

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

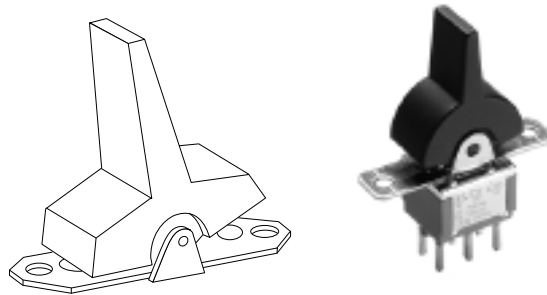
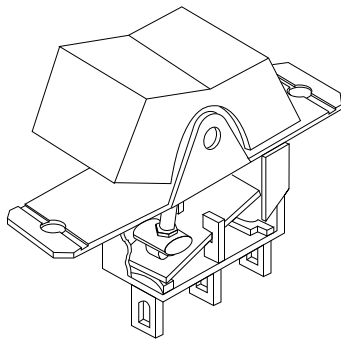
ENVIRONMENTAL SPECIFICATIONS:

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					

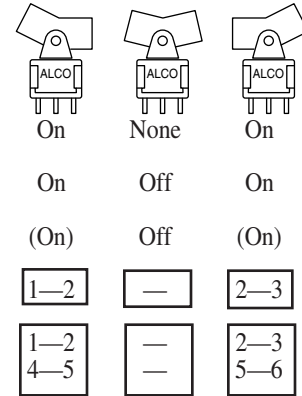
OPTIONAL:
 UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
 CSA Certified File #LR65901

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

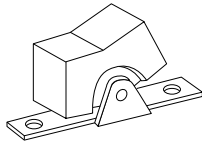
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation.
- SPDT, connect terminals:
DPDT, connect terminals:



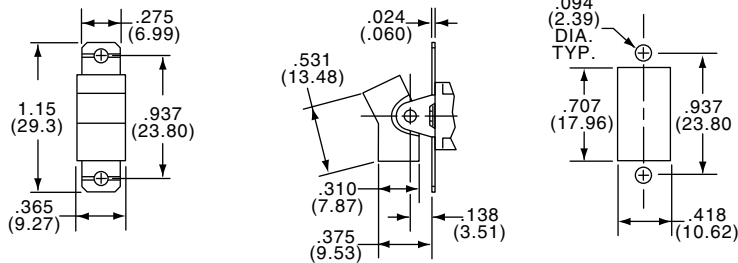
ACTUATORS

J1 Rockers

Small

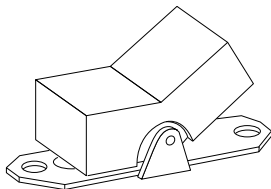


Mounting Type Standard with C or Z Terminal Type

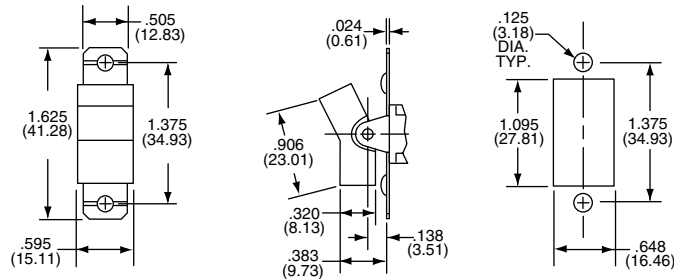


J3

Large



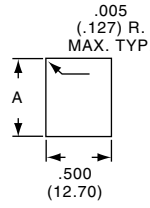
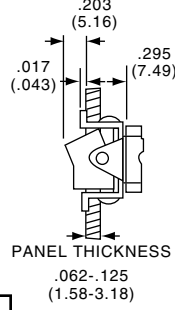
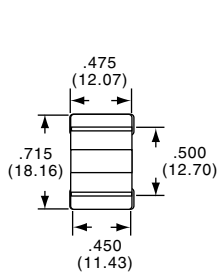
Mounting Type Standard with C or Z Terminal Type



F

Gemini Series Rocker/Paddle Switches

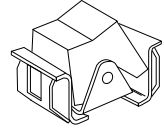
Rocker/Paddle Switches, A Series, Options



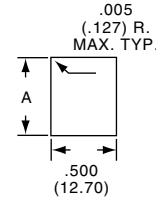
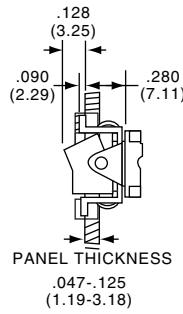
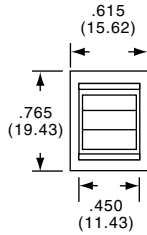
ROCKER



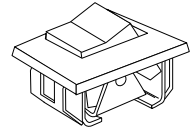
Snap-in



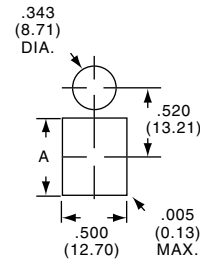
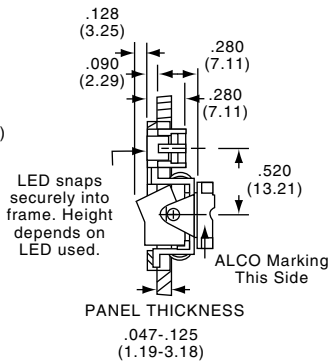
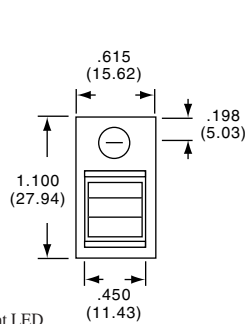
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



