

Rocker/Paddle Switches, A Series, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts/Terminals.....Gold/gold flash
 Silver/tin lead
 Case MaterialThermoset 94V-0
 Actuator MaterialPolyamide
 Terminal SealEpoxy

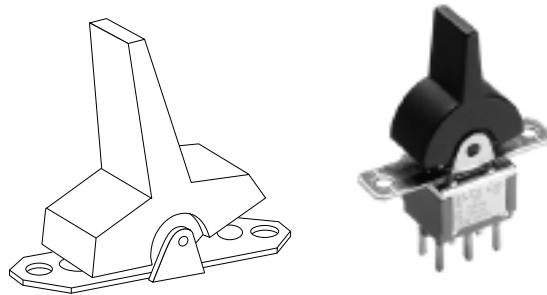
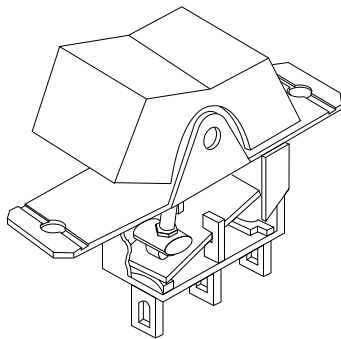
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-49°F to +212°F (-45°C to +100°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA @ 20 AC/DC
 Silver: 2 A @ 250 VAC: 5 A @ 125 VAC
 Silver: 2 A @ 30 VDC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms @ 500 VDC
 Dielectric Strength1,000 Volts RMS @ sea level
 Actuator Travel.....25°
 Life ExpectancyUp to 30,000 Cycles

DESIGN



PART NUMBERING

Model	Function	Actuator	Terminal	Contact	Actuator Color	Beveled Frame Color	Option
A1	Single Pole	J1 Small	Z Wire Lug	Q Silver	0 Black (Std.)	0 Black (Std.)	UL (Q or G) contacts only
A2	Double Pole	J3 Large	A Right Angle	B Gold	2 Red		
01	On-On	J15 Snap-in	AV2 Vert. Right Angle	G Gold over Silver			
03	On-Off-On	J16 Snap-in w/beveled frame	C Printed Circuit				
05	(On)-Off-(On)	J50 Snap-in	V5 Vertical Right Angle				
		J51 Snap-in w/beveled frame	V3 V4 Vertical Support Bracket				
		J52 Snap-in w/beveled frame LED	W Wire Wrap				
		J2 Small	Z3 Quick Connect				
		J4 Large					
		J5 Large					
		J60 Snap-in					
		J61 Snap-in w/beveled frame					
		J62 Snap-in w/beveled frame & LED					

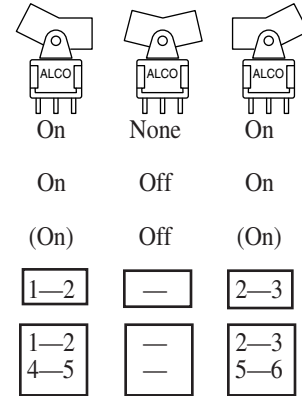
OPTIONAL:
 UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
 CSA Certified File #LR65901

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

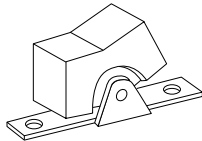
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation.
- SPDT, connect terminals:
DPDT, connect terminals:



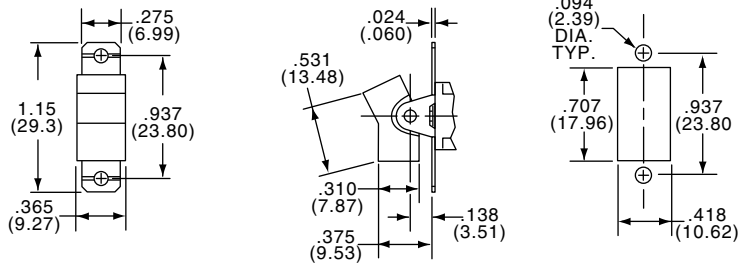
ACTUATORS

J1 Rockers

Small

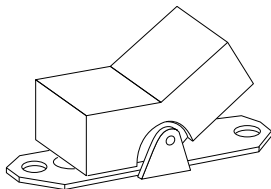


Mounting Type Standard with C or Z Terminal Type

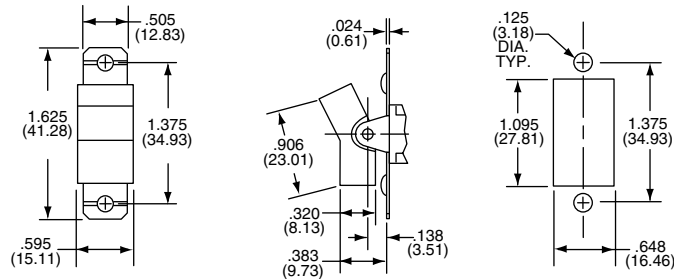


J3

Large



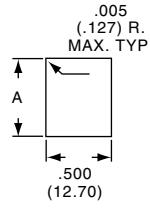
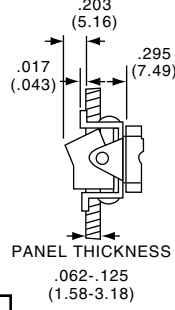
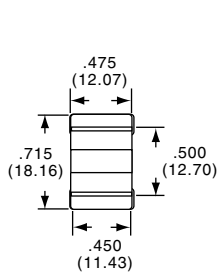
Mounting Type Standard with C or Z Terminal Type



F

Gemini Series Rocker/Paddle Switches

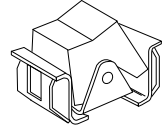
Rocker/Paddle Switches, A Series, Options



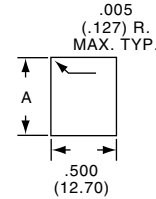
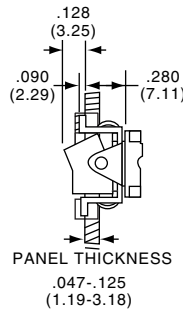
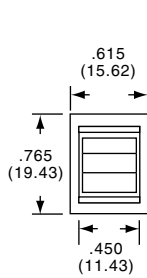
ROCKER



