

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

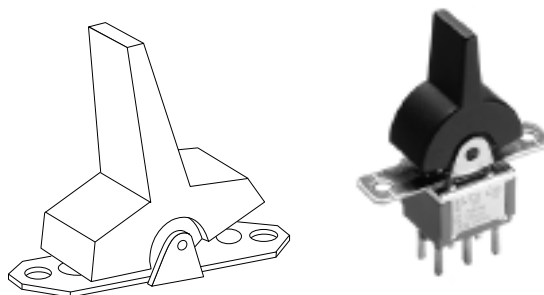
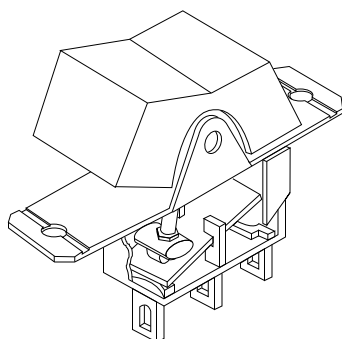
ENVIRONMENTAL SPECIFICATIONS:

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				
		Paddle	Z3 Quick Connect				
		J2 Small					
		J4 Large					
		J5 Large					
		J60 Snap-in					
		J61 Snap-in w/beveled frame					
		J62 Snap-in w/beveled frame & LED					

OPTIONAL:

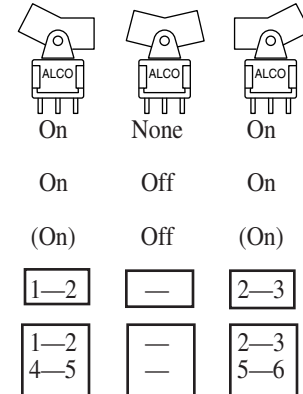
UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
CSA Certified File #LR65901

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

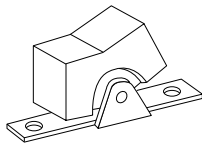
01	2 Positions	None indicates no mechanical position
03	3 Positions	Off indicates a mechanical position with no electrical connection.
05	3 Positions	(On) indicates momentary operation.
SPDT, connect terminals:		
DPDT, connect terminals:		



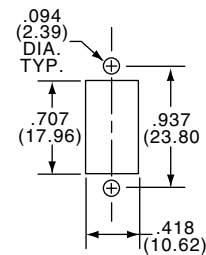
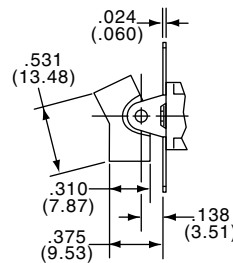
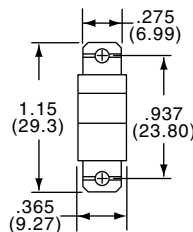
ACTUATORS

J1 Rockers

Small

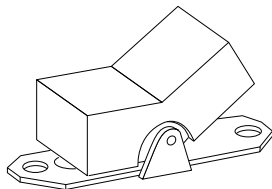


Mounting Type Standard with C or Z Terminal Type

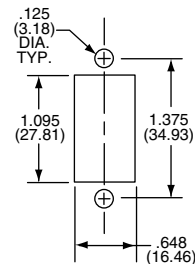
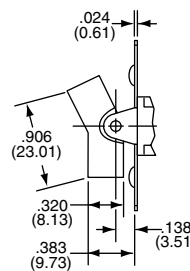
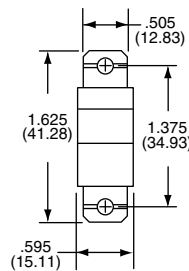


J3

Large



Mounting Type Standard with C or Z Terminal Type

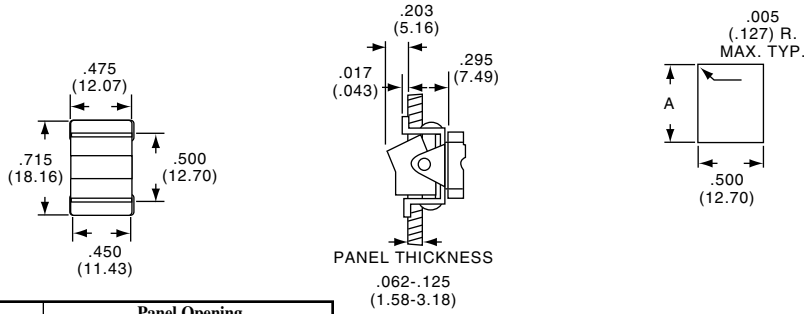
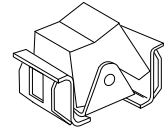


Rocker/Paddle Switches, A Series, Options

ROCKER

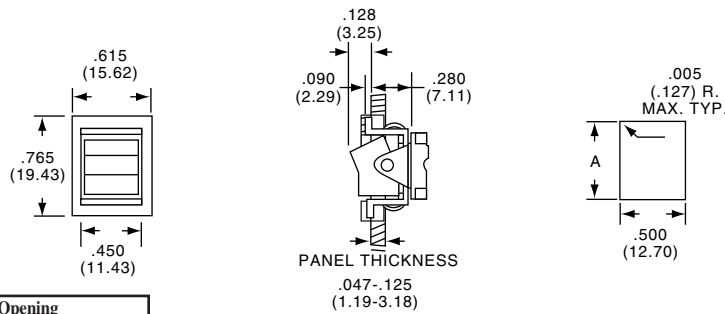
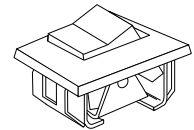


