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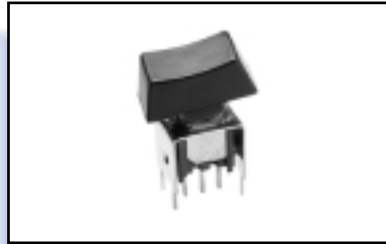
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ROCKER/PADLE



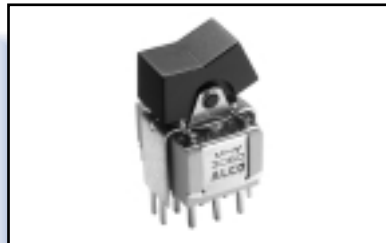
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(*) Specify Color Choice Where Available
 (0) Black, (2) Red, (3) Orange,
 (4) Yellow, (5) Green, (6) Blue
 (8) Gray, (9) White
 (25) Red/Green Bi-Color

Rocker Switch TRD Series

For Additional Options Refer to Page E4-E6

MATERIAL SPECIFICATIONS:

Contacts Gold over nickel or silver plate
 Case Material Polyamide, black matte finish
 Actuator Material Polyamide
 Terminals/Fixed Contacts Copper alloy with gold or silver plate
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

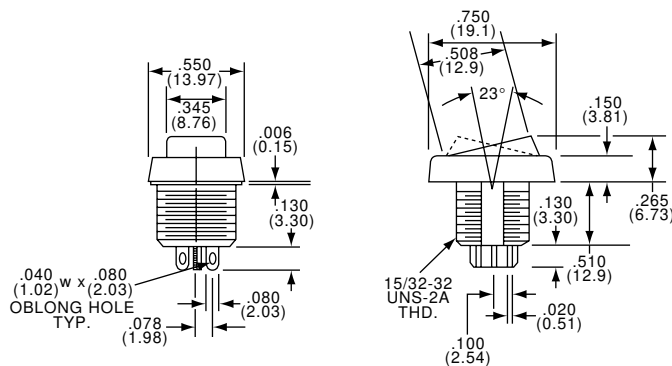
Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -49°F to +199°F (-45°C to +93°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 0.4 VA Max. @ 20 VDC or peak AC
 3 A @ 125 VAC or 28 VDC (2 pos.) 2A
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min.
 Dielectric Strength 500 Volts RMS @ sea level
 Actuator Travel 23°
 Life Expectancy 2 Pos. - 100,000 actuations
 3 Pos. - 50,000 actuations
 UL recognized under the Component Program of Underwriters
 Laboratories Inc. File #E46765

NOTE: Part numbering sequence page E4

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

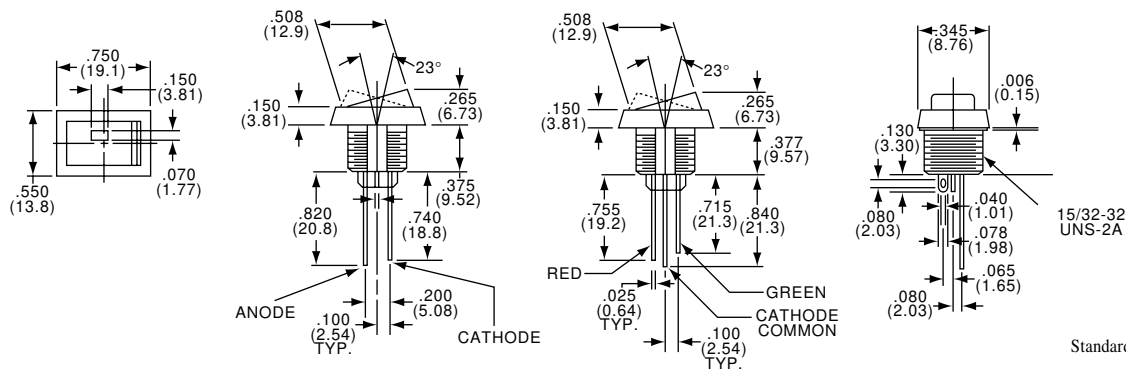


TRD21N10WL

Standard Body Color - (Black)

Model	Type	Function	Act. Code Pg. M8	Contact	Terminal	Model	Type	Function	Act. Code Pg. M8	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	DP3T	On Off On	6	Gold	Wire Lug	TRD23P1(*)WL	DP3T	On Off On	6	Silver	Wire Lug
TRD21R1(*)WL	DPDT	On None (On)	2	Gold	Wire Lug	TRD23R1(*)WL	DPDT	On None (On)	2	Silver	Wire Lug

(*) Specify rocker color by adding suffix number: (0) Black (2) Red, (6) Blue (9) Yellow.
 (On) indicates momentary position.



