

E 123142 E 123142

SPECIFICATIONS

CONTACT RATING: 5A @125 VAC or 28 VDC (Q terminal)
ELECTRICAL LIFE: 50,000 make-and-break cycles at full load
CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC,100 mA
INSULATION RESISTANCE: 1,000 MΩ min.
DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE - diallyl phthalate (DAP)
Actuator - ABS ,black standard.
Frame - Nylon (UL 94V-0) ,black
BUSHING - Copper alloy or Zinc , nickel plated
HOUSING - Stainless Steel
CONTACT AND TERMINAL - Copper alloy, silver plated

How do you build the switches you need!!

The straight terminal type , please see the (A) ; The right angle P.C terminals, please see the (B)

(A) R 8 0 1 5 [ ] – R 1 1 – 2 [ ] – C [ ] Q – E – S 2 0 – [ ]

Switches Function				
R8015	SP	R8017	DP	on-none-on
R8015A	SP	R8017A	DP	on-none-(on)
R8016	SP	R8018	DP	on-off-on
R8016A	SP	R8018A	DP	(on)-off-(on)
R8016B	SP	R8018B	DP	on-off-(on)
R8301V	3P	R8401V	4P	on-none-on
R8303V	3P	R8403V	4P	on-none-(on)
R8305V	3P	R8405V	4P	on-off-on
R8307V	3P	R8407V	4P	(on)-off-(on)
R8309V	3P	R8409V	4P	on-off-(on)

3 way position switches	
R818	SP3T on-on-on
R818A	SP3T (on)-on-(on)
R818B	SP3T on-on-(on)
R845V	DP3T on-on-on
R847V	DP3T (on)-on-(on)
R849V	DP3T on-on-(on)

Actuator
R11
R21
P13
R23
R15
R17
R19
R12
R22
R32
P14
P24
P34

Actuator Color	
1	white
2	black(std)
3	red
4	orange
5	yellow
6	green
7	blue
9	gray

now the available is code "1/2/3/4/7/9" the other please inquire first

Frame Color	
1	white
2	black
3	red

Termination	
B	solder lug
C	P.C 1.27width
D	Quick connect
D1	wire wrap 19.05
D3	wire wrap 10.8

Contact Material	
Q	silver plated
R	gold plated
G	gold over silver
K	tin plated

Epoxy seal	
(none)	none seal
E	epoxy seal

Vertical support Bracket	
(none)	
S20	11.68
S25	16.00
S35	11.68
S40	16.00
V20	snap-in 11.68
V25	snap-in 16.00
V35	snap-in 11.68
V40	snap-in 16.00

RoHS code
H = RoHS Compliant

(B) R 8 0 1 5 P [ ] – R 1 1 – 2 – Q – E – S – [ ]

Horizon Right Angle	Vertical Right Angle	Switches Function
R8015P	R8015L / R8013L	SP on-none-on
R8015PA	R8015LA / R8013LA	SP on-none-(on)
R8016P	R8016L / R8014L	SP on-off-on
R8016PA	R8016LA / R8014LA	SP (on)-off-(on)
R8016PB	R8016LB / R8014LB	SP on-off-(on)
R8017P	R8017L / R8011L	DP on-none-on
R8017PA	R8017LA / R8011LA	DP on-none-(on)
R8018P	R8018L / R8012L	DP on-off-on
R8018PA	R8018LA / R8012LA	DP (on)-off-(on)
R8018PB	R8018LB / R8012LB	DP on-off-(on)
	R8301L	3P on-none-on
	R8303L	3P on-none-(on)
	R8305L	3P on-off-on
	R8307L	3P (on)-off-(on)
	R8309L	3P on-off-(on)
	R8401L	4P on-none-on
	R8403L	4P on-none-(on)
	R8405L	4P on-off-on
	R8407L	4P (on)-off-(on)
	R8409L	4P on-off-(on)

3 way position switches	
R818P/R818L/ R812L	SP3T on-on-on
R818PA/R818LA/R812LA	SP3T (on)-on-(on)
R818PB/R818LB/R812LB	SP3T on-on-(on)
R845L	DP3T on-on-on
R847L	DP3T (on)-on-(on)
R849L	DP3T on-on-(on)

Actuator
R11
R21
R17
R19
P13
P23

Actuator Color	
1	white
2	black(std)
3	red
4	orange
5	yellow
6	green
7	blue
9	gray

now the available is code "1/2/3/4/7/9" the other please inquire first

Contact Material	
Q	silver plated
R	gold plated
G	gold over silver
K	tin plated

Epoxy seal	
(none)	none seal
E	epoxy seal

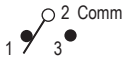
Support Bracket type	
(none)	std.
S	snap-in type

