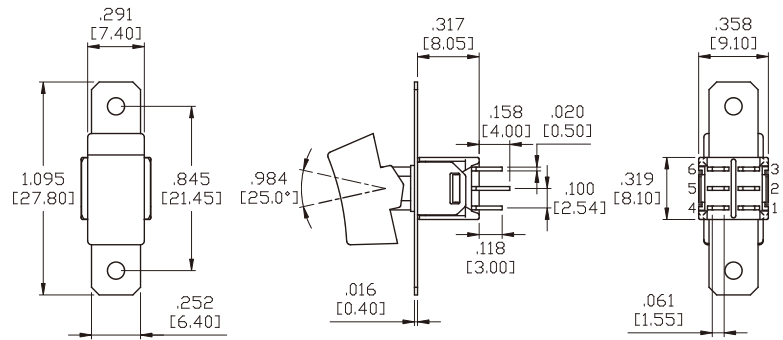


Model No.	Switching Position		
MDP-1	ON	NONE	ON
MDP-2	ON	NONE	(ON)
MDP-3	ON	OFF	ON
MDP-4	(ON)	OFF	(ON)
MDP-5	ON	OFF	(ON)
TERM. COMM.	2-3,5-6	OPEN	2-1,5-4

Schematic

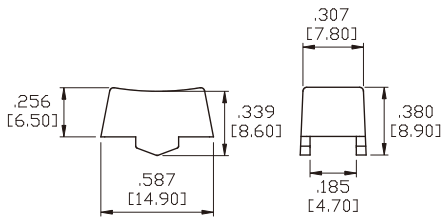
2Comm.

5Comm.

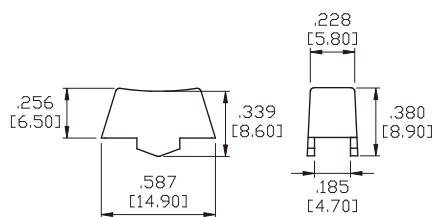


ACTUATOR OPTIONS

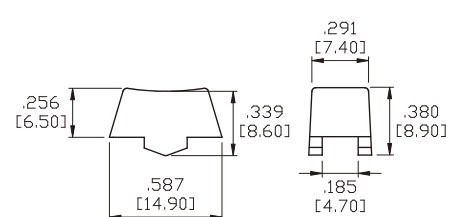
R1



R2

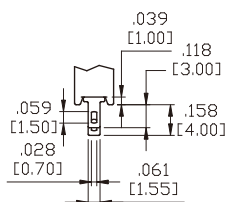


R3

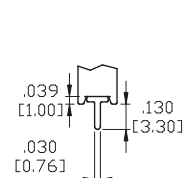


TERMINATION OPTIONS

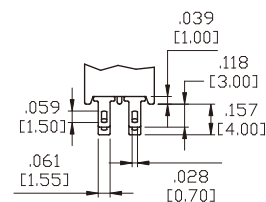
M1 STD. SOLDER LUG



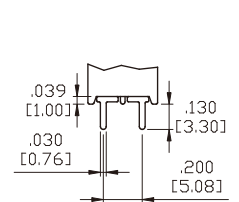
M2 PC THRU-HOLE



M1 STD. SOLDER LUG



M2 PC THRU-HOLE

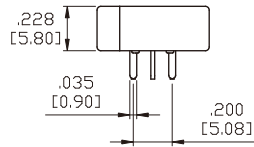


SP

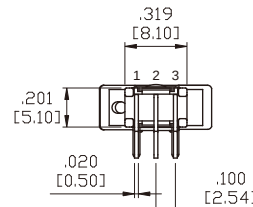
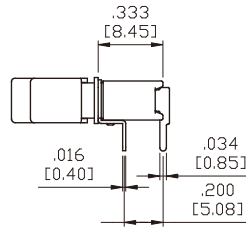
DP

TERMINATION OPTIONS

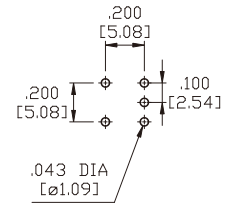
M6



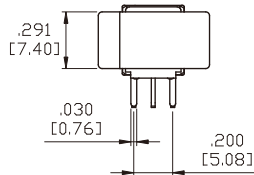
SPDT



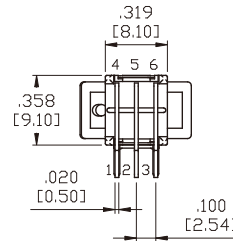
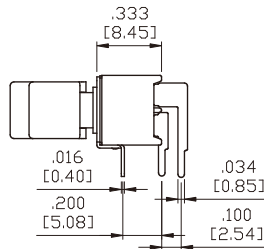
P.C.MOUNTING



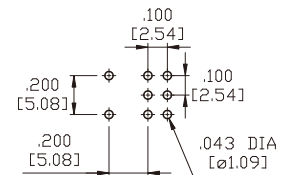
M6



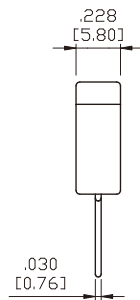
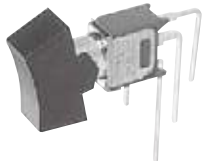
DPDT



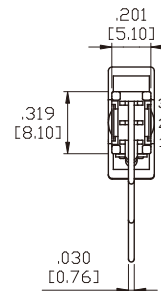
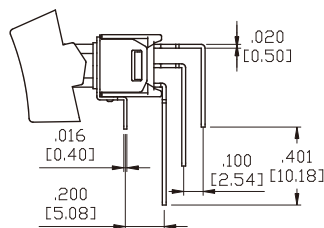
P.C.MOUNTING



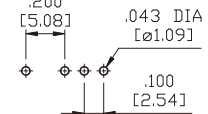
M7



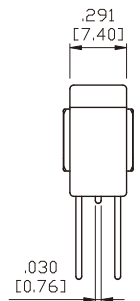
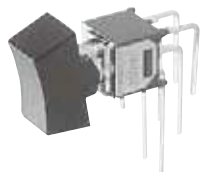
SPDT



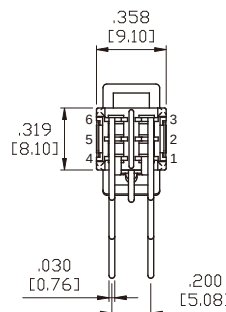
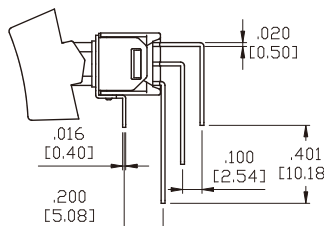
P.C.MOUNTING



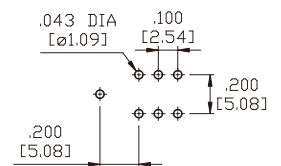
M7



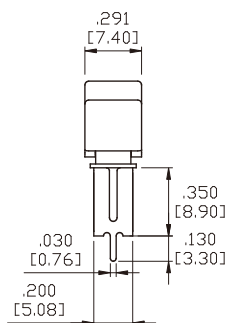
DPDT



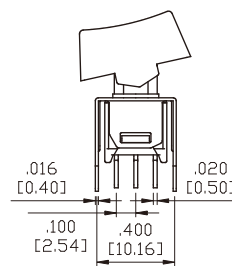
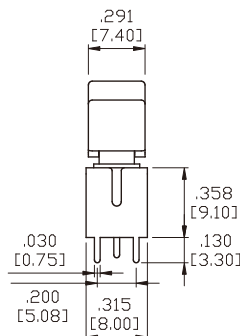
P.C.MOUNTING



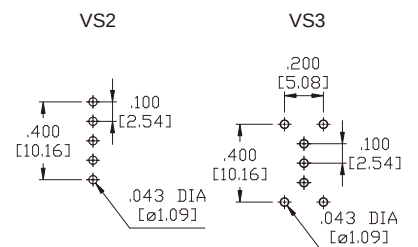
VS2-VS3



SPDT



P.C.MOUNTING



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

Touch Key

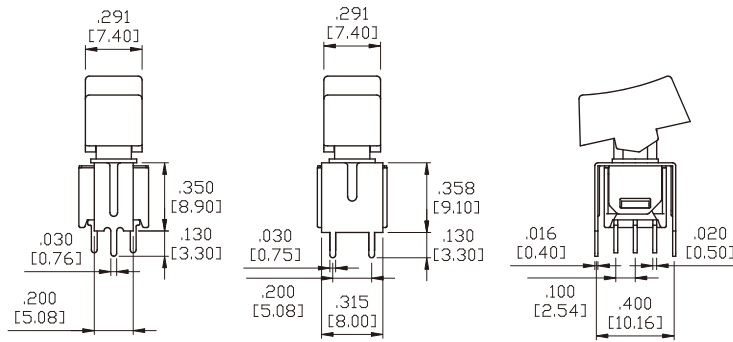
Miscellaneous

TERMINATION OPTIONS

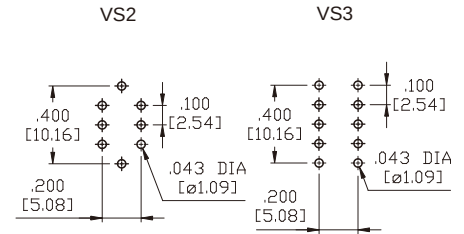
VS2-VS3



DPDT

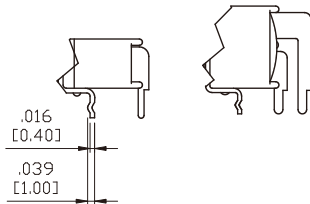


P.C.MOUNTING

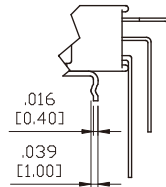


SNAP-IN TERMINATION OPTIONS

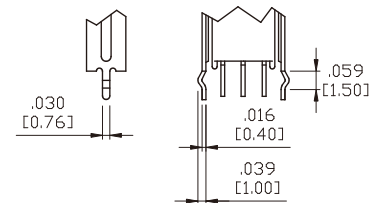
M61



M71



VS21



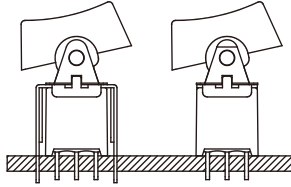
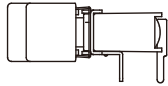
* PC Mounting for M61,M71,VS21 refer to M6,M7,VS2 respectively.

CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	
P		Tin plated ^{5 7}		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	
K		Tin plated ^{5 6}		
G	Silver ¹	Gold over silver ³	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* P, K is not available with M1 terminal.



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
ELECTRICAL LIFE: 30,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 20mΩ max. initial @2-4VDC
100mA, for both silver and gold plated contacts.
INSULATION RESISTANCE: 1,000MΩ min.
DIELECTRIC STRENGTH: 1500V RMS max. @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C.

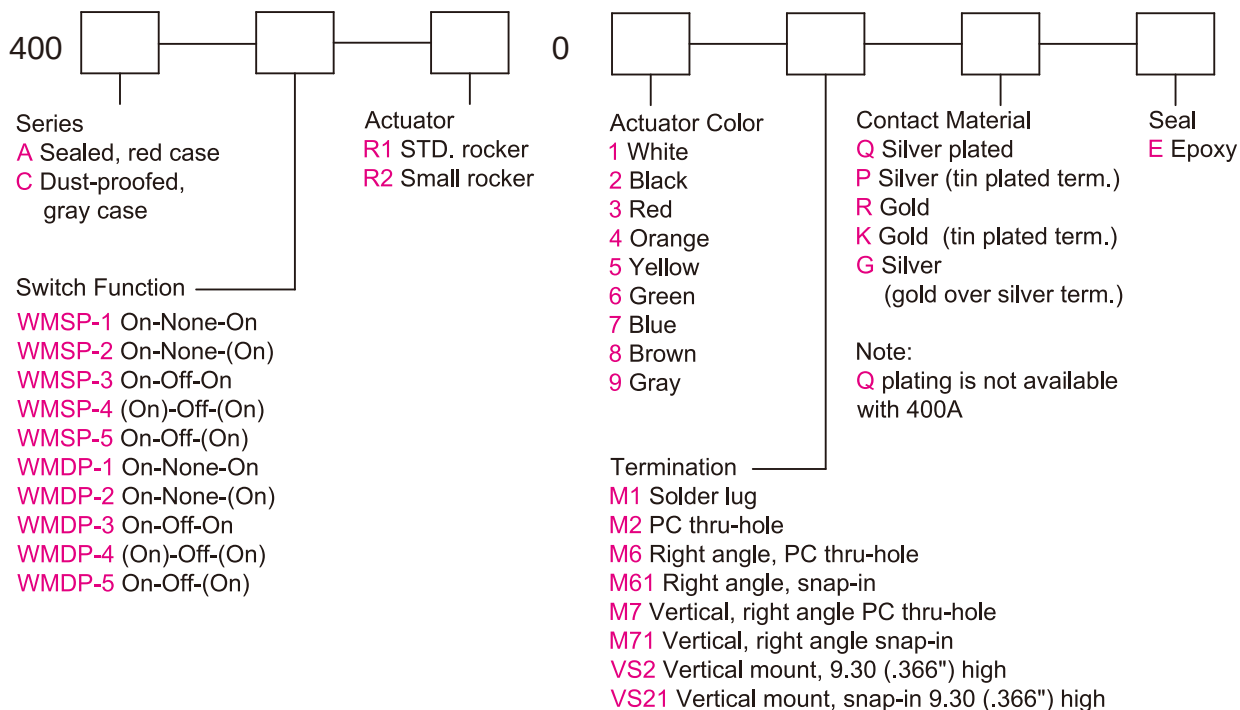
MATERIALS:

CASE & BUSHING: PA9T or FR52, flame retardant, heat stabilized (UL 94V-0).
ROCKER: PA46 (UL 94V-0) or ABS.
ACTUATOR: Brass, chrome plated, internal o-ring sealed (400A).
ACTUATOR: Brass, chrome plated (400C).
SWITCH SUPPORT: Brass, tin plated.
TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



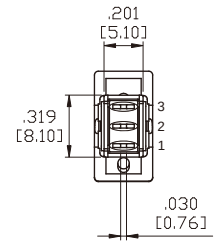
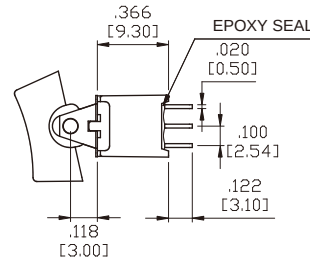
SPDT



Model No.	Switching Position		
WMSP-1	ON	NONE	ON
WMSP-2	ON	NONE	(ON)
WMSP-3	ON	OFF	ON
WMSP-4	(ON)	OFF	(ON)
WMSP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic

2Comm.



DPDT

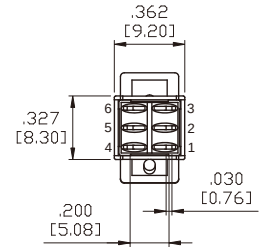
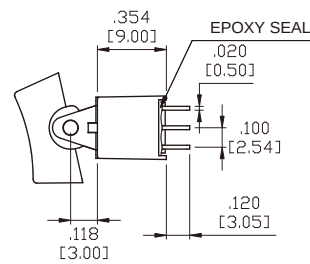


Model No.	Switching Position		
WMDP-1	ON	NONE	ON
WMDP-2	ON	NONE	(ON)
WMDP-3	ON	OFF	ON
WMDP-4	(ON)	OFF	(ON)
WMDP-5	ON	OFF	(ON)
Term. Comm.	2-3,5-6	OPEN	2-1,5-4

Schematic

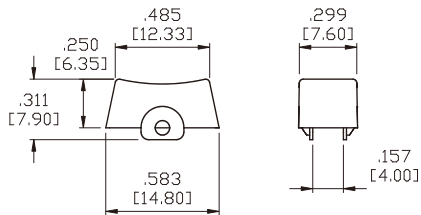
2Comm.

5Comm.

