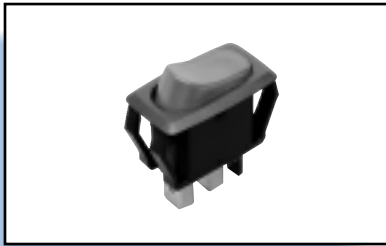




TRD Series - Page F3



Gemini Series - Page F7



Power Rocker Switches - Page F21

Rocker/Paddle

F
Rocker/Paddle Switches

Rocker/Paddle Switches, TRD Series Part Number Matrix

MATERIAL SPECIFICATIONS:

Movable ContactsCopper alloy w/silver inlay contact or gold plate
 Terminals/Fixed Contacts.....Copper alloy w/silver inlay contact or gold plate
 Terminal SealEpoxy
 Housing/Beveled FramePolyamide, black matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingSilver: 3A max. @ 125 VAC, option 3
 Gold: 0.4VA max. @ 20 VDC, option 1
 Initial Contact Resistance20 Milliohms max.
 Static Withstanding.....15KV, per IEC 801-2
 Insulation Resistance1,000 Megohms min. @ 500 VDC
 Dielectric Strength500 Volts RMS @ sea level
 Electrical Life2 Pos. 20K cycles @ full rated 3A load, 80K @ 0.4VA, 3 pos. 10K cycles @ full rated 3A load, 60K @ 0.4VA

ENVIRONMENTAL SPECIFICATIONS:

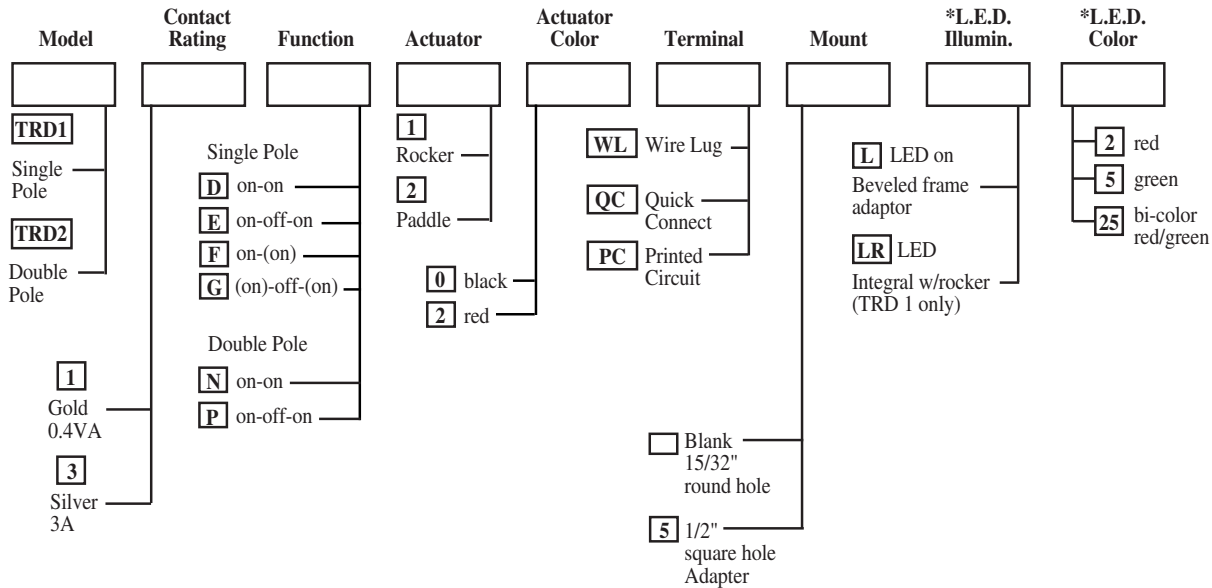
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-49°F to +199°F (-45°C to +93°C)
 Solder Heat ResistanceMeets MIL-STD-202, method 210

***NOTICE: Caution should be used when hand-soldering. Solder heat Resistance -550°-600°F for less than 5 seconds. Solder with the switch in the closed position.**

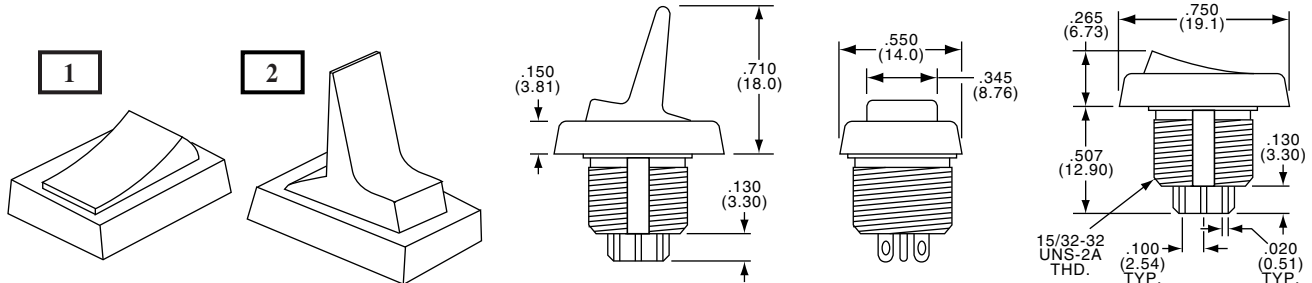
UL options available, consult Tyco Electronics Product Information Center

HOW TO ORDER

* Leave blank if LED not required.

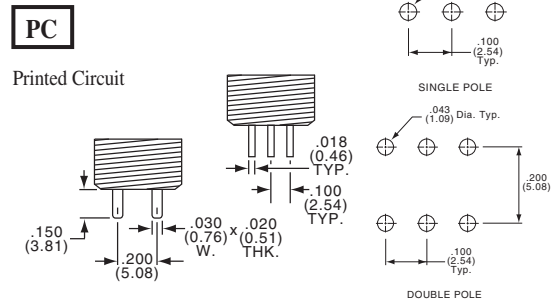
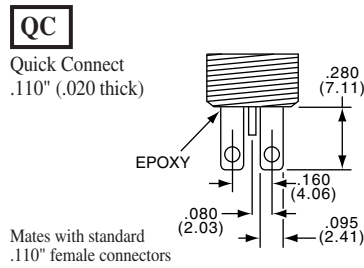
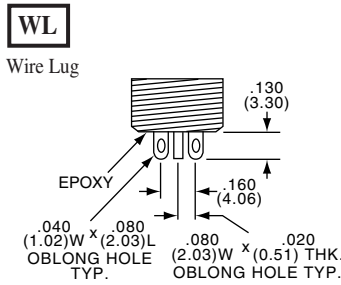


ACTUATORS



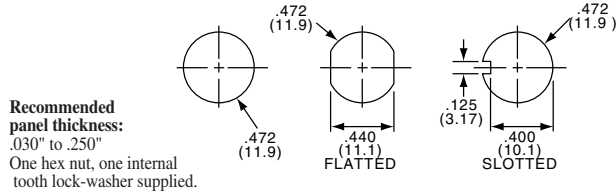
Rocker/Paddle Switches, TRD Series Options

TERMINATIONS
(Epoxy seal standard)



15/32" HOLE STANDARD

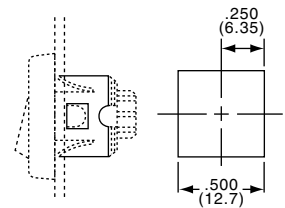
Standard TRD bushing will mount in any hole shown below.



5 1/2" SQUARE CUTOUT SNAP-IN ADAPTOR

Recommended panel thickness:
.030" to .125"

Material: bright stainless steel
To specify adaptor separately, use P/N **TRD10793**



CONTACT/RATING/UL RECOGNITION

1 0.4VA Max. @ 20 VDC

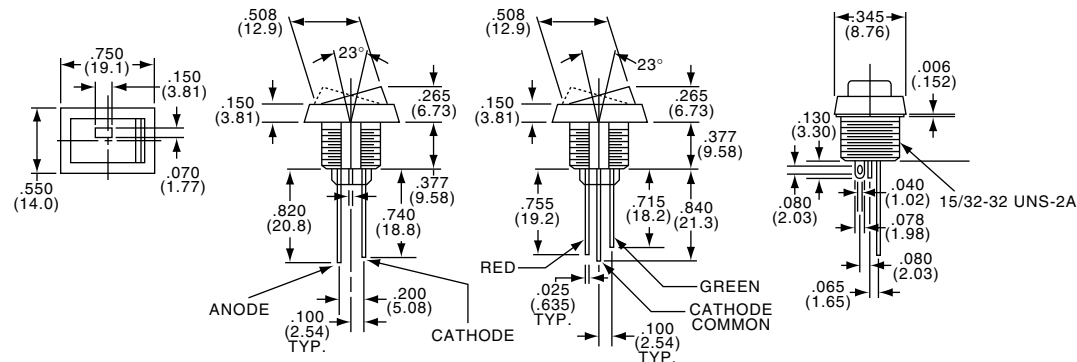
Movable Contact: Copper alloy, gold plate
Fixed Contact/Terminal: Copper alloy, gold plate

3 3A Max. @ 125 VAC

Movable Contact: Copper alloy, silver inlay
Fixed Contact/Terminal: Copper alloy, silver inlay

L.E.D. ILLUMINATION - SINGLE AND BI-COLOR

LR L.E.D. Integral (Rocker Actuator)
All SPDT functions (TRD1 Model)

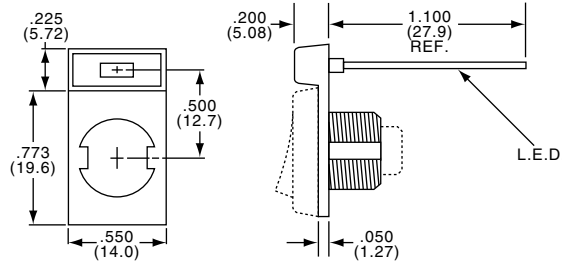


Standard mounting dimensions apply, L.E.D. supplied in **2** red, **5** green, or **25** red/green.
L.E.D. Specifications: Max Voltage: 2.8 VDC
Max. Forward Current: red-20mA, green-25 mA, red/green-40 mA.