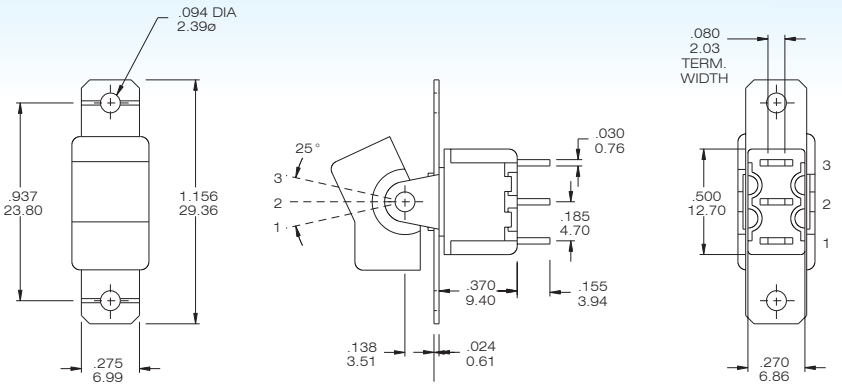
RoHS code
H = RoHS Compliant

SPDT



Model No.	Switching position		
R8015	ON	none	ON
R8015A	ON	none	(ON)
R8016	ON	OFF	ON
R8016A	(ON)	OFF	(ON)
R8016B	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1





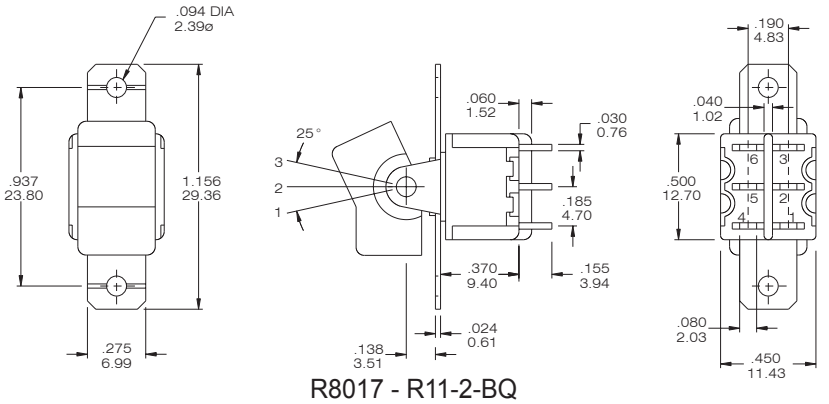
R8015 - R11-2-BQ

DPDT



Model No.	Switching position		
R8017	ON	none	ON
R8017A	ON	none	(ON)
R8018	ON	OFF	ON
R8018A	(ON)	OFF	(ON)
R8018B	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818	ON	ON	ON
R818A	(ON)	ON	(ON)
R818B	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

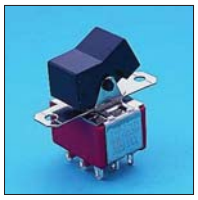




R8017 - R11-2-BQ

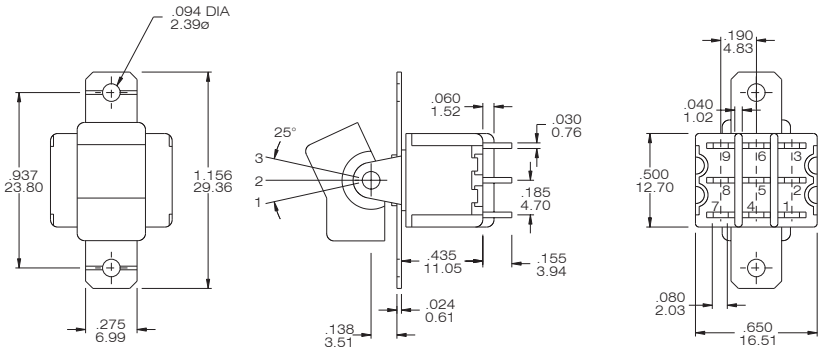
Please see page B12 to know more about R818
(3-way Switches)

3PDT



Model No.	Switching position		
R8301V	ON	none	ON
R8303V	ON	none	(ON)
R8305V	ON	OFF	ON
R8307V	(ON)	OFF	(ON)
R8309V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7



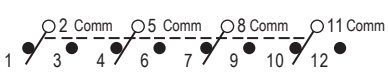


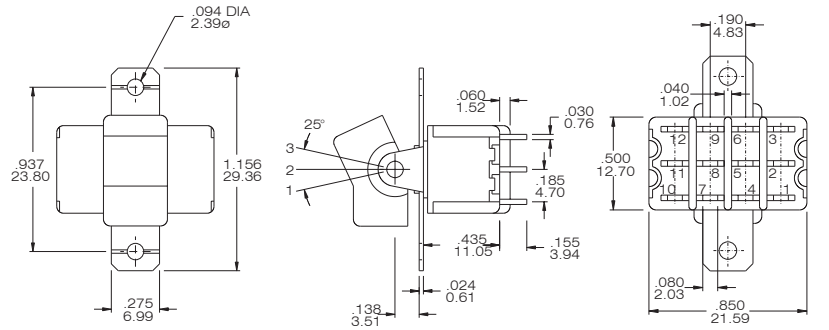
R8301V- R11-2-BQ

4PDT



Model No.	Switching position		
R8401V	ON	none	ON
R8403V	ON	none	(ON)
R8405V	ON	OFF	ON
R8407V	(ON)	OFF	(ON)
R8409V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
R845V	ON	ON	ON
R847V	(ON)	ON	(ON)
R849V	ON	ON	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10





R8401V -R11-2-BQ

Please see page B12 to know more about R845V
(3-way Switches)