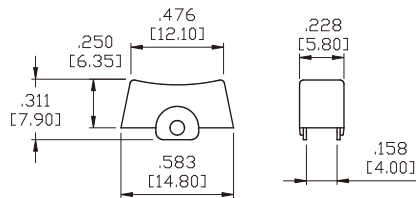


ACTUATOR OPTIONS

R1



R2

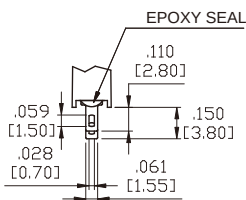


ACTUATOR COLORS	
1	White
2	Black (std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

TERMINATION OPTIONS

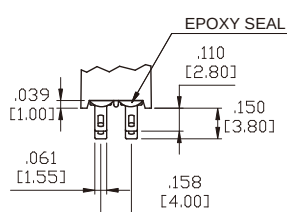
M1 STD. SOLDER LUG

SP



THK .020 [0.50]

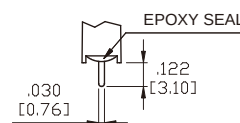
DP



THK .020 [0.50]

M2 PC THRU-HOLE

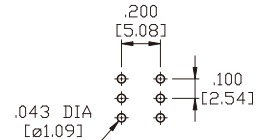
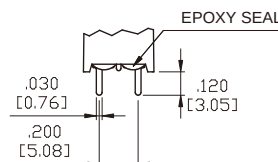
SP



P.C.MOUNTING



DP

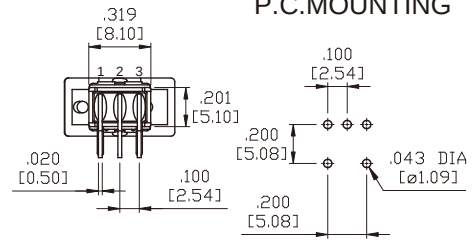
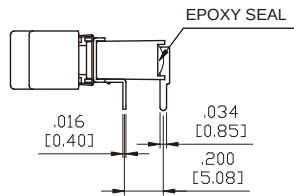
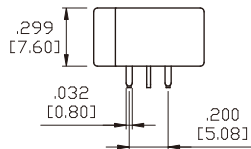


TERMINATION OPTIONS

M6



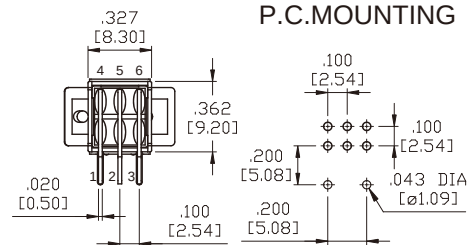
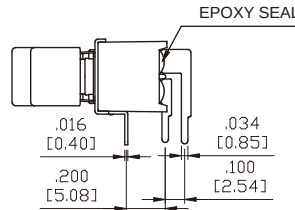
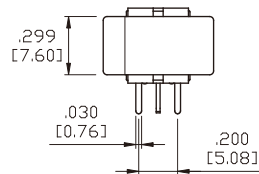
SPDT



M6



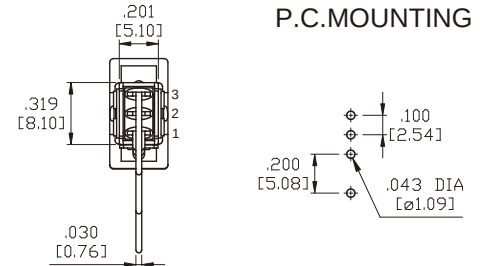
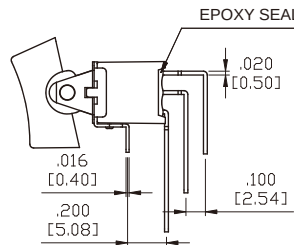
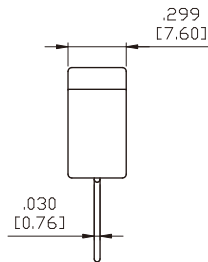
DPDT



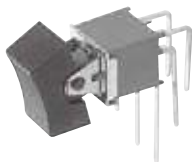
M7



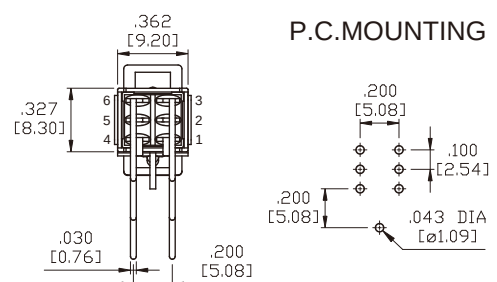
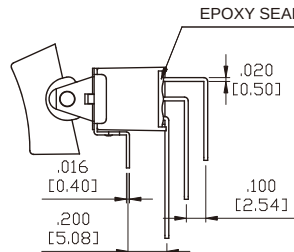
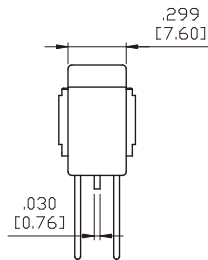
SPDT



M7



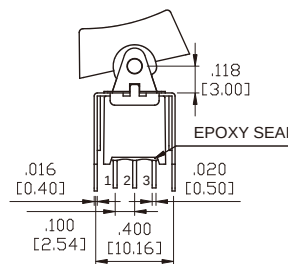
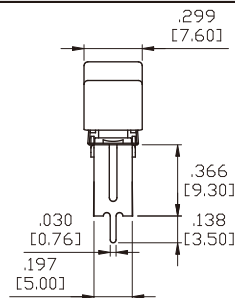
DPDT



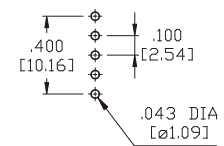
VS2



SPDT



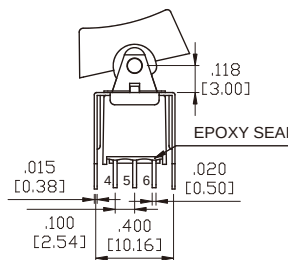
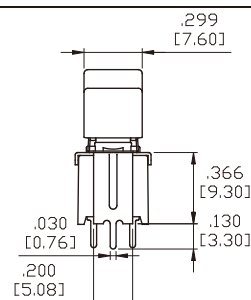
P.C.MOUNTING



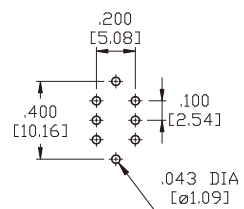
VS2



DPDT



P.C.MOUNTING



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

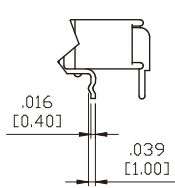
Tact

Touch Key

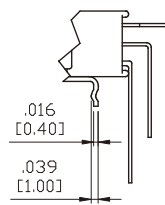
Miscellaneous

SNAP-IN TERMINATION OPTIONS

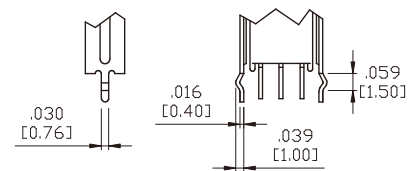
M61



M71



VS21



* PC Mounting for M61,M71,VS21 refer to M6,M7,VS2 respectively.

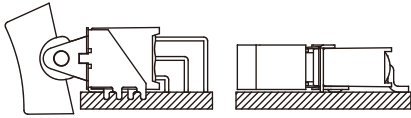
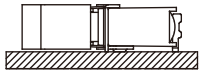
CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
G	Silver ¹	Gold over silver ³	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	IP67
P		Tin plated ^{5 7}		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	IP67
K		Tin plated ^{5 6}		

* Standard G plating for sealed product.

1. Movable Contact: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* IP67 protection for series 400A only.



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
ELECTRICAL LIFE: 30,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 20mΩ max. initial @2-4 VDC
100mA, for both silver and gold plated contacts.
INSULATION RESISTANCE: 1,000MΩ min.
DIELECTRIC STRENGTH: 1500V RMS max. @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C.

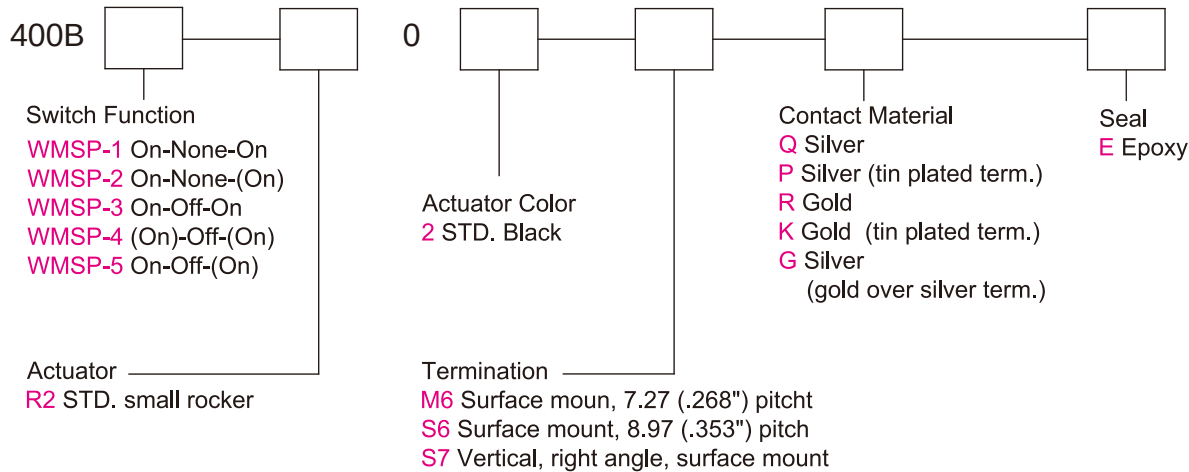
MATERIALS:

CASE & BUSHING: PA46 or FR52, flame retardant, heat stabilized (UL 94V-0).
ROCKER: PA46 (UL 94V-0), black std.
ACTUATOR: Brass, internal o-ring sealed (std).
SWITCH SUPPORT: Brass (or Phosphor bronze), tin plated.
TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



M6



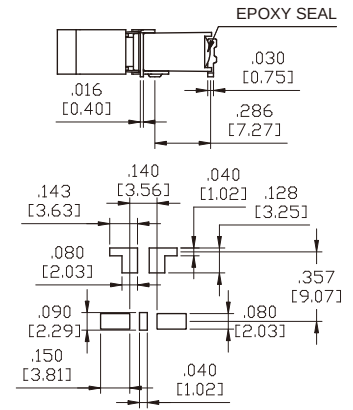
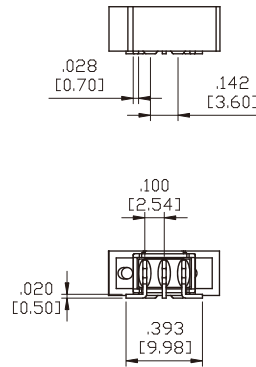
Model No.	Switching Position		
WMSP-1	ON	NONE	ON
WMSP-2	ON	NONE	(ON)
WMSP-3	ON	OFF	ON
WMSP-4	(ON)	OFF	(ON)
WMSP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic

2Comm.

1 3 •

SPDT



S6



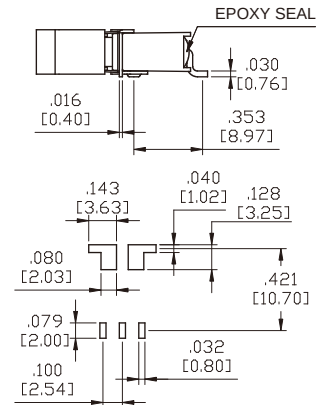
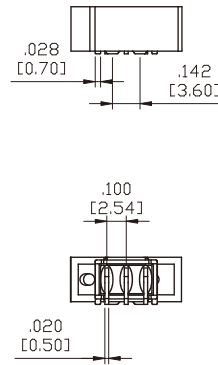
Model No.	Switching Position		
WMSP-1	ON	NONE	ON
WMSP-2	ON	NONE	(ON)
WMSP-3	ON	OFF	ON
WMSP-4	(ON)	OFF	(ON)
WMSP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic

2Comm.

1 3 •

SPDT



S7



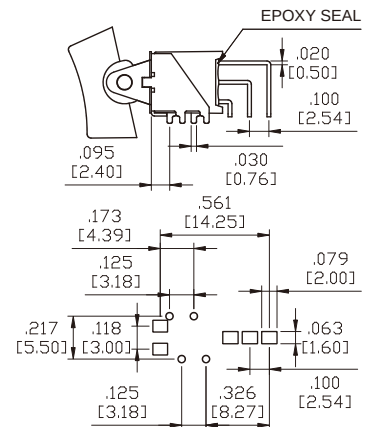
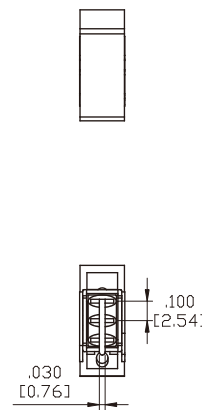
Model No.	Switching Position		
WMSP-1	ON	NONE	ON
WMSP-2	ON	NONE	(ON)
WMSP-3	ON	OFF	ON
WMSP-4	(ON)	OFF	(ON)
WMSP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

Schematic

2Comm.

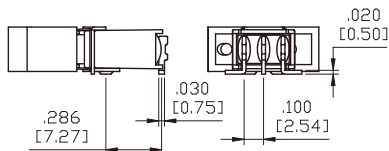
1 3 •

SPDT

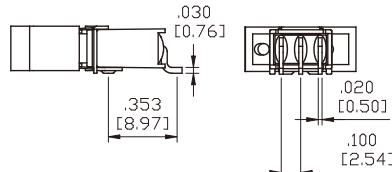


TERMINATION OPTIONS

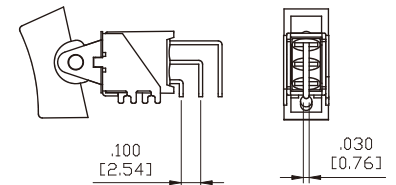
M6



S6



S7



REEL TAPING

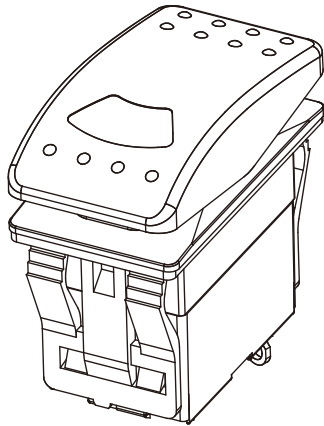
REEL INFORMATION	
OUTSIDE DIAMETER	12.99 [330.00]
PILOT HOLE	.502 [13.00]
QUANTITY PER REEL	400

CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	IP67
P		Tin plated ⁵ ₇		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	IP67
K		Tin plated ⁵ ₆		
G	Silver ¹	Gold over silver ³	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	IP67

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

NEW !



SPECIFICATIONS:

CONTACT RATING: 25A 12VDC, 15A 24VDC.
ELECTRICAL LIFE: 30,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 20m-ohms max. initial @2-4VDC
INSULATION RESISTANCE: 500VDC 100M-ohms min.
DIELECTRIC STRENGTH: 1,500VAC for 1 minute.
RESISTOR: 12V with 1K-Ohms, 24V with 2.2K-Ohms.
SOLDERING TEMPERATURE: Hand soldering 350°C for max. 3sec.
OPERATING TEMPERATURE: -20°C to +85°C

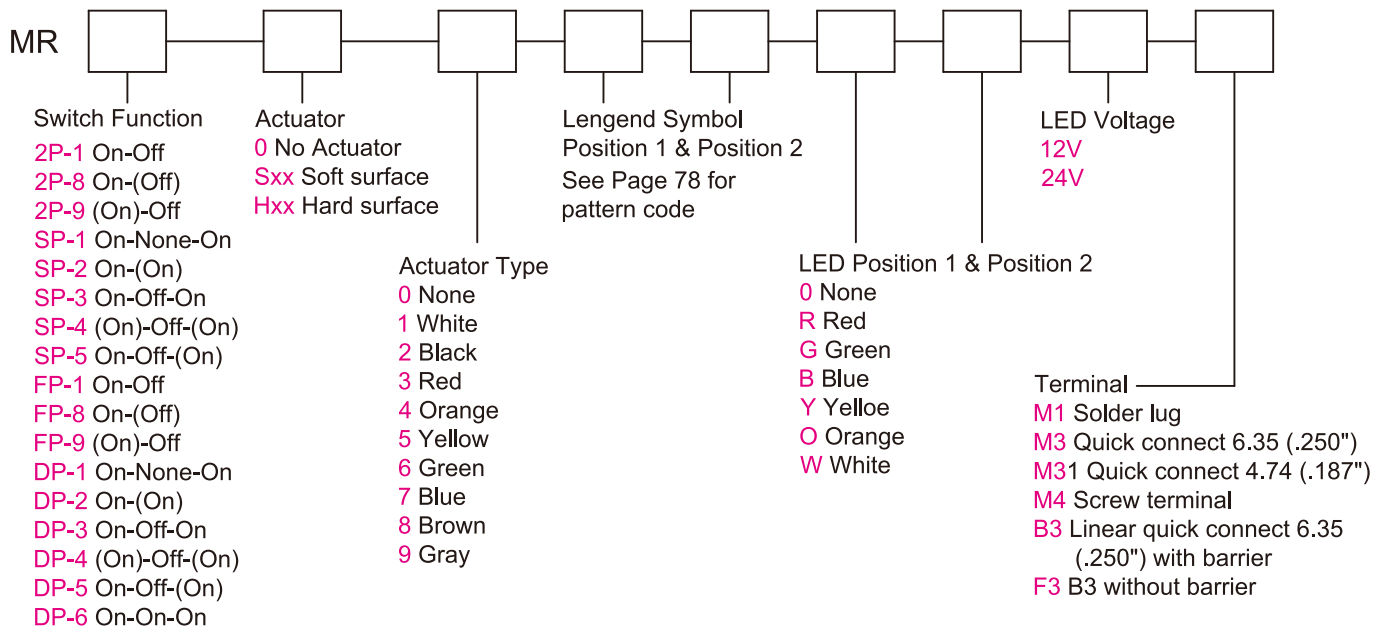
MATERIALS:

BASE: PBT UL94V-0.
ACTUATOR: PC (Hard surface) or TPR (Soft surface).
COVER: Nylon 66 UL94V-0.
ACTUATOR BLOCK: PC UL94V-0.
PIVOT PIN: PBT UL94V-0.
SPRING: Stainless steel.
CONTACT: Copper, silver rivet.
TERMINAL: Brass, tin plated.
SEAL: Silicone.
LAMP: LED.

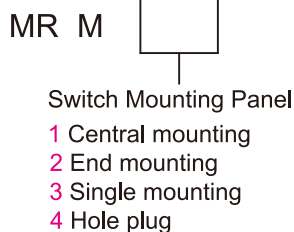
Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM

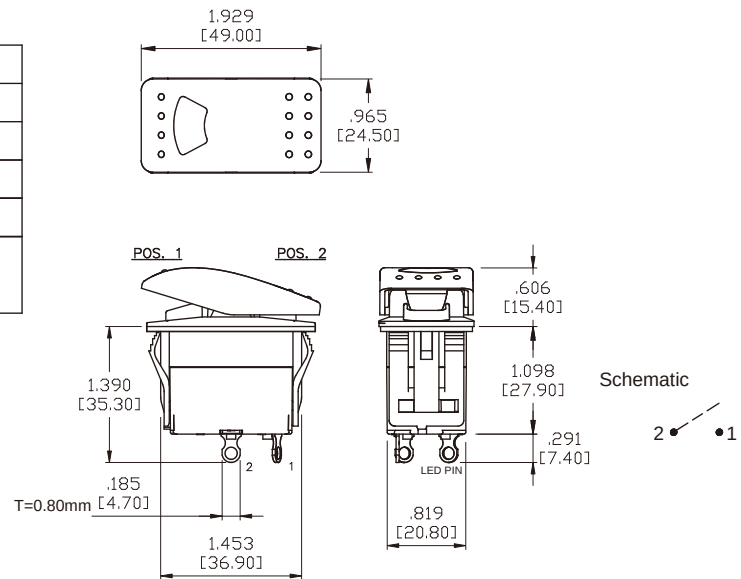


To order attachable mounting panel, please specify series name followed by the word "M" and the panel option.