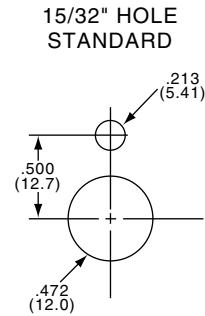
Rocker/Paddle Switches, TRD Series Options

L L.E.D. BEVELED FRAME ADAPTOR
(Accepts rectangular L.E.D.)

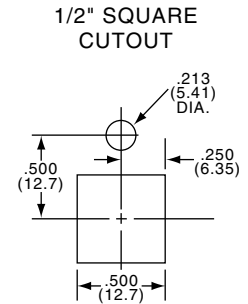
MOUNTING



Material: Nylon 6/6
Color/Finish: Black, matte






Recommended Panel Thickness: .030 to .220:



Recommended Panel Thickness: .030 to .095"

FUNCTIONS

				
Single Pole	Double Pole	123 456	123 456	123 456
<input type="checkbox"/> D	<input type="checkbox"/> N	On	None	On
<input type="checkbox"/> E	<input type="checkbox"/> P	On	Off	On
<input type="checkbox"/> F		On	None	(On)
<input type="checkbox"/> G		(On)	Off	(On)
SPDT Terminals Connected		2-3	---	1-2
DPDT Terminals Connected		2-3 5-6	---	1-2 4-5

None No mechanical position

Off Mechanical position, no electrical connection

(On) Momentary mechanical position, and electrical connection

* Refer to Pages F3-F5 for Other Options *

Rocker Switches, TRD Series Illuminated or Non-Illuminated, Wire Lug

MATERIAL SPECIFICATIONS:

ContactsGold over nickel or silver plate
 Case MaterialPolyamide, black matte finish
 Actuator MaterialPolyamide
 Terminals/Fixed Contacts.....Copper alloy with gold or silver plate
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-49°F to +199°F (-45°C to +93°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
 3 A @ 125 VAC or 28 VDC (2 pos.) 2A
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuator Travel.....23°
 Life Expectancy2 Pos. - Up to 100,000 actuations
 3 Pos. - Up to 50,000 actuations

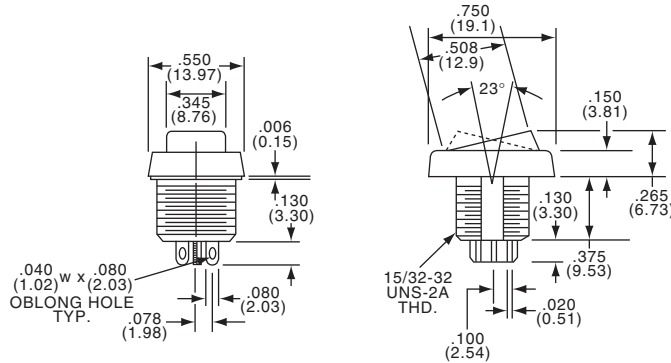
NOTE: Part numbering matrix page F3

NOTE: When hand soldering, solder with switch in closed position. Solder temperature 550-600°F less than 5 seconds.

F

TRD Series

DPDT



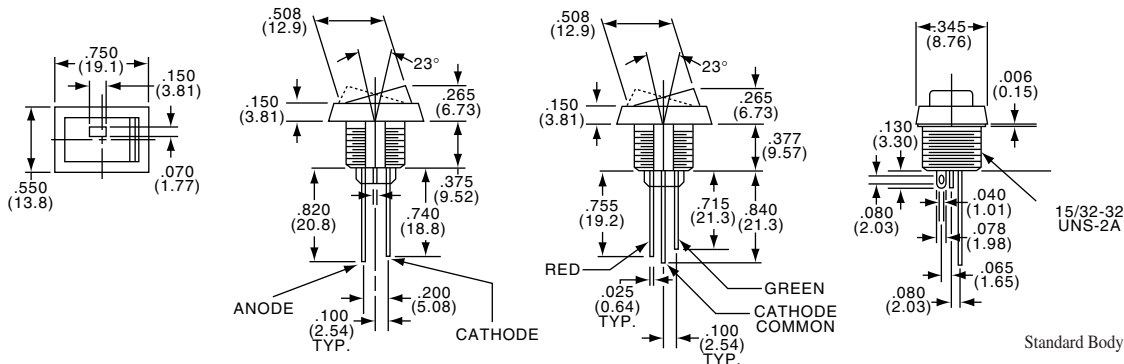
TRD21N10WL

Standard Body Color - (Black)

Model	Type	Function	Act. Code Pg. M5	Contact	Terminal	Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD11D1(*)WL	SPDT	On None On	1	Gold	Wire Lug	TRD13D1(*)WL	SPDT	On None On	1	Silver	Wire Lug
TRD11E1(*)WL	SPDT	On Off On	5	Gold	Wire Lug	TRD13E1(*)WL	SPDT	On Off On	5	Silver	Wire Lug
TRD11F1(*)WL	SPDT	On None (On)	1	Gold	Wire Lug	TRD13F1(*)WL	SPDT	On None (On)	1	Silver	Wire Lug
TRD21N1(*)WL	DPDT	On None On	2	Gold	Wire Lug	TRD23N1(*)WL	DPDT	On None On	2	Silver	Wire Lug
TRD21P1(*)WL	DPDT	On Off On	6	Gold	Wire Lug	TRD23P1(*)WL	DPDT	On Off On	6	Silver	Wire Lug

(*) Specify rocker color by adding suffix number: (0) Black (2) Red, (On) indicates momentary position.

SPDT



TRD11D10WLLR

Standard Body and Rocker Color - (Black)

ILLUMINATED

ILLUMINATED

Model	Type	Function	Act. Code Pg. M5	Contact	Terminal	Model	Type	Function	Act. Code Pg. M5	Contact	Terminal
TRD11D10WLLR(*)	SPDT	On None On	1	Gold	Wire Lug	TRD13D10WLLR(*)	SPDT	On None On	1	Silver	Wire Lug
TRD11E10WLLR(*)	SPDT	On Off On	5	Gold	Wire Lug	TRD13E10WLLR(*)	SPDT	On Off On	5	Silver	Wire Lug
TRD11F10WLLR(*)	SPDT	On None (On)	1	Gold	Wire Lug	TRD13F10WLLR(*)	SPDT	On None (On)	1	Silver	Wire Lug

(*) Specify LED color by adding suffix number: (2) Red, (5) Green, (25) Red/Green - Bi-color (On) indicates momentary position.

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

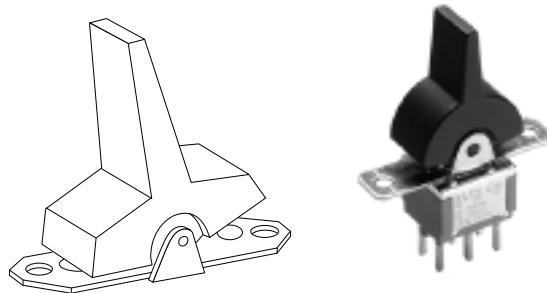
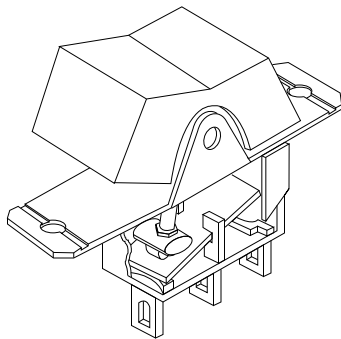
ENVIRONMENTAL SPECIFICATIONS:

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					

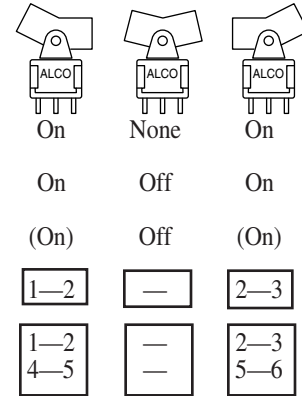
OPTIONAL:
 UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
 CSA Certified File #LR65901

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

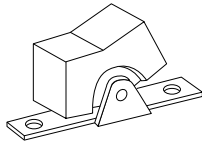
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation.
- SPDT, connect terminals:
DPDT, connect terminals:



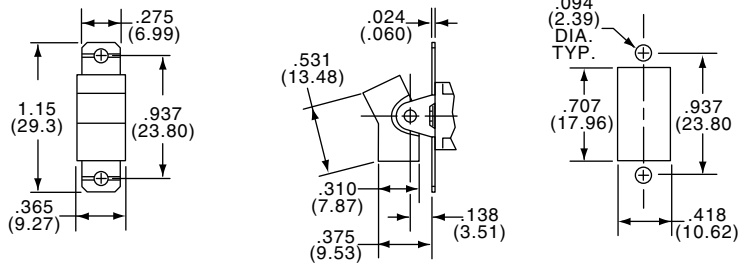
ACTUATORS

J1 Rockers

Small

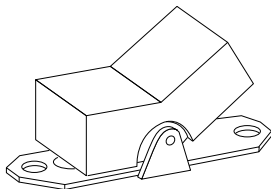


Mounting Type Standard with C or Z Terminal Type

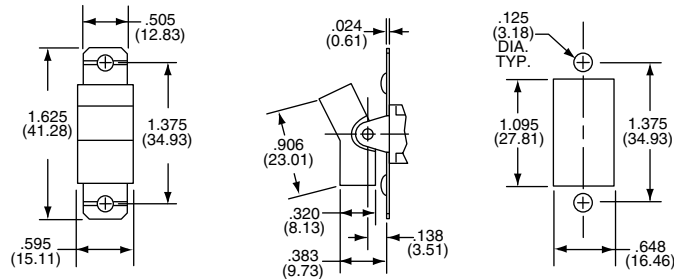


J3

Large



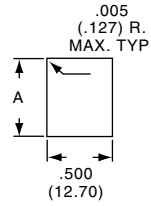
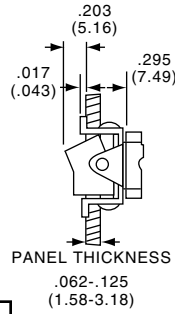
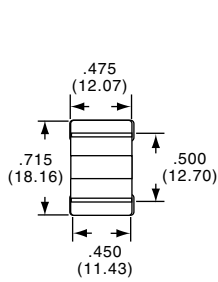
Mounting Type Standard with C or Z Terminal Type



F

Gemini Series Rocker/Paddle Switches

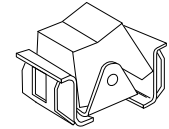
Rocker/Paddle Switches, A Series, Options



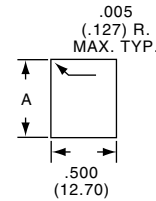
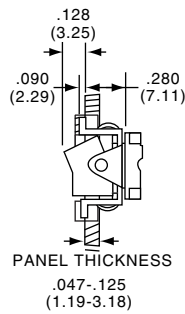
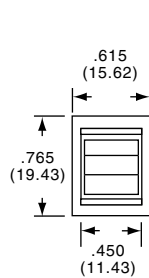
ROCKER



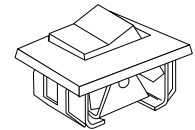
Snap-in



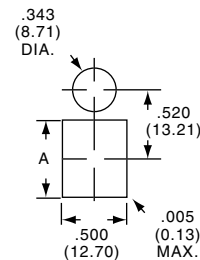
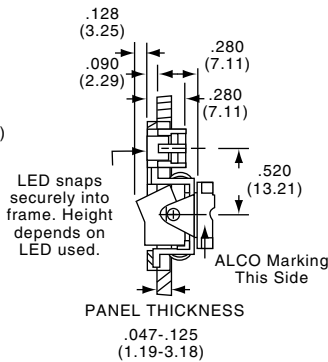
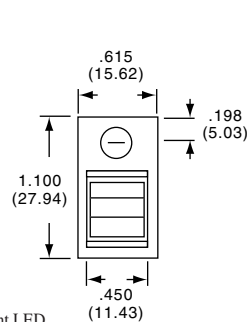
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



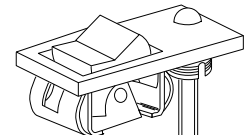
Snap-in with beveled frame



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



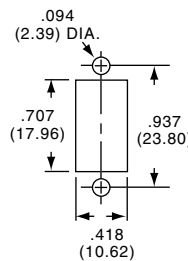
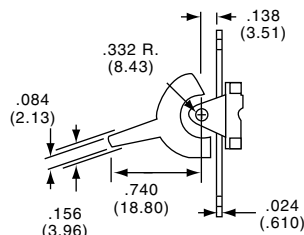
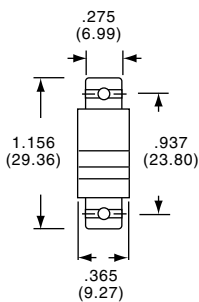
Snap-in with beveled frame/L.E.D.



L.E.D. Not supplied.

Accepts BL-17 or equivalent LED

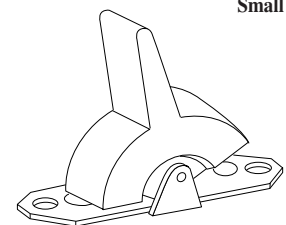
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



PADDLE

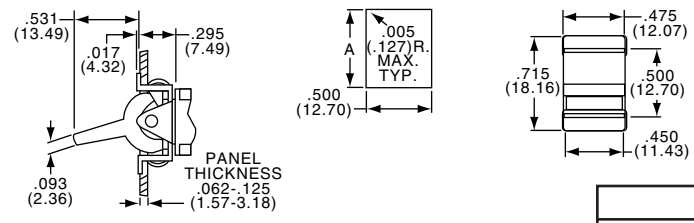
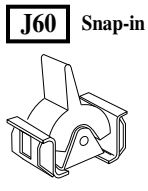
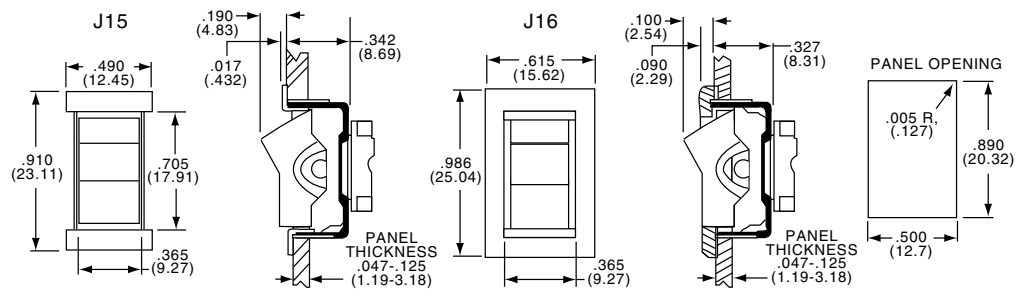
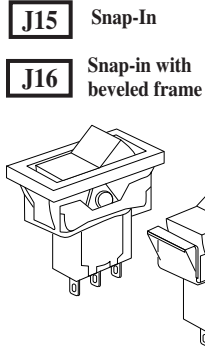
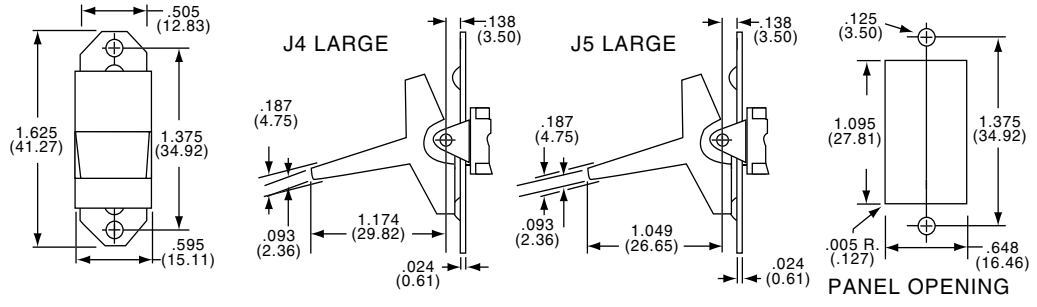
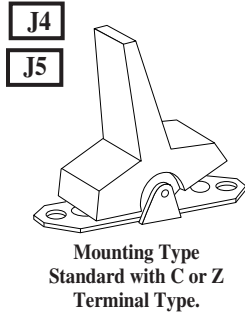


Small

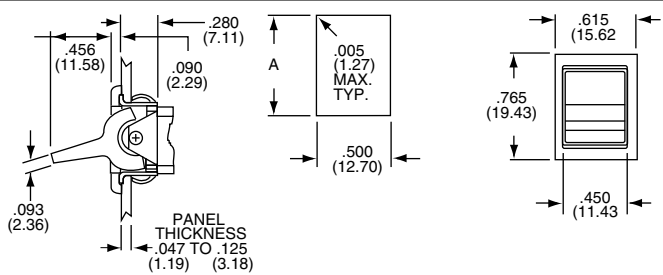
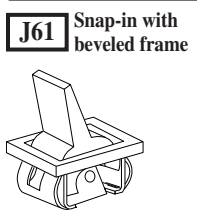


Mounting Type Standard with C or Z Terminal Type.