TRD11D10WLLR

Standard Body and Rocker Color - (Black)

Model	Type	Function	Act. Code Pg. M8	Contact	Terminal	Model	Type	Function	Act. Code Pg. M8	Contact	Terminal
TRD11D10WLLR(*)	SPDT	On None On	1	Gold	Wire Lug	TRD13D10WLLR(*)	SPDT	On None On	1	Gold	Wire Lug
TRD11E10WLLR(*)	SP3T	On Off On	5	Gold	Wire Lug	TRD13E10WLLR(*)	SP3T	On Off On	5	Gold	Wire Lug
TRD11F10WLLR(*)	SPDT	On None (On)	1	Gold	Wire Lug	TRD13F10WLLR(*)	SPDT	On None (On)	1	Gold	Wire Lug

(*) Specify LED color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (25) Red/Green - Bi-color (On) indicates momentary position.

Need more technical information?

Consult your Thomas & Betts
 sales office listed on the back cover

Thomas & Betts
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 Memphis, TN 38125
 (901) 252-5000 FAX (901) 252-1380

TRD Series *Rocker/Paddle • How To Order*

MATERIAL SPECIFICATIONS:

Movable Contacts Copper alloy w/silver inlay contact or gold plate
 Terminals/Fixed Contacts Copper alloy w/silver inlay contact or gold plate
 Terminal Seal Epoxy
 Housing/Beveled Frame Polyamide, black matte finish

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 Resistance Meets MIL-STD-202, method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

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

***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 recognized under the Component Program of Underwriters Laboratories Inc. File #E46765

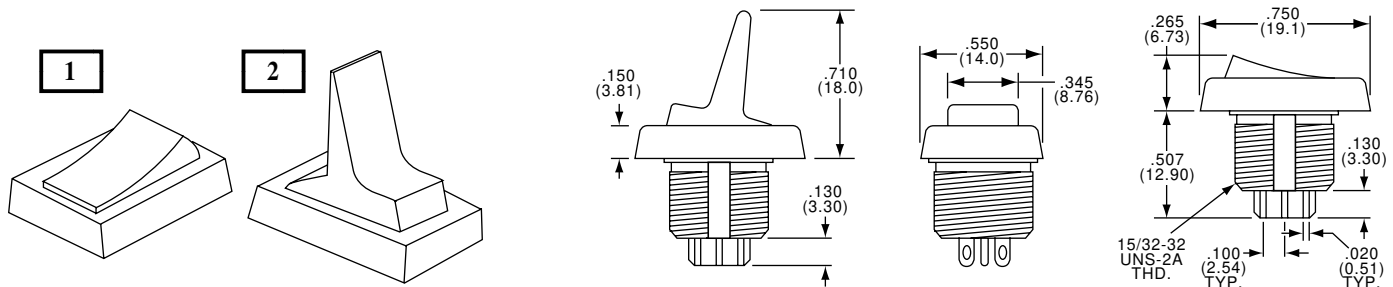
HOW TO ORDER

See pages M2-M4 for application specific indexing.

E

Model	Contact Rating	Function	Actuator	Actuator Color	Terminal	Mount	L.E.D. Illumin.	L.E.D. Color	*UL
TRD1	Single Pole D on-on E on-off-on F on-(on) G (on)-off-(on) H on-off-(on) Double Pole N on-on P on-off-on R on-(on) S (on)-off-(on) T on-off-(on)	Single Pole Rocker Paddle	1 black 2 red 6 blue 9 yellow	WL Wire Lug WW Wire Wrap QC Quick Connect PC Printed Circuit	15/32" round hole 5 1/2" square hole	L Beveled frame adaptor LR Integral w/rocker (TRD 1 only)		None Option L 2 red 4 yellow 5 green 25 bi-color red/green	Functions: Silver only D, F, N, & R Terminations Functions only WL, WW or QC only
Single Pole									
TRD2									
Double Pole									
1 Gold 0.4VA									
3 Silver 3A									

ACTUATORS



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Quality & Innovation From **AUGAT** Name Brand Products