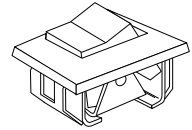
Snap-in



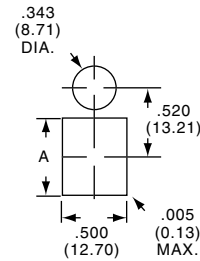
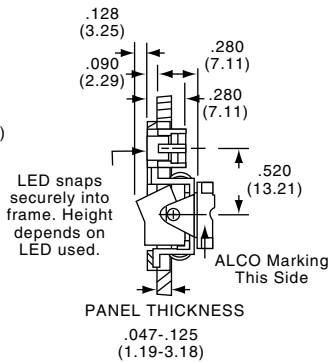
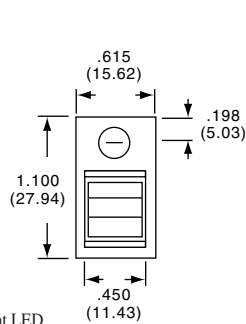
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



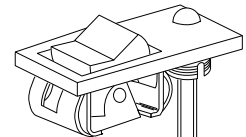
Snap-in with beveled frame



	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



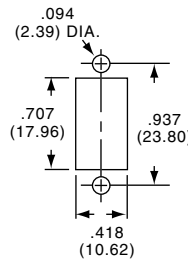
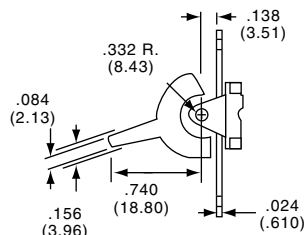
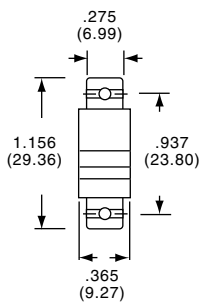
Snap-in with beveled frame/L.E.D.



L.E.D. Not supplied.

	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

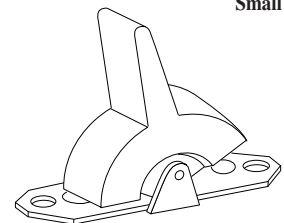
Accepts BL-17 or equivalent LED



PADDLE

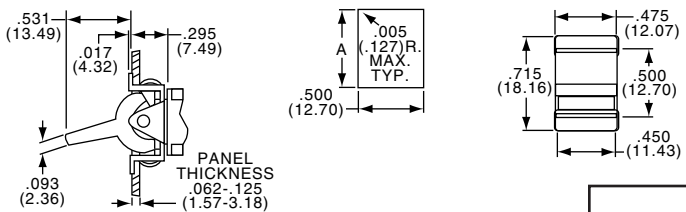
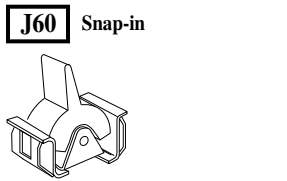
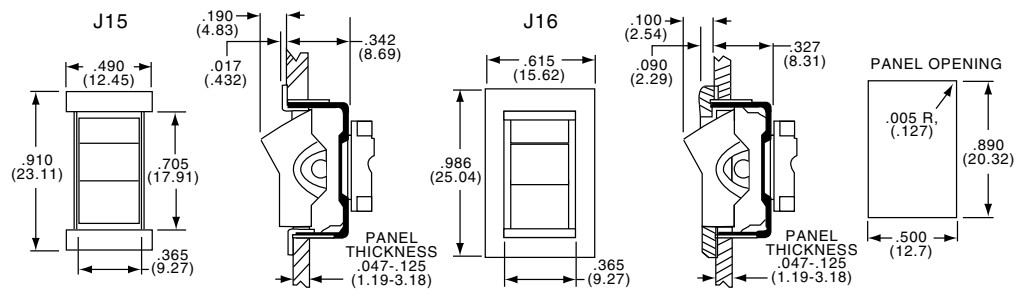
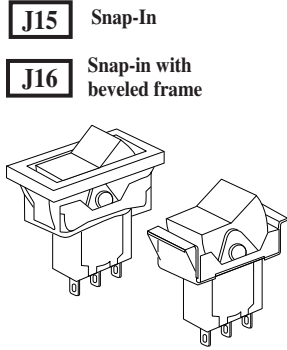
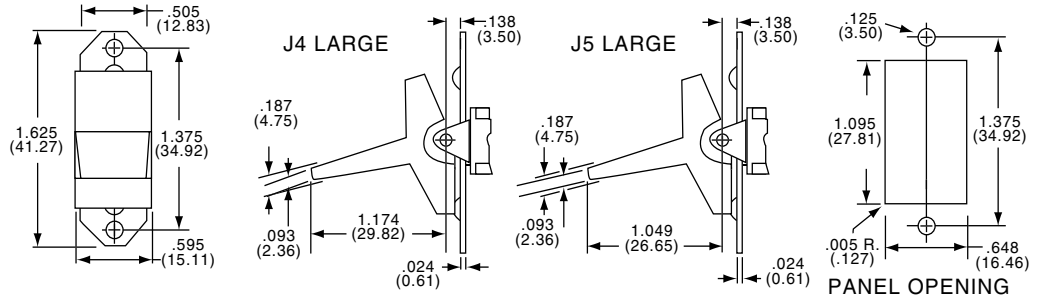
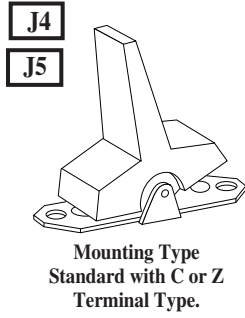


Small

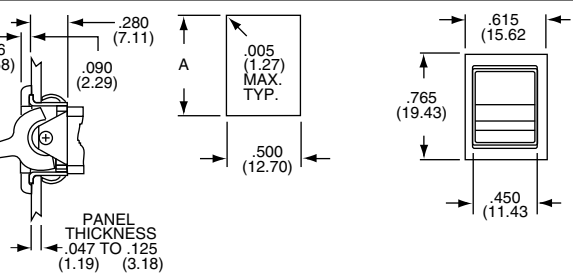
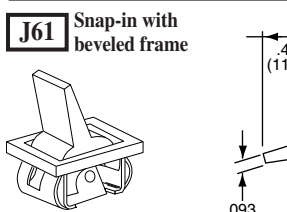


Mounting Type Standard with C or Z Terminal Type.