Snap-in



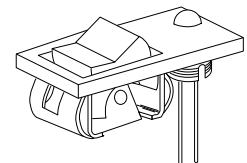
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

Snap-in with beveled frame

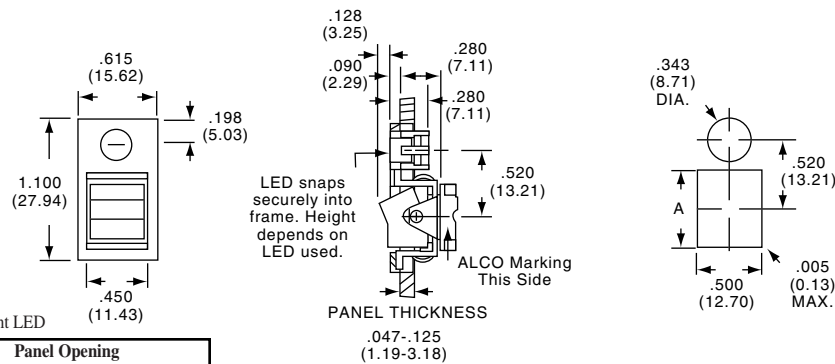


	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

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



L.E.D. Not supplied.



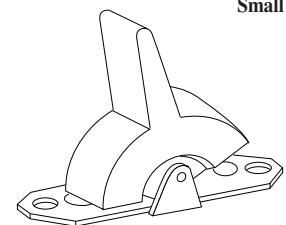
Accepts BL-17 or equivalent LED

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

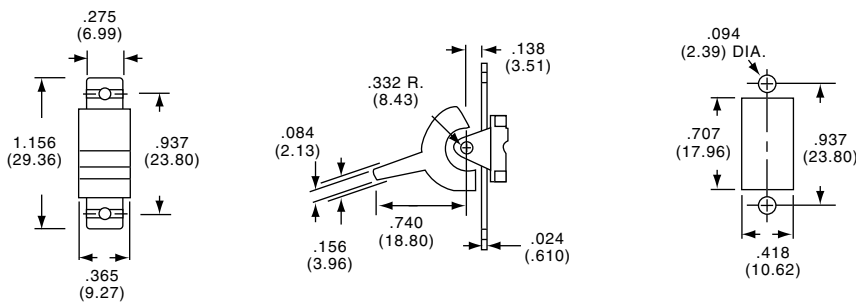
PADDLE



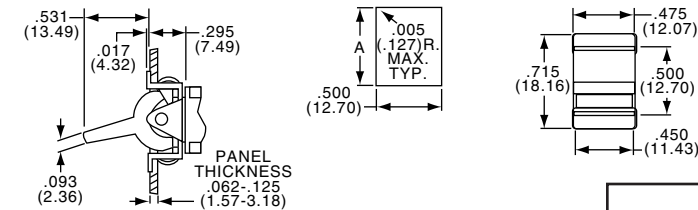
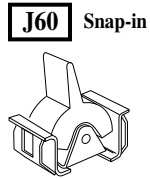
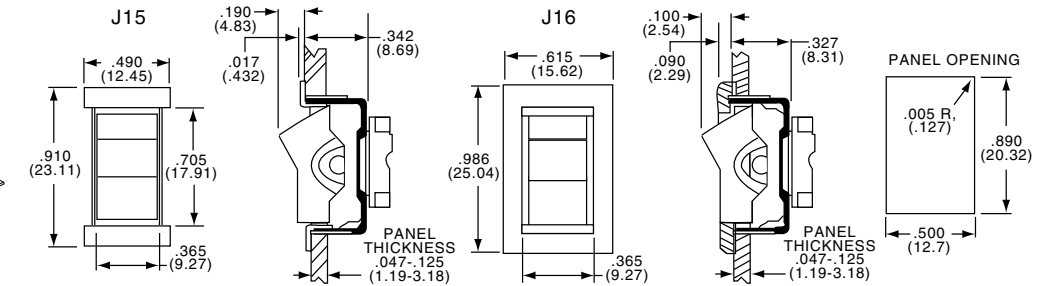
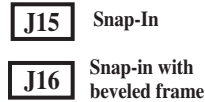
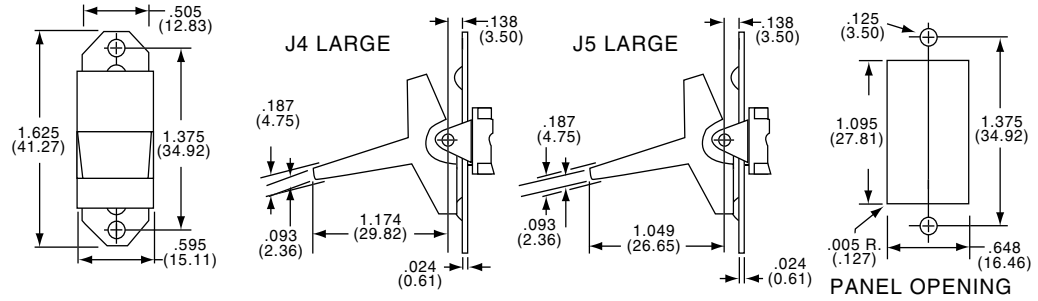
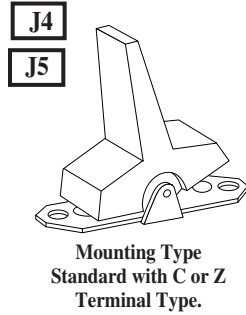
Small