E4

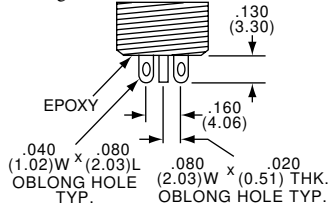
Thomas & Betts
 8155 T&B Blvd.
 Memphis, TN 38125
 (901) 252-5000 FAX (901) 252-1380

How To Order • Rocker/Paddle TRD Series

TERMINATIONS (Epoxy seal standard)

WL

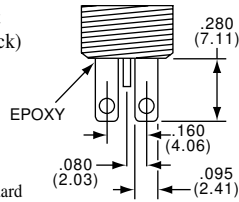
Wire Lug



QC

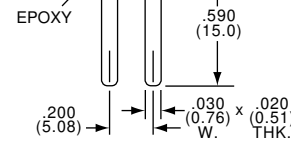
Quick Connect
.110" (.020 thick)

Mates with standard
.110" female connectors



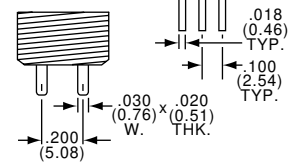
WW

Wire Wrap



PC

Printed Circuit

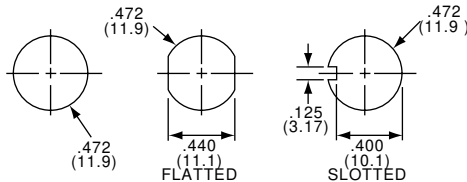


15/32" HOLE STANDARD

Standard TRD bushing will mount in any hole shown below.

Recommended panel thickness:
.030" to .250"

One hex nut, one internal tooth lock-washer supplied.

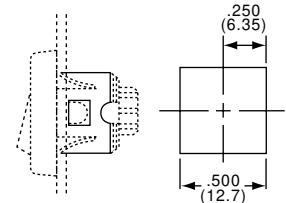


5

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



CONTACTS/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

UL

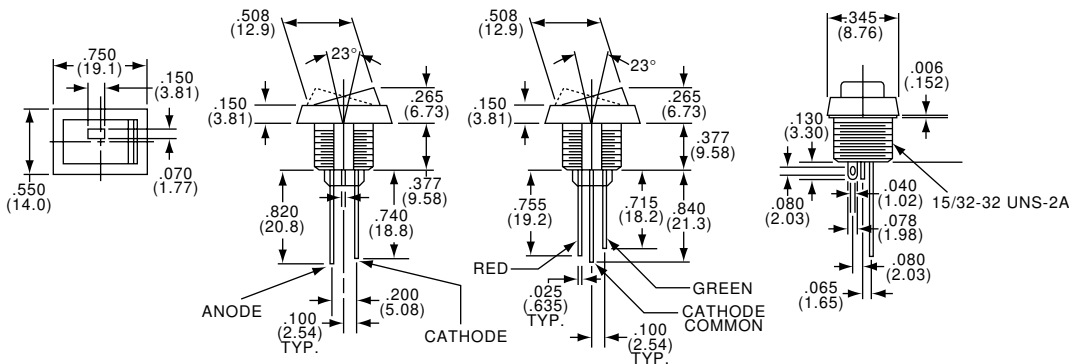
For contact option 3
Rating: 3A, 120 VAC(Resistive)
File: E46765

Underwriters Laboratories, Inc. marking stamped under beveled frame.

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

LR

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



Standard mounting dimensions apply, L.E.D. supplied in **2** red, **4** yellow, **5** green, or **25** red/green.

L.E.D. Specifications: Max Voltage: 2.8 VDC

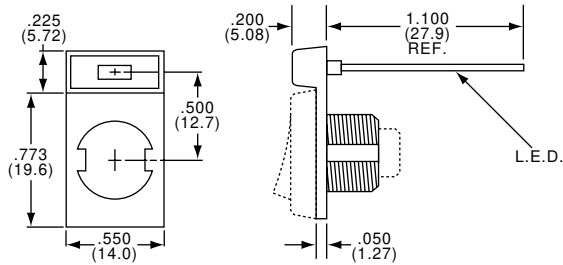
Max. Forward Current: red-20mA, Yellow-25 mA, green-25 mA, red/green-40 mA.

Need more technical information?