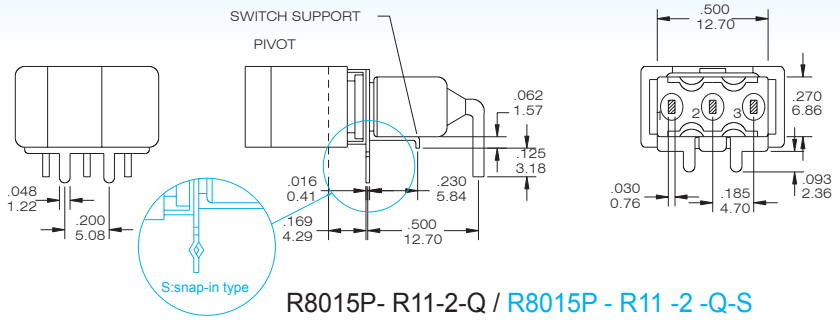
HORISON RIGHT ANGLE

SPDT





Model No.	Switching position		
R8015P	ON	none	ON
R8015PA	ON	none	(ON)
R8016P	ON	OFF	ON
R8016PA	(ON)	OFF	(ON)
R8016PB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



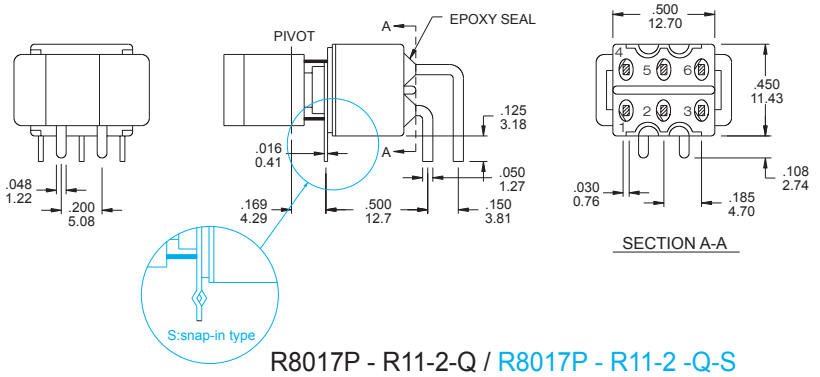
R8015P- R11-2-Q / R8015P - R11 -2 -Q-S

DPDT





Model No.	Switching position		
R8017P	ON	none	ON
R8017PA	ON	none	(ON)
R8018P	ON	OFF	ON
R8018PA	(ON)	OFF	(ON)
R8018PB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818P	ON	ON	ON
R818PA	(ON)	ON	(ON)
R818PB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



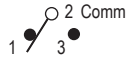
R8017P - R11-2-Q / R8017P - R11-2 -Q-S

Please see page B12 to know more about R818P (3-way Switches)

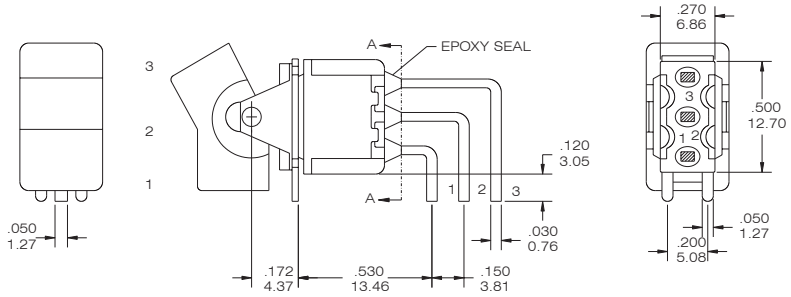
VERTICAL RIGHT ANGLE

SPDT





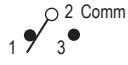
Model No.	Switching position		
R8015L	ON	none	ON
R8015LA	ON	none	(ON)
R8016L	ON	OFF	ON
R8016LA	(ON)	OFF	(ON)
R8016LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



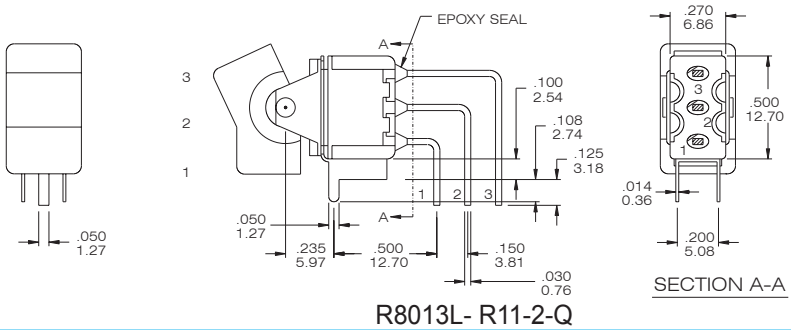
R8015L - R11-2-Q

SPDT





Model No.	Switching position		
R8013L	ON	none	ON
R8013LA	ON	none	(ON)
R8014L	ON	OFF	ON
R8014LA	(ON)	OFF	(ON)
R8014LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