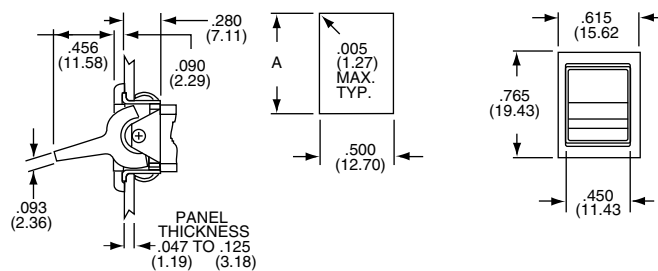
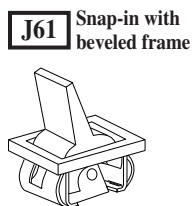
Mounting Type Standard with C or Z Terminal Type.



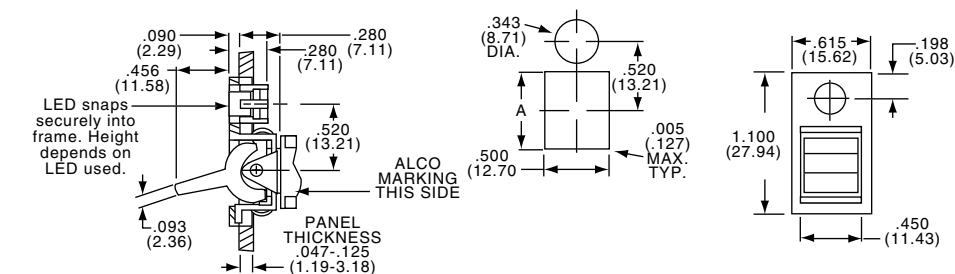
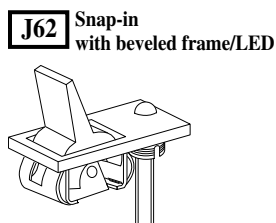
Rocker/Paddle Switches, A Series, Options