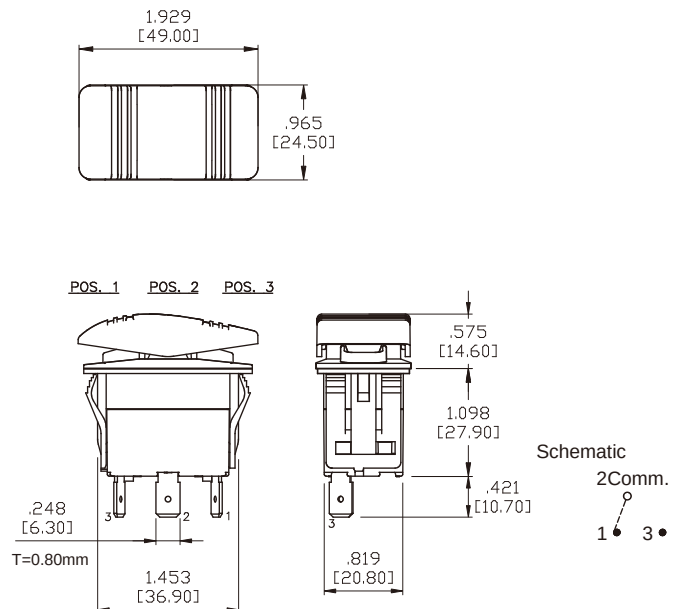
SPST

Model No.	Switching Position		
	POS. 1		POS. 2
2P-1	ON	NONE	OFF
2P-8	ON	NONE	(OFF)
2P-9	(ON)	NONE	OFF
Term. Comm.	2-1	N/A	OPEN



SPDT

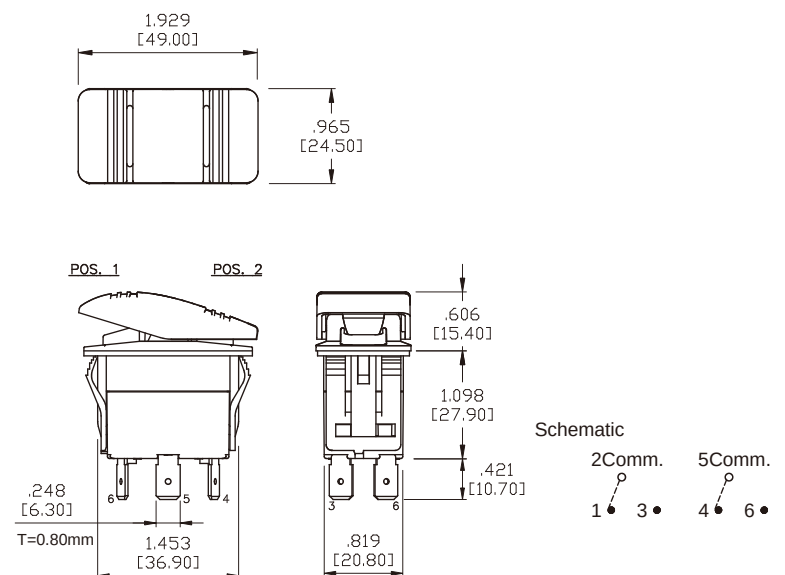
Model No.	Switching Position		
	POS. 1	POS. 2	POS. 3
SP-1	ON	NONE	ON
SP-2	ON	NONE	(ON)
SP-3	ON	OFF	ON
SP-4	(ON)	OFF	(ON)
SP-5	ON	OFF	(ON)
Term. Comm.	2-1	OPEN	2-3



DPDT

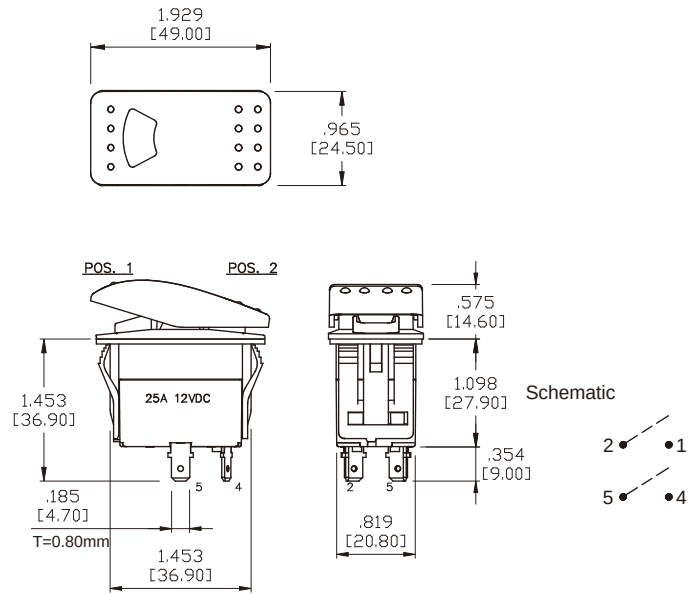
Model No.	Switching Position		
	POS. 1	POS. 2	POS. 3
DP-1	ON	NONE	ON
DP-2	ON	NONE	(ON)
DP-3	ON	OFF	ON
DP-4	(ON)	OFF	(ON)
DP-5	ON	OFF	(ON)
Term. Comm.	2-1,5-4	OPEN	2-3,5-6

Model No.	Switching Position		
	POS. 1	POS. 2	POS. 3
DP-6	ON	ON	ON
Term. Comm.	2-1,5-4	2-1,5-6	2-3,5-6

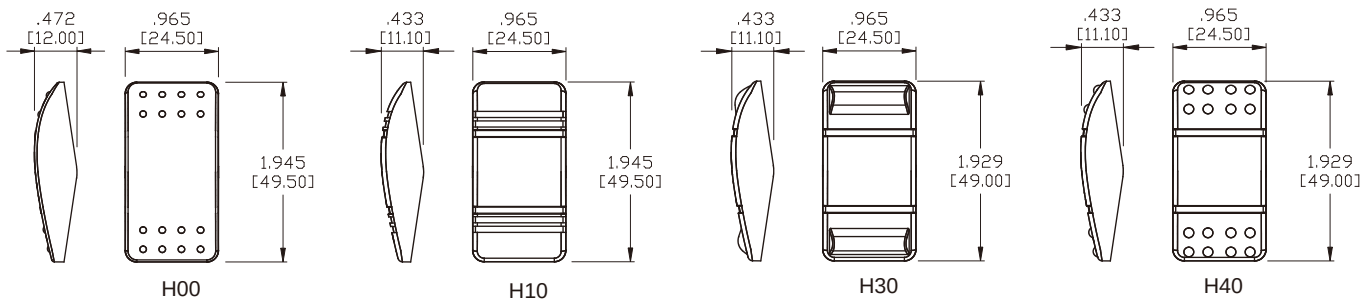


DPST

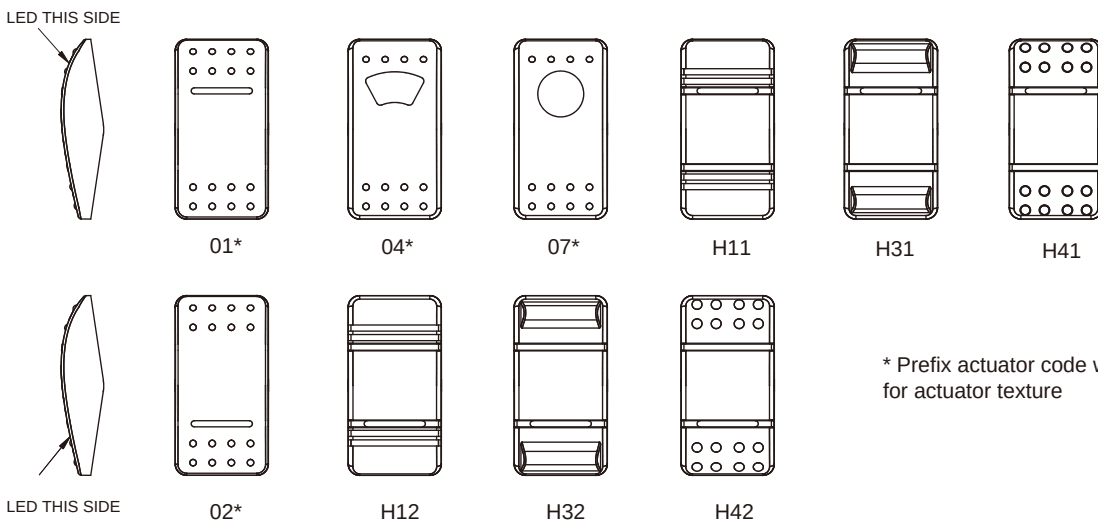
Model No.	Switching Position		
	POS. 1		POS. 2
FP-1	ON	NONE	OFF
FP-8	ON	NONE	(OFF)
FP-9	(ON)	NONE	OFF
Term. Comm.	2-1,5-4	N/A	OPEN



ACTUATOR OPTIONS

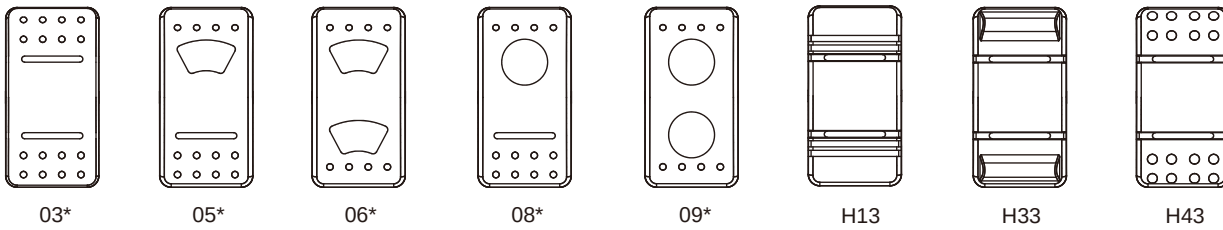


ACTUATOR WITH SINGLE LED OPTIONS



* Prefix actuator code with S (Soft) or H (Hard) for actuator texture

ACTUATOR WITH DUEL LED OPTIONS



* Prefix the code with S (Soft) or H (Hard) for actuator texture

ACTUATOR COLOR OPTIONS

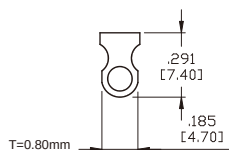
Code	Color
1	White
2	Black
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray
0	Without Actuator

LED COLOR OPTIONS

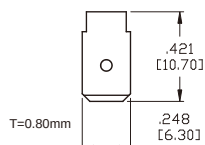
Code	Color
R	Red
G	Green
B	Blue
Y	Yellow
O	Orange
W	White
0	No LED

TERMINATION OPTIONS

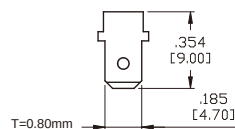
M1



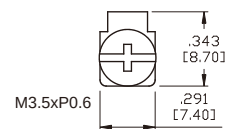
M3



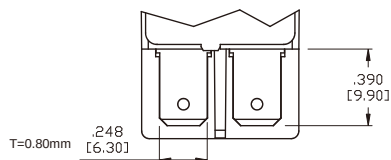
M31



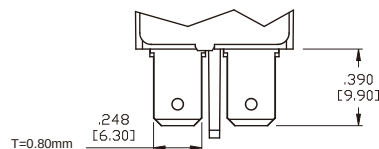
M4



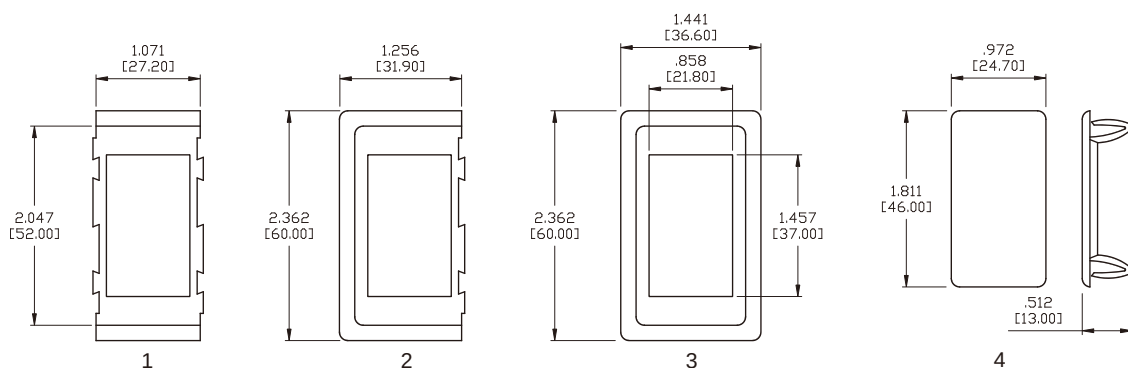
B3 With barrier



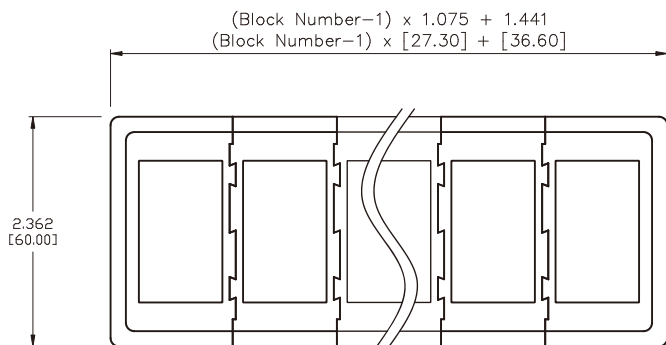
F3 W/O barrier



SWITCH MOUNTING PANEL OPTIONS

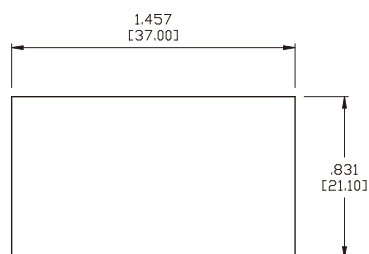


Code	Description
1	Central mounting
2	End mounting
3	Single mounting
4	Hole plug

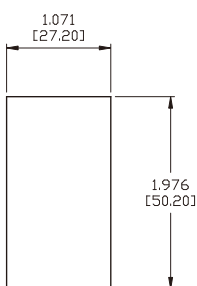


Multi Block

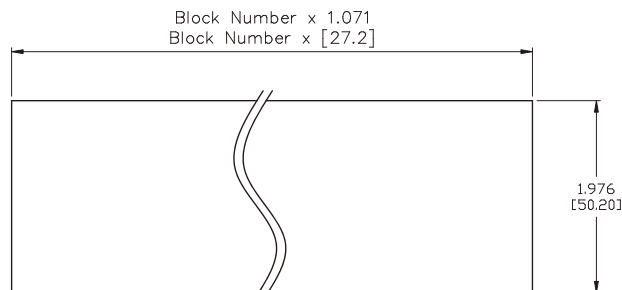
PANEL CUTOUT



For switch only

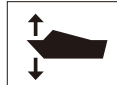
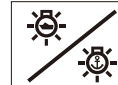
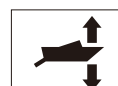
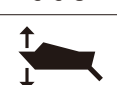
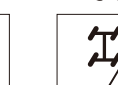
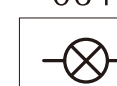
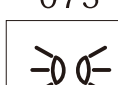
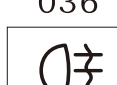
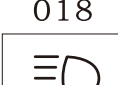


For switch with single mounting panel



For switch with multi mounting panel

LEGEND & SYMBOL OPTIONS

					BILGE PUMP		UP	
001	011	021	031	041	051	061	071	081
					WATER PUMP		DOWN	
002	012	022	032	042	052	062	072	082
					ENG HATCH			
003	013	023	033	043	053	063	073	083
					HORN			
004	014	024	034	044	054	064	074	084
					BLOWER			
005	015	025	035	045	055	065	075	085
					NAV LTS			
006	016	026	036	046	056	066	076	086
	BATTERY PARALLEL				COURT LTS			
007	017	027	037	047	057	067	077	087
					PANEL LTS		HIGH	LIGHT
008	018	028	038	048	058	068	078	088
					ANCH LTS	WIPER	LOW	
009	019	029	039	049	059	069	079	089
					TRIM TAB	BILGE		
010	020	030	040	050	060	070	080	090

SPECIFICATIONS:

CONTACT RATING: 6A 250VAC 10A 125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 50,000 Operations.
CONTACT RESISTANCE: <20m-ohms.
INSULATION RESISTANCE: >1,000M-ohms.
DIELECTRIC STRENGTHS: >1,500 volts 1min.
>3,000 Volts between poles.