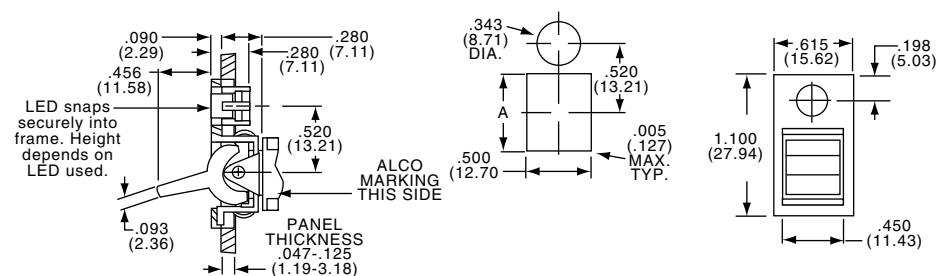
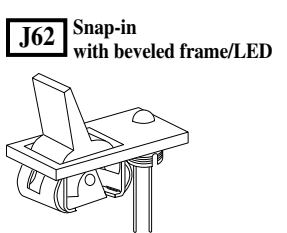
Rocker/Paddle Switches, A Series, Options



Panel Opening			
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



Panel Opening			
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



Panel Opening			
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

Accepts BL-17 or equivalent LED
L.E.D. not supplied

F

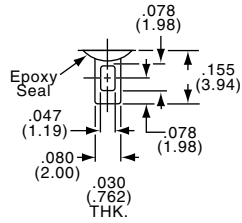
Gemini Series Rocker/Paddle Switches

Rocker/Paddle Switches, A Series, Termination Options

TERMINALS

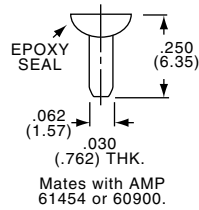
Z

Wire Lug Standard



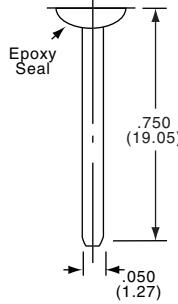
Q

Quick Connect



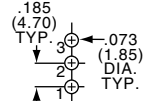
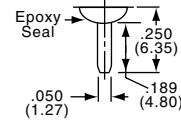
W

Wire Wrap

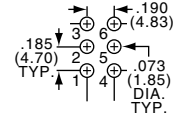


C

Printed Circuit



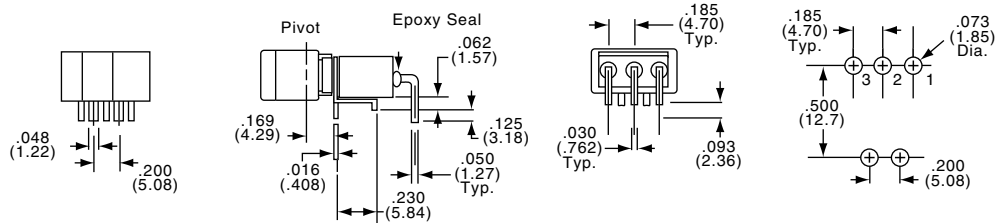
SINGLE POLE



DOUBLE POLE

A

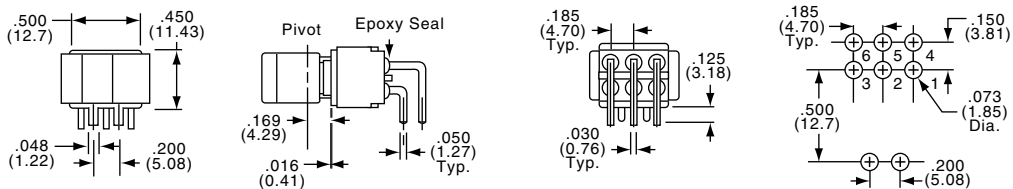
Right Angle Single Pole



NOTE: Terminal numbers viewed from top of P.C. board.

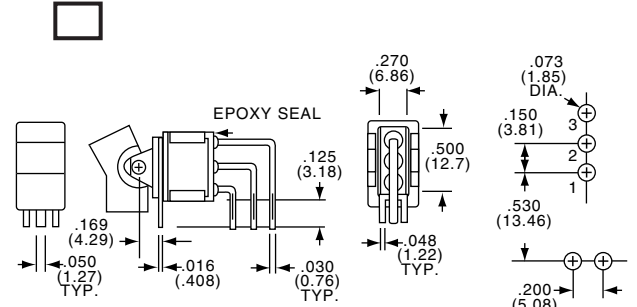
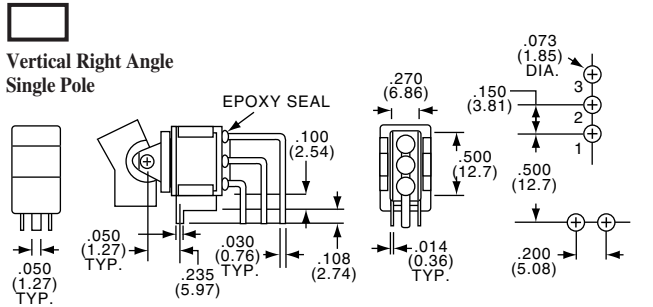
A