Consult your Thomas & Betts
sales office listed on the back cover

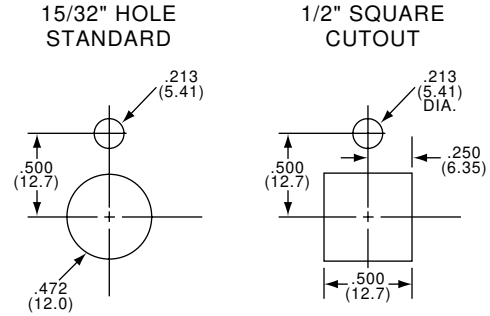
TRD Series *Rocker/Paddle • How To Order*

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



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

MOUNTING



Recommended Panel Thickness: .030 to .220:

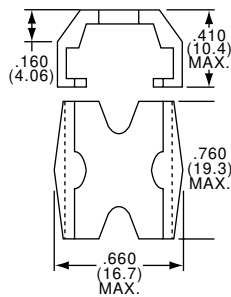
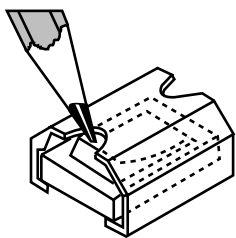
Recommended Panel Thickness: .030 to .095"

E FUNCTIONS

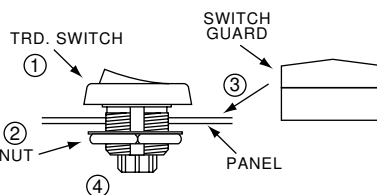
Single Pole	Double Pole	123 456	123 456	123 456
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<input type="checkbox"/> E	<input type="checkbox"/> P	On	Off	On
<input type="checkbox"/> F	<input type="checkbox"/> R	On	None	(On)
<input type="checkbox"/> G	<input type="checkbox"/> S	(On)	Off	(On)
<input type="checkbox"/> H	<input type="checkbox"/> T	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, electrical connection

SWITCH GUARD



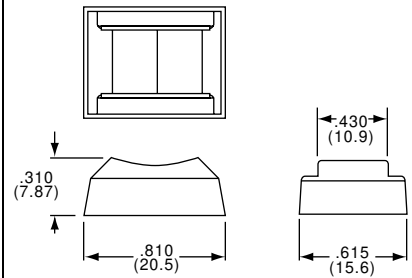
1. Insert switch in panel.
2. Attach lockwasher and hexnut.
3. Snap switch guard onto switch.
4. Tighten hex nut.



Recommended Panel Thickness:
15/32" hole standard - .030 to .220
15/32" square cutout - .030 to .095

Material: Nylon 6/6 **Color/Finish:** Black matte, Specify separately, P/N TRD10979

ROCKER BOOT SEAL



To specify boot seal use P/N TRD11494

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E6

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Subminiature Rocker Vertical & Right Angle TR Series

Switches/Gold Contacts Standard

MATERIAL SPECIFICATIONS:

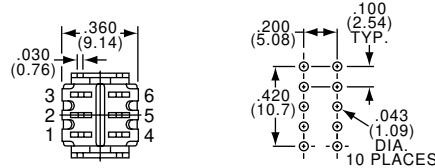
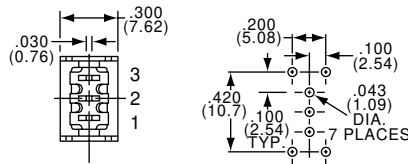
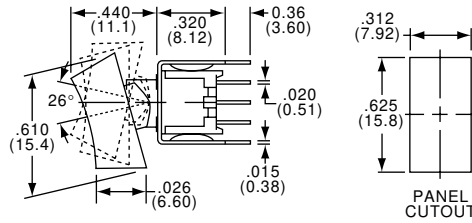
Contacts Gold over nickel
 Case Material High temperature polyester UL94V-0
 Terminals/Fixed Contacts Tin lead plate/gold over nickel
 Terminal Seal Epoxy standard: single pole
 Optional: double pole

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -22°F to +185°F (-30°C to +85°C)
 Storage Temperature -67°F to +185°F (-55°C to +85°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 0.4VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance 20 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 1,000 Volts RMS @ sea level
 Actuator Travel 26°
 Life Expectancy 80,000 Cycles



Model	Type	Act. Code	P. M8				Contact Type
TR11DGPCV1(*)	SPDT	D		On	None	On	Gold
TR11EGPCV1(*)	SPDT	E		On	Off	On	Gold
TR21NGPCV1(*)	DPDT	N		On	None	On	Gold

(*) Specify color by adding suffix number: (0) Black, (2) Red, (6) Blue, (9) White.