	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

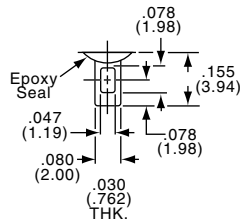
L.E.D. not supplied

Rocker/Paddle Switches, A Series, Termination Options

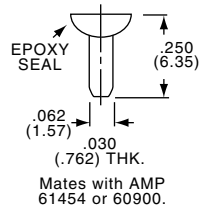
TERMINALS



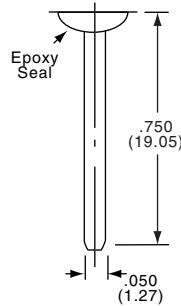
Wire Lug Standard



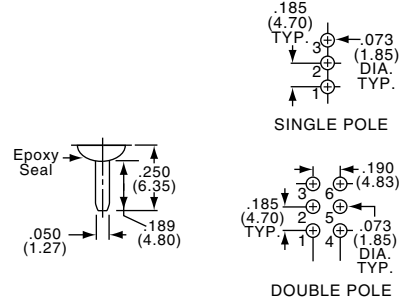
Quick Connect



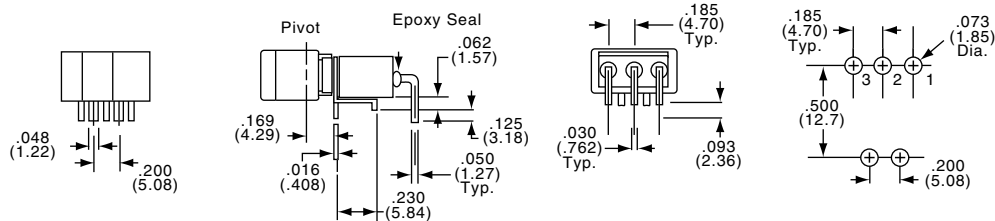
Wire Wrap



Printed Circuit



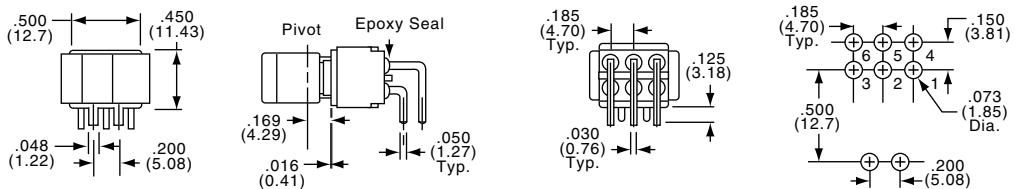
Right Angle
Single Pole



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



Right Angle
Double Pole

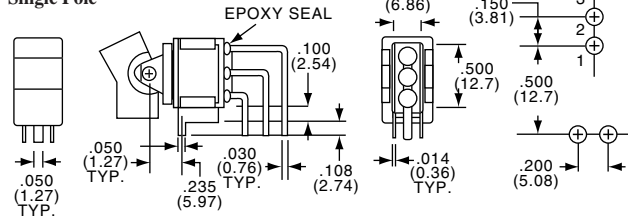


NOTE: Terminal numbers viewed from top of P.C. board.

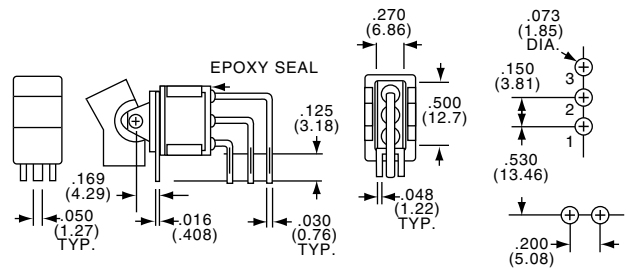
Rocker/Paddle Switches, A Series, Options



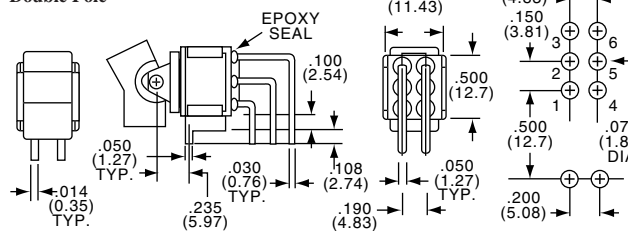
Vertical Right Angle Single Pole



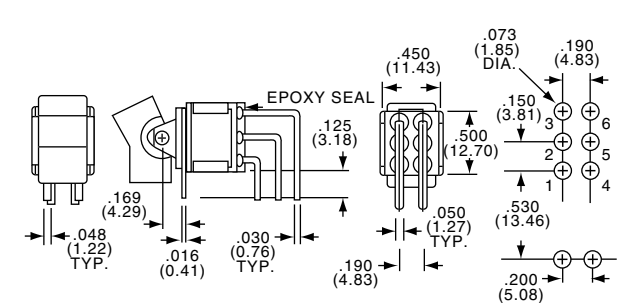
NOTE: Terminal numbers viewed from top of P.C. board.



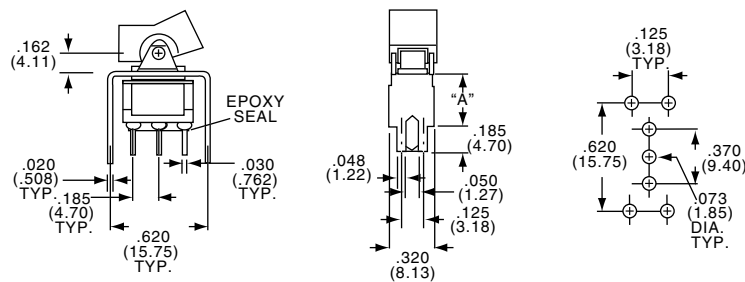
Right Angle Double Pole



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

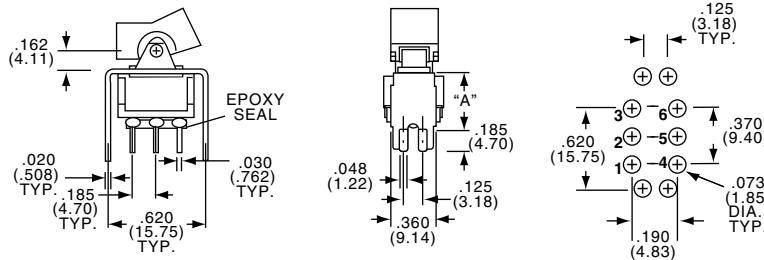


Vertical Support Bracket Single Pole



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)

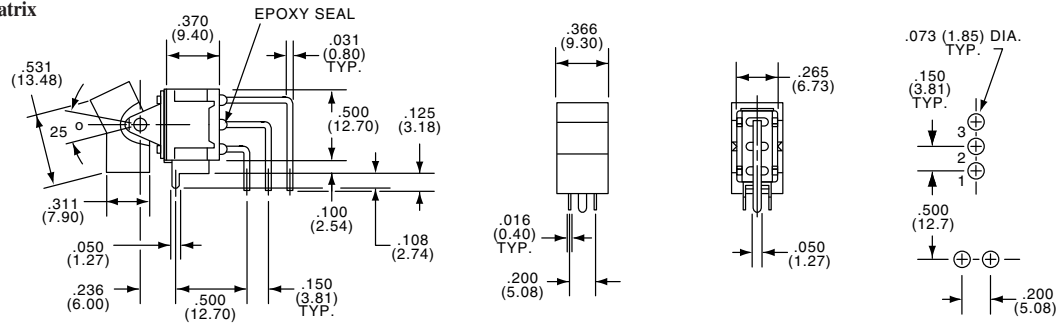
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