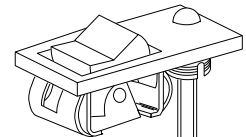
Snap-in with beveled frame



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



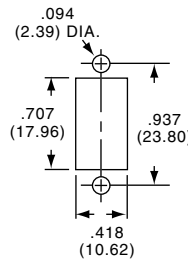
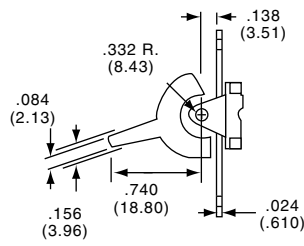
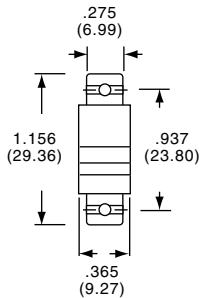
Snap-in with beveled frame/L.E.D.



L.E.D. Not supplied.

Accepts BL-17 or equivalent LED

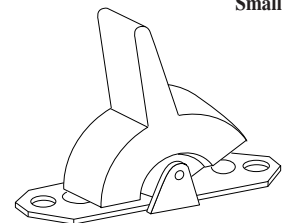
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



PADDLE

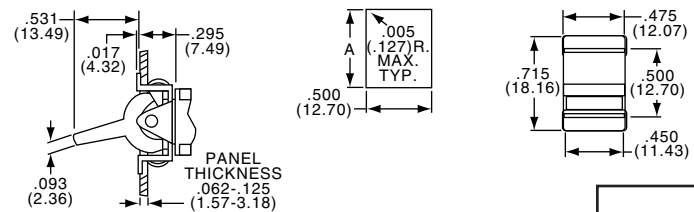
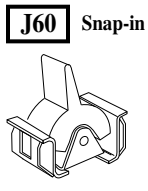
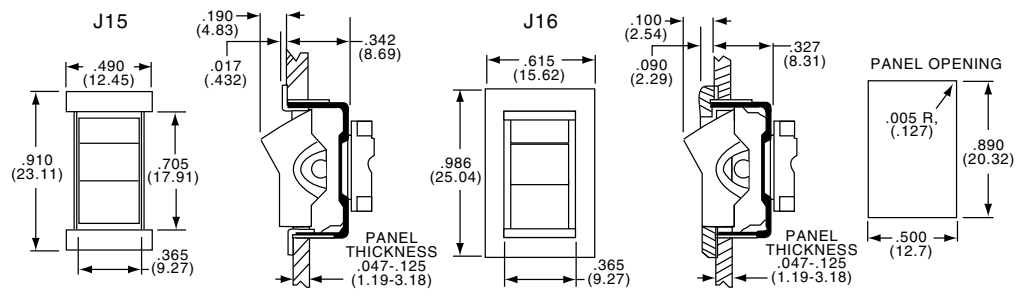
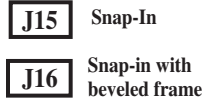
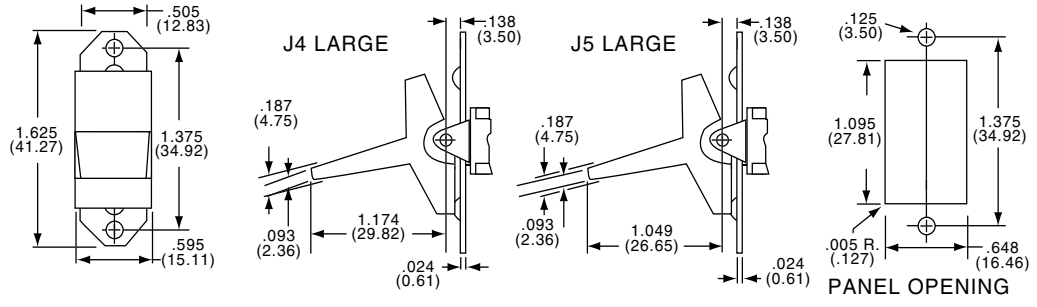
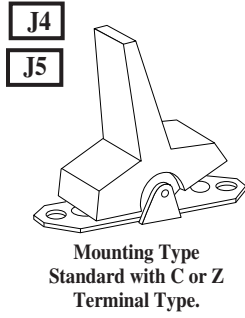


Small

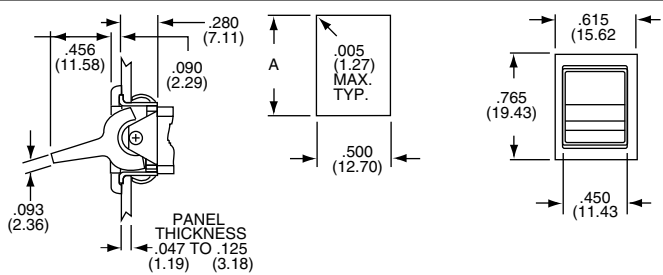
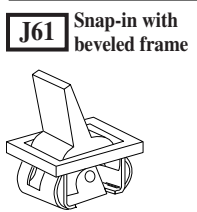


Mounting Type Standard with C or Z Terminal Type.