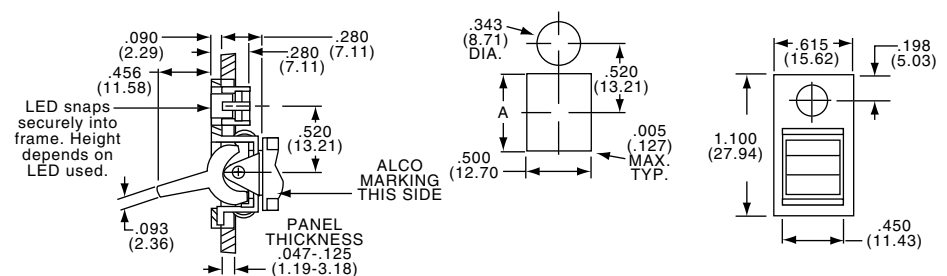
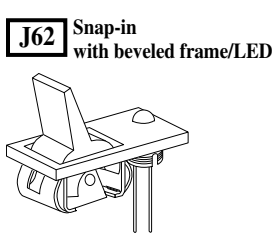
Rocker/Paddle Switches, A Series, Options



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

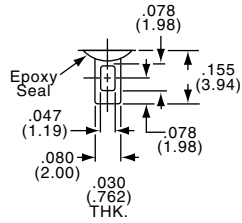
Accepts BL-17 or equivalent LED
L.E.D. not supplied

Rocker/Paddle Switches, A Series, Termination Options

TERMINALS

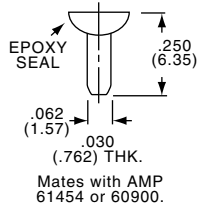
Z

Wire Lug Standard



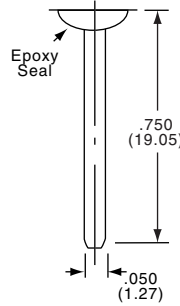
Q

Quick Connect



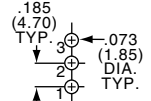
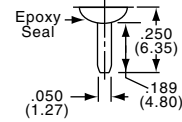
W

Wire Wrap

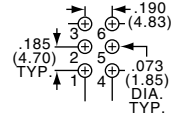


C

Printed Circuit



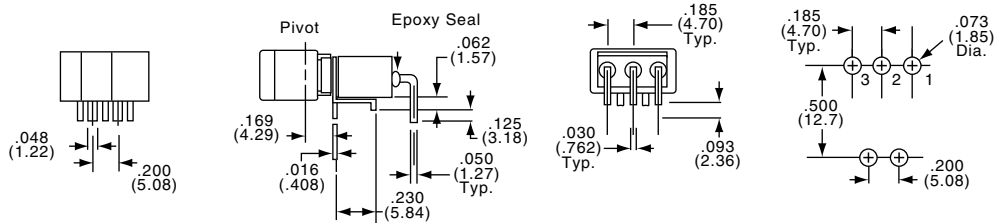
SINGLE POLE



DOUBLE POLE

A

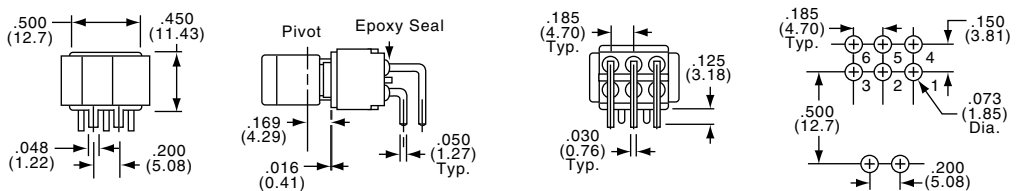
Right Angle Single Pole



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

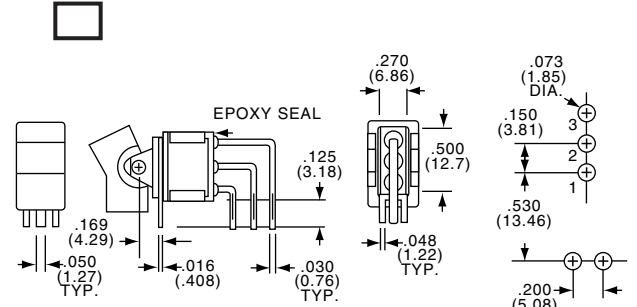
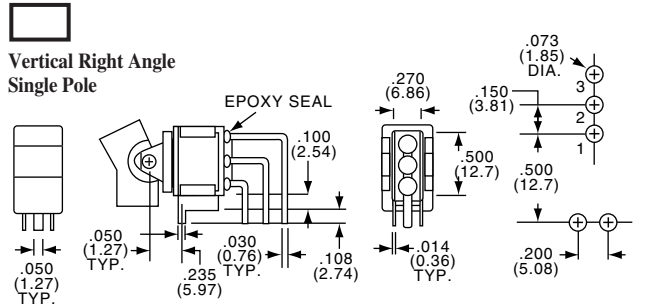
A

Right Angle Double Pole

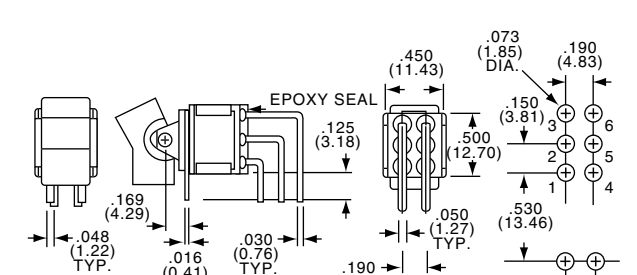
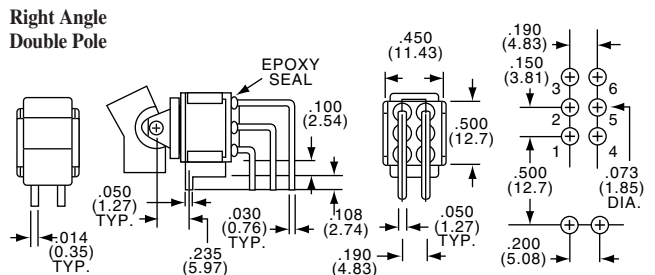


NOTE: Terminal numbers viewed from top of P.C. board.

Rocker/Paddle Switches, A Series, Options

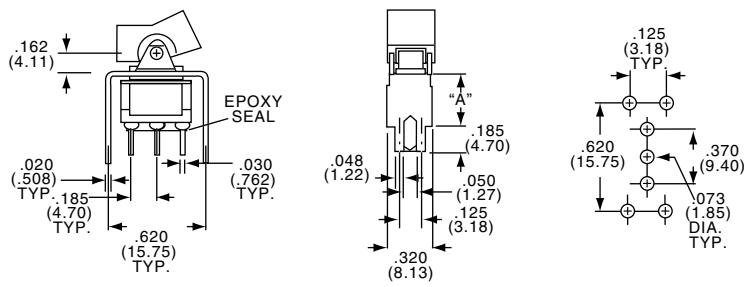


NOTE: Terminal numbers viewed from top of P.C. board.



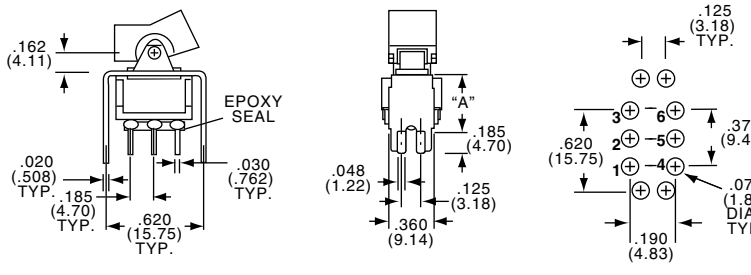
NOTE: Terminal numbers viewed from top of P.C. board.

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

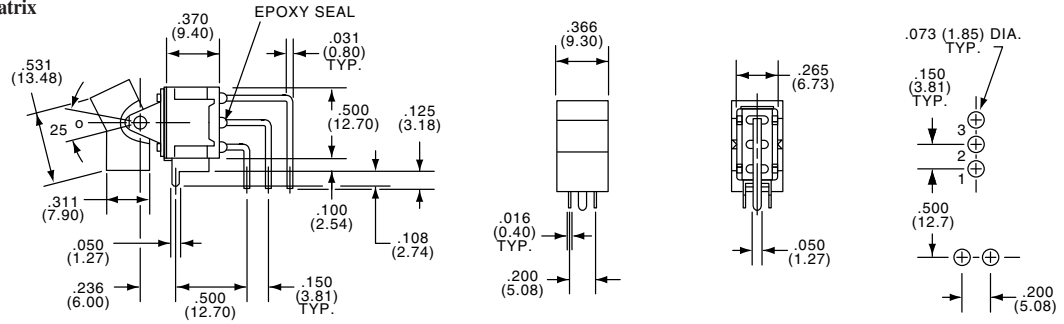
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

* Refer to Pages F7 for Product Specifications and Part Matrix

SPDT



A101J1AV2Q0

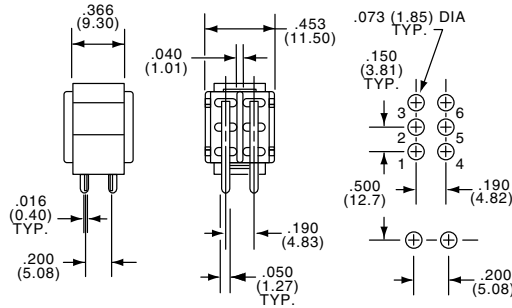


DPDT



A205J1AV2Q0

Standard Rocker Color - (Black)



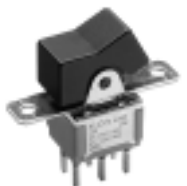
Silver Contacts							
Tyco Electronics	Alcoswitch	Type	Act. Code.	P. M5			
1-1437591-1	A101J1AV2Q0	SPDT	1		On	None	On
4-1437591-7	A105J1AV2Q0	SPDT	5		(On)	Off	(On)
7-1437591-1	A201J1AV2Q0	DPDT	2		On	None	On
9-1437591-6	A205J1AV2Q0	DPDT	6		(On)	Off	(On)