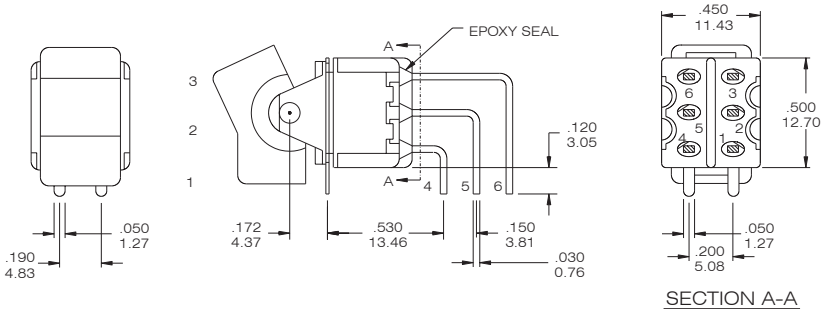
R8013L- R11-2-Q

DPDT





Model No.	Switching position		
R8017L	ON	none	ON
R8017LA	ON	none	(ON)
R8018L	ON	OFF	ON
R8018LA	(ON)	OFF	(ON)
R8018LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818L	ON	ON	ON
R818LA	(ON)	ON	(ON)
R818LB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



R8017L - R11-2-Q

Please see page B12 to know more about R818L (3-way Switches)

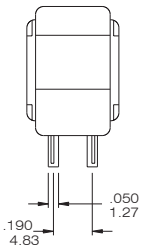
VERTICAL RIGHT ANGLE PAGE

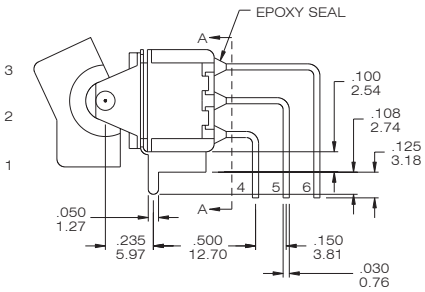
DPDT

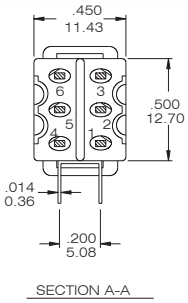




Model No.	Switching position		
R8011L	ON	none	ON
R8011LA	ON	none	(ON)
R8012L	ON	OFF	ON
R8012LA	(ON)	OFF	(ON)
R8012LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R812L	ON	ON	ON
R812LA	(ON)	ON	(ON)
R812LB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4





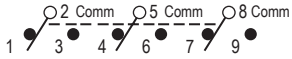


R8011L - R11-2-Q

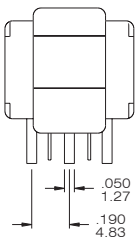
Please see page B12 to know more about R812L (3-way Switches)

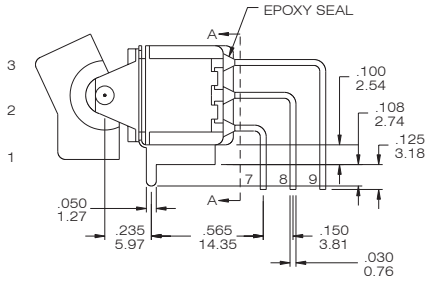
3PDT

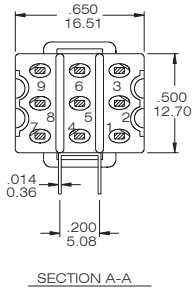




Model No.	Switching position		
R8301L	ON	none	ON
R8303L	ON	none	(ON)
R8305L	ON	OFF	ON
R8307L	(ON)	OFF	(ON)
R8309L	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7

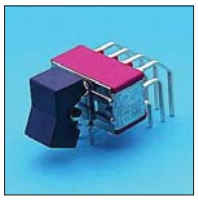






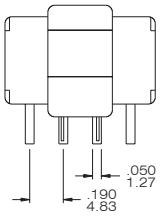
R8301L- R11-2-Q

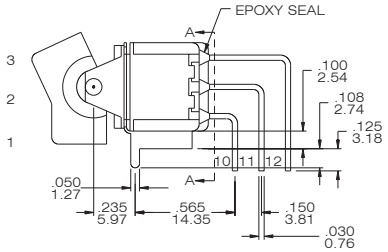
4PDT

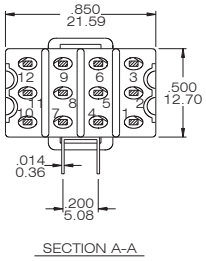




Model No.	Switching position		
R8401L	ON	none	ON
R8403L	ON	none	(ON)
R8405L	ON	OFF	ON
R8407L	(ON)	OFF	(ON)
R8409L	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
R845L	ON	ON	ON
R847L	(ON)	ON	(ON)
R849L	ON	ON	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10



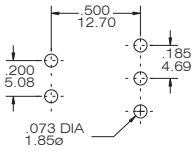




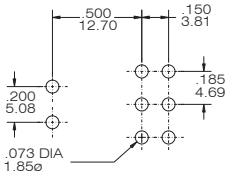
R8401L - R11-2Q

Please see page B12 to know more about R845L(3-way Switches)