Right Angle Double Pole

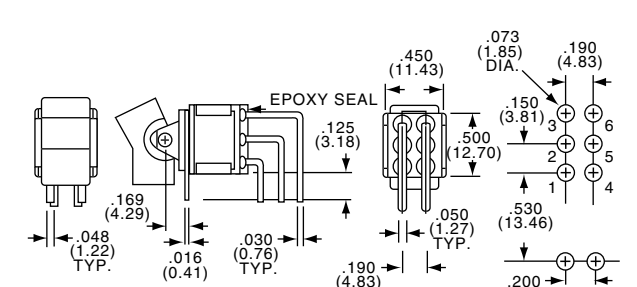
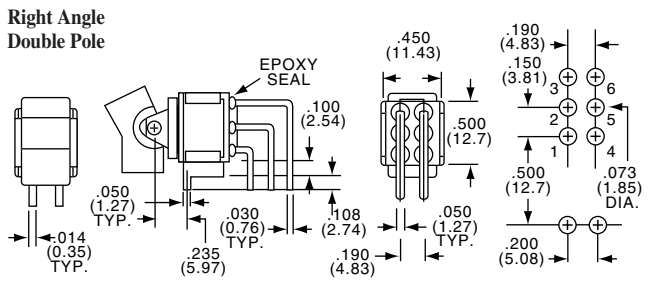


NOTE: Terminal numbers viewed from top of P.C. board.

Rocker/Paddle Switches, A Series, Options

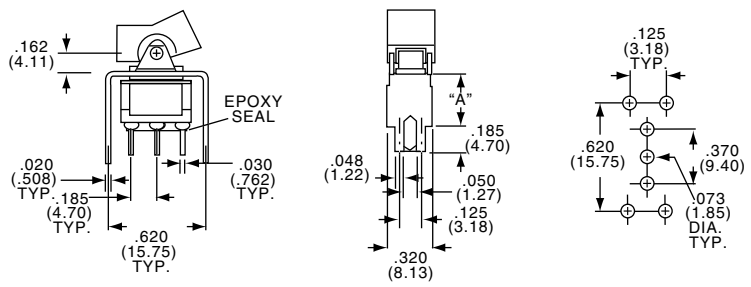


NOTE: Terminal numbers viewed from top of P.C. board.



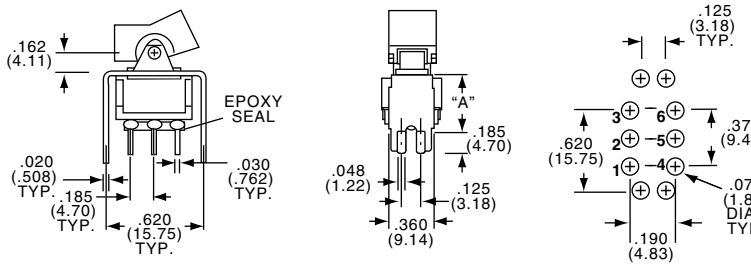
NOTE: Terminal numbers viewed from top of P.C. board.

V3 V4
Vertical Support Bracket Single Pole



Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)

Vertical Support Bracket Double Pole



Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Copper alloy with tin/lead plate.

ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC. UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

F

Gemini Series Rocker/Paddle Switches

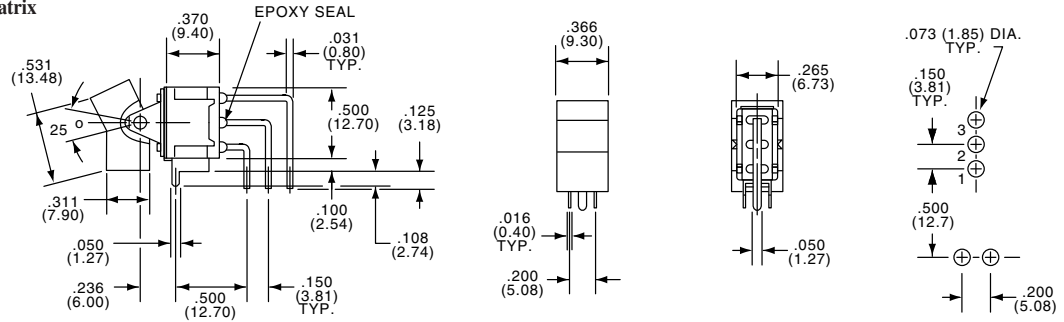
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

* Refer to Pages F7 for Product Specifications and Part Matrix

SPDT



A101J1AV2Q0

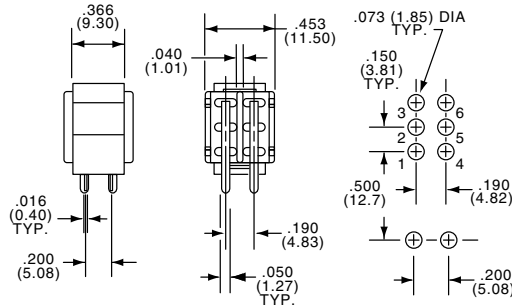


DPDT



A205J1AV2Q0

Standard Rocker Color - (Black)



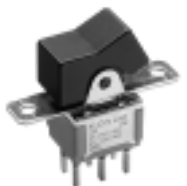
Silver Contacts						
Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-1	A101J1AV2Q0	SPDT	1	On	None	On
4-1437591-7	A105J1AV2Q0	SPDT	5	(On)	Off	(On)
7-1437591-1	A201J1AV2Q0	DPDT	2	On	None	On
9-1437591-6	A205J1AV2Q0	DPDT	6	(On)	Off	(On)