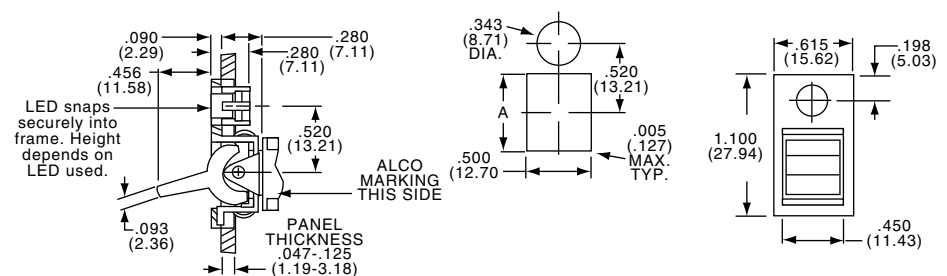
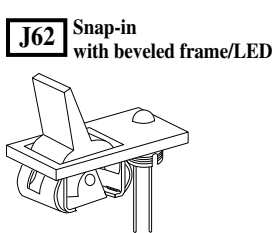
Rocker/Paddle Switches, A Series, Options



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

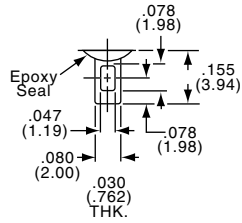
F10

Rocker/Paddle Switches, A Series, Termination Options

TERMINALS

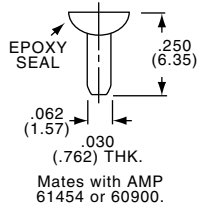
Z

Wire Lug Standard



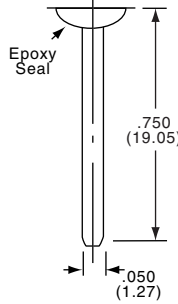
Q

Quick Connect



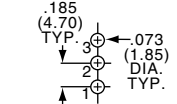
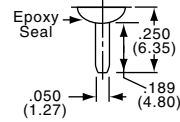
W

Wire Wrap

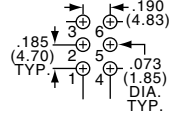


C

Printed Circuit



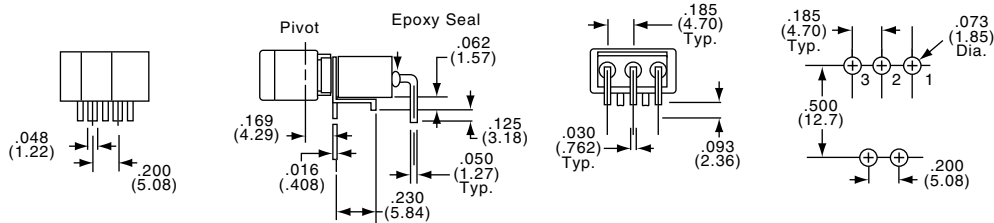
SINGLE POLE



DOUBLE POLE

A

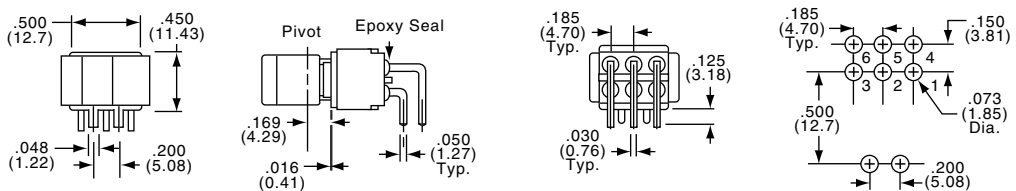
Right Angle Single Pole



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

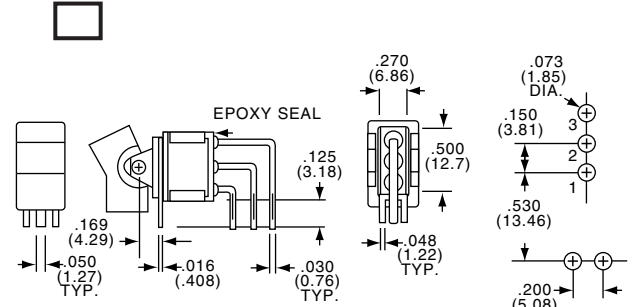
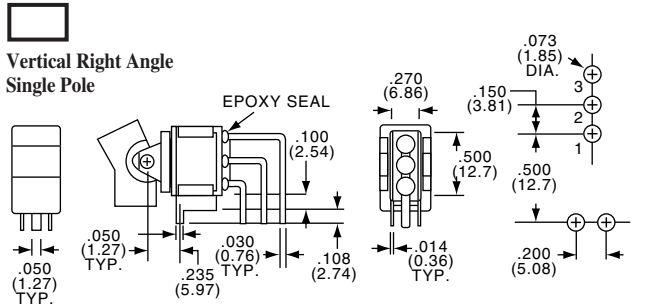
A