* Refer to Pages F7 for Product Specifications and Part Matrix

SPDT



A101J1AV2QO

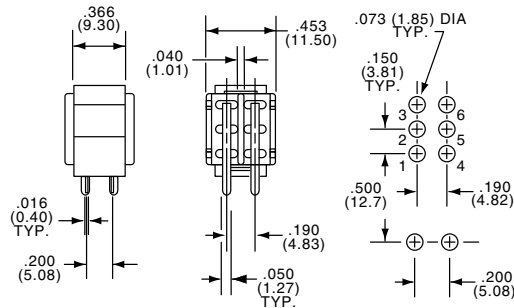


DPDT



A205J1AV2QO

Standard Rocker Color - (Black)



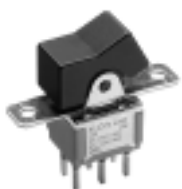
Silver Contacts		Type	Act. Code.	P. M5			
Tyco Electronics	Alcoswitch						
1-1437591-1	A101J1AV2QO	SPDT	1	On	None	On	
4-1437591-7	A105J1AV2QO	SPDT	5	(On)	Off	(On)	
7-1437591-1	A201J1AV2QO	DPDT	2	On	None	On	
9-1437591-6	A205J1AV2QO	DPDT	6	(On)	Off	(On)	

SPDT



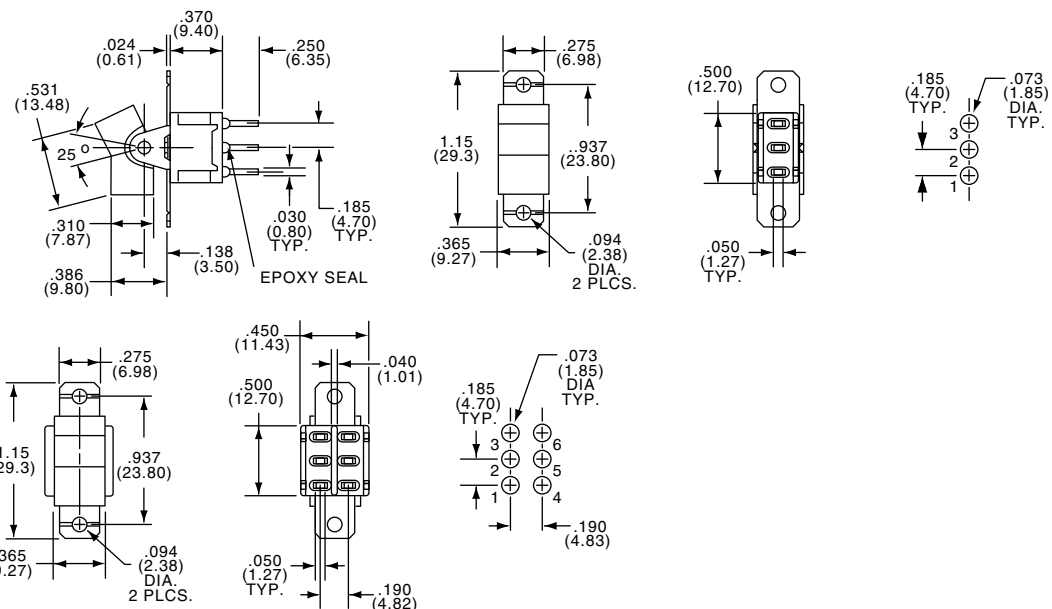
A101J1CQO

DPDT



A201J1CQO

Standard Rocker Color - (Black)



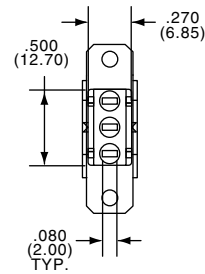
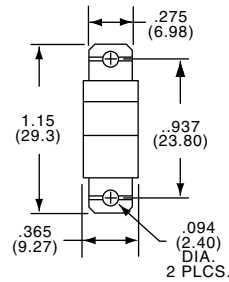
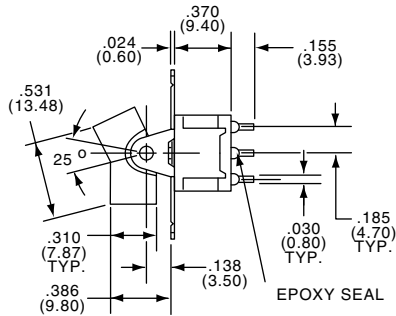
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Tyco Electronics	Alcoswitch						
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4-1437591-8	A105J1CQO	SPDT	5	(On)	Off	(On)	
7-1437591-2	A201J1CQO	DPDT	2	On	None	On	
—	A203J1CQO	DPDT	6	On	Off	On	
—	A205J1CQO	DPDT	6	(On)	Off	(On)	