SPDT



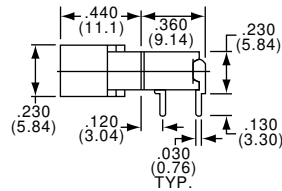
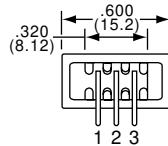
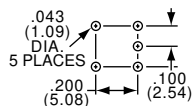
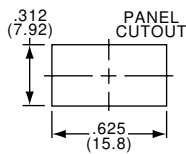
TR11DGPCV10

DPDT

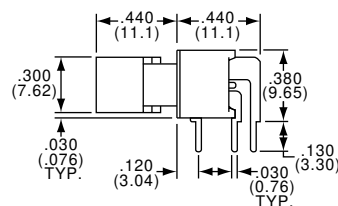
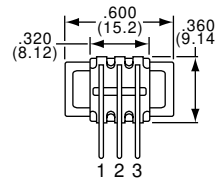
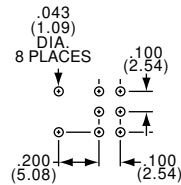


TR21NGPCV12

NOTE: Rocker dimensions and throw same for both TR11DGPCV1. and TR21NGPCV1.



TR11EGRA0



TR21PGRA0

Model	Type	Act. Code	P. M8				Contact Type
TR11DGRA(*)	SPDT	D		On	None	On	Gold
TR11EGRA(*)	SPDT	E		On	Off	On	Gold
TR21NGRA(*)	DPDT	N		On	None	On	Gold
TR21PGRA(*)	DPDT	P		On	Off	On	Gold

(*) Specify color by adding suffix number: (0) Black, (2) Red, (6) Blue, (9) White.

Need more technical information?
 Consult your Thomas & Betts
 sales office listed on the back cover

The Gemini Series "A" Series Paddles

Refer to Pages E12-E17 For Additional Options

MATERIAL SPECIFICATIONS:

Contacts/Terminals Gold/gold flash
 Silver/tin lead
 Case Material Thermoset 94V-0
 Actuator Material Polyamide
 Terminal Seal Epoxy

ENVIRONMENTAL SPECIFICATIONS:

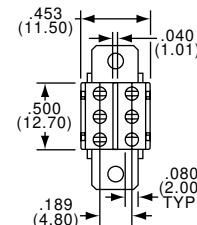
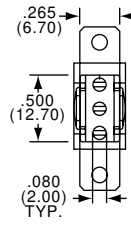
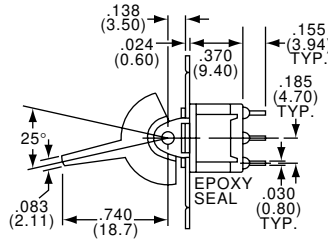
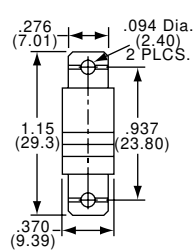
Operating Temperature -4°F to +185°F (-20°C to +85°C)
 Storage Temperature -49°F to +212°F (-45°C to +100°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Gold: .04 VA @ 20 AC/DC
 Silver: 2 A @ 250 VAC: 5 A @ 125 VAC
 Initial Contact Resistance 30 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms @ 500 VDC
 Dielectric Strength 1,000 Volts RMS @ sea level
 Actuator Travel 25°
 Life Expectancy 30,000 Cycles

NOTE: Part numbering sequence page E12

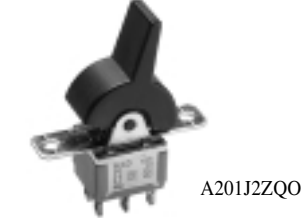
SPDT



SPDT

DPDT

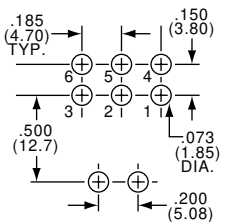
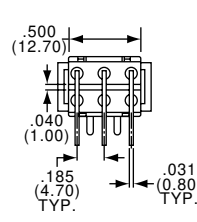
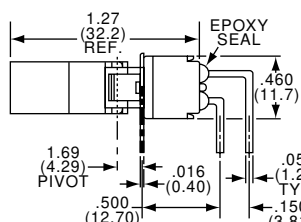
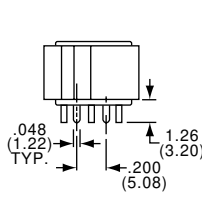
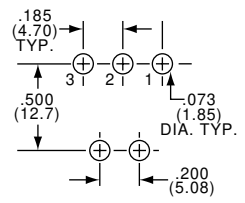
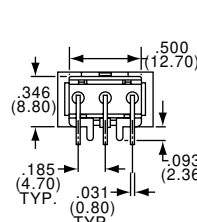
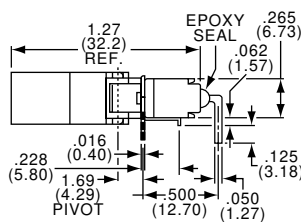
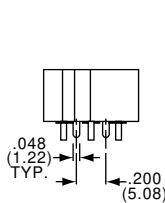
DPDT