SPDT



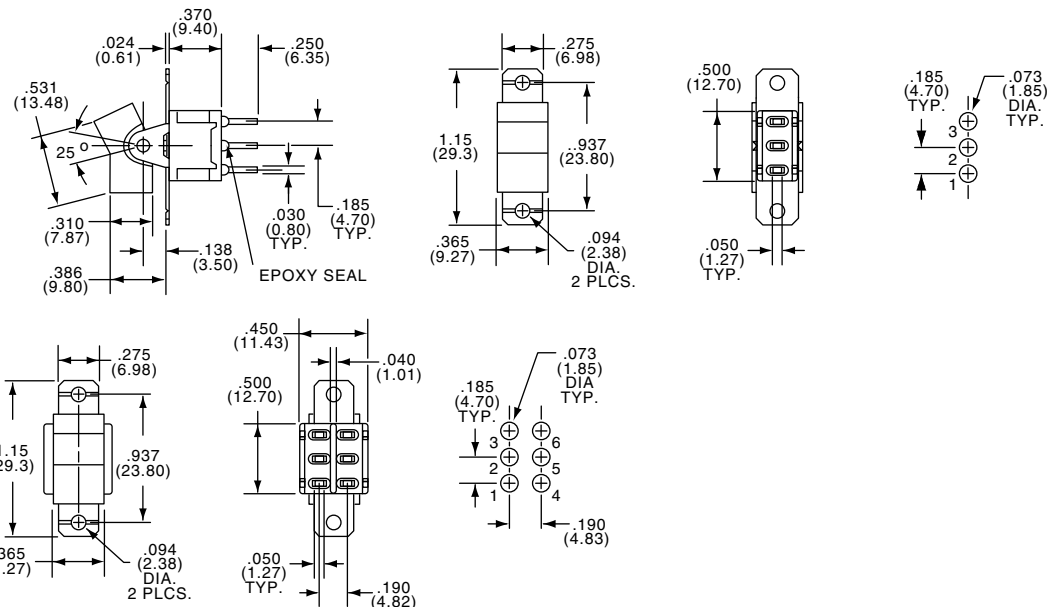
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DPDT



A201J1CQ0

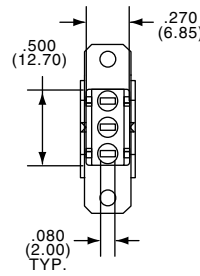
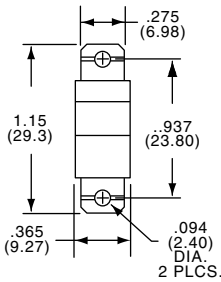
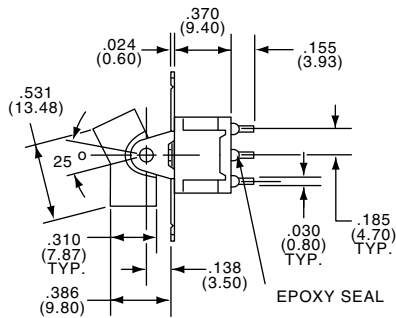
Standard Rocker Color - (Black)



Silver Contacts						
Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
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4-1437591-8	A105J1CQ0	SPDT	5	(On)	Off	(On)
7-1437591-2	A201J1CQ0	DPDT	2	On	None	On
—	A203J1CQ0	DPDT	6	On	Off	On
—	A205J1CQ0	DPDT	6	(On)	Off	(On)

Rocker Switches, A Series, Wire Lug or Right Angle

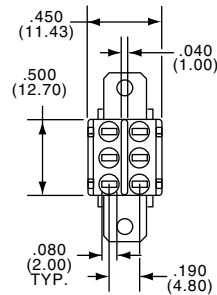
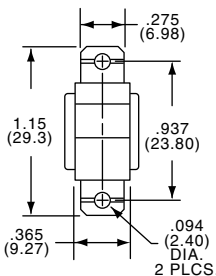
SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX



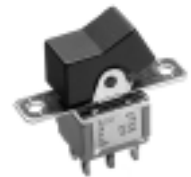
SPDT



A101J1ZQ0



DPDT

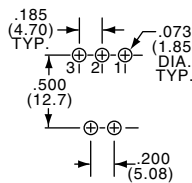
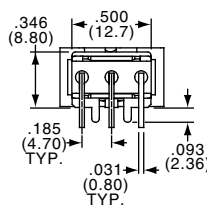
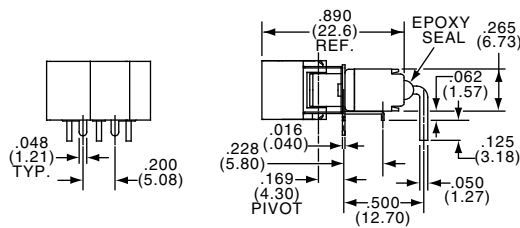


A201J1ZQ0

Standard Rocker Color - (Black)

Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5			
1-1437591-7	A101J1ZQ0	SPDT	1		On	None	On	7-1437591-4	A201J1ZQ0	DPDT	2		On	None	On
3-1437591-8	A103J1ZQ0	SPDT	5		On	Off	On	9-1437591-1	A203J1ZQ0	DPDT	6		On	Off	On
5-1437591-0	A105J1ZQ0	SPDT	5		(On)	Off	(On)	9-1437591-7	A205J1ZQ0	DPDT	6		(On)	Off	(On)

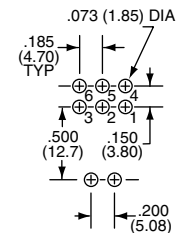
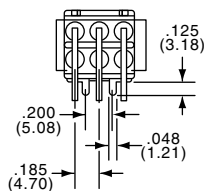
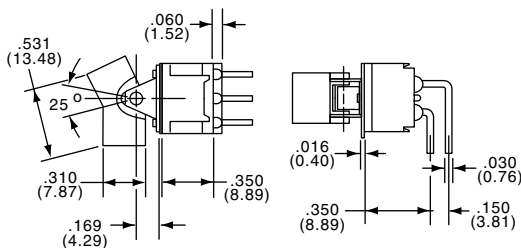
Gemini Series Rocker/Paddle Switches