F

Gemini Series Rocker/Paddle Switches

Rocker Switches, A Series, Wire Lug or Right Angle

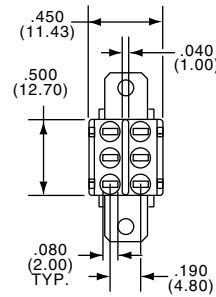
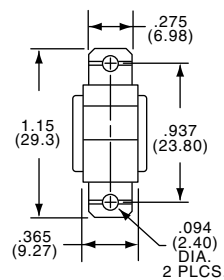
SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX



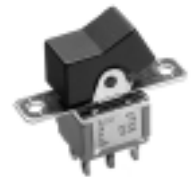
SPDT



A101J1ZQ0



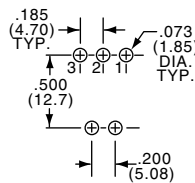
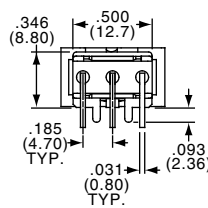
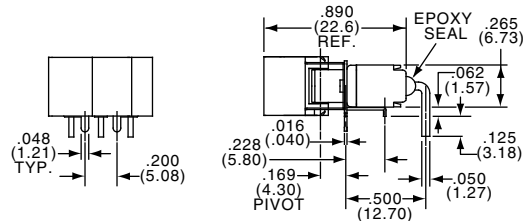
DPDT



A201J1ZQ0

Standard Rocker Color - (Black)

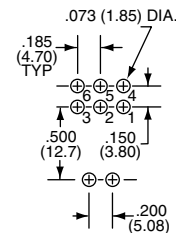
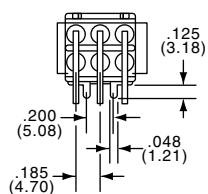
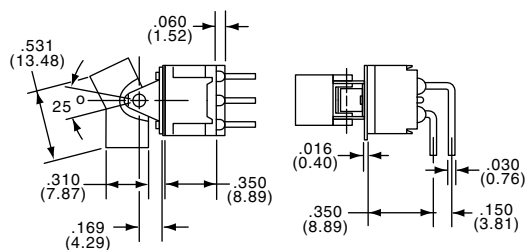
Silver Contacts							Silver Contacts								
Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5				Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5			
1-1437591-7	A101J1ZQ0	SPDT	1	On	None	On		7-1437591-4	A201J1ZQ0	DPDT	2	On	None	On	
3-1437591-8	A103J1ZQ0	SPDT	5	On	Off	On		9-1437591-1	A203J1ZQ0	DPDT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



SPDT



A101J1AQ0



DPDT



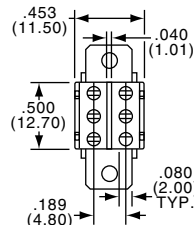
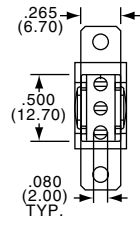
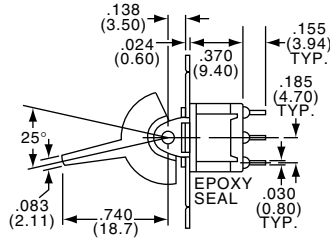
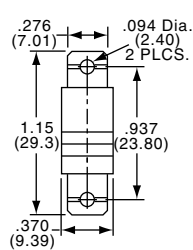
A201J1AQ0

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



SPDT

DPDT

SPDT



A101J2ZQO

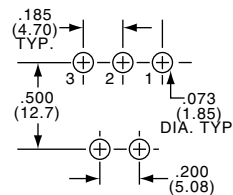
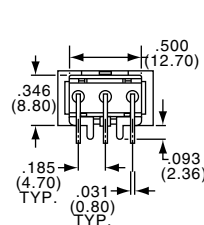
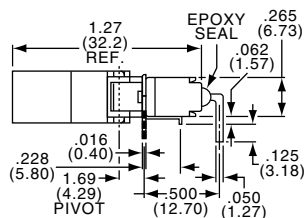
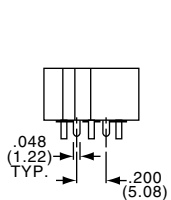
DPDT



A201J2ZQO

Standard Paddle Color - (Black)

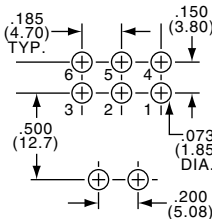
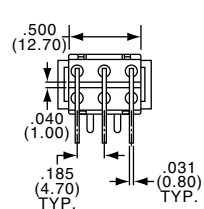
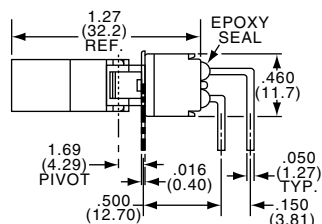
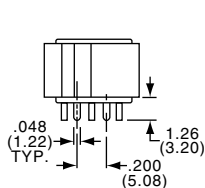
Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	Off	On	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	Off	On
1-1437591-9	A101J2ZQO	SPDT	1		On	None	On		7-1437591-6	A201J2ZQO	DPDT	2		On	None	On	
4-1437591-0	A103J2ZQO	SPDT	5		On	Off	On		—	A203J2ZQO	DPDT	6		On	Off	On	
5-1437591-3	A105J2ZQO	SPDT	5		(On)	Off	(On)		9-1437591-9	A205J2ZQO	DPDT	6		(On)	Off	(On)	