Right Angle Double Pole

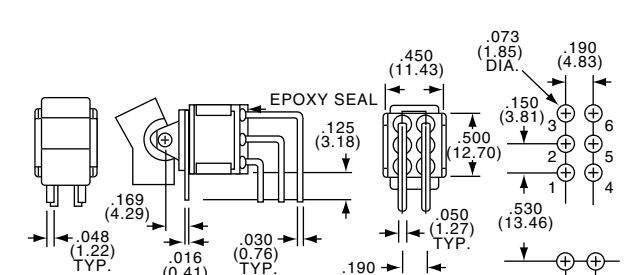
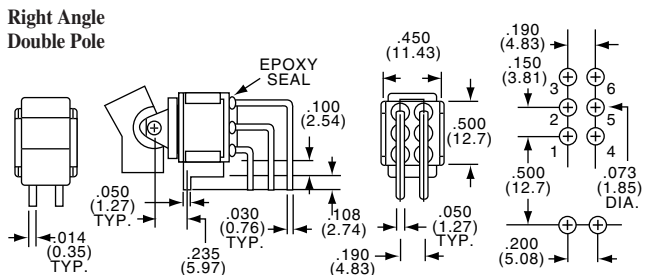


NOTE: Terminal numbers viewed from top of P.C. board.

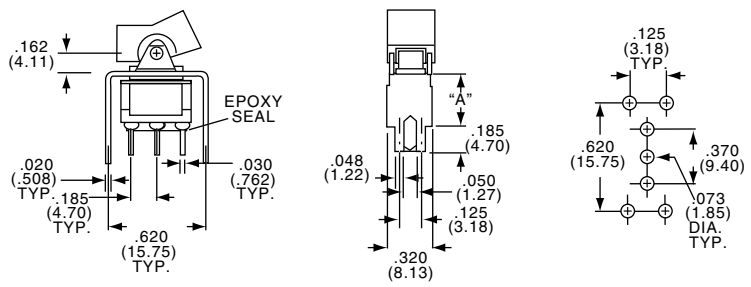
Rocker/Paddle Switches, A Series, Options



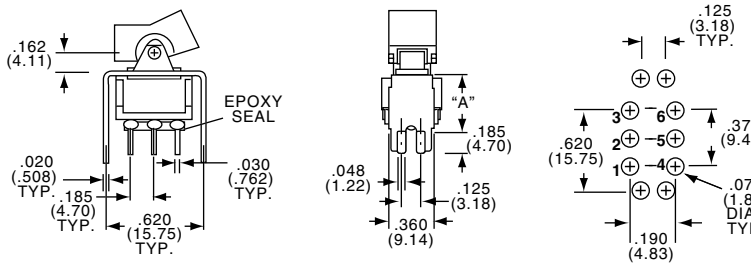
NOTE: Terminal numbers viewed from top of P.C. board.



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



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



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

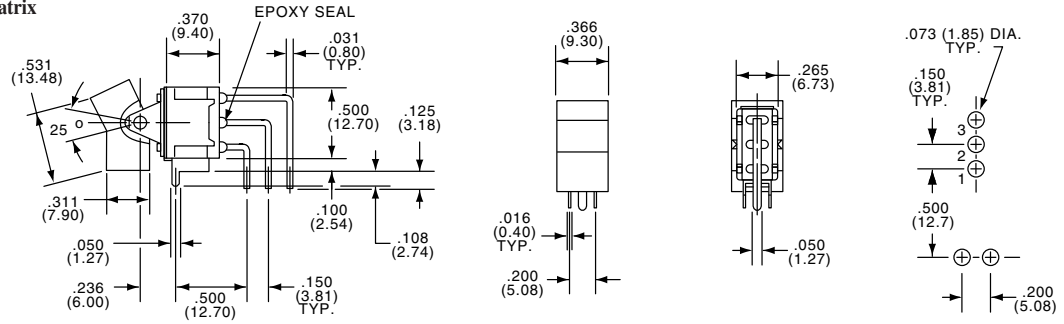
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

* Refer to Pages F7 for Product Specifications and Part Matrix

SPDT



A101J1AV2Q0

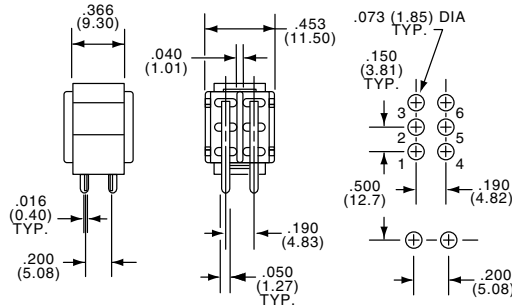


DPDT



A205J1AV2Q0

Standard Rocker Color - (Black)



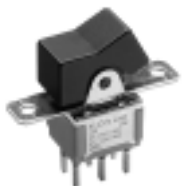
Silver Contacts						
Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-1	A101J1AV2Q0	SPDT	1	On	None	On
4-1437591-7	A105J1AV2Q0	SPDT	5	(On)	Off	(On)
7-1437591-1	A201J1AV2Q0	DPDT	2	On	None	On
9-1437591-6	A205J1AV2Q0	DPDT	6	(On)	Off	(On)