SPDT



A101J1AQ0



DPDT



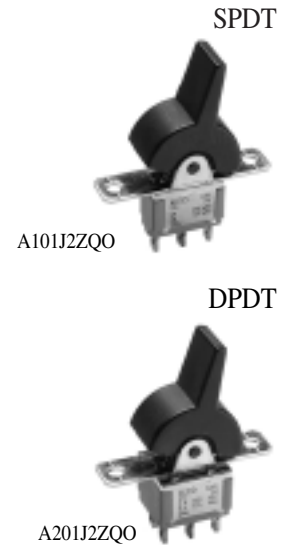
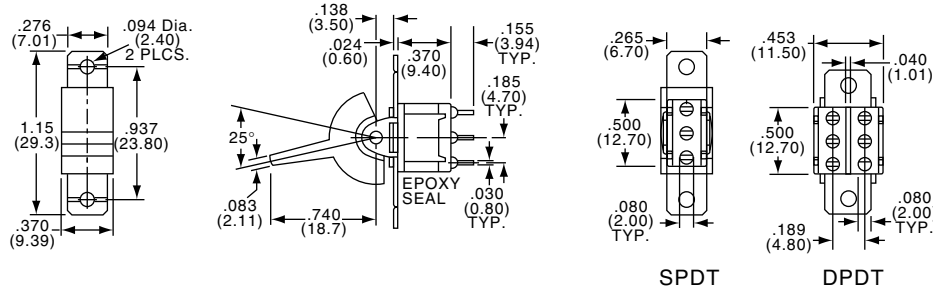
A201J1AQ0

Standard Rocker Color - (Black)

Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5			
1437591-8	A101J1AQ0	SPDT	1		On	None	On	6-1437591-9	A201J1AQ0	DPDT	2		On	None	On
4-1437591-6	A105J1AQ0	SPDT	5		(On)	Off	(On)	8-1437591-7	A203J1AQ0	DPDT	6		On	Off	On
								—	A205J1AQ0	DPDT	6		(On)	Off	(On)

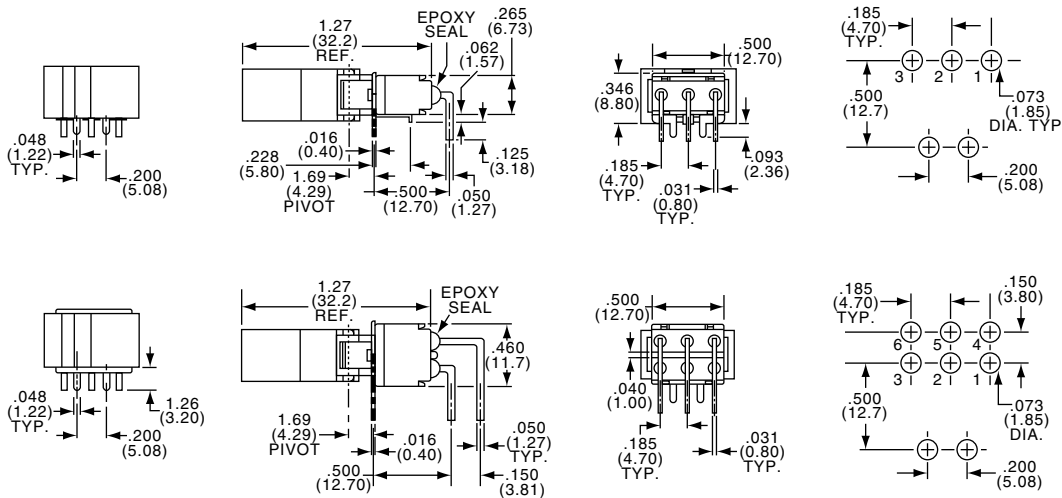
* Refer to Pages F7 for Product Specifications and Part Matrix

Paddle Switches, A Series, Wire Lug or Right Angle



Standard Paddle Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act.	Code	P. M5	On	None	On	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act.	Code	P. M5	On	None	On
1-1437591-9	A101J2ZQ0	SPDT	1			On	None	On	7-1437591-6	A201J2ZQ0	DPDT	2			On	None	On
4-1437591-0	A103J2ZQ0	SPDT	5			On	Off	On	—	A203J2ZQ0	DPDT	6			On	Off	On
5-1437591-3	A105J2ZQ0	SPDT	5			(On)	Off	(On)	9-1437591-9	A205J2ZQ0	DPDT	6			(On)	Off	(On)



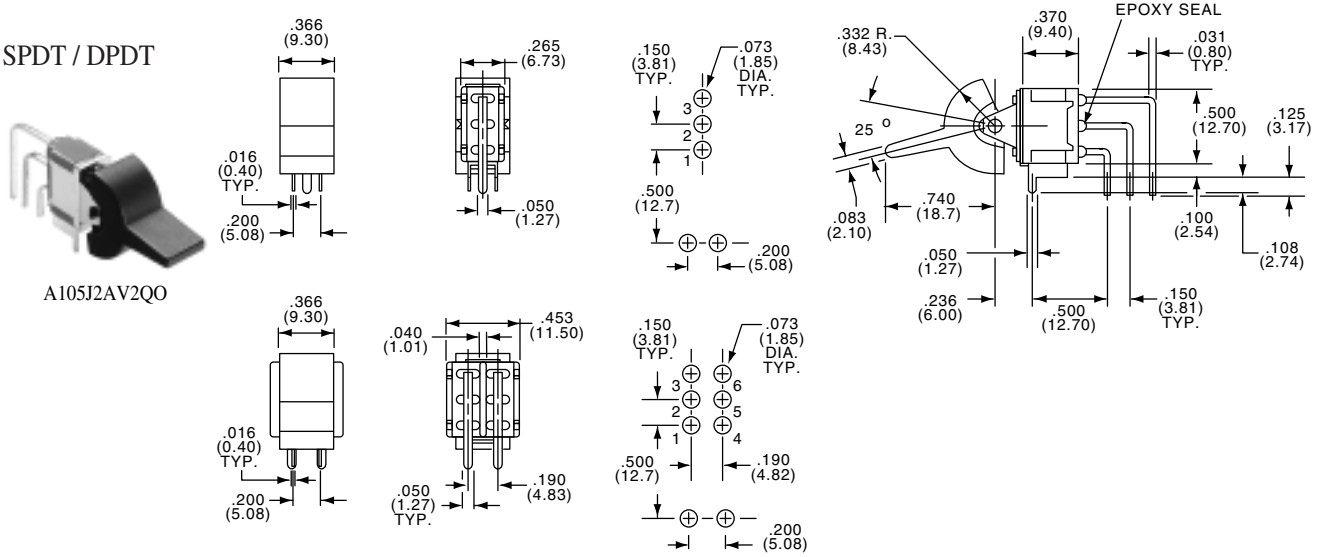
Standard Paddle Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act.	Code	P. M5	On	None	On	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act.	Code	P. M5	On	None	On
—	A101J2AQ0	SPDT	1			On	None	On	—	A201J2AQ0	DPDT	2			On	None	On
—	A103J2AQ0	SPDT	5			On	Off	On	—	A203J2AQ0	DPDT	6			On	Off	On
5-1437591-1	A105J2AQ0	SPDT	5			(On)	Off	(On)	—	A205J2AQ0	DPDT	6			(On)	Off	(On)