SPDT



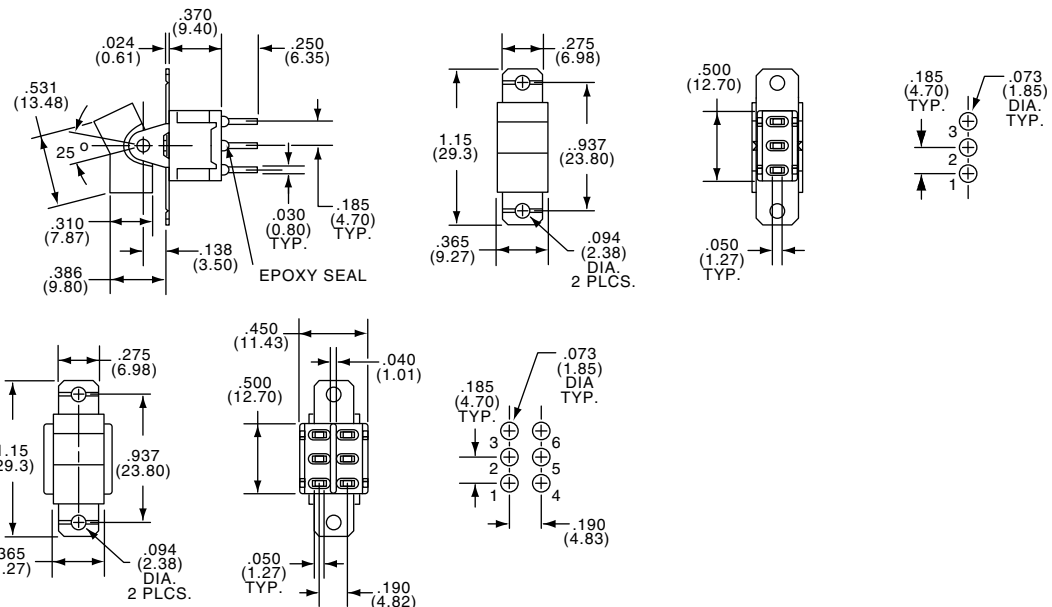
A101J1CQ0

DPDT



A201J1CQ0

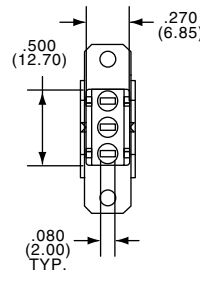
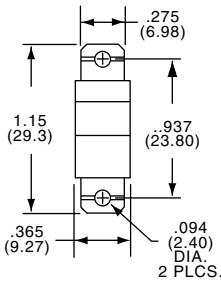
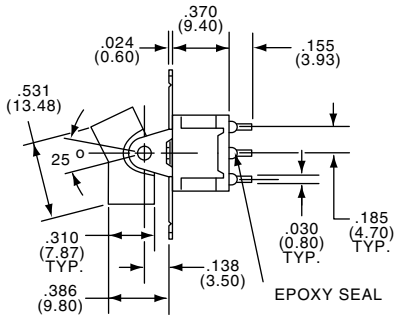
Standard Rocker Color - (Black)



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

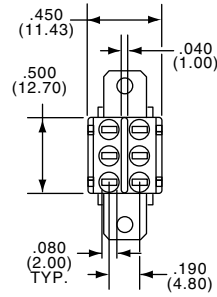
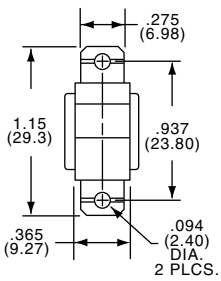
SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX



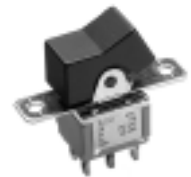
SPDT



A101J1ZQ0



DPDT

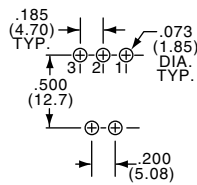
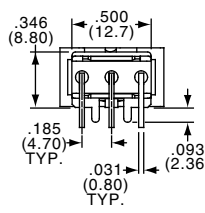
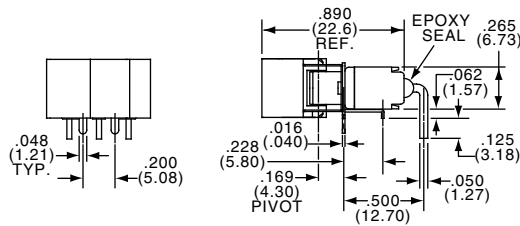


A201J1ZQ0

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)

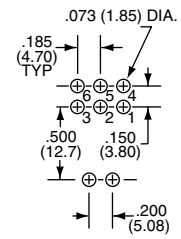
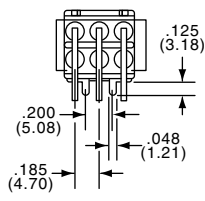
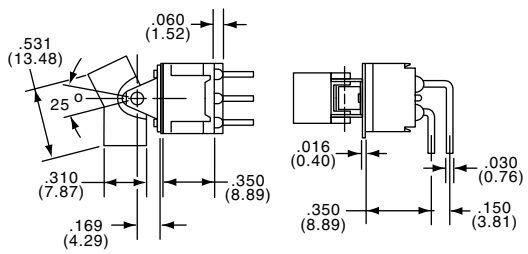
Gemini Series Rocker/Paddle Switches



SPDT



A101J1AQ0



DPDT



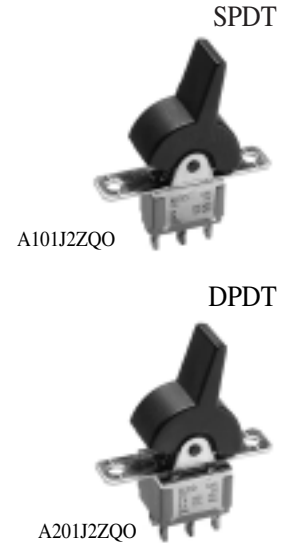
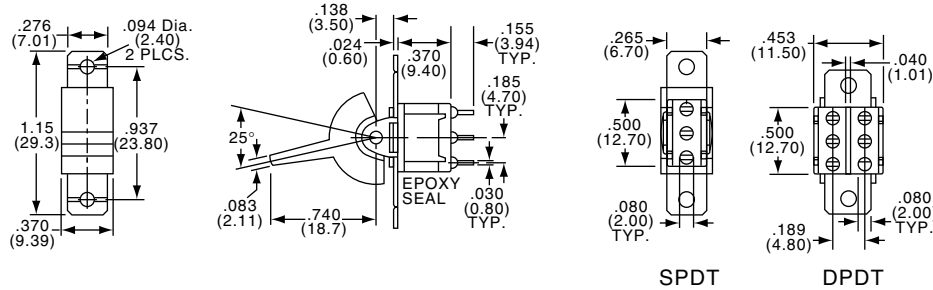
A201J1AQ0

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)

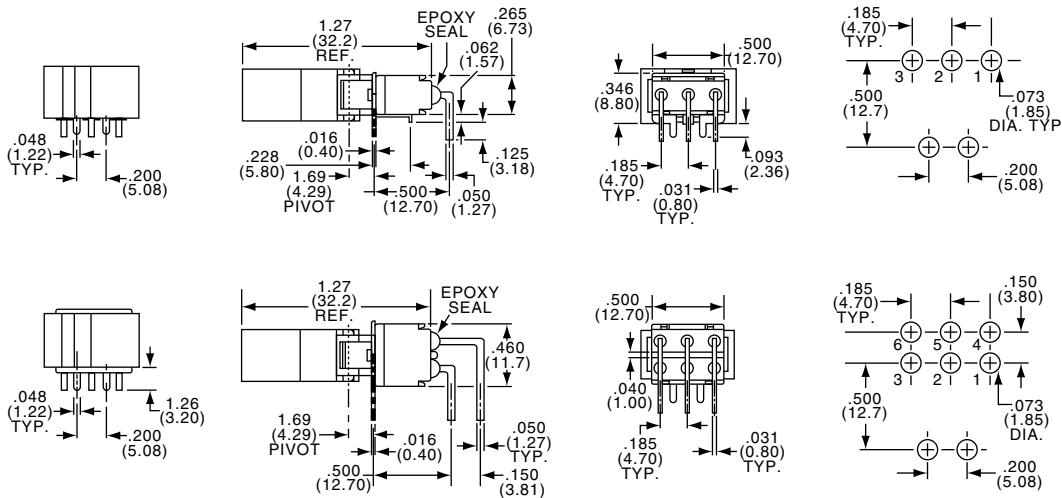
* Refer to Pages F7 for Product Specifications and Part Matrix

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)



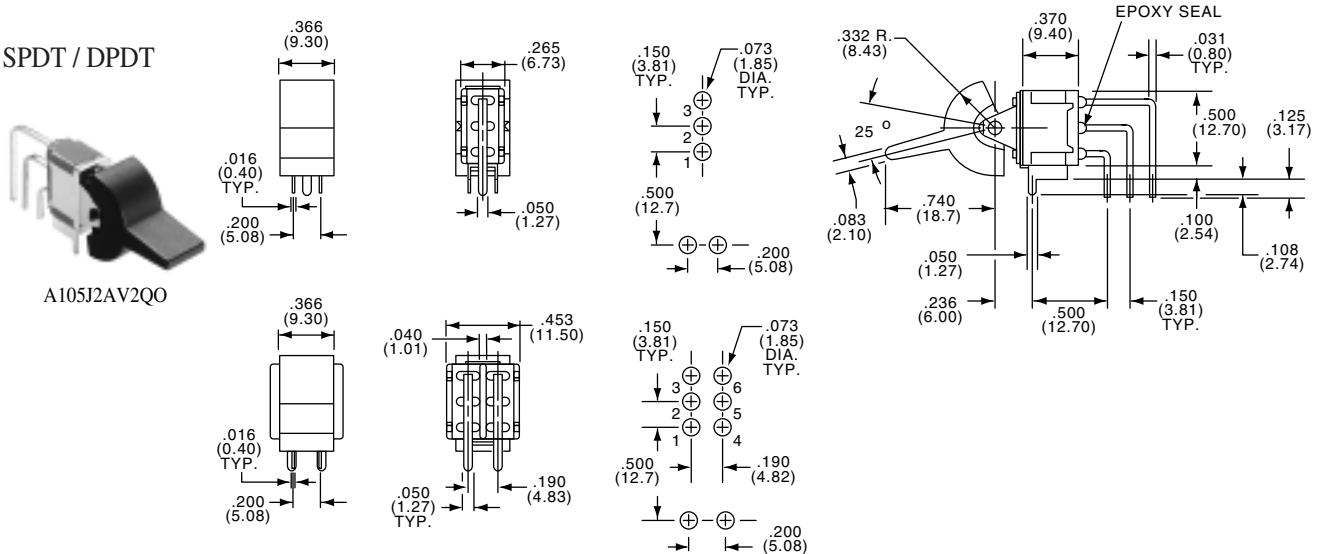
Standard Paddle Color - (Black)