SPDT



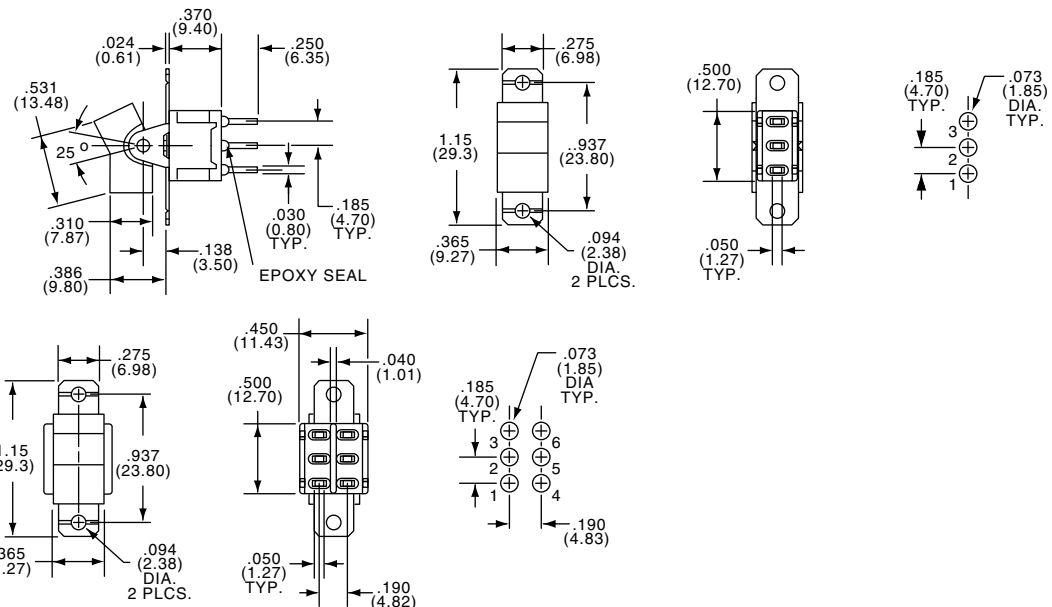
A101J1CQ0

DPDT



A201J1CQ0

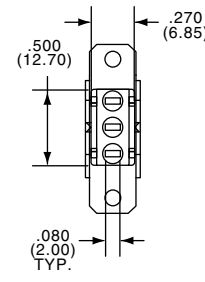
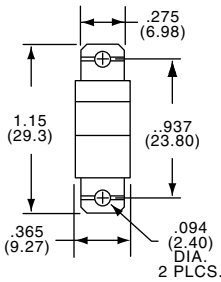
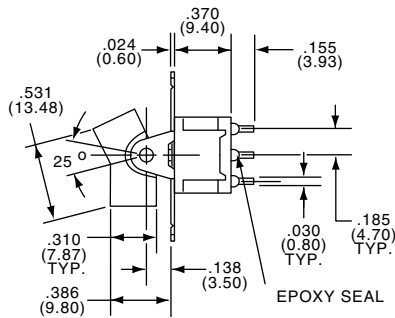
Standard Rocker Color - (Black)



Silver Contacts						
Tyco Electronics	Alcoswitch	Type	Act. Code. P. M5			
1-1437591-3	A101J1CQ0	SPDT	1	On	None	On
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

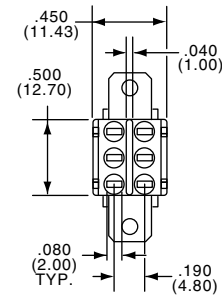
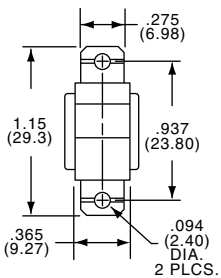
SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX



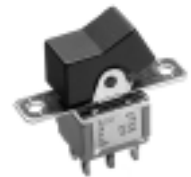
SPDT



A101J1ZQ0



DPDT

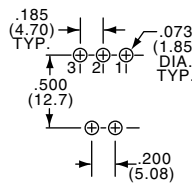
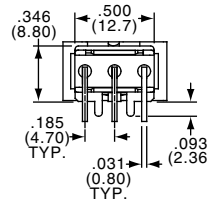
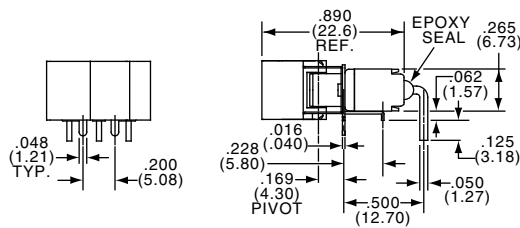


A201J1ZQ0

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)

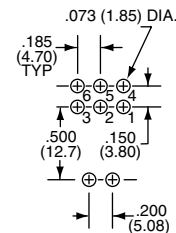
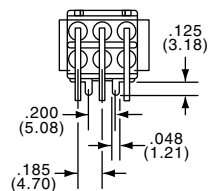
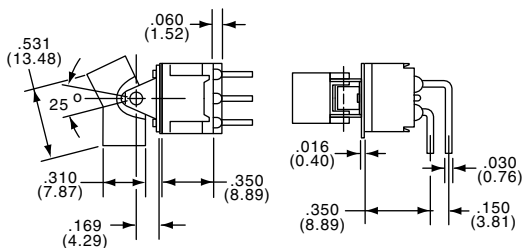
Gemini Series Rocker/Paddle Switches