Paddle Switches, A Series, PC Tail, Straight or Vertical Right Angle

SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX

SPDT / DPDT



A105J2AV2Q0

F

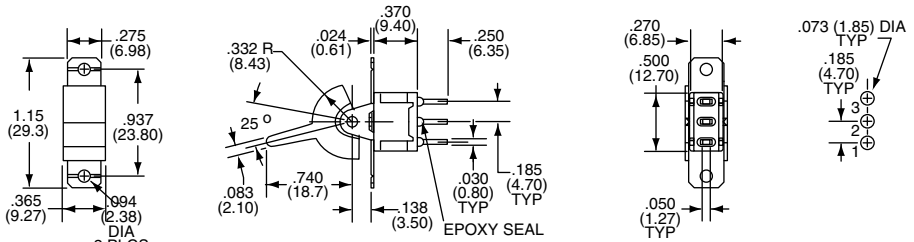
Standard Paddle Color - (Black)

Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	On	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	On
1-1437591-8	A101J2AV2Q0	SPDT	1		On	None	On	—	A201J2AV2Q0	DPDT	2		On	None	On
5-1437591-2	A105J2AV2Q0	SPDT	5		(On)	Off	(On)								

SPDT



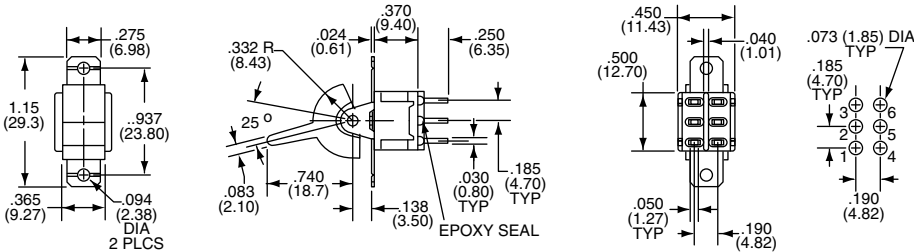
A105J2CQ0



DPDT



A205J2CQ0



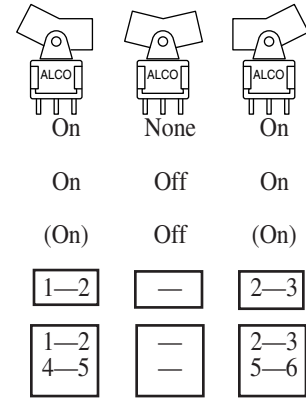
Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	On	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	On
—	A103J2CQ0	SPDT	5		(On)	Off	(On)	7-1437591-5	A201J2CQ0	DPDT	2		On	None	On
—	A105J2CQ0	SPDT	5		(On)	Off	(On)	9-1437591-8	A205J2CQ0	DPDT	6		(On)	Off	(On)

Rocker/Paddle Switches, AE Series, Process Sealed, Options

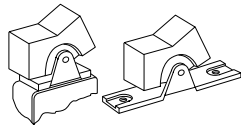
FUNCTIONS

The following functions available in SP or DP.

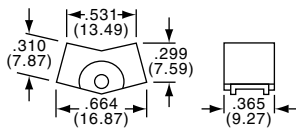
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation
- SPDT, connect terminals:
 DPDT, connect terminals:



J1
Rocker

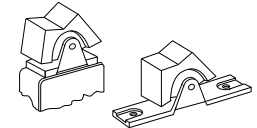


Mounting Provided with C or Z Terminal Type.

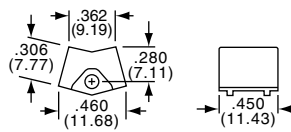


ACTUATORS

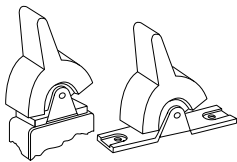
J50
Rocker



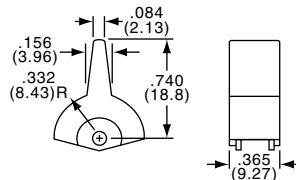
Mounting Provided with C or Z Terminal Type.



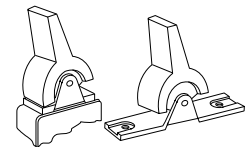
J2
Paddle



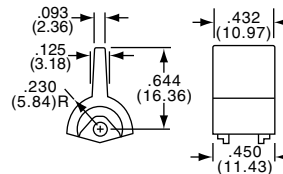
Mounting Provided with C or Z Terminal Type.



J60
Paddle



Mounting Provided with C or Z Terminal Type.