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

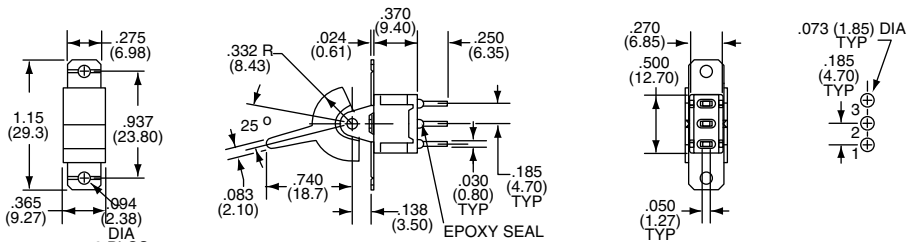
Standard Paddle Color - (Black)

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



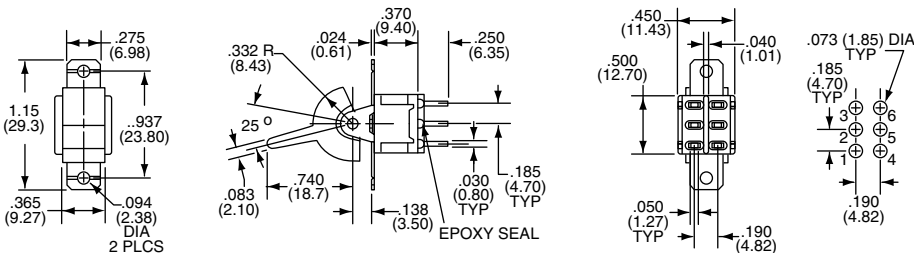
A105J2CQ0



DPDT



A205J2CQ0



Silver Contacts							Silver Contacts								
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—	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 SealEpoxy (standard)
 Process SealingSeals will withstand wave soldering and subsequent cleaning operations.
 Contact/TerminalsGold/gold flash over tin/lead
 Silver/tin lead
 Case MaterialThermoplastic
 Actuator MaterialPolyamide

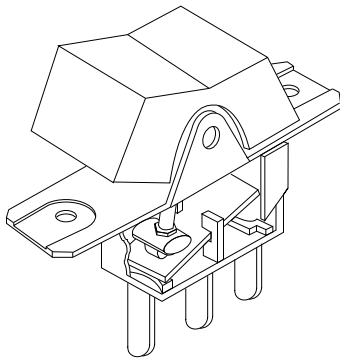
ENVIRONMENTAL SPECIFICATIONS:

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.

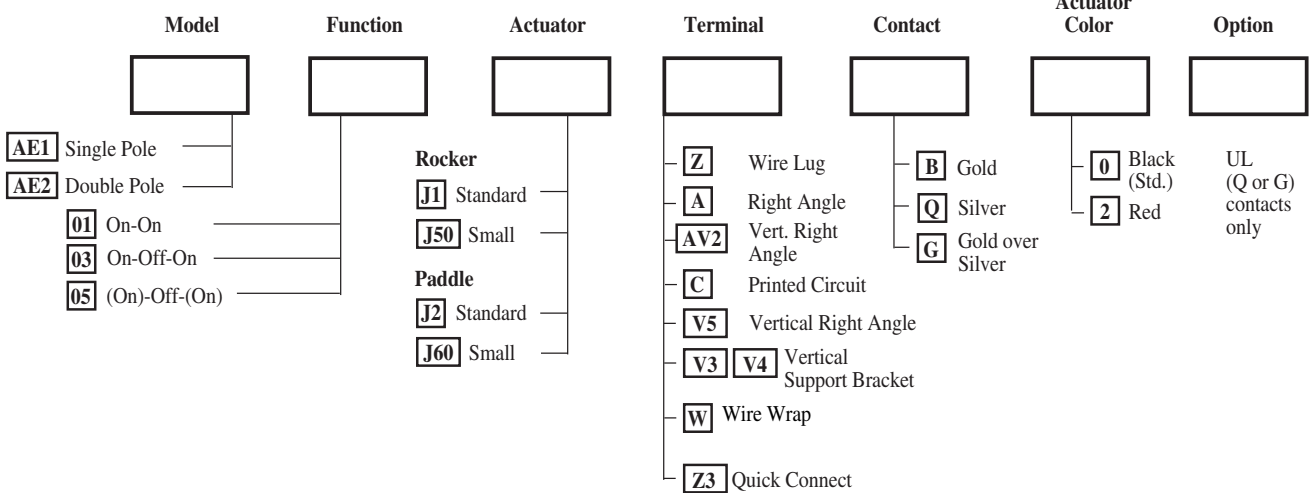
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingSilver: 2 A @ 250 VAC, 5 A @ 125 VAC
 Silver: 2 A @ 30 VDC
 Gold: 0.4 VA @ 20 VDC max.
 Contact Resistance30 Milliohms max. initial
 Insulation Resistance1,000 Megohms min. @ 500 VDC.
 Dielectric Strength1,000 Volts RMS @ sea level initial
 Static Withstanding.....15KV Per IEC 801-2.
 Electrical LifeUp to 30,000 Cycles
 Actuator Travel......25°
 Contact TimingBreak before make

DESIGN



PART NUMBERING



U.L. Available upon request

OPTIONAL:

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

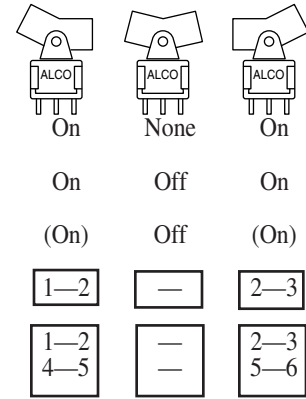


Rocker/Paddle Switches, AE Series, Process Sealed, Options

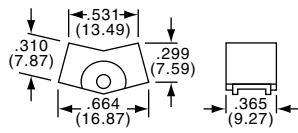
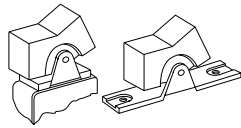
FUNCTIONS

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

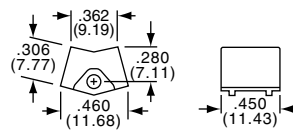
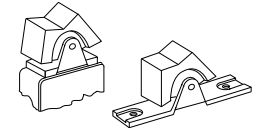


Mounting Provided with C or Z Terminal Type.

ACTUATORS

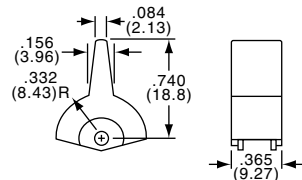
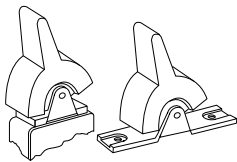
J50

Rocker



Mounting Provided with C or Z Terminal Type.

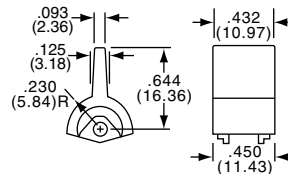
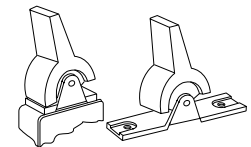
J2
Paddle



Mounting Provided with C or Z Terminal Type.

J60

Paddle



Mounting Provided with C or Z Terminal Type.

F

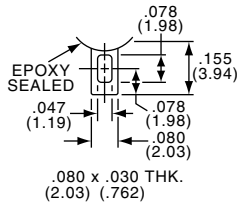
Gemini Series Rocker/Paddle Switches

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

TERMINALS

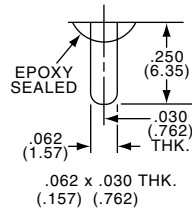
Z

Wire Lug



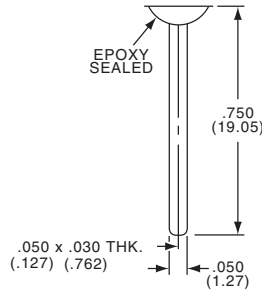
Q

Quick Connect



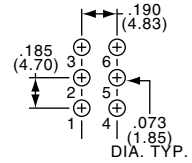
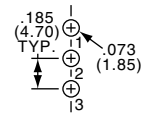
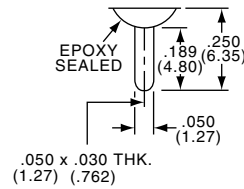
W

Wire Wrap



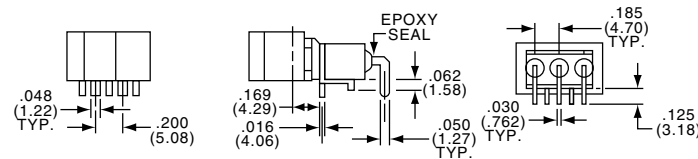
C

Printed Circuit



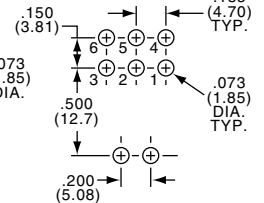
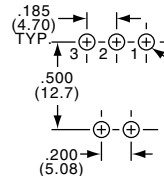
A