MATERIALS:

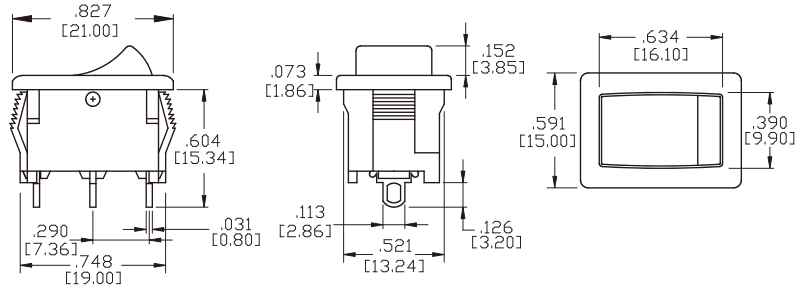
HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

Specifications and Dimensions subject to change



SPDT

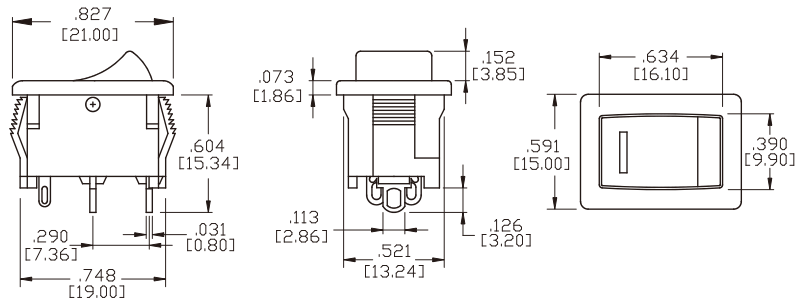
Model No.	Type
33A	ON-OFF
33B	ON-ON
33C	(ON)-OFF
33D	ON-(OFF)
33F	ON-OFF-ON
33H	(ON)-OFF-(ON)



SPST

Model No.	Type
R19-33E	ON-OFF W/LED
R19-33G	SPDT ON-(ON)

LED Color	
1	Red
2	Yellow
3	Green
4	Blue



MARK OPTIONS

A



B



C



D



E

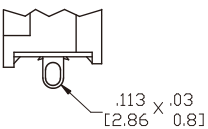


F

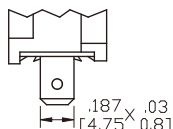


TERMINATION OPTIONS

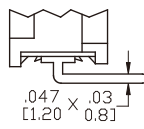
M1



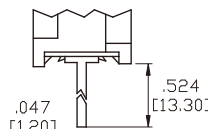
M2



M3



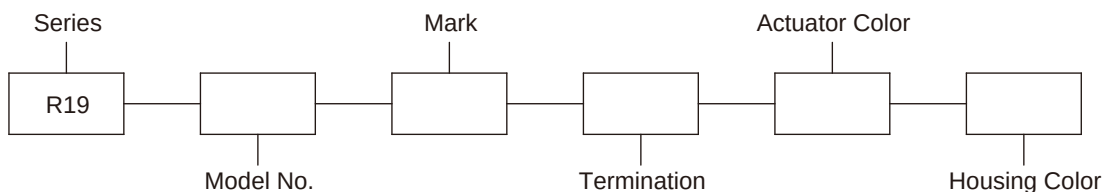
M4



COLOR OPTIONS

Actuator and Housing Colors	
1	White
2	Black (Std.)
3	Red
4	Charcoal Gray

HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 5A 250VAC 10 125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 50,000 Operations.
CONTACT RESISTANCE: <20m-ohms.
INSULATION RESISTANCE: >1,000M-ohms.
DIELECTRIC STRENGTHS: >1,500 volts 1min.
>3,000 volts between poles.

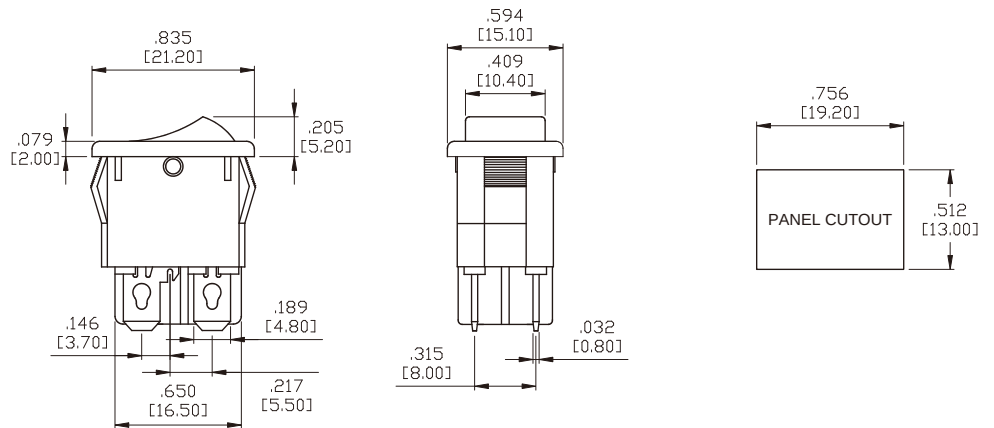
MATERIALS:

HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

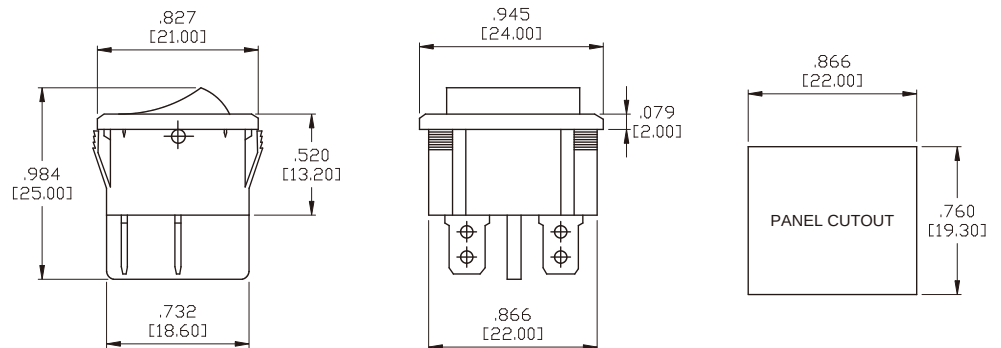
Specifications and Dimensions subject to change



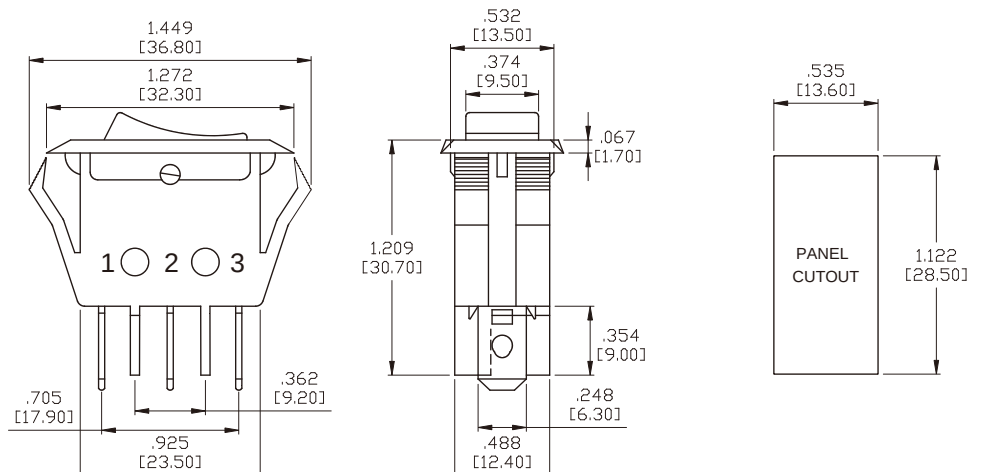
Model No.	Type
R19-001 SPST ILLUMINATED	ON-OFF
R19-20 DPST	ON-OFF
R19-201 DPST ILLUMINATED	ON-OFF
R19-00 SPST	ON-OFF



Model No.	Type
JS-606PA	ON-OFF
JS-606PB	ON-ON
JS-606PC	ON-OFF-ON
JS-606PD	(ON)-OFF



Model No.	Type
R902 SPST ILLUMINATED	ON-OFF
R902A SPST	ON-OFF
R902B SPST	ON-OFF-ON



SPECIFICATIONS:

CONTACT RATING: 10A 250VAC 16A 125VAC.
ELECTRICAL LIFE: 20,000 cycles.
MECHANICAL LIFE: 50,000 cycles.
CONTACT RESISTANCE: 50m-ohms.
INSULATION RESISTANCE: DC 500V 100M-ohms min.
DIELECTRIC STRENGTHS: AC 1,500V 1min.

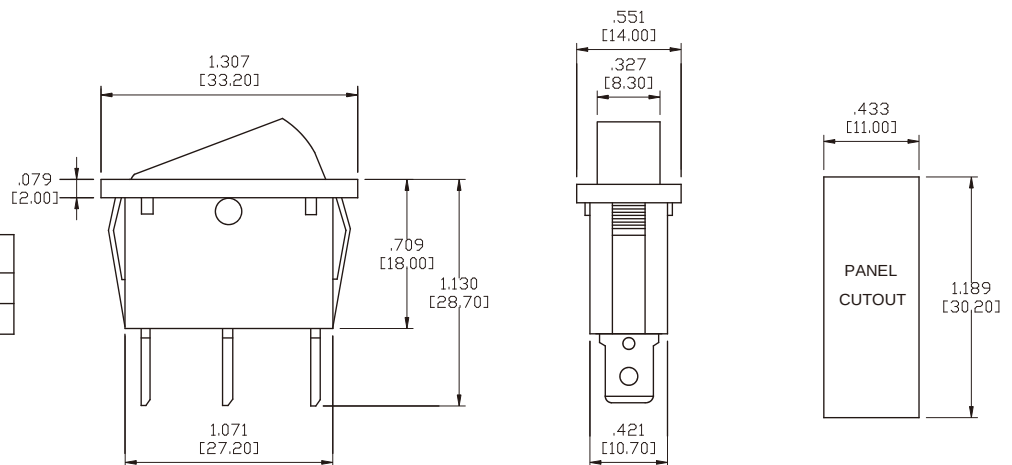
MATERIALS:

HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

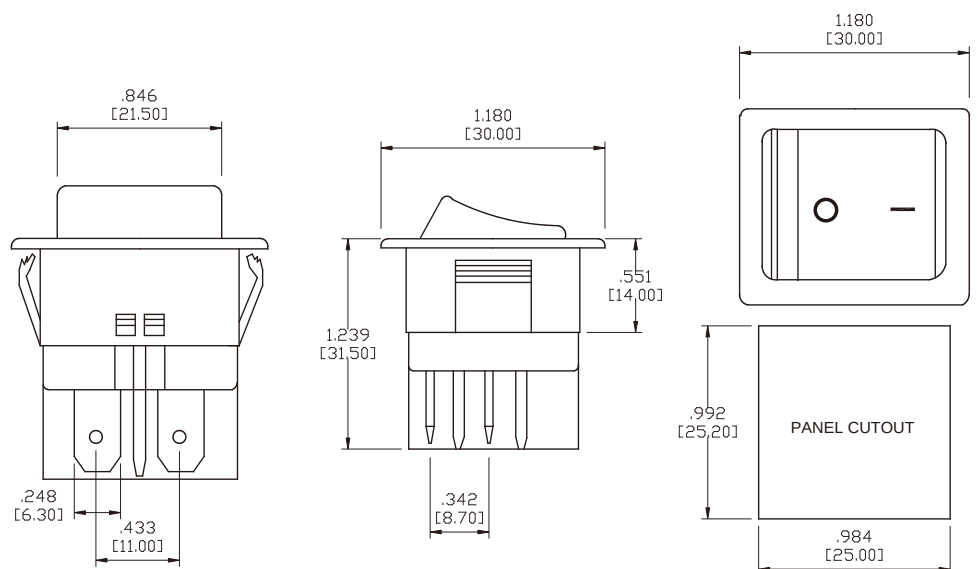
Specifications and Dimensions subject to change

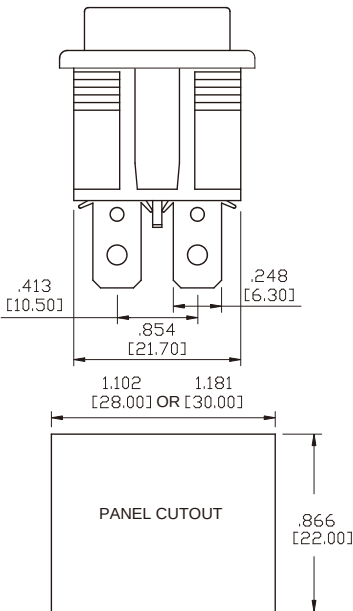
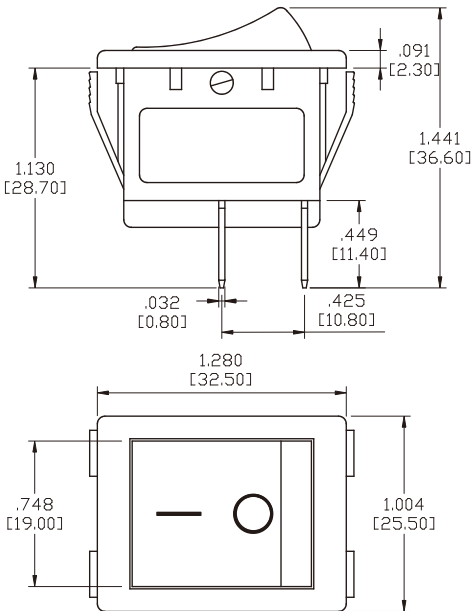


Model No.	Type
R30-001	SPST ILLUMINATED
R30-00	SPST ON-OFF



Model No.	Type
JS-618A	DPST ON-OFF
JS-618B	DPDT ON-ON





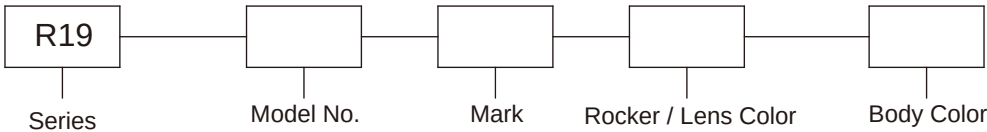
Model No.	Type
JS-608L	DPST ILLUMINATED
JS-608A	DPST ON-OFF
JS-608B	DPDT ON-ON
JS-608C	DPDT ON-OFF-ON

COLOR OPTIONS

Rocker / Lens Color			
1	White/Milky	6	Red
2	Black	7	Orange/Amber
3	Charcoal Gray	8	Green
4	Lt. Gray	9	Blue
5	-		

Body Color	
A	White
B	Black
C	Charcoal Gray
D	Light Gray

HOW TO ORDER



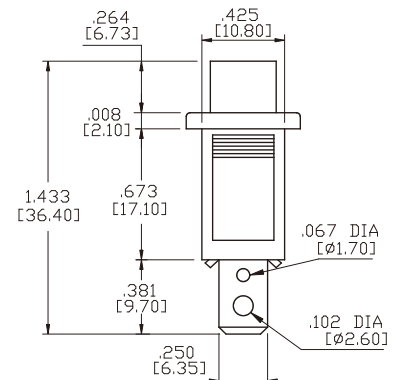
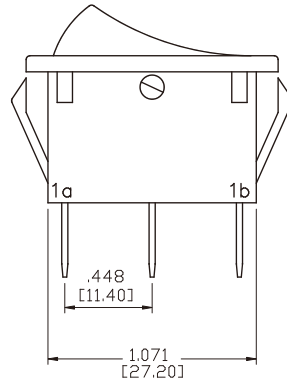
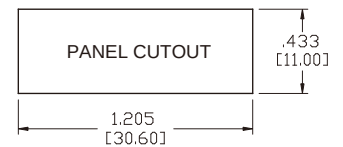
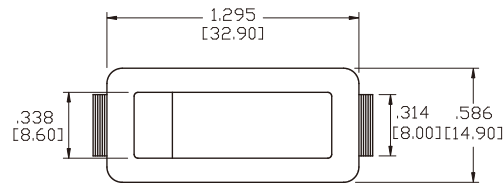
SPECIFICATIONS:

CONTACT RATING: 10A 250V AC 16A 125V AC.
ELECTRICAL LIFE: 20,000 cycles.
MECHANICAL LIFE: 50,000 cycles.
CONTACT RESISTANCE: 50m-ohms.
INSULATION RESISTANCE: DC 500V 100M-ohms min.
DIELECTRIC STRENGTHS: AC 1500V 1 min.

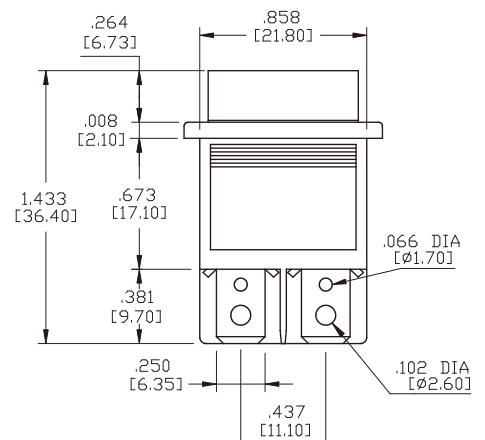
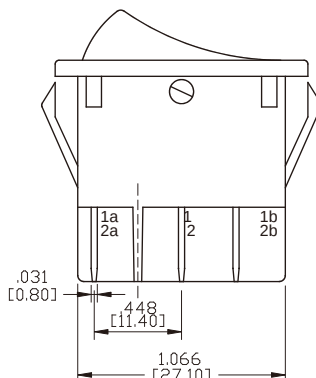
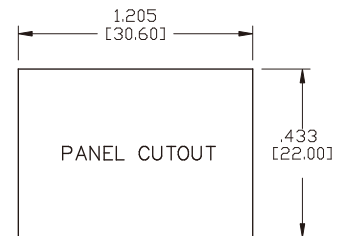
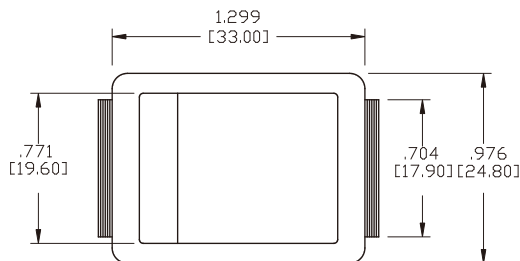
MATERIALS:

HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

Specifications and Dimensions subject to change



Model No.	Type
R-41	SPST ON-OFF
R-42	SPST ILLUMINATED
R-43	SPDT ON-OFF-ON
R-44	SPDT ON-(ON)
R-45	SPDT ON-ON
R-46	SPDT (ON)-OFF-(ON)
R-47	SPDT ON-OFF-(ON)
R-48	SPST ON-(OFF)



Model No.	Type
R-51	DPST ON-OFF
R-52	DPDT ON-OFF-ON
R-53	ON-OFF ILLUMINATED
R-54	DPDT ON-ON
R-55	DPST (ON)-OFF
R-56	DPDT (ON)-OFF-(ON)

SPECIFICATIONS:

CONTACT RATING: 10A 125V AC 6A 250VAC.
ELECTRICAL LIFE: 20,000 cycles.
MECHANICAL LIFE: 50,000 cycles.
CONTACT RESISTANCE: 50m-ohms.
INSULATION RESISTANCE: DC 500V 100M-ohms min.
DIELECTRIC STRENGTHS: AC 1500V 1 min.