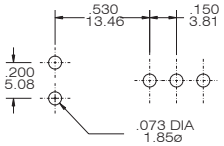
FOR R8015P-R8016P



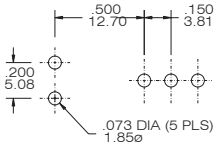
FOR R8017P-R8018P



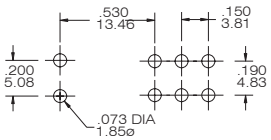
FOR R8015L-R8016L



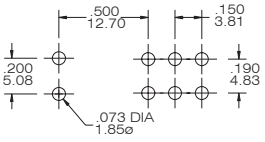
FOR R8013L-R8014L



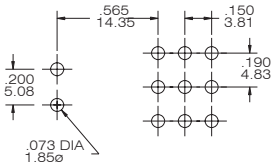
FOR R8017L-R8018L



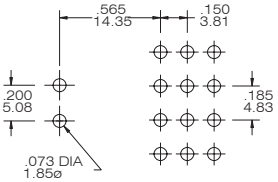
FOR R8011L-R8012L



FOR R8301L-R8309L



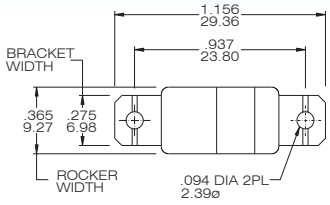
FOR R8401L-R8409L

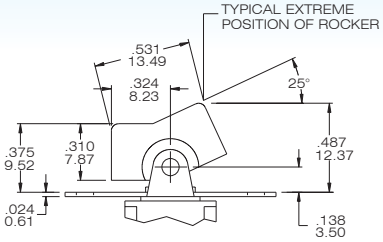


Actuator Option(PANEL REAR MOUNT) only for the straight type (Page B-06)