SPDT



A101J1AQ0



DPDT



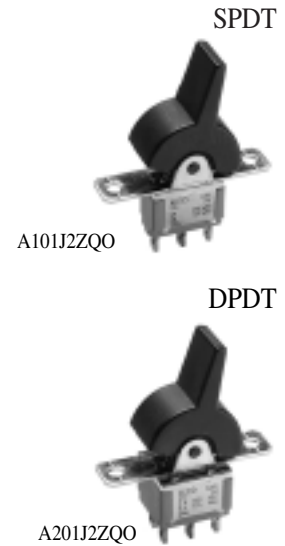
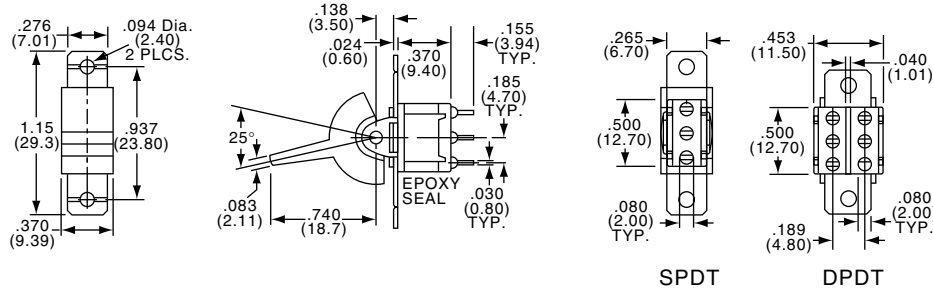
A201J1AQ0

Standard Rocker Color - (Black)

Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5			
1-1437591-8	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)

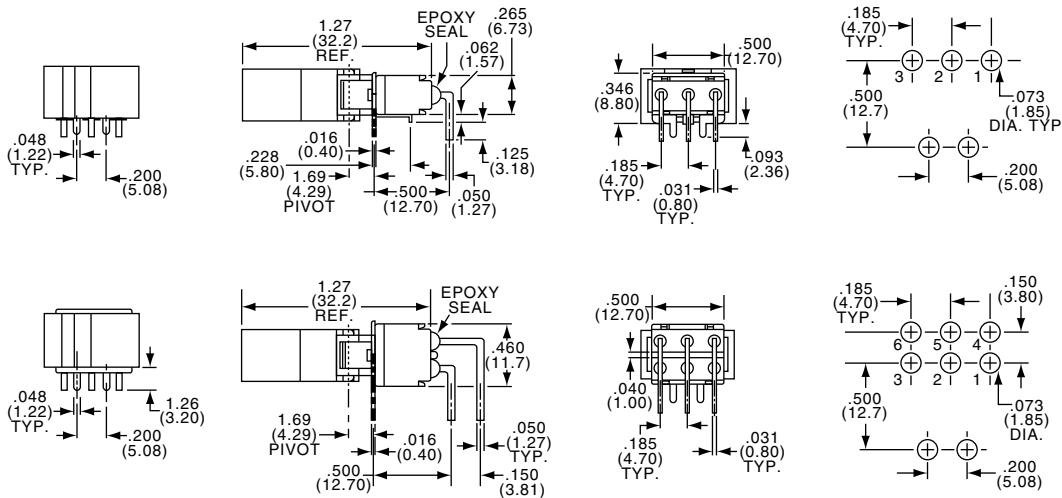
* Refer to Pages F7 for Product Specifications and Part Matrix

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)



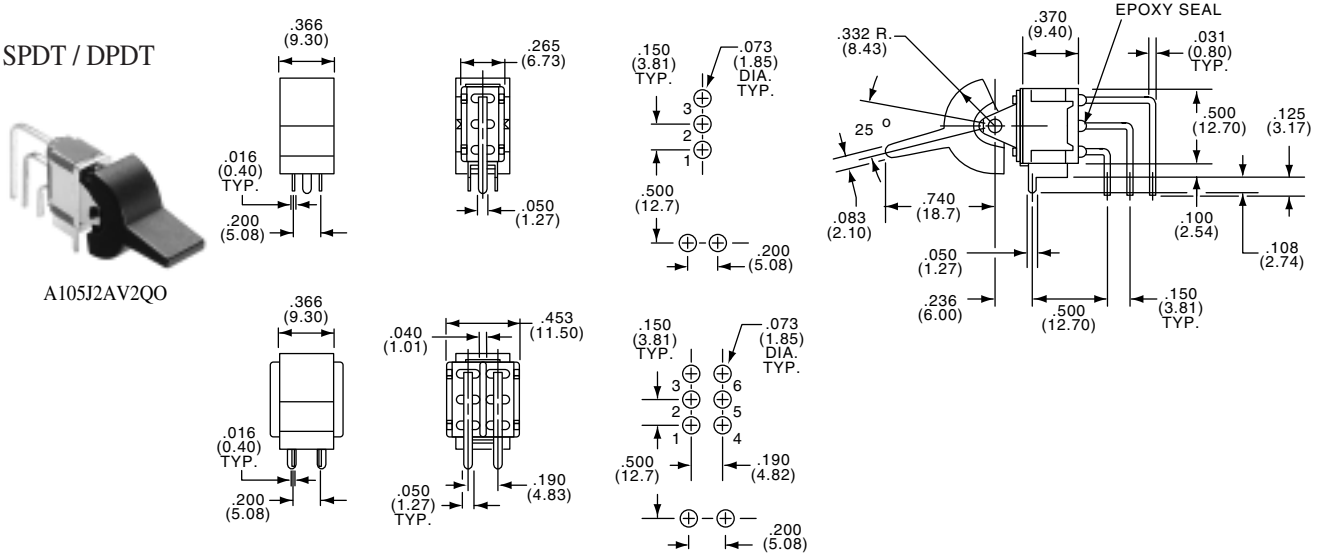
Standard Paddle Color - (Black)