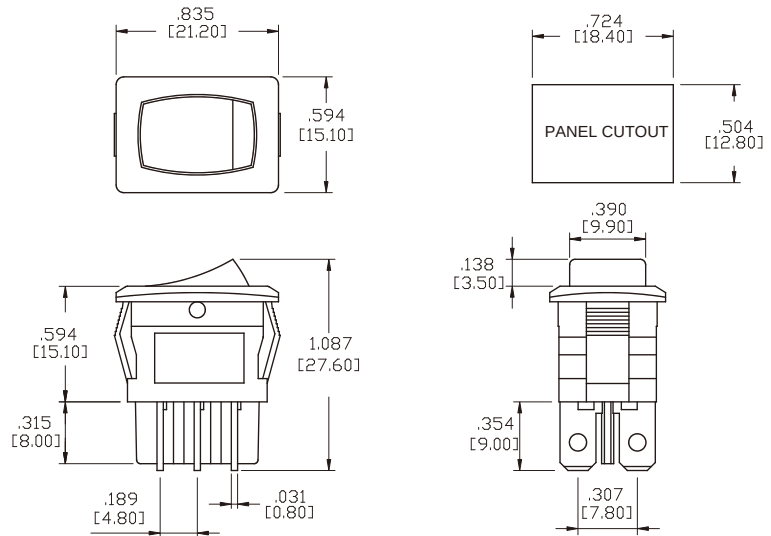
MATERIALS:

HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

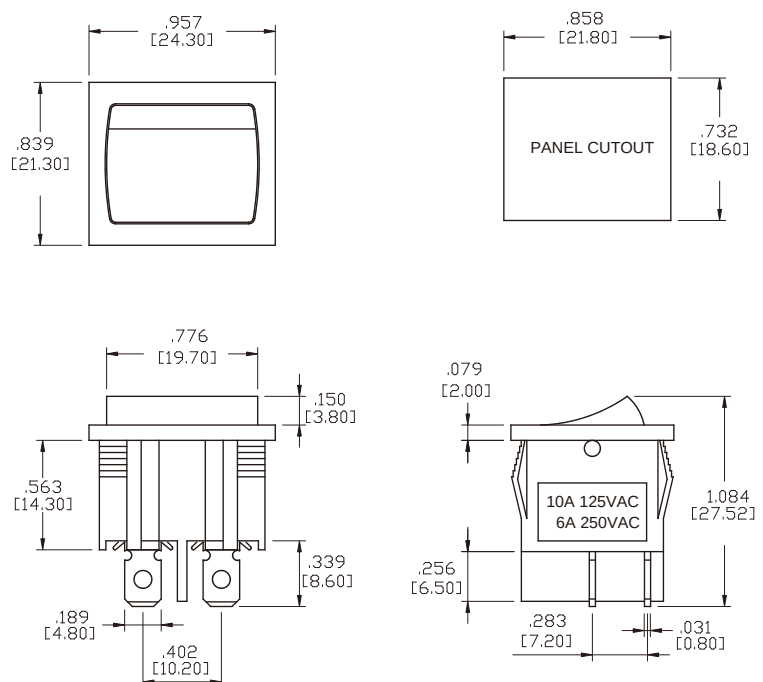
Specifications and Dimensions subject to change



Model No.	Type
R-66P A	DPST ON-OFF
R-66P B	DPDT ON-ON
R-66P C	DPDT ON-OFF-ON
R-66P D	DPDT (ON)-OFF-ON
R-66P E	DPDT (ON)-OFF-(ON)



Model No.	Type
R-33A	DPST ON-OFF
R-33B	DPST ON-OFF ILLUMINATED
R-33C	DPDT ON-ON
R-33D	DPDT ON-OFF-ON
R-33E	DPDT (ON)-OFF-(ON)



SPECIFICATIONS:

RATING: 10A 125VAC, 6A 250VAC
CONTACT RESISTANCE: DC2V-4V/0.1A less than 20m-ohms.
INSULATION RESISTANCE: DC 500V more than 500M-ohms.
LIFE ELECTRICAL (AC): a. RESISTANCE 10,000 cycles.
b. INDUCTIVE 6,000 cycles.
DIELECTRIC STRENGTH: 1000VAC min(Between Terminals)
3000VAC minutes (between terminal and contact).

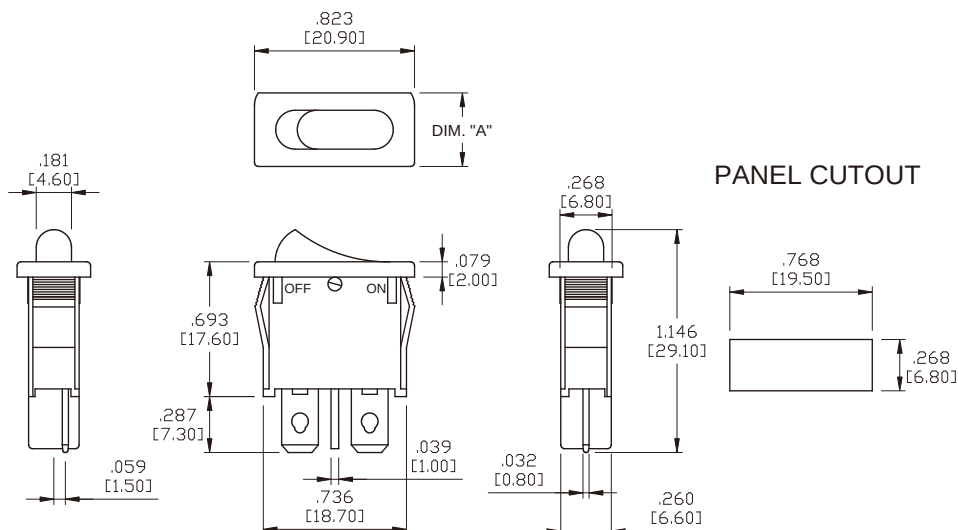
MATERIALS:

ROCKER: Nylon 6/6, black std.
HOUSING: Nylon 6/6, black std.
MOVABLE ARM: Phosphor bronze.
CONTACT: Silver alloy.
TERMINALS: Brass, silver plated.

Specifications and Dimensions subject to change



Model No.	Type	DIM. "A"
R-401A	SPDT ON-OFF	.378 [9.60]
R-401B	SPDT ON-OFF	.283 [7.20]



MARK OPTIONS

A



B



C



D



E

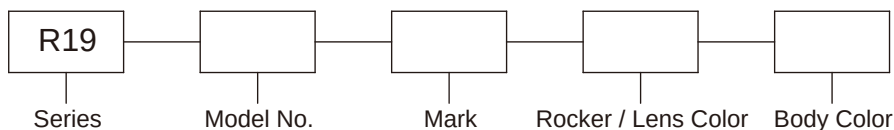


COLOR OPTIONS

Rocker / Lens Color			
1	White/Milky	6	Red
2	Black	7	-
3	Gray	8	Green
4	-	9	-
5	Yellow		

Body Color	
A	White
B	Black
C	Gray
D	-

HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 10A 125V AC 6A 250VAC.
ELECTRICAL LIFE: 20,000 cycles.
MECHANICAL LIFE: 50,000 cycles.
CONTACT RESISTANCE: 50m-ohms.
INSULATION RESISTANCE: DC 500V 100M-ohms min.
DIELECTRIC STRENGTHS: AC 1500V 1 min.

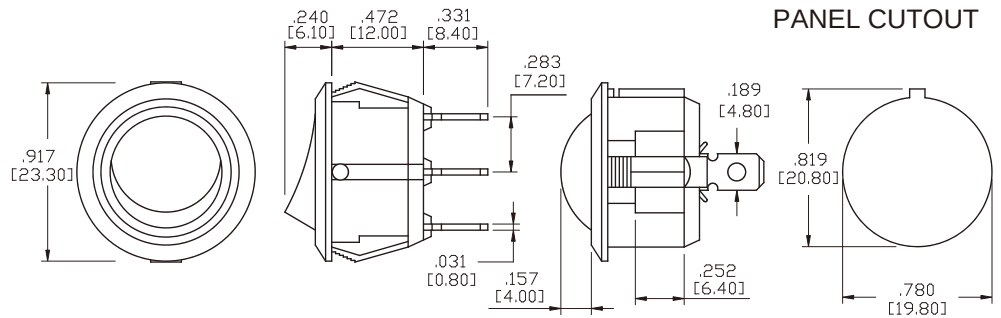
MATERIALS:

HOUSING: 66 Nylon(UL 94V-2).
ACTUATOR: 66 Nylon(UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
STATIONARY CONTACTS: Copper, silver plated.
TERMINALS: Copper, silver plated.
CONTACT SPRING: Piano wire.

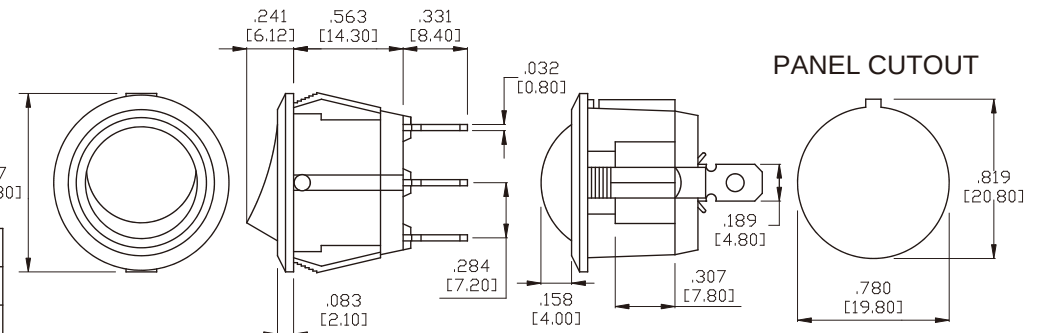
Specifications and Dimensions subject to change



Model No.	Type
R-208A	SPST ON-OFF
R-208B	SPST ON-OFF ILLUMINATED
R-208C	SPDT ON-ON
R-208E	SPST ON-(OFF)



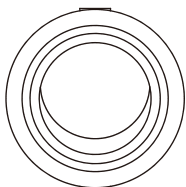
Model No.	Type
R-112	SPDT ON-ON
R-112A	SPST ON-OFF
R-112B	SPST ON-OFF (ILLUMINATED)
R-112C	SPDT ON-OFF-ON
R-112L	SPST ON-OFF (ILLUMINATED)



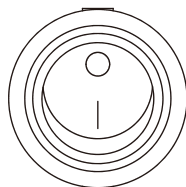
* With T3 Actuator

ACTUATOR OPTIONS

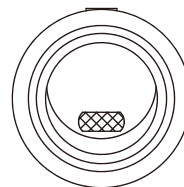
T1



T2

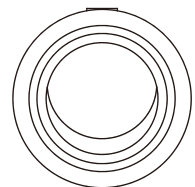


T3



ILLUMINATED

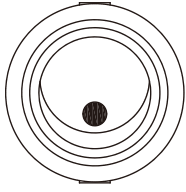
T4



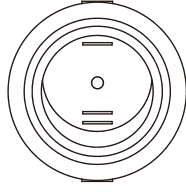
ILLUMINATED

ACTUATOR OPTIONS

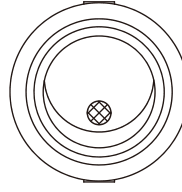
T5



T6

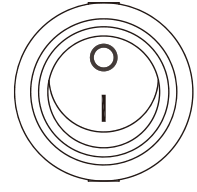


T7



ILLUMINATED

T8



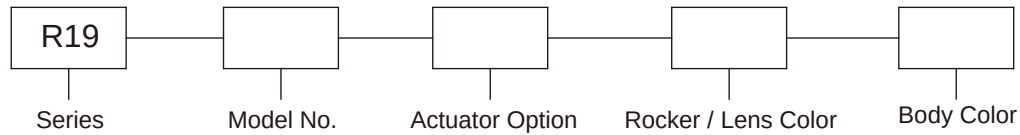
ILLUMINATED

COLOR OPTIONS

Rocker / Lens Color			
1	White/Milky	6	Red
2	Black	7	Orange/Amber
3	Charcoal Gray	8	Green
4	Light Gray	9	Blue
5	-		

Body Color	
A	White
B	Black
C	Charcoal Gray
D	Light Gray

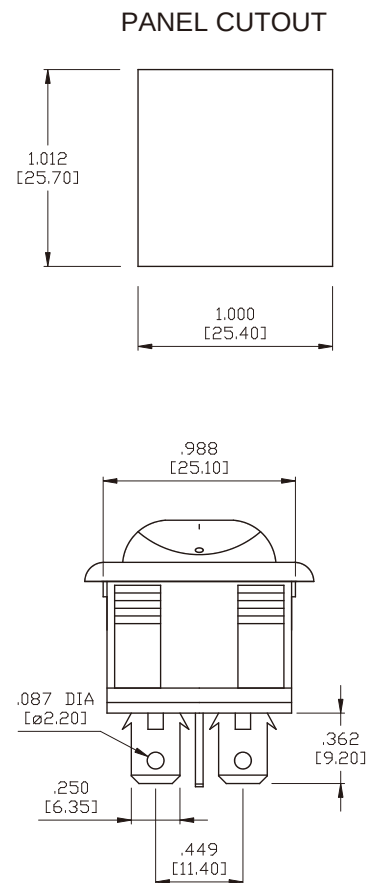
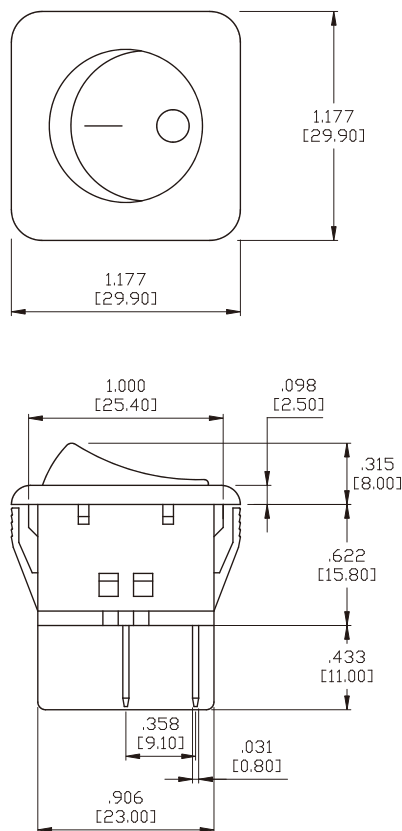
HOW TO ORDER



SPECIFICATIONS:

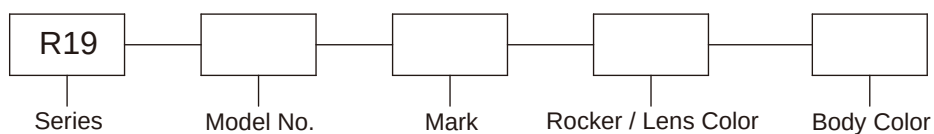
CONTACT RATING: 10A 250V AC 15A 125VAC.
 ELECTRICAL LIFE: 10,000 cycles.
 MECHANICAL LIFE: 10,000 cycles.
 CONTACT RESISTANCE: 50m-ohms max.
 INSULATION RESISTANCE: DC 500V 500M-ohms min.
 DIELECTRIC STRENGTHS: AC 2,000V 1 min.
 OPERATING FORCE: 700±200gf.

Specifications and Dimensions subject to change



Model No.	Type
R-22A	DPST ON-OFF
R-22B	DPST ON-OFF (ILLUMINATED)
R-22C	DPDT ON-ON
R-22D	DPDT ON-ON (ILLUMINATED)

HOW TO ORDER



For Mark, Rocker / Lens Color, please refer to page 85 & 87.

SPECIFICATIONS:

CONTACT RATING: 3A 250VAC 6A 125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 10,000 Operations min.
CONTACT RESISTANCE: <20m-ohms.
INSULATION RESISTANCE: 500VDC, 100M-ohms min.
DIELECTRIC STRENGTHS: 1,000VAC for 1minute.

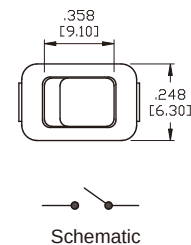
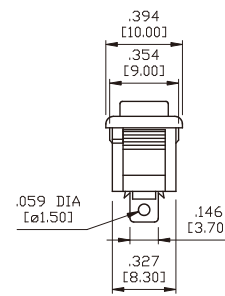
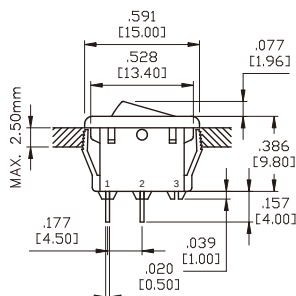
MATERIALS:

BODY: Nylon 66 (UL 94V-2).
ACTUATOR: Nylon 66 (UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
SPRING: Piano wire.
TERMINALS: Copper, silver plated.