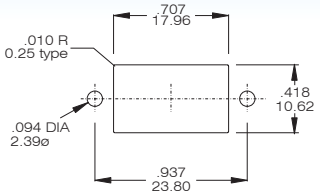
R11





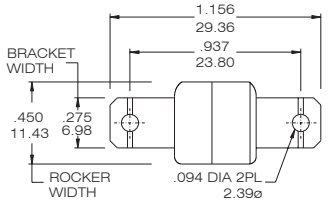


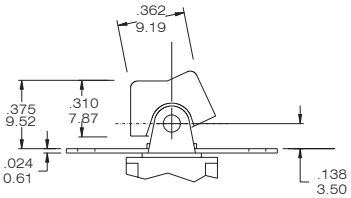
PANELMOUNTING



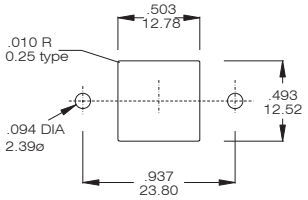
R21





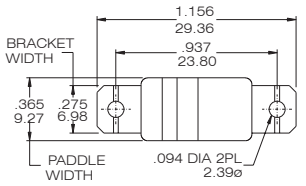


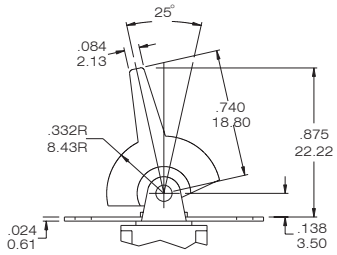
PANELMOUNTING



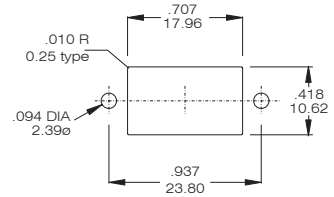
P13





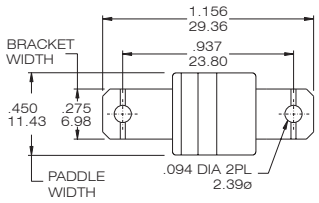


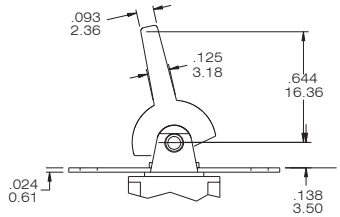
PANELMOUNTING



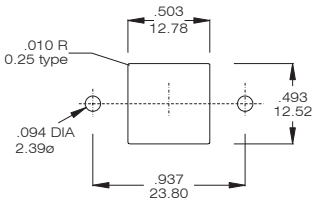
P23





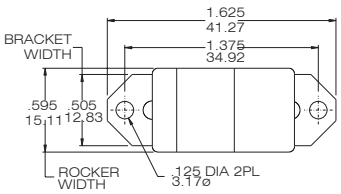


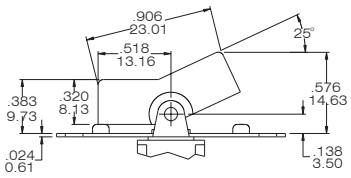
PANELMOUNTING



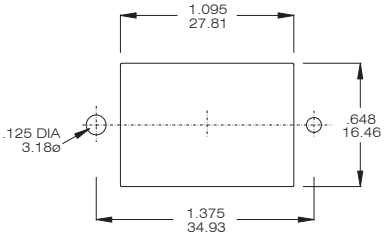
R15





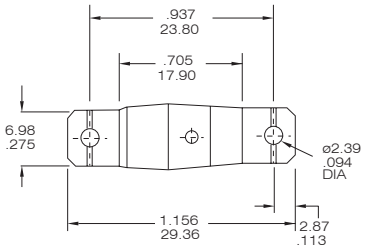


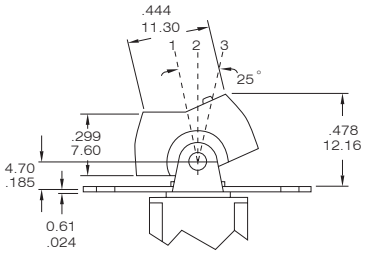
PANELMOUNTING



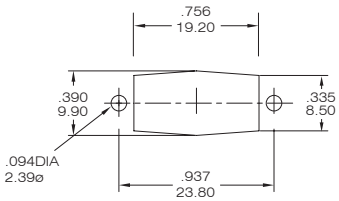
R17





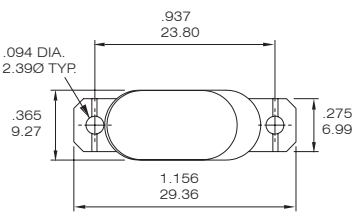


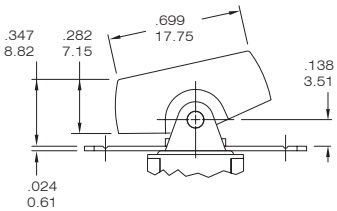
PANELMOUNTING

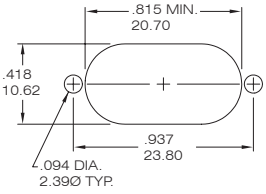


R19







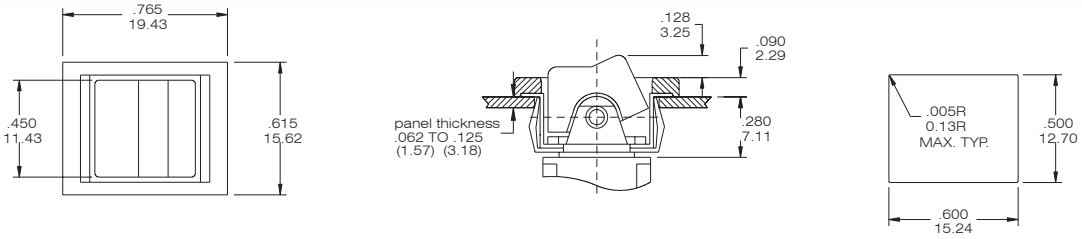


Actuator Option(SNAP-IN FRONT MOUNT) only for the straight type (Page B-06)