Right Angle Single Pole

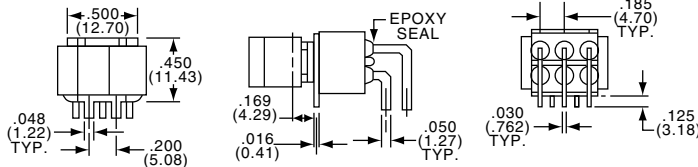


SINGLE POLE

DOUBLE POLE



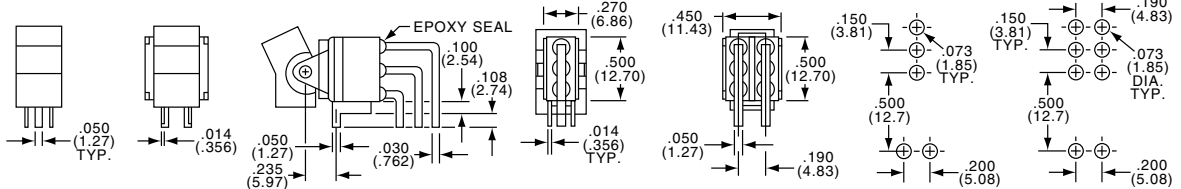
Right Angle Double Pole



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

V

Vertical Right Angle



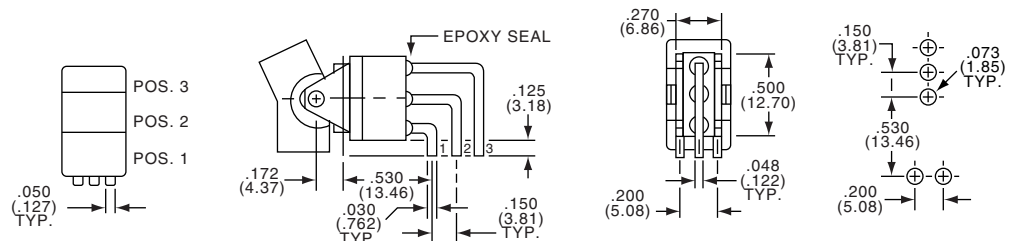
SINGLE POLE

DOUBLE POLE

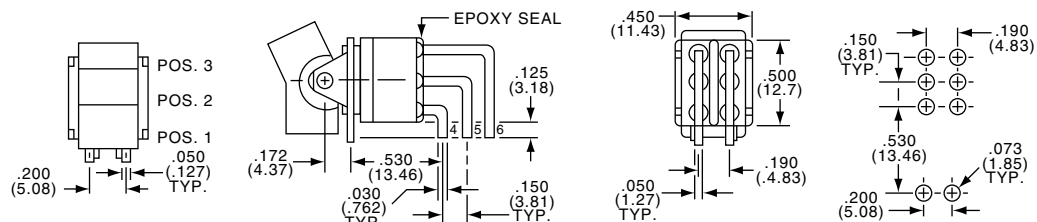
NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle Single Pole



Vertical Right Angle Double Pole

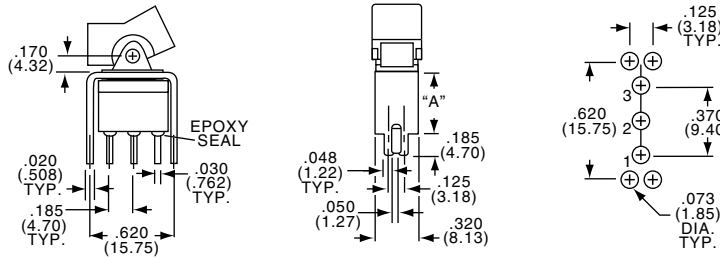


Gemini Series Rocker/Paddle Switches

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

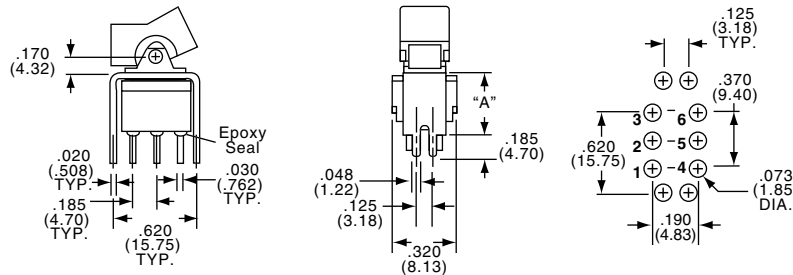


**Vertical Support Bracket
Single Pole**



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

Series PRA, PRB and PRD

Product Facts

- Full line of single or double-pole power rocker switches for three different industry compatible panel cut-out sizes
- Easy to install snap-in mounting
- Dust resistant
- Dual color rocker option
- Full-illuminated rocker option
- LED or neon window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .187 & .250 FASTON Tab terminals
- Cost competitive



Electrical Characteristics

Current: 16A@125 VAC 1/3 HP
10A@250 VAC 1/2 HP
PRA Series Double Pole:
7A@125 VAC
6A@250 VAC
PRA Series Single Pole:
6 (3)A 250V ~ 10A 125V ~
μ 25T85
Inrush Current: 50A/3msec
(capacitive load)
Contact Resistance (initial): <50m
Ohms
Dielectric Strength (initial): >1000
VAC, 1 min.
Insulation Resistance (initial):
>100Mohms min.
Electrical Life Endurance:
>6000 operations
Voltage drop <100 mV

Mechanical Characteristics

Operating Life Endurance: up to
>100,000 operations
Actuating Force:
Series PRA 150g min., 650g max.
Series PRB 300g min., 700g max.
Series PRD 850g min., 1250g max.

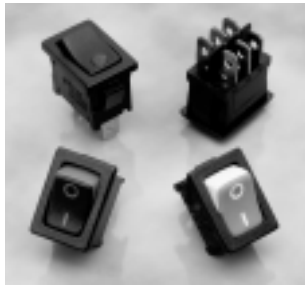
Materials and Finish

Housing: Nylon 6/6 UL 94V-2
Rocker: Nylon 6/6 UL 94V-2 or
Polycarbonate UL 94V-2
Contact: Silver-tin Oxide
Terminals, Active Contactor: Silver
plated copper alloy
Plunger: Nickel plated copper alloy
Spring: Steel Wire
Standards & Specs
UL Approved - File No. E46765
ENEC/VDE approval - File No.
40006757 (PRA Single Pole Series
only)

F

Power Rocker Switches

.51 [13.0] x .76 [19.2] Panel Cutout



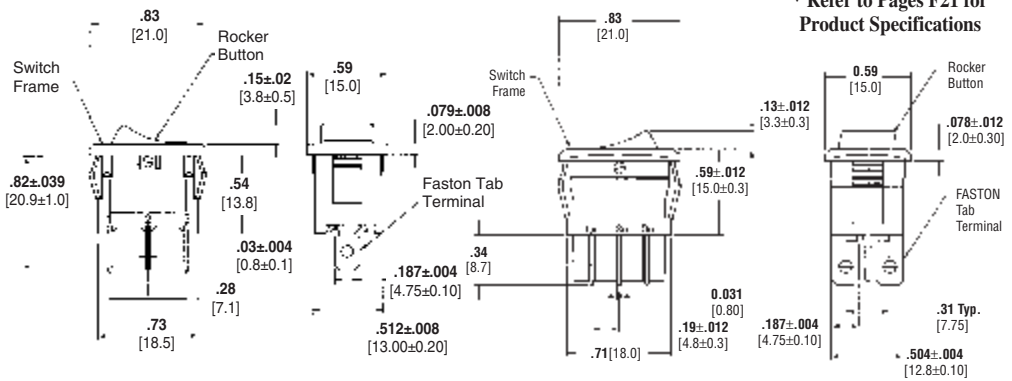
Product Facts

- n Easy to install snap-in mounting
- n Dust resistant
- n Dual color rocker option
- n Full-illuminated rocker option
- n LED or neon window illuminated option
- n Wide range of marking options and functions available
- n Solder lugs or .187 FASTON Tab terminals
- n Cost competitive

Single-Pole, Lamp Illuminated or Non-Illuminated

Double-Pole, Non-Illuminated

* Refer to Pages F21 for Product Specifications



Non-Illuminated Version Shown

Alcoswitch Part Number

PR A X XX - XX X - X X X X X X

Switch Type
PR Power Rockers

Panel Cut-out Size
A .51 [13.0] x .76 [19.2]

Number of Poles
S Single Pole
D Double Pole

Switch Functions
A1 ON-OFF; opaque, single-color rocker button
A2 ON-OFF; opaque, dual-color rocker button
A3 (ON)-OFF; opaque, single-color rocker button
B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
B2 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (100-125 V lamp voltage)
B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
B4 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (200-250 V lamp voltage)
C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button
D1 ON-ON; opaque, single-color rocker button
D2 ON-(ON); opaque, single-color rocker button
D3 ON-OFF-ON; opaque, single-color rocker button
D4 ON-OFF-(ON); opaque, single-color rocker button

Power Rating
07 7A @ 125 VAC; 6A @ 250 VAC (Double-pole only)
16 16A, 1/3 Hp @ 125 VAC (Single-pole only)
10A, 1/2 Hp @ 250 VAC
10A 125V- 6 (3)A 250V-
μ 25T85

Legend Text Color
0 Not Applicable R Red
B Black W White
G Green

Legend Text Pattern
0 Not Applicable E |||
A Dot F -- o =
B o - G | o ||
C o | H ON OFF
D - = J o -

Secondary Rocker Color, Window Color, or LED Color
0 Not Applicable C Clear
A Amber G Green
B Black R Red
W White

Rocker Color
A Amber G Green
B Black R Red
C Clear W White

Frame Color
B Black
W White

Terminal Type
F FASTON Tab
L Solder Lug

Part No.

Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch
1571076-9	PRASA1-16F-BB000	1571079-7	PRASD3-16F-BB000	1571084-5	PRADA1-07F-BR0BW
1-1571076-0	PRASA1-16F-BB0BW	1571079-8	PRASD3-16F-BB0FW	1571086-1	PRADD1-07F-BB000
1-1571076-1	PRASA1-16F-BB0CW	1571079-9	PRASD3-16F-BB0GW	1571086-2	PRADD1-07F-BB0DW
1-1571076-2	PRASA1-16L-BB000	1-1571079-0	PRASD2-16F-BB000	1571086-3	PRADD1-07F-BB0EW
1-1571076-3	PRASA1-16L-BB0BW	1-1571079-1	PRASD2-16F-BB0DW	1571086-4	PRADD3-07F-BB000
1-1571076-4	PRASA1-16L-BB0CW	1-1571079-2	PRASD2-16F-BB0EW	1571086-5	PRADD3-07F-BB0FW
1-1571076-5	PRASA1-16F-BR000	1-1571079-3	PRASD4-16F-BB000	1571086-6	PRADD3-07F-BB0GW
1-1571076-6	PRASA1-16L-BR000	1-1571079-4	PRASD4-16F-BB0FW	1571086-7	PRADD2-07F-BB000
1-1571076-7	PRASA2-16F-BBRBR	1-1571079-5	PRASD4-16F-BB0GW	1571086-8	PRADD2-07F-BB0DW
2-1571076-0	PRASA1-16F-BB0HW	1571083-2	PRASC1-16F-BBR00	1571086-9	PRADD2-07F-BB0EW
2-1571076-1	PRASA3-16F-BB0JW	1571084-1	PRADA1-07F-BB000	1-1571086-0	PRADD4-07F-BB000
1571078-2	PRASB1-16F-BR000	1571084-2	PRADA1-07F-BB0BW	1-1571086-1	PRADD4-07F-BB0FW
1571078-4	PRASB2-16F-BBR00	1571084-3	PRADA1-07F-BB0CW	1-1571086-2	PRADD4-07F-BB0GW
1571079-4	PRASD1-16F-BB000	1571084-4	PRADA1-07F-BR000		
1571079-5	PRASD1-16F-BB0DW				
1571079-6	PRASD1-16F-BB0EW				

PVC Waterproof Cover: 1571786-1



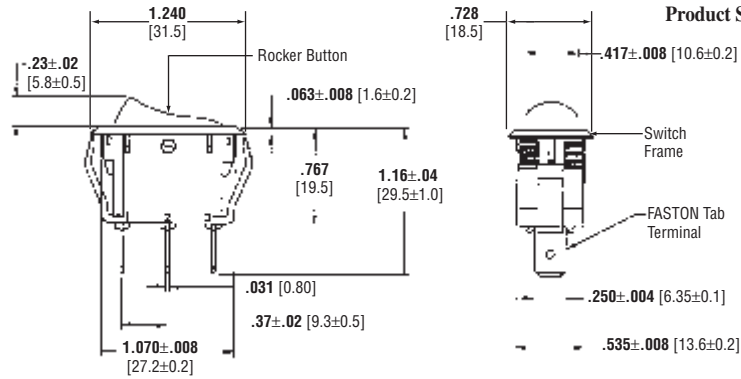
Power Rocker Switches Series PRA

.54 [13.8] x 1.09 [27.6] Panel Cutout



Product Facts

- Easy to install snap-in mounting
- Dual color rocker option
- Full-illuminated rocker option
- Lamp window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .250 FASTON Tab terminals
- Cost competitive



* Refer to Pages F21 for Product Specifications

Alcoswitch Part Number

PR B S XX - XX X - X X X X X X

Switch Type
 PR Power Rockers

Panel Cut-out Size
 B .54 [13.8] x 1.09 [27.6]

Number of Poles
 S Single Pole

Switch Functions
 A1 ON-OFF; opaque, single-color rocker button
 A2 ON-OFF; opaque, dual-color rocker button
 B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
 B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
 C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button
 D1 ON-ON; opaque, single-color rocker button
 D3 ON-OFF-ON; opaque, single-color rocker button

Power Rating
 16 16A, 1/3 Hp @ 125 VAC
 10A, 1/2 Hp @ 250 VAC

Terminal Type
 F FASTON Tab
 L Solder Lug

Legend Text Color
 0 Not Applicable R Red
 B Black W White
 G Green

Legend Text Pattern
 0 Not Applicable E |||
 A Dot F -- o =
 B o -- G | o ||
 C o | H ON OFF
 D -- =

Secondary Rocker Color, Window Color, or LED Color
 0 Not Applicable C Clear
 A Amber G Green
 B Black R Red
 W White

Rocker Color
 A Amber G Green
 B Black R Red
 C Clear W White

Frame Color
 B Black
 W White

Part No.

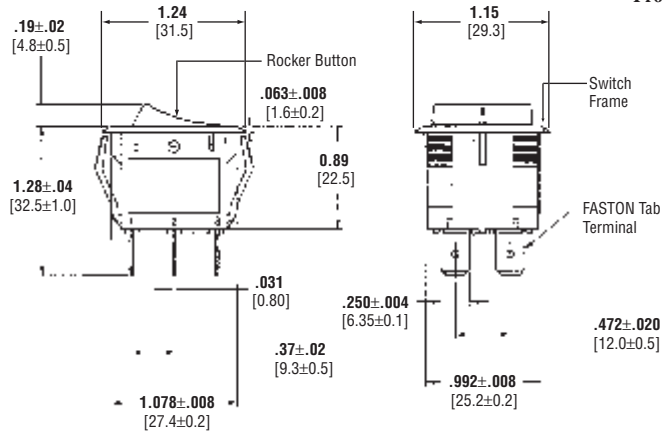
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch
1571087-1	PRBSC1-16F-BBR00	1571092-1	PRBSB1-16F-BR000
1571087-2	PRBSC1-16L-BBR00	1571092-2	PRBSB1-16F-BR0BW
1571091-1	PRBSA1-16F-BB000	1571092-3	PRBSB1-16F-BA000
1571091-2	PRBSA1-16F-BB0BW	1571092-4	PRBSB1-16F-BC000
1571091-3	PRBSA1-16F-BB0CW	1571094-1	PRBSD1-16F-BB000
1571091-4	PRBSA1-16L-BB000	1571094-2	PRBSD1-16F-BB0DW
1571091-5	PRBSA1-16L-BB0BW	1571094-3	PRBSD1-16F-BB0EW
1571091-6	PRBSA1-16L-BB0CW	1571094-4	PRBSD3-16F-BB000
1571091-7	PRBSA1-16F-BR000	1571094-5	PRBSD3-16F-BB0FW
1571091-8	PRBSA1-16L-BR000	1571094-6	PRBSD3-16F-BB0GW
1571091-9	PRBSA1-16F-BB0HW	1571094-7	PRBSD3-16F-BW000
1-1571091-0	PRBSA1-16F-BR0HW		
1-1571091-1	PRBSA1-16F-BW000		
1-1571091-2	PRBSA1-16F-BW0HB		

1.00 [25.4] x 1.09 [27.6] Panel Cutout



Product Facts

- Easy to install snap-in mounting
- Full illuminated rocker option
- Wide range of marking options and functions available
- FASTON .250 Tab terminals
- Cost competitive



* Refer to Pages F21 for Product Specifications

Alcoswitch Part Number

<p>Switch Type PR Power Rockers</p> <p>Panel Cut-out Size B 1.00 [25.4] x 1.09 [27.6]</p> <p>Number of Poles S Double Pole</p> <p>Switch Functions A1 ON-OFF; opaque, single-color rocker button B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage) B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage) D1 ON-ON; opaque, single-color rocker button D3 ON-OFF-ON; opaque, single-color rocker button</p> <p>Power Rating 16 16A, 1/3 Hp @ 125 VAC 10A, 1/2 Hp @ 250 VAC</p> <p>Terminal Type F FASTON Tab</p>	<p>PR D D XX - XX X - X X X X X X</p>	<p>Legend Text Color 0 Not Applicable R Red B Black W White G Green</p> <p>Legend Text Pattern 0 Not Applicable E I ll A Dot F - o = B o -- G l o ll C o l H ON OFF D - =</p> <p>Secondary Rocker Color, Window Color, or LED Color 0 Not Applicable</p> <p>Rocker Color A Amber G Green B Black R Red C Clear W White</p> <p>Frame Color B Black W White</p>
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Part No.

Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch
1571103-1	PRDDA1-16F-BB000	1571112-1	PRddb1-16F-BR000
1571103-2	PRDDA1-16F-BB0BW	1571112-2	PRddb1-16F-BA000
1571103-3	PRDDA1-16F-BB0CW	1571113-1	PRddd1-16F-BB000
1571103-4	PRDDA1-16F-BR000	1571113-2	PRddd1-16F-BB0DW
1571103-5	PRDDA1-16F-BB0HW	1571113-3	PRddd1-16F-BB0EW
1571103-6	PRDDA1-16F-BR0HW	1571113-4	PRddd3-16F-BB000
1571113-7	PRddd3-16F-BR000	1571113-5	PRddd3-16F-BB0FW
		1571113-6	PRddd3-16F-BB0GW