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

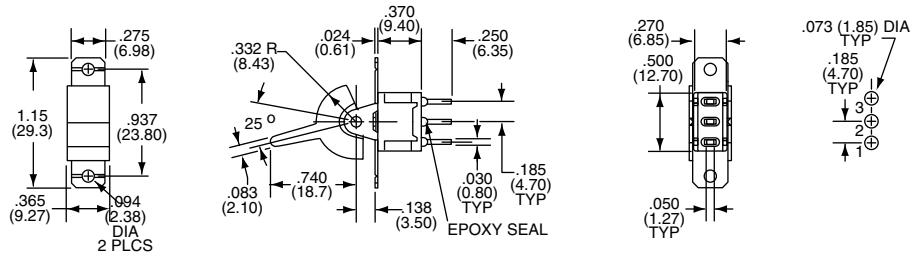
Standard Paddle Color - (Black)

Silver Contacts					Silver Contacts				
Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5
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



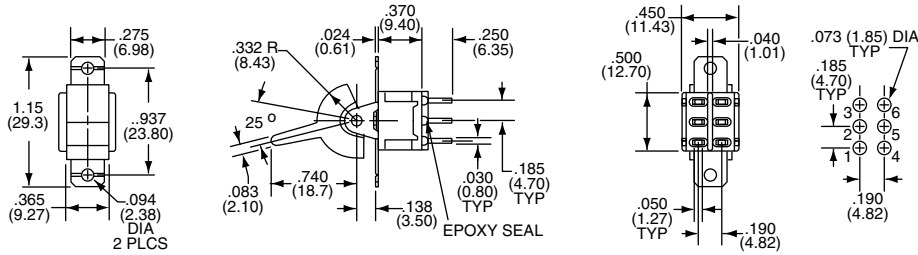
A105J2CQ0



DPDT



A205J2CQ0



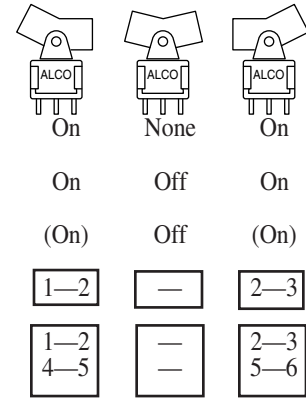
Silver Contacts					Silver Contacts				
Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5
—	A103J2CQ0	SPDT	5	(On) Off (On)	7-1437591-5	A201J2CQ0	DPDT	2	On None On
—	A105J2CQ0	SPDT	5	(On) Off (On)	9-1437591-8	A205J2CQ0	DPDT	6	(On) Off (On)

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

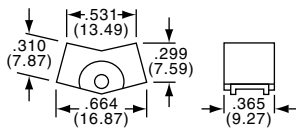
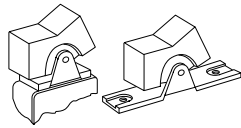
FUNCTIONS

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:



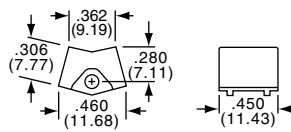
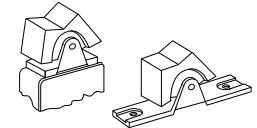
J1
Rocker



Mounting Provided with C or Z Terminal Type.

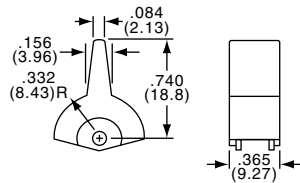
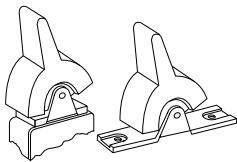
ACTUATORS

J50
Rocker



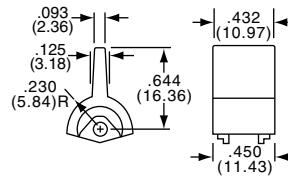
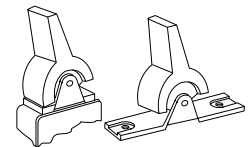
Mounting Provided with C or Z Terminal Type.

J2
Paddle



Mounting Provided with C or Z Terminal Type.

J60
Paddle



Mounting Provided with C or Z Terminal Type.

F

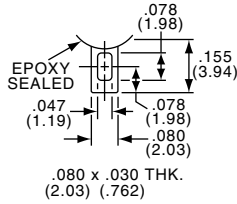
Gemini Series Rocker/Paddle Switches

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

TERMINALS

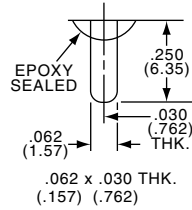
Z

Wire Lug



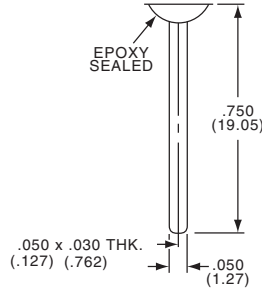
Q

Quick Connect



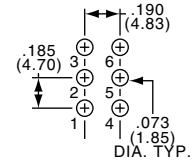
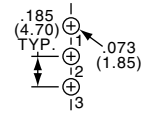
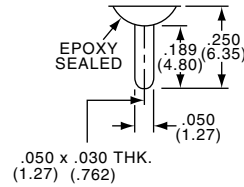
W