Specifications and Dimensions subject to change

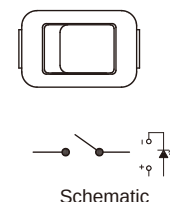
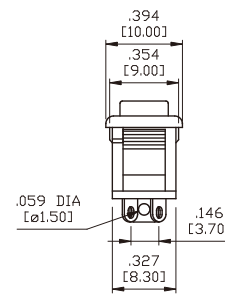
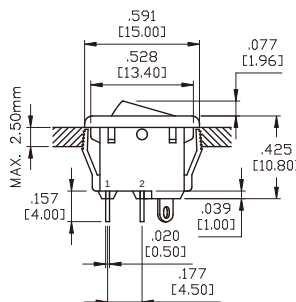


Model No.	Type
33A	ON-OFF
33B	ON-ON
33C	(ON)-OFF



Model No.	Type
33E	ON-OFF W/LED
33J	(ON)-OFF W/LED

LED Color	
6	Red
7	Orange
8	Green



MARK OPTIONS



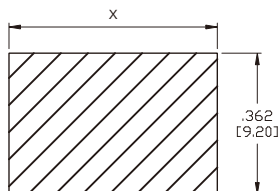
Illuminated



Illuminated

PANEL MOUNTING

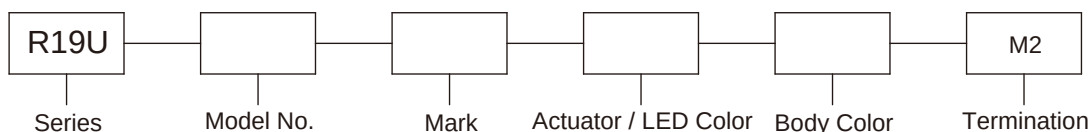
	X Cutout Dimension	Panel Thickness
A	.535 [13.60] +0.00 -0.10	0.75~1.25
B	.539 [13.70] +0.00 -0.10	1.25~2.00
C	.543 [13.80] +0.00 -0.10	2.00~2.50



COLOR OPTIONS

Actuator Color		Body Color	
1	White	A	White
2	Black (Std.)	B	Black
3	Gray	C	Gray
6	Red		

HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 3A 250VAC 6A 125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 10,000 Operations min.
CONTACT RESISTANCE: <20m-ohms.
INSULATION RESISTANCE: 500VDC, 100M-ohms min.
DIELECTRIC STRENGTHS: 1,000VAC for 1minute.

MATERIALS:

BODY: Nylon 66 (UL 94V-2).
ACTUATOR: Nylon 66 (UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
SPRING: Piano wire.
TERMINALS: Copper, silver plated.

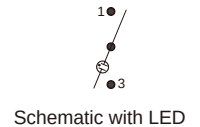
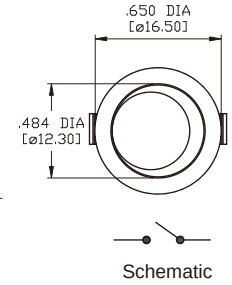
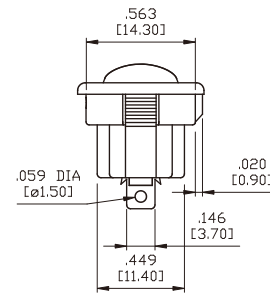
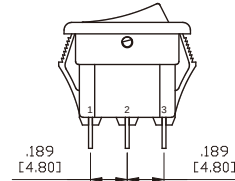
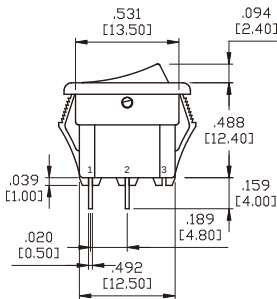
Specifications and Dimensions subject to change



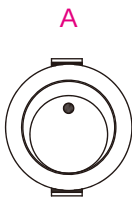
Model No.	Type
R112	ON-ON
R112A	ON-OFF
R112B	ON-OFF W/LED

Lamp Color	
6	Red
7	Orange
8	Green

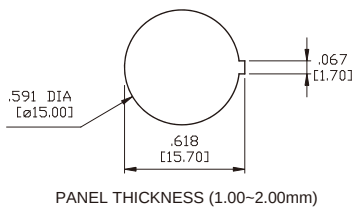
* R112B Only



MARK OPTIONS



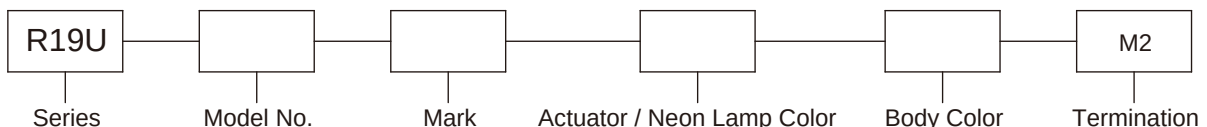
PANEL MOUNTING



COLOR OPTIONS

Actuator Color		Body Color	
1	White	A	White
2	Black (Std.)	B	Black
3	Gray	C	Gray
6	Red		

HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 3A 250VAC/125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 10,000 Operations min.
CONTACT RESISTANCE: <20m-ohms.
INSULATION RESISTANCE: 500VDC, 1000M-ohms min.
DIELECTRIC STRENGTHS: 1,500VAC for 1minute.

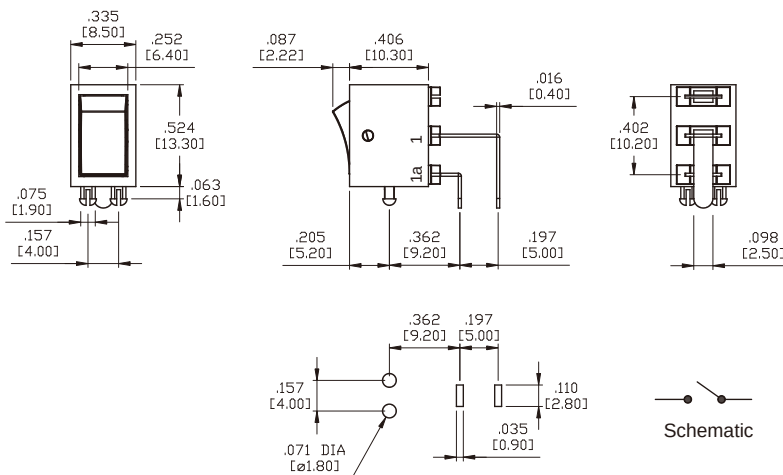
MATERIALS:

BODY: Nylon 66 (UL 94V-2).
ACTUATOR: Nylon 66 (UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
SPRING: Piano wire.
TERMINALS: Brass, silver plated.

Specifications and Dimensions subject to change



Model No.	Type
33A	ON-OFF
33B	ON-ON

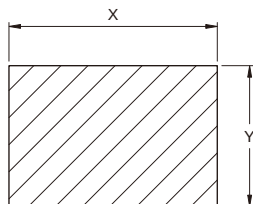


MARK OPTIONS



PANEL MOUNTING

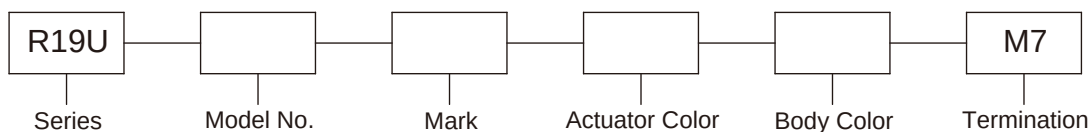
X Cutout Dimension	Y Cutout Dimension
.528~.543 [13.40~13.80]	.338~.354 [8.60~9.00]



COLOR OPTIONS

Actuator Color		Body Color	
1	White	A	White
2	Black (Std.)	B	Black
3	Gray	C	Gray
5	Yellow		
6	Red		
7	Orange		
8	Green		
9	Blue		

HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 3A 250VAC/125VAC.
ELECTRICAL LIFE: 10,000 Operations.
MECHANICAL LIFE: 10,000 Operations min.
CONTACT RESISTANCE: <50m-ohms.
INSULATION RESISTANCE: 500VDC, 100M-ohms min.

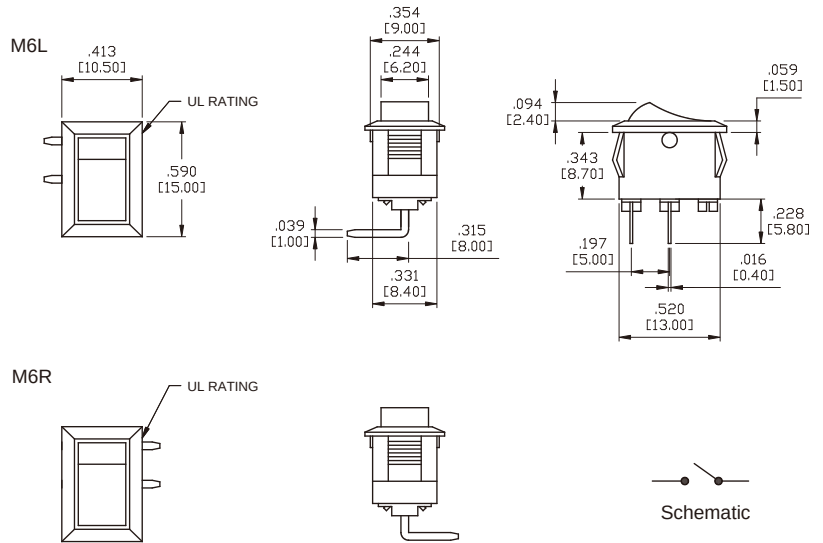
MATERIALS:

BODY: Nylon 66 (UL 94V-2).
ACTUATOR: Nylon 66 (UL 94V-2).
MOVABLE CONTACTS: Copper, silver plated.
SPRING: Piano wire.
TERMINALS: Brass, silver plated.

Specifications and Dimensions subject to change



Model No.	Type
33A	ON-OFF
33B	ON-ON

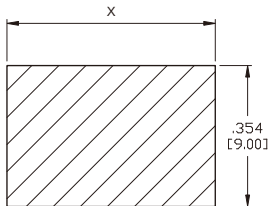


MARK OPTIONS



PANEL MOUNTING

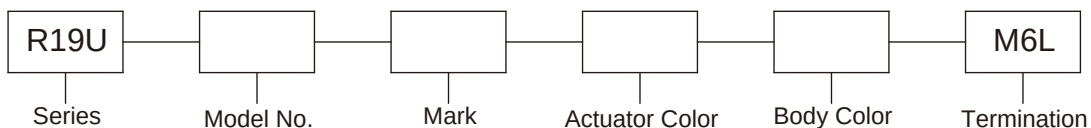
	X Cutout Dimension	Panel Thickness
A	.547 [13.90] +0.00 -0.10	0.75~1.25
B	.555 [14.10] +0.00 -0.10	1.25~2.00
C	.563 [14.30] +0.00 -0.10	2.00~3.00

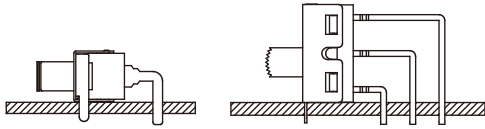
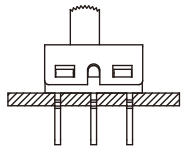


COLOR OPTIONS

Actuator Color		Body Color	
1	White	A	White
2	Black (Std.)	B	Black
3	Gray	C	Gray
5	Yellow		
6	Red		
7	Orange		
8	Green		
9	Blue		

HOW TO ORDER





SPECIFICATIONS:

CONTACT RATING: Refer to "Contact material Options" for more info.

CONTACT RESISTANCE: 10mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

ELECTRICAL LIFE: 50,000 actuations at full load.

INSULATION RESISTANCE: 1,000MΩ Min.

DIELECTRIC STRENGTHS: 1,500V RMS @ sea level.

OPERATION TEMPERATURE: -30°C to +85°C.

MATERIALS:

CASE: Diallyl phthalate(DAP)(UL 94V-0).

HOUSING: Stainless Steel.

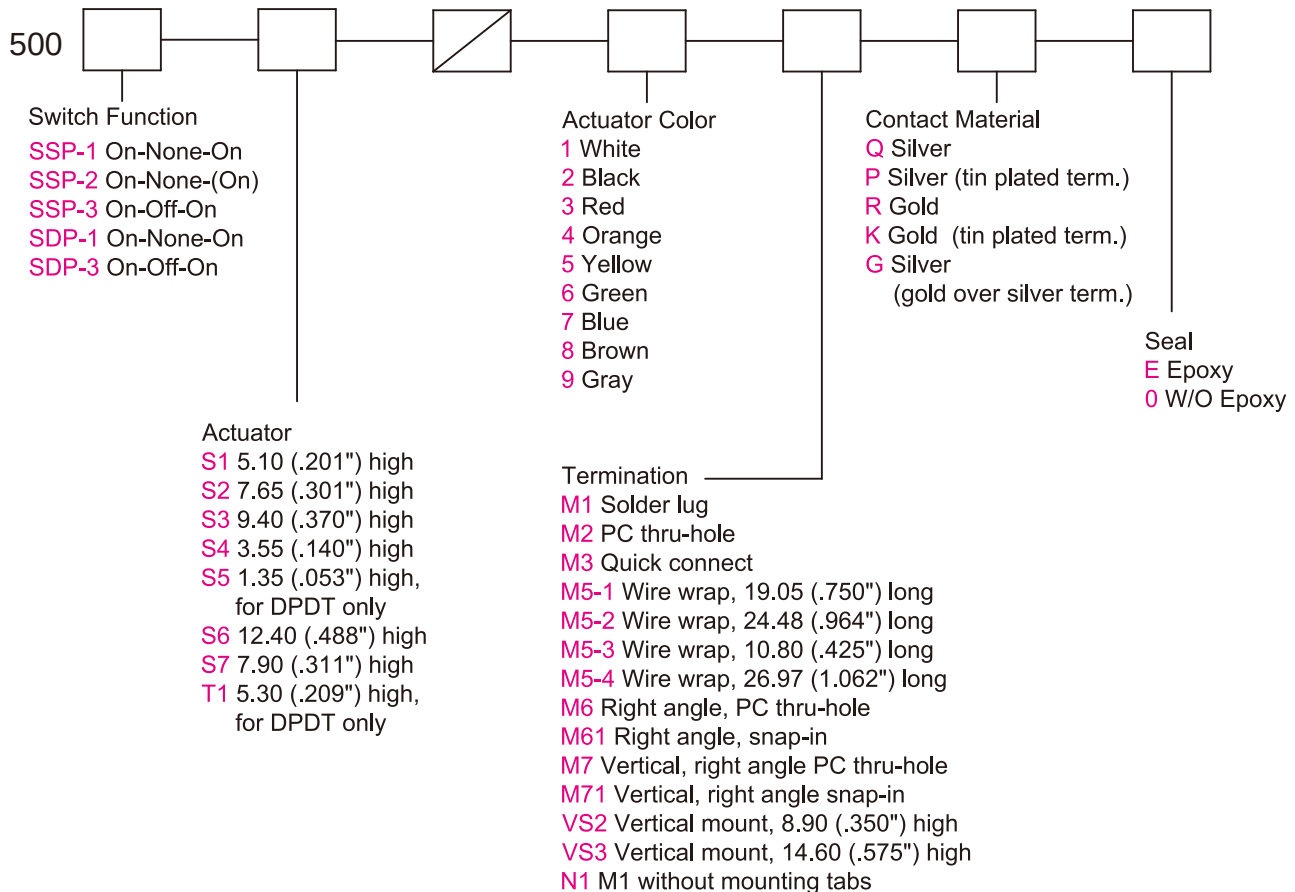
SLIDE HANDLE: Nylon 6, black standard.

TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM

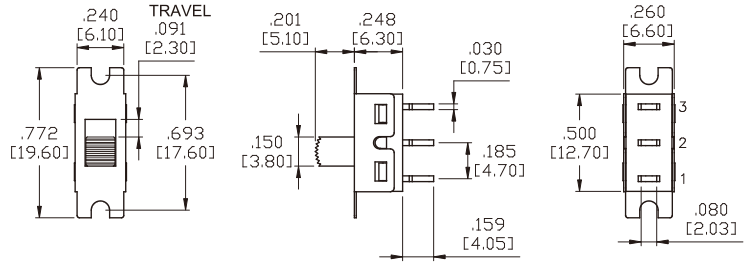


SPDT

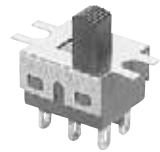


Model No.	Switching Position		
SSP-1	ON	NONE	ON
SSP-2	ON	NONE	(ON)
SSP-3	ON	OFF	ON
Term. Comm.	2-1	OPEN	2-3

Schematic

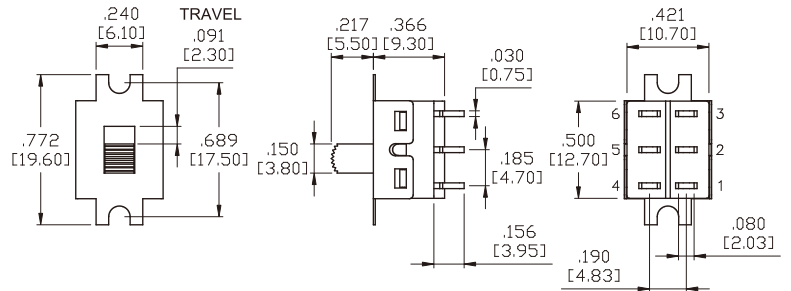
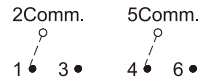


DPDT



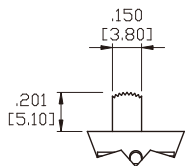
Model No.	Switching Position		
SDP-1	ON	NONE	ON
SDP-3	ON	OFF	ON
Term. Comm.	2-1 5-4	OPEN	2-3 5-6

Schematic



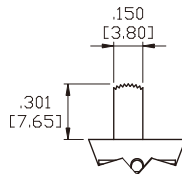
ACTUATOR OPTIONS

S1



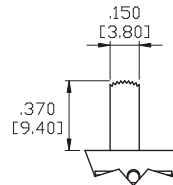
* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

S2



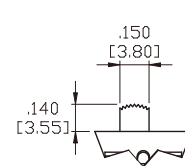
* Add 0.20 (.008) from actuator height for DPDT-M1 and M2 model.