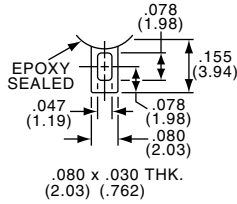


Rocker/Paddle Switches, AE Series, Process Sealed, Termination Options

TERMINALS

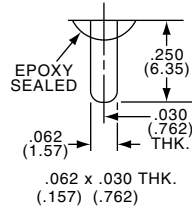
Z

Wire Lug



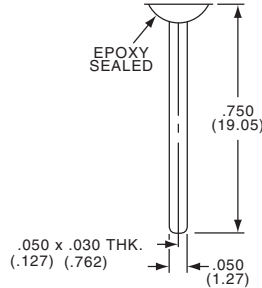
Q

Quick Connect



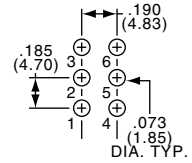
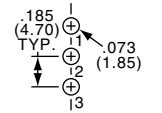
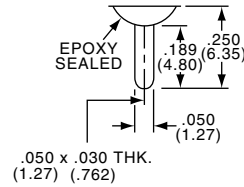
W

Wire Wrap



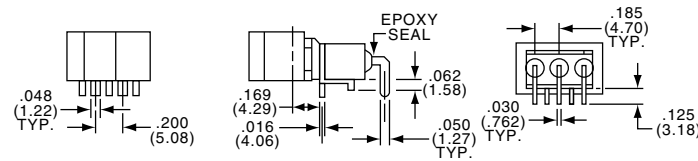
C

Printed Circuit



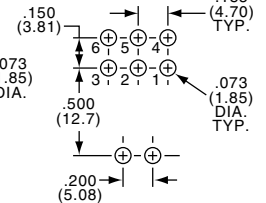
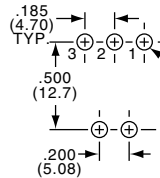
A

Right Angle Single Pole

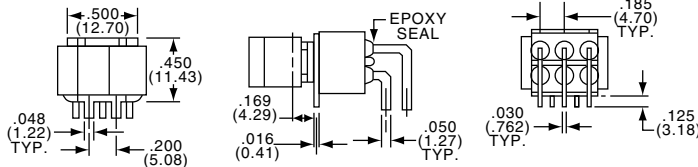


SINGLE POLE

DOUBLE POLE



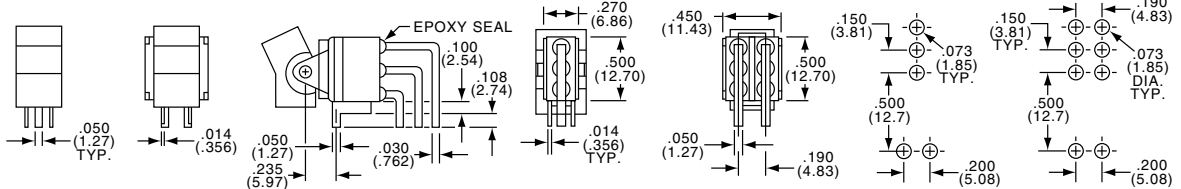
Right Angle Double Pole



NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle



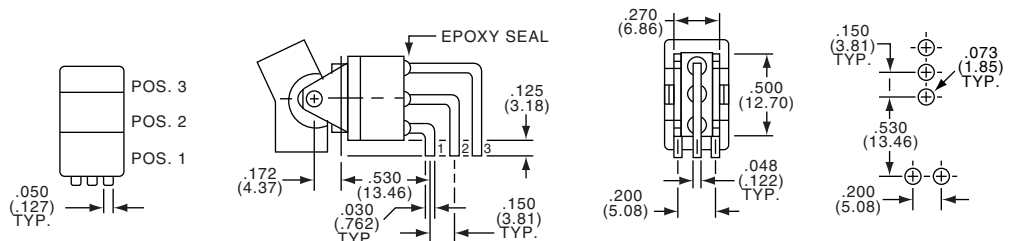
SINGLE POLE

DOUBLE POLE

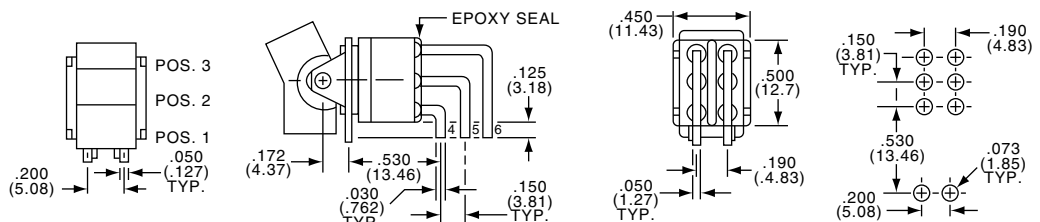
NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle Single Pole



Vertical Right Angle Double Pole

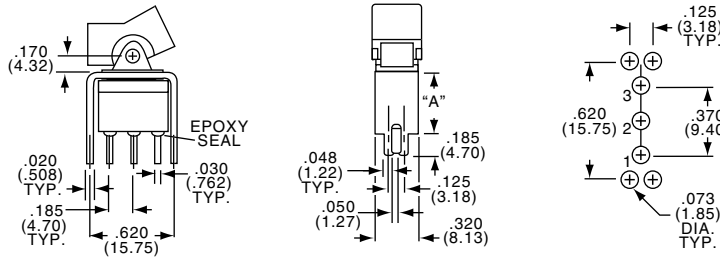


Gemini Series Rocker/Paddle Switches

Rocker/Paddle Switches, AE Series, Process Sealed, Options

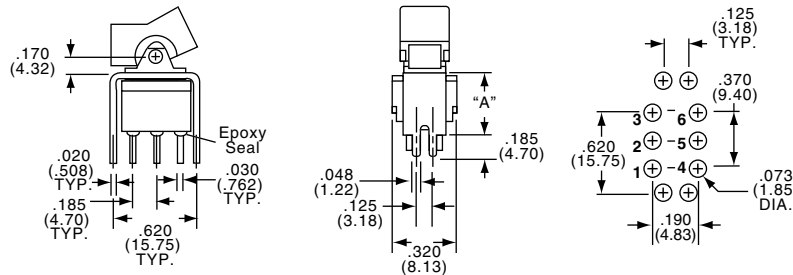


Vertical Support Bracket
Single Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

Vertical Support Bracket
Double Pole



Option Code	Dim."A"
V3	.460 (11.68)
V4	.630 (16.00)

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.
 TERMINALS: Copper alloy with gold plate.
 ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.
 TERMINALS: Copper alloy with tin/lead plate.
 ELECTRICAL RATING: 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.
 UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.
 TERMINALS: Copper alloy with gold plate.
 ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.
 Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.
 UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

F

Gemini Series Rocker/Paddle Switches