Wire Wrap



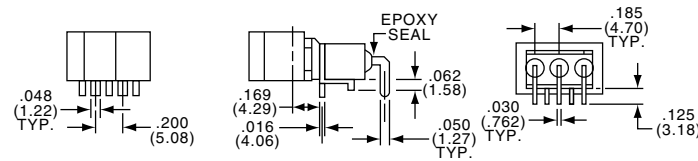
C

Printed Circuit



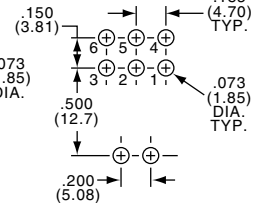
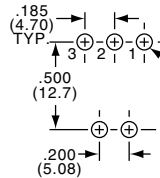
A

Right Angle Single Pole

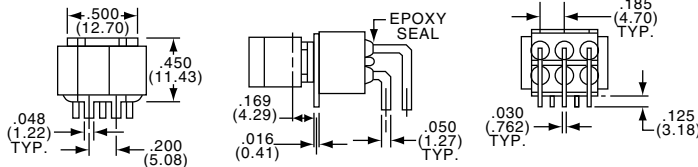


SINGLE POLE

DOUBLE POLE



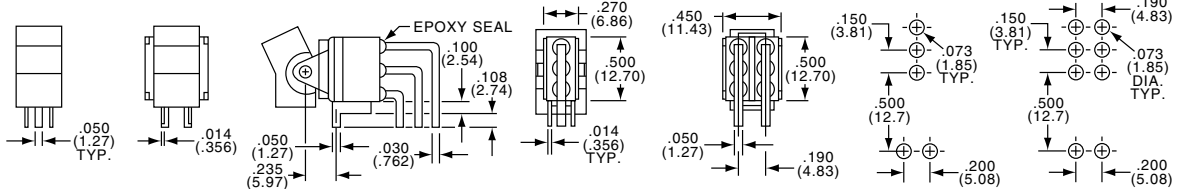
Right Angle Double Pole



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

V

Vertical Right Angle



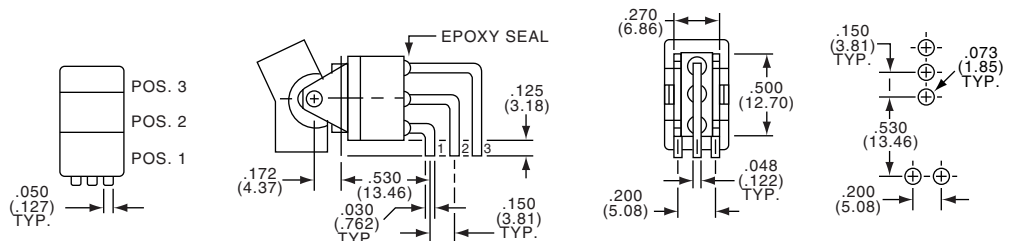
SINGLE POLE

DOUBLE POLE

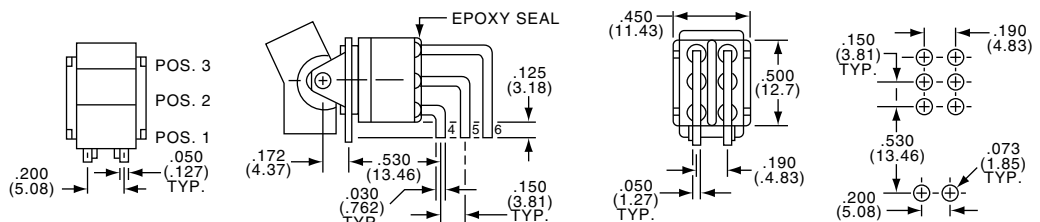
NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle Single Pole



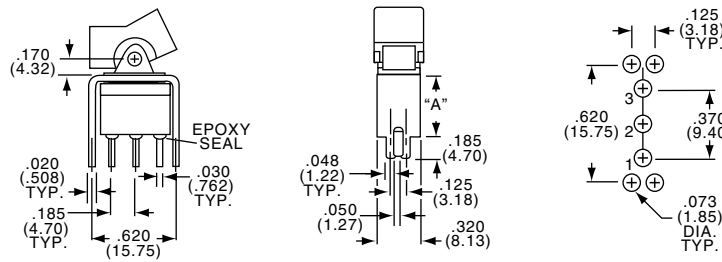
Vertical Right Angle Double Pole



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

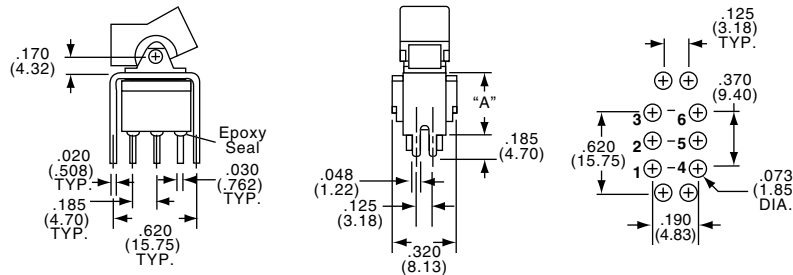


**Vertical Support Bracket
Single Pole**



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