S3



* Add 0.30 (.012) from actuator height for DPDT-M1 and M2 model.

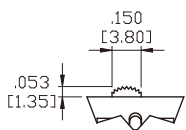
S4



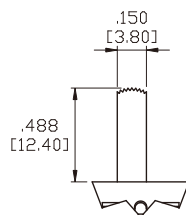
* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

* All actuator length shown is SPDT model with M1 and M2 terminals.

S5 FOR DPDT ONLY

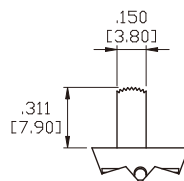


S6



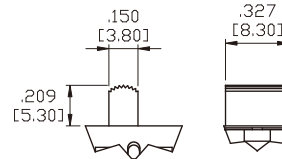
* Add 0.70 (.028) from actuator height for DPDT-M1 and M2 model.

S7



* Add 0.40 (.016) from actuator height for DPDT model.

T1 FOR DPDT ONLY

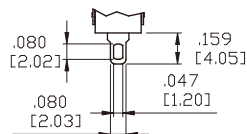


ACTUATOR COLORS	
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

* All actuator length shown is SPDT model with M1 and M2 terminals.

TERMINATION OPTIONS

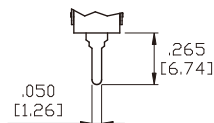
M1 STD. SOLDER LUG



THK .030 [0.75]

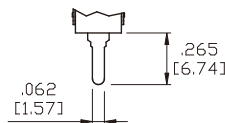
* Standard with Mounting Tabs.

M2 PC THRU-HOLE



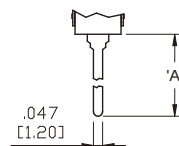
THK .030 [0.75]

M3 QUICK CONNECT



THK .030 [0.75]

M5 WIRE WRAP



THK .030 [0.75]

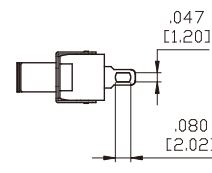
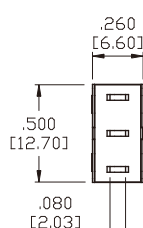
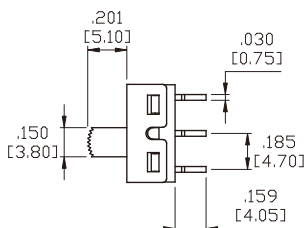
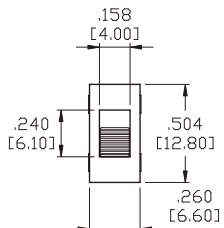
OPTION CODE	DIM.'A'
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

TERMINATION OPTIONS WITHOUT MOUNTING TABS

N1



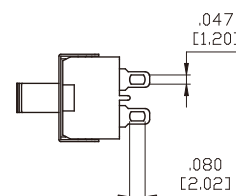
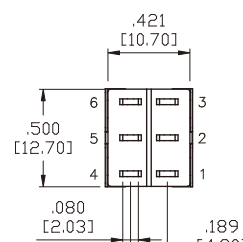
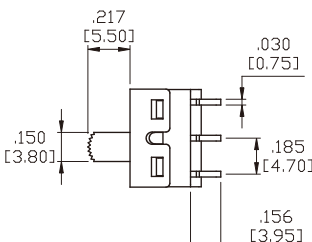
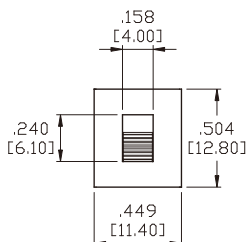
SPDT



N1



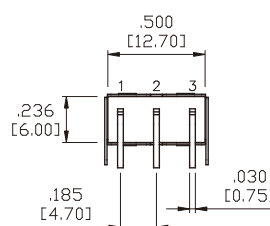
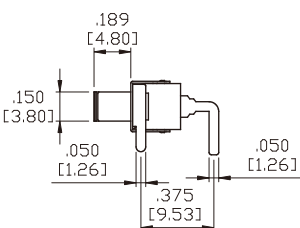
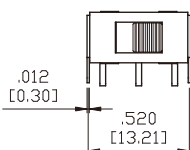
DPDT



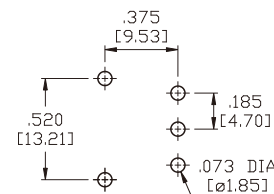
M6



SPDT



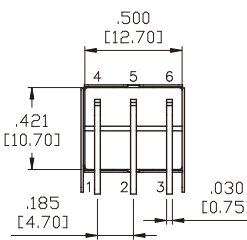
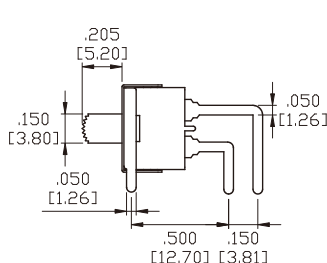
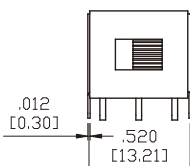
P.C.MOUNTING



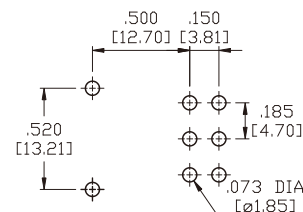
M6



DPDT



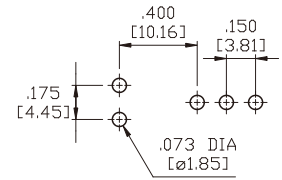
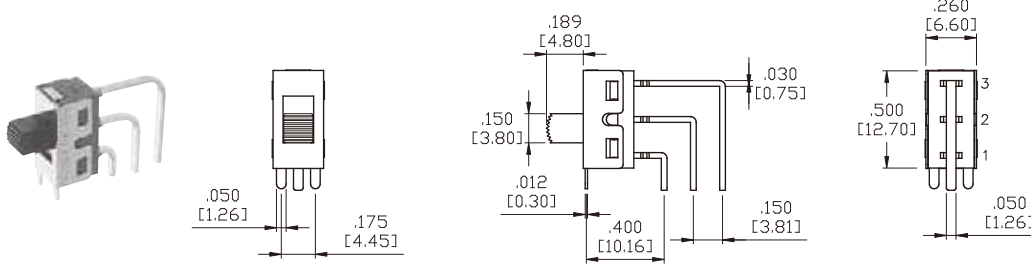
P.C.MOUNTING



TERMINATION OPTIONS WITHOUT MOUNTING TABS

M7

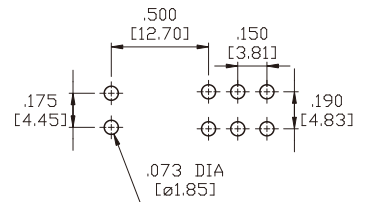
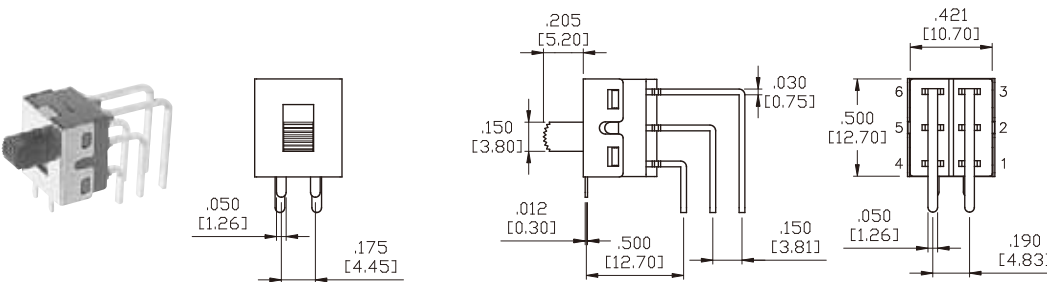
P.C.MOUNTING



SPDT

M7

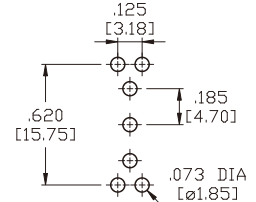
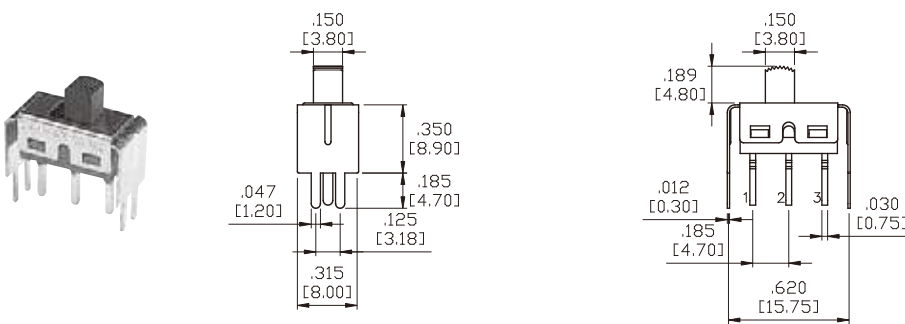
P.C.MOUNTING



DPDT

VS-2

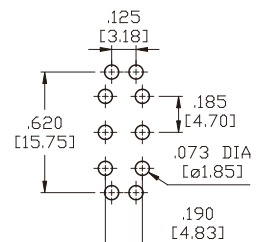
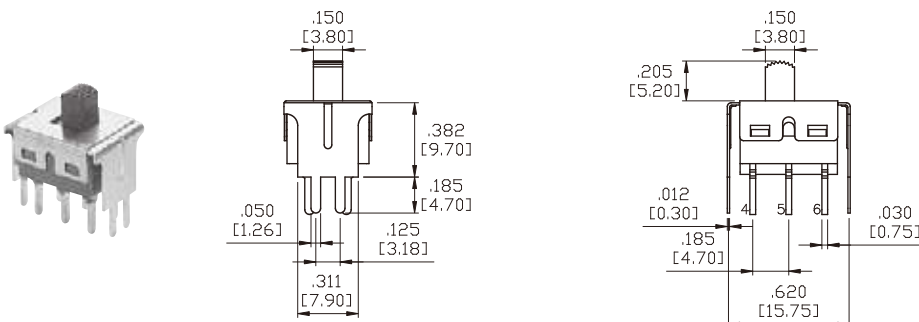
P.C.MOUNTING



SPDT

VS-2

P.C.MOUNTING



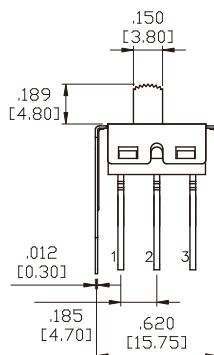
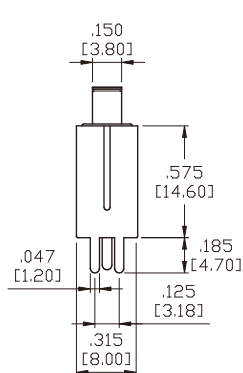
DPDT

TERMINATION OPTIONS WITHOUT MOUNTING TABS

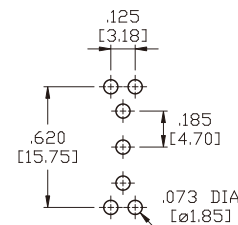
VS-3



SPDT



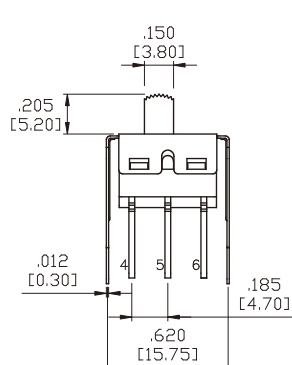
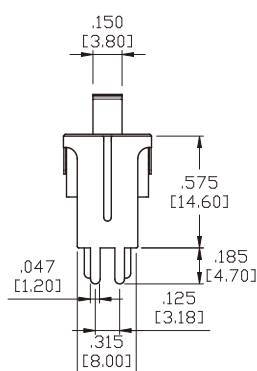
P.C.MOUNTING



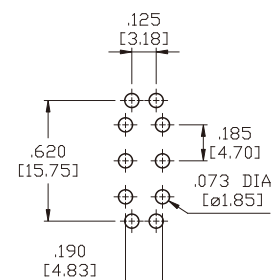
VS-3



DPDT



P.C.MOUNTING



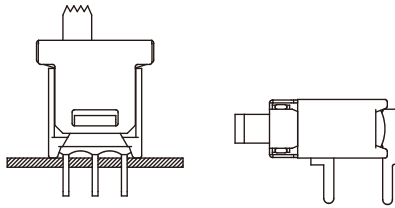
CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	
P		Tin plated ^{5 7}		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	
K		Tin plated ^{5 6}		
G	Silver ¹	Gold over silver ³	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* P, K is not available with M1 and M3 terminals

* 6Amps (Movable Contact: coin silver, silver plated) available with model ON-NONE-ON without UL approval



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
 CONTACT RESISTANCE: 20mΩ max. initial @ 2-4VDC
 100mA for both silver and gold plated contacts.
 ELECTRICAL LIFE: 30,000 actuations at full load.
 INSULATION RESISTANCE: 1,000MΩ min.
 DIELECTRIC STRENGTHS: 1,500V RMS @ sea level.
 OPERATION TEMPERATURE: -30°C to +85°C.

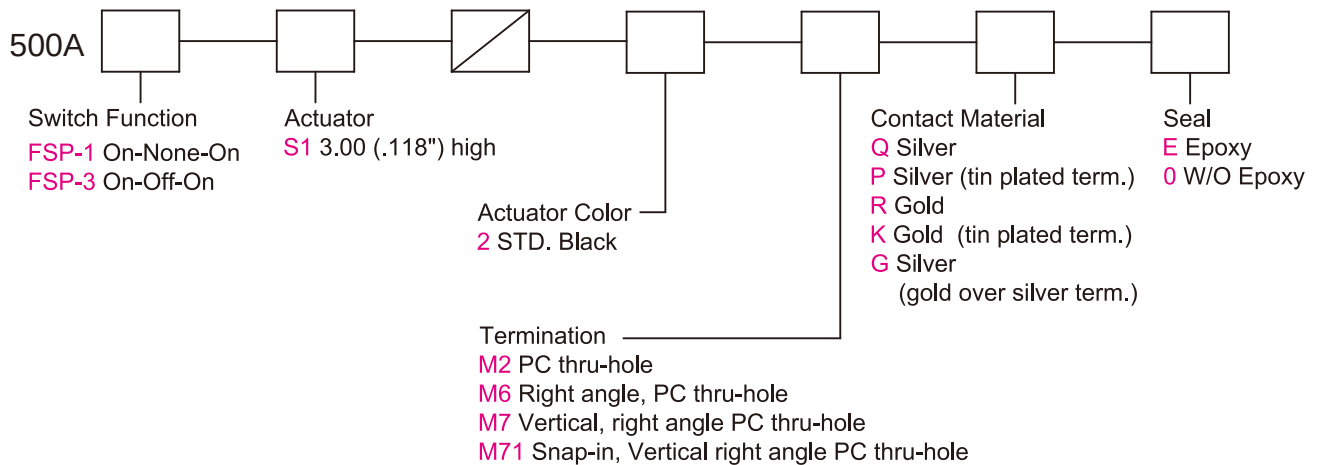
MATERIALS:

CASE: Diallyl phthalate(DAP)(UL 94V-0).
 HOUSING: Brass, tin plated.
 SLIDE HANDLE: Nylon 6/6, black standard.
 TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



M2



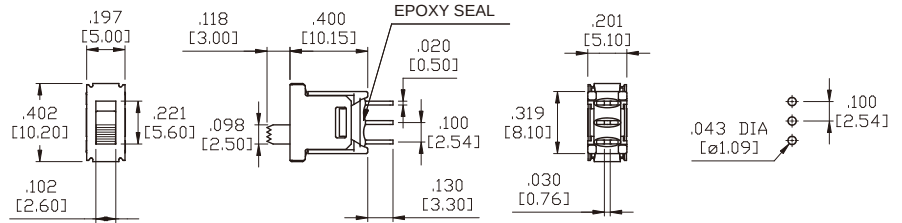
Model No.	Switching Position		
FSP-1	ON	NONE	ON
FSP-3	ON	OFF	ON
Term. Comm.	2-1	OPEN	2-3

Schematic

2Comm.

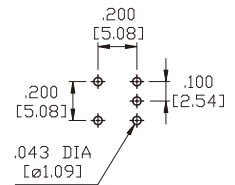
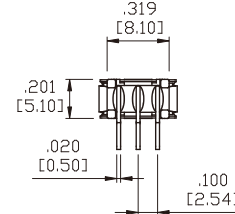
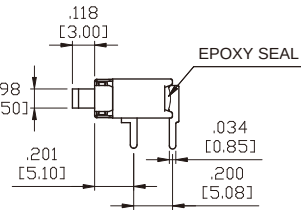
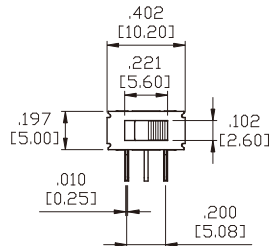
1 3•

SPDT



P.C.MOUNTING

M6



SPDT

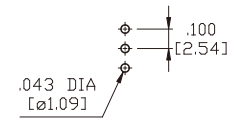
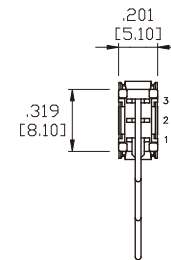
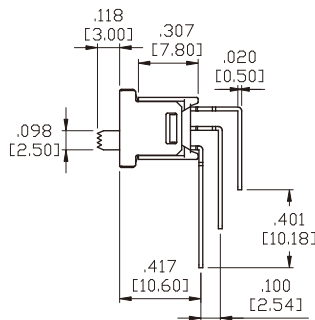
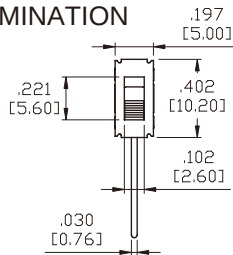
P.C.MOUNTING

M7

M71 SNAP-IN TERMINATION



SPDT

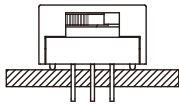


P.C.MOUNTING

CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	
P		Tin plated ^{5 7}		
R	Gold ²	Gold plated ⁴	0.4VA max @ 20V max (AC or DC)	
K		Tin plated ^{5 6}		
G	Silver ¹	Gold over silver ³	3Amps @ 125VAC or 28VDC 1.5Amps @ 250VAC	

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
4. Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact material Options" for more info.