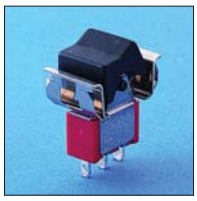
R12



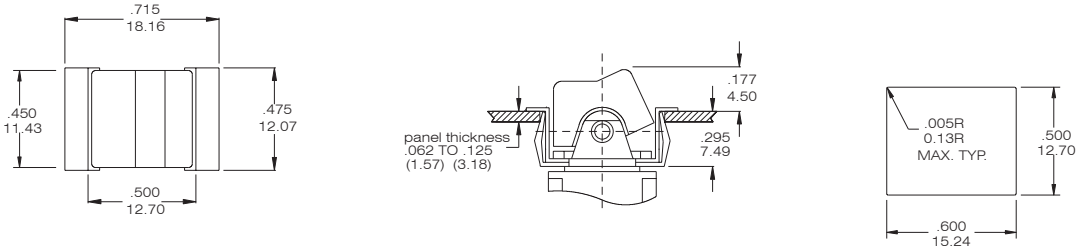
PANEL MOUNTING



R22



PANEL MOUNTING

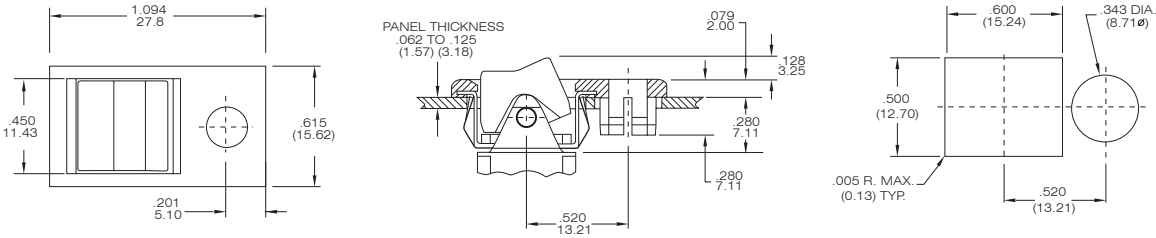


R32

NEW



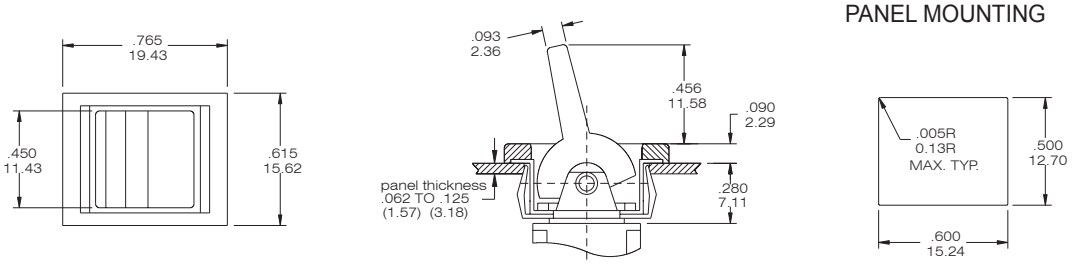
PANEL MOUNTING



P14



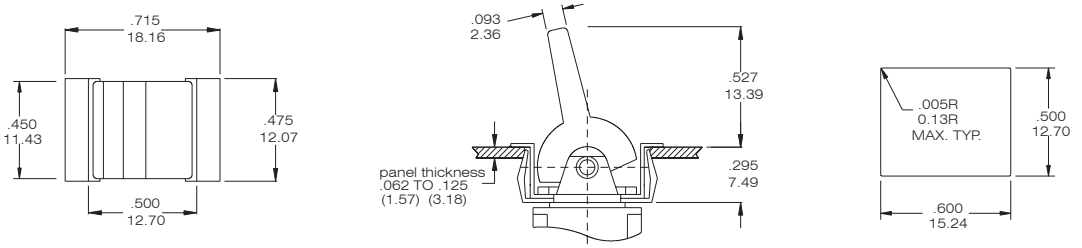
PANEL MOUNTING



P24

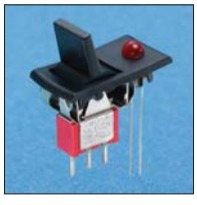


PANEL MOUNTING

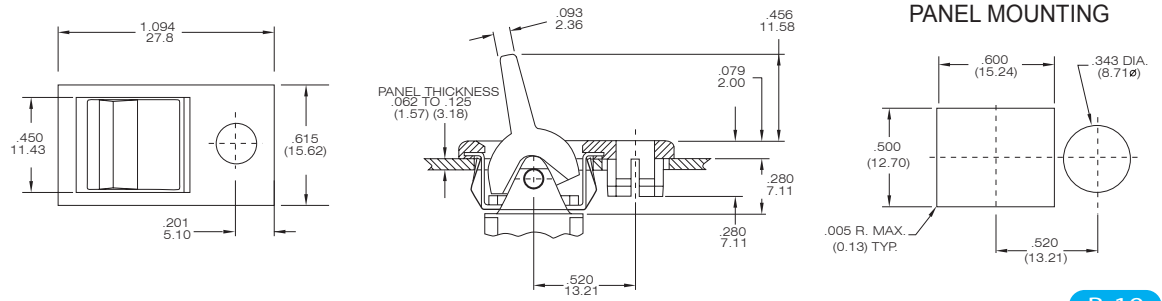


P34

NEW

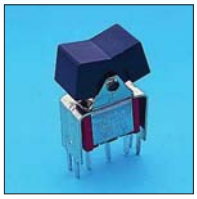


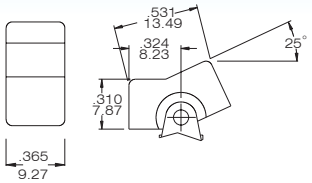
PANEL MOUNTING



Actuator Option (P.C.B MOUNT)

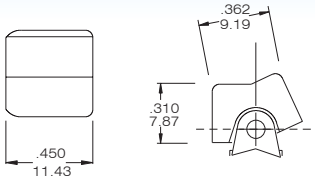
R11



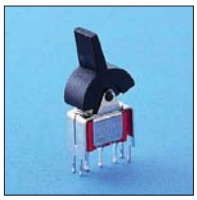


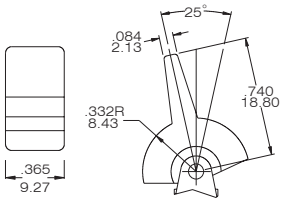
R21





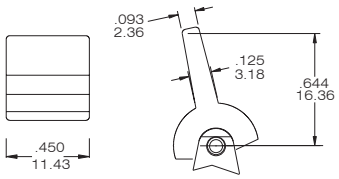
P13



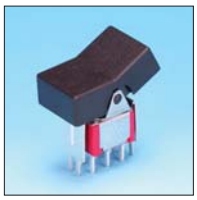


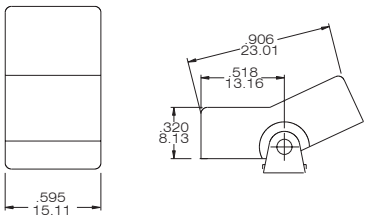
P23



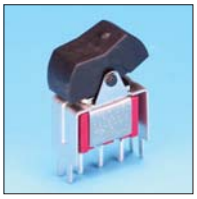


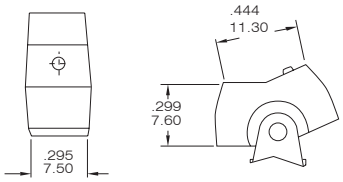
R15



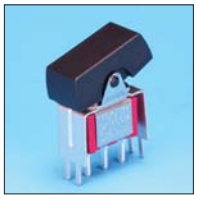


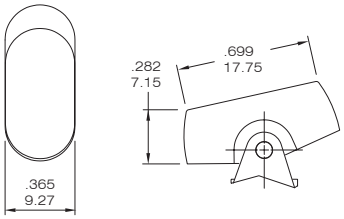
R17





R19



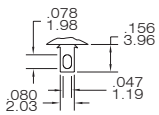


Actuator Color Option

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

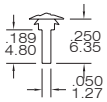
TERMINAL OPTION (ONLY FOR THE STRAIGHT TYPE R8015~R8401)