SPDT / DPDT



A201J2AQ0

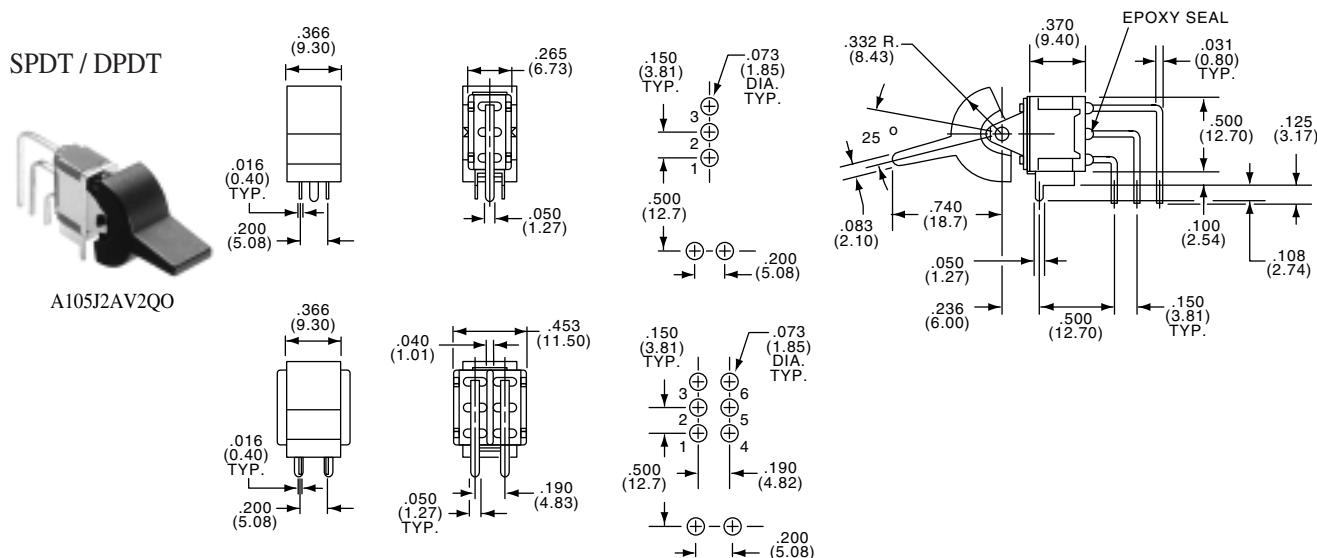


Standard Paddle Color - (Black)

Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	Off	On	Silver Contacts Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	On	None	Off	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



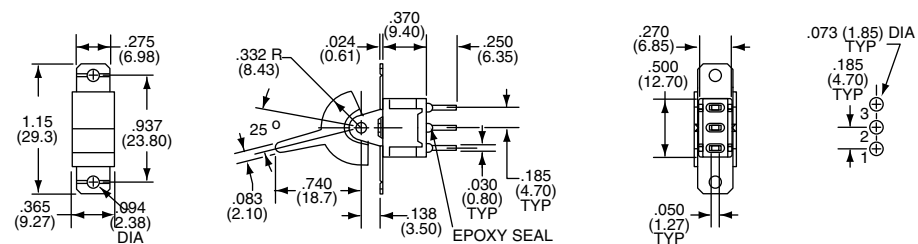
Standard Paddle Color - (Black)

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



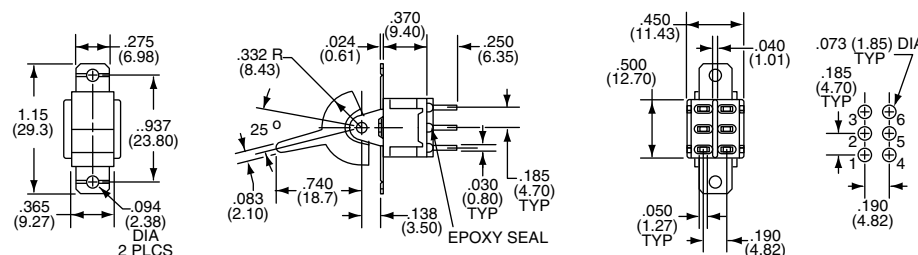
A105J2CQO



DPDT



A205J2CQO



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, Part Number Matrix

MATERIAL SPECIFICATIONS:

Terminal Seal	Epoxy (standard)
Process Sealing	Seals will withstand wave soldering and subsequent cleaning operations.
Contact/Terminals	Gold/gold flash over tin/lead Silver/tin lead
Case Material	Thermoplastic
Actuator Material	Polyamide

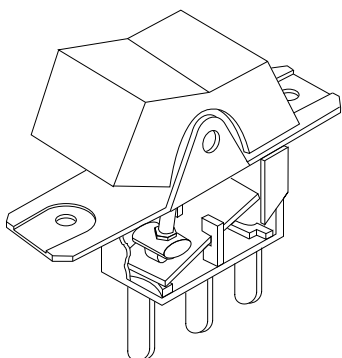
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
Storage Temperature.....-49°F to +212°F (-45°C to +100°C)
Meets MIL-STD-202, method 112C, Test Condition A & D 85°C.