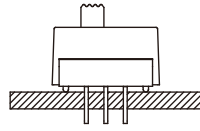
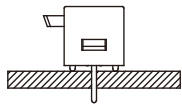
CONTACT RESISTANCE: 10mΩ max.

ELECTRICAL LIFE: 10,000 cycles at full load.

MECHANICAL LIFE: 20,000 cycles.

INSULATION RESISTANCE: 1,000MΩ min. @ 500VDC.

OPERATION TEMPERATURE: -30°C to +85°C.



MATERIALS:

CASE: PBT.

HOUSING: POM.

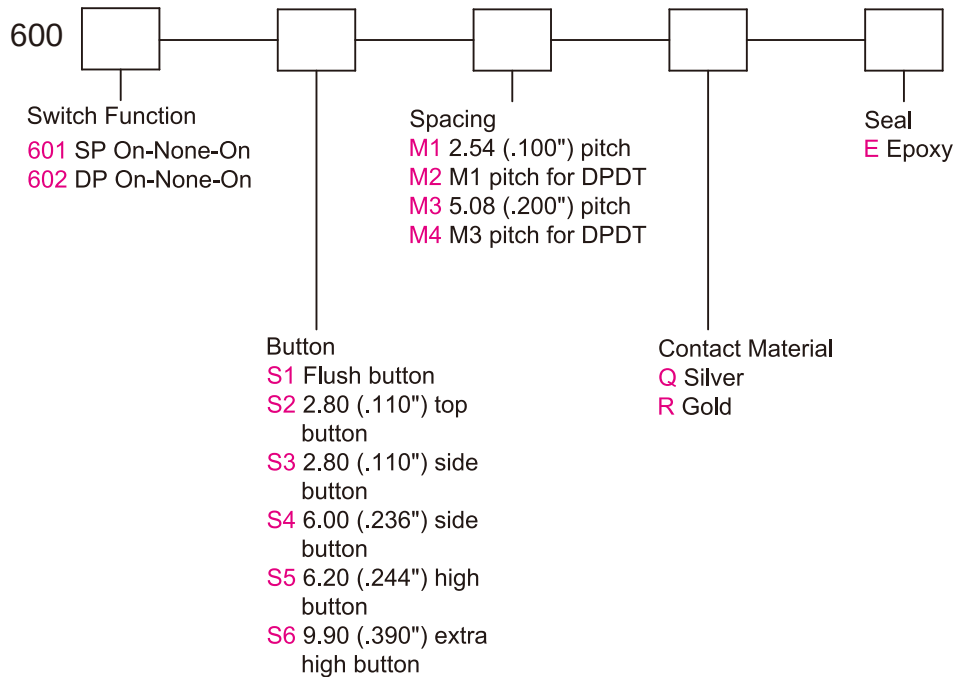
SLIDE HANDLE: PBT.

TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



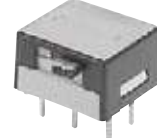
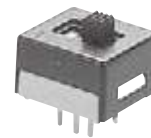
SPDT

Model No.	Switching Position		
	ON	NONE	ON
601	2-1	OPEN	2-3



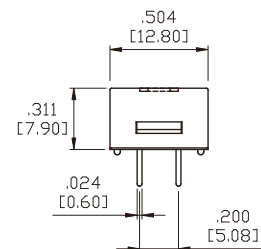
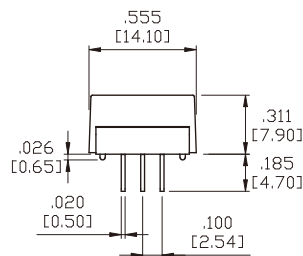
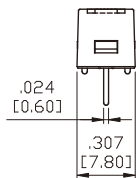
DPDT

Model No.	Switching Position		
	ON	NONE	ON
602	2-1,5-4	OPEN	2-3,5-6

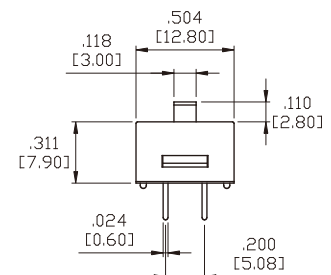
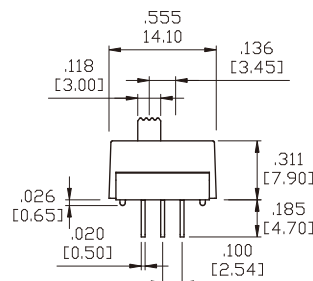
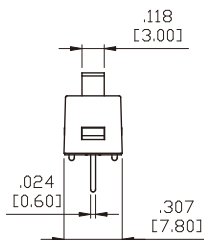


BUTTON OPTIONS

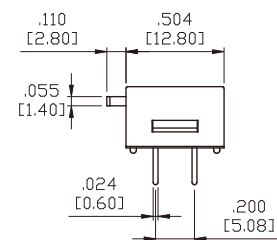
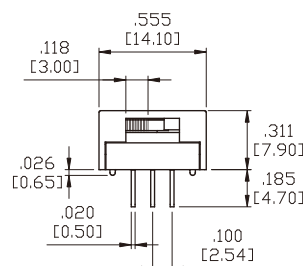
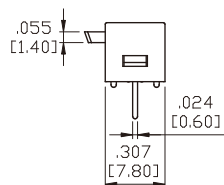
S1 FLUSH BUTTON



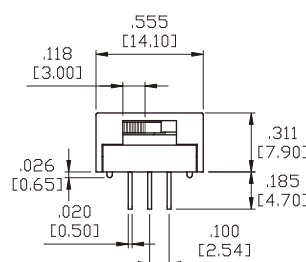
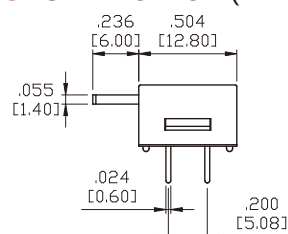
S2 TOP BUTTON



S3 SIDE BUTTON

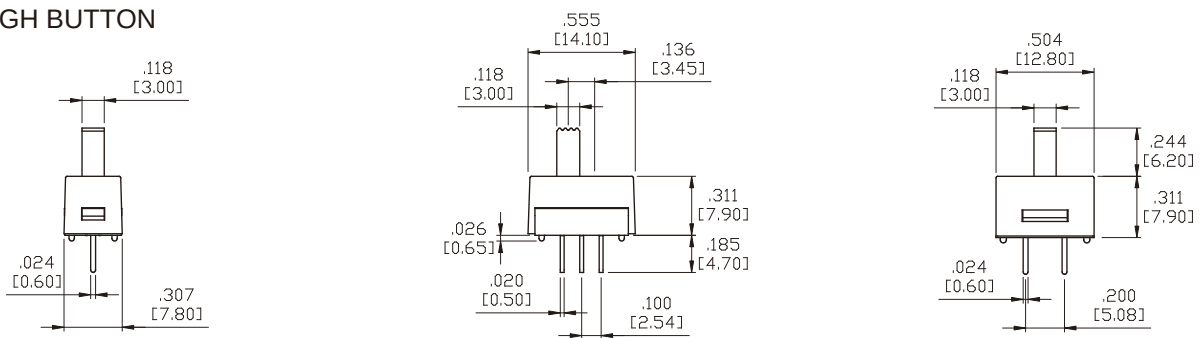


S4 SIDE BUTTON (DPDT ONLY)

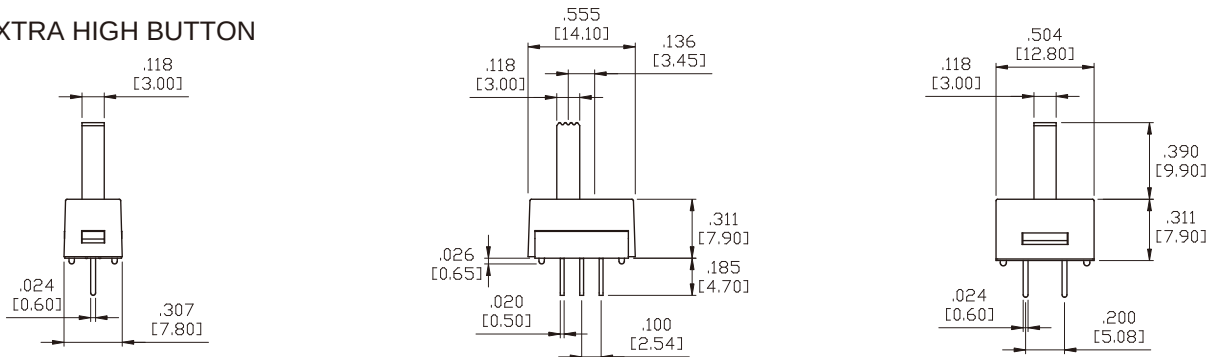


BUTTON OPTIONS

S5 HIGH BUTTON

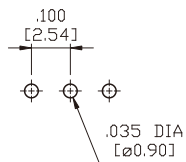


S6 EXTRA HIGH BUTTON

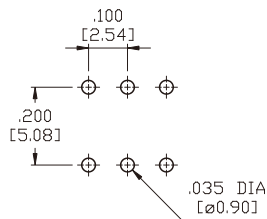


SPACING OPTIONS

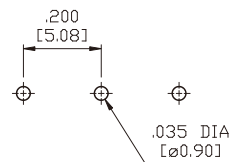
M1



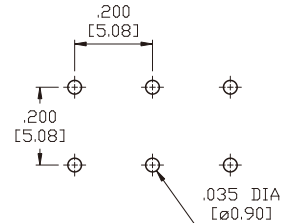
M2



M3



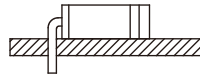
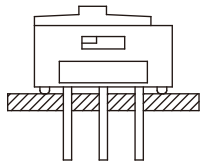
M4



CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver ¹	Silver plated ¹	2Amps @ 250VAC	
R	Gold ²	Gold plated ³	0.1Amps @ 30VDC	

1. Movable Contact & Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Copper alloy, with gold plated over nickel plated.



SPECIFICATIONS:

CONTACT RATING: DC 12V 0.5A.
CONTACT RESISTANCE: 30mΩ max.
MECHANICAL LIFE: 1,000 cycles.
INSULATION RESISTANCE: 500MΩ min. at 500VDC.

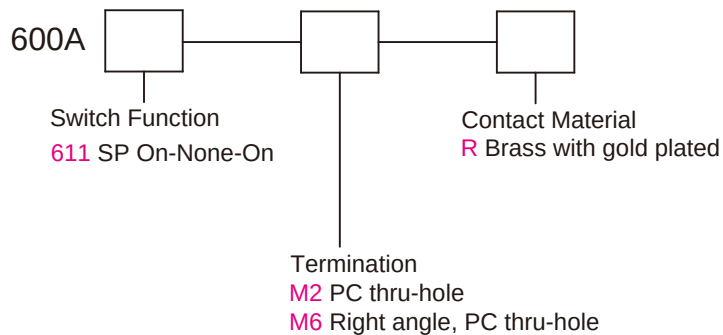
MATERIALS:

HOUSING: Nylon 6/6 (UL94V-0).
SLIDE HANDLE: Nylon 6/6 (UL94V-0).
TERMINAL: Brass, gold over nickel plated.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM



Series 600A

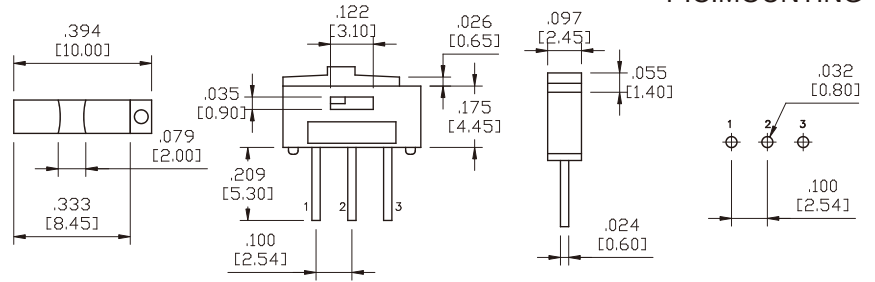
Low Power Slide Switches

M2



SPDT

Model No.	Switching Position		
611	ON	NONE	ON
Term. Comm.	2-1	OPEN	2-3

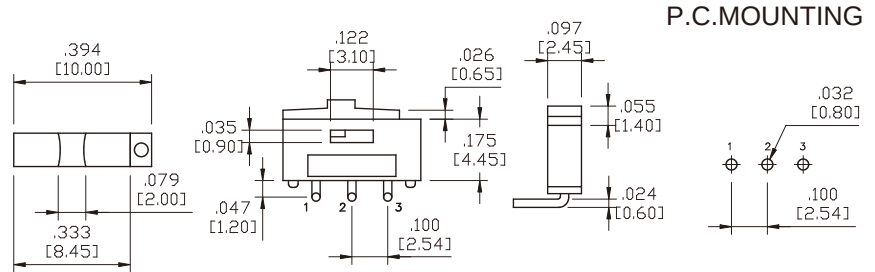


M6



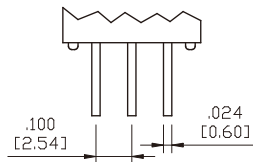
SPDT

Model No.	Switching Position		
611	ON	NONE	ON
Term. Comm.	2-1	OPEN	2-3

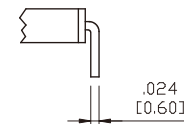


TERMINATIONS

M2



M6



CONTACT MATERIAL OPTIONS

Coding	Contact & Terminal Material	Rating	Agency Approvals
R	Brass with gold plating	0.5A @ 12VDC	

SPECIFICATIONS:

RATING: DC30V 0.3A.

INSULATION RESISTANCE: >100M-ohms DC500V.

WITHSTAND VOLTAGE: AC500V 1 min.

CONTACT RESISTANCE: <30m-ohms.

SOLDERING TEMPERATURE: 255°C max. 5 sec.

MECHANICAL LIFE: 30,000 cycles.

ELECTRICAL LIFE: 10,000 cycles.

OPERATING TEMPERATURE: -20°C to +70°C.

AMBIENT HUMIDITY: <85%RH.

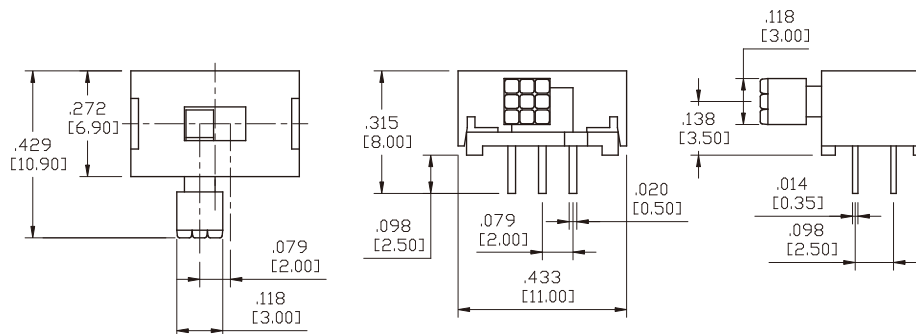
OPERATING FORCE: 200±150gf.

Specifications and Dimensions subject to change

01P-22

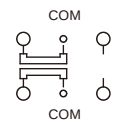


2P2T

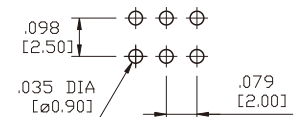


Drawing Scale: 2 / 1

SCHEMATIC



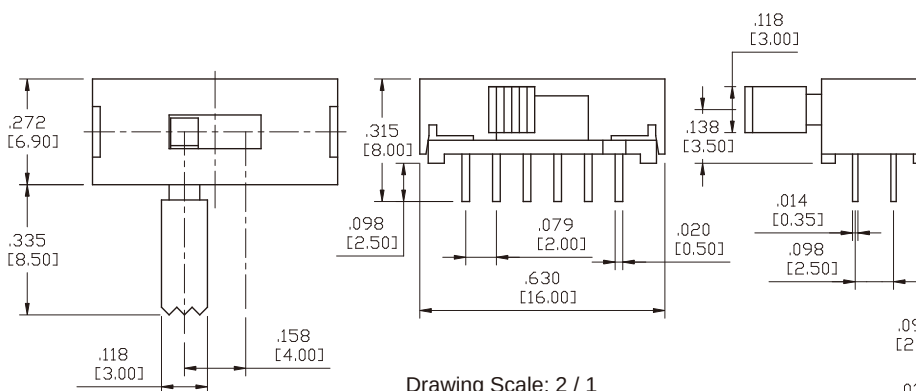
P.C.B. MOUNTING



03P-42

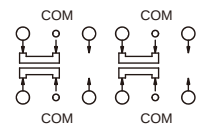


4P2T

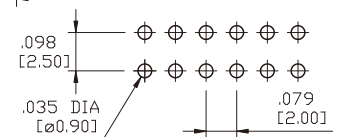


Drawing Scale: 2 / 1

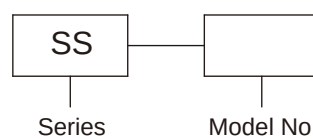
SCHEMATIC



P.C.B. MOUNTING



HOW TO ORDER





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總公司：23586 新北市中和區中山路二段359巷4.6.8號4樓

4F., No.4,6,8, Lane. 359, Sec. 2, Zhongshan Rd., Zhonghe Dist., New Taipei City 23586, Taiwan (R.O.C.)

TEL. +886.2.8228.1538

FAX. +886.2.8228.1283