B SOLDER LUG



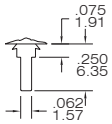
THK 0.76 (.030)

C PRINTED CIRCUIT



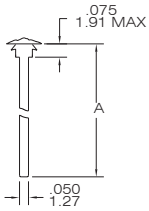
THK 0.76 (.030)

D QUICK CONNECT



THK 0.76 (.030)

WIREWRAP



THK 0.76 (.030)

CODE	"A"dimension
D1	.750 (19.05)
D3	.425 (10.8)

TERMINAL SEAL OPTION

E TERMINAL SEAL



CONTACT MATERIAL OPTIONS

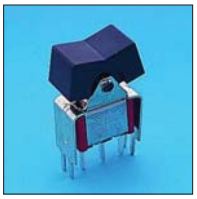
CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	5 A @ 125 V AC or 28 V DC; 3 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 5 A @ 125V AC or 28 V DC; 3 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

* THE K option is only for some special item. Please inquire first when you need the "K" option

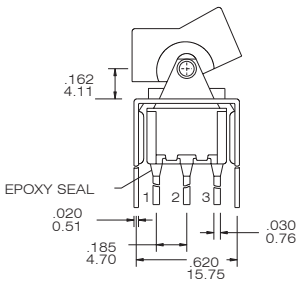
VERTICAL SUPPORT BRACKET OPTION

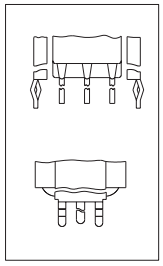
(only apply the straight type terminal -page B06. Please build the terminal option is "c" code)

S20 / S25/ V20/V25



SPDT

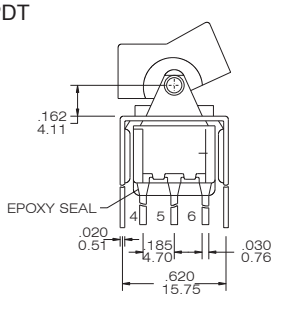


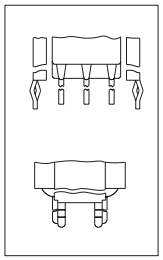


SNAP-IN
V20/ V25

R8015-R11-2-CQ-S20(S25)

DPDT



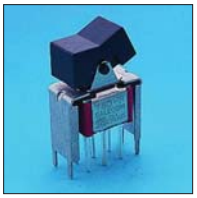


SNAP-IN
V20/ V25

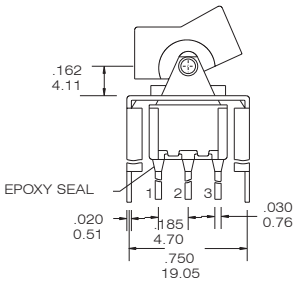
R8017 - R11-2-CQ-S20(S25)

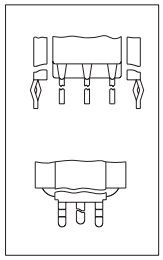
option Code	A dimension
S20/V20	.460 11.68
S25/V25	.630 16.00
V20/V25 : the snap-in type	

S35/S40 /V35/V40



SPDT

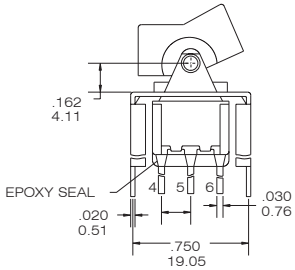


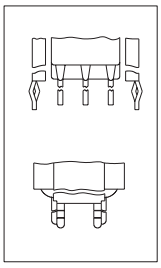


SNAP-IN
V35/ V40

R8015-R11-2-CQ-S35(S40)

DPDT



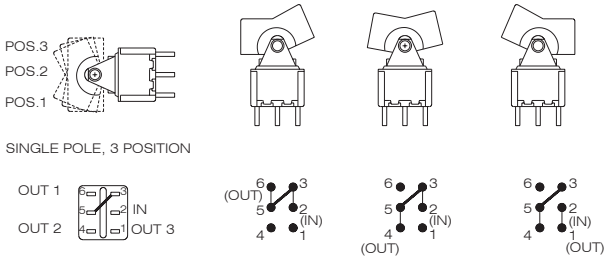


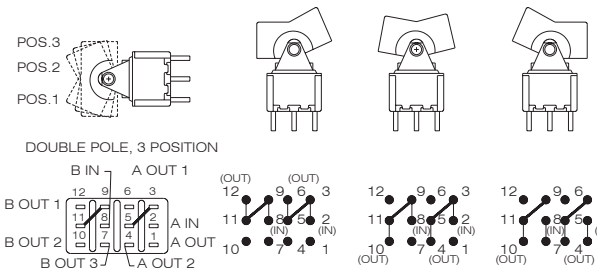
SNAP-IN
V35/ V40

R8017-R11-2-CQ-S35(S40)

option Code	A dimension
S35/V35	.460 11.68
S40/V40	.630 16.00
V35/V40 : the snap-in type	

The information of 3-way rocker switches





SP3T | **DP3T**