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating	Silver: 2 A @ 250 VAC, 5 A @ 125 VAC Silver: 2 A @ 30 VDC Gold: 0.4 VA @ 20 VDC max.
Contact Resistance	30 Milliohms max. initial
Insulation Resistance	1.000 Megohms min. @ 500 VDC.
Dielectric Strength	1.000 Volts RMS @ sea level initial
Static Withstanding.....	15KV Per IEC 801-2.
Electrical Life	Up to 30,000 Cycles
Actuator Travel.....	25°
Contact Timing	Break before make

DESIGN



PART NUMBERING

PART NUMBERING								
Model		Function	Actuator	Terminal	Contact	Actuator Color	Option	
AE1	Single Pole		Rocker	Z Wire Lug	B Gold	0 Black (Std.) 2 Red	UL (Q or G) contacts only	
AE2	Double Pole		J1 Standard	A Right Angle	Q Silver			
01	On-On		J50 Small	AV2 Vert. Right Angle	G Gold over Silver			
03	On-Off-On		Paddle	C Printed Circuit				
05	(On)-Off-(On)		J2 Standard	V5 Vertical Right Angle				
			J60 Small	V3 V4 Vertical Support Bracket				
				W Wire Wrap				
				Z3 Quick Connect				

U.L. Available upon request

OPTIONAL:

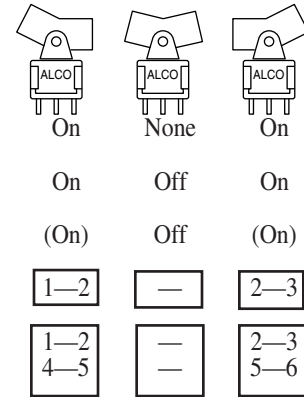
UL recognized under the Component Program Underwriters Laboratories Inc.
File #E46765
CSA Certified File #LR65901

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

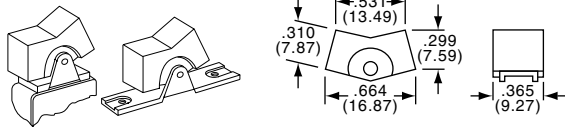
FUNCTIONS

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:		



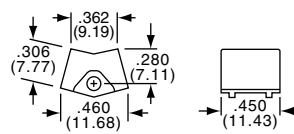
J1 Rocker



Mounting Provided with
C or Z Terminal Type.

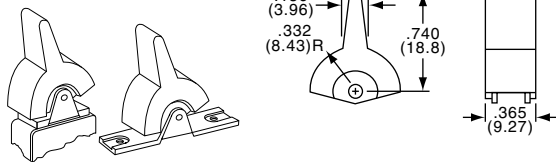
ACTUATORS

J50 Rocker



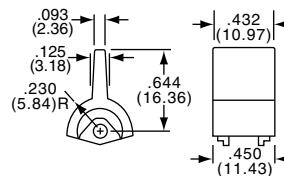
Mounting Provided with
C or Z Terminal Type.

J2 Paddle



Mounting Provided with
C or Z Terminal Type.

J60 Paddle

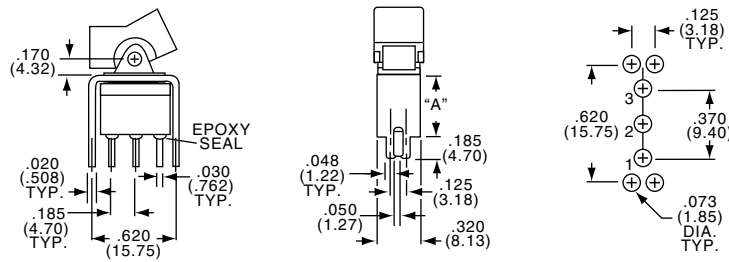


Mounting Provided with
C or Z Terminal Type.

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

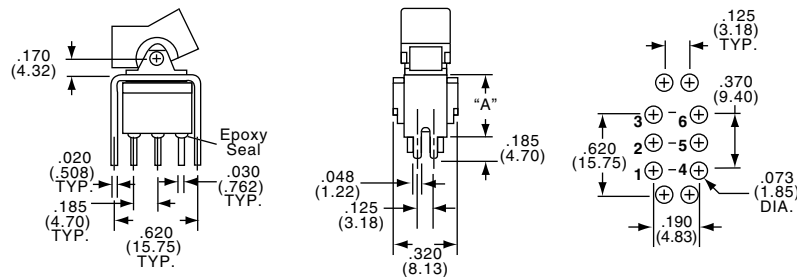


**Vertical Support Bracket
Single Pole**



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



CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.



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)



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)