Standard Paddle Color - (Black)

Silver Contacts Model	Type	Act. Code	P. M8	↖	↓	↗	Silver Contacts Model	Type	Act. Code	P. M8	↖	↓	↗
A101J2ZQ0	SPDT	1	On	None	On		A201J2ZQ0	DPDT	2	On	None	On	
A103J2ZQ0	SPDT	5	On	Off	On		A203J2ZQ0	DPDT	6	On	Off	On	
A105J2ZQ0	SPDT	5	(On)	Off	(On)		A205J2ZQ0	DPDT	6	(On)	Off	(On)	
A107J2ZQ0	SPDT	5	On	Off	(On)		A207J2ZQ0	DPDT	6	On	Off	(On)	
A108J2ZQ0	SPDT	1	On	None	(On)		A208J2ZQ0	DPDT	2	On	None	(On)	

SPDT / DPDT



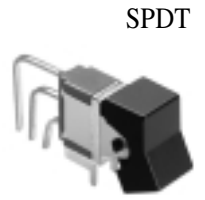
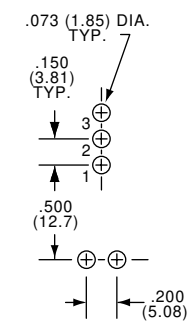
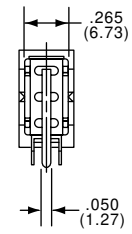
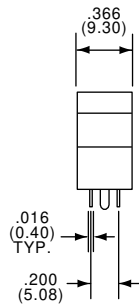
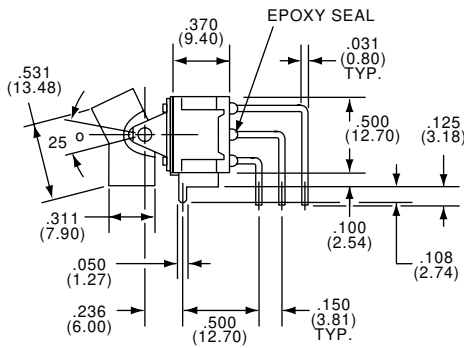
Standard Paddle Color - (Black)

Silver Contacts Model	Type	Act. Code	P. M8	↖	↓	↗	Silver Contacts Model	Type	Act. Code	P. M8	↖	↓	↗
A101J2AQ0	SPDT	1	On	None	On		A201J2AQ0	DPDT	2	On	None	On	
A103J2AQ0	SPDT	5	On	Off	On		A203J2AQ0	DPDT	6	On	Off	On	
A105J2AQ0	SPDT	5	(On)	Off	(On)		A205J2AQ0	DPDT	6	(On)	Off	(On)	
A107J2AQ0	SPDT	5	On	Off	(On)		A207J2AQ0	DPDT	6	On	Off	(On)	
A108J2AQ0	SPDT	1	On	None	(On)		A208J2AQ0	DPDT	2	On	None	(On)	

"A" Series Miniature Rockers
Refer to Page E12-E17 For Additional Options

The Gemini Series

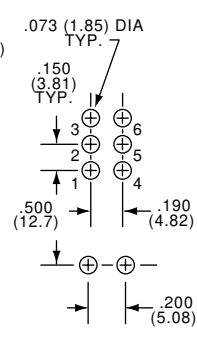
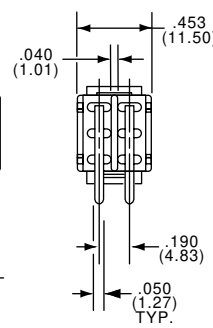
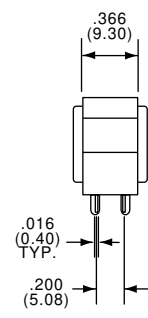
SEE PAGE E8 FOR PRODUCT SPECIFICATIONS



A101J1AV2Q0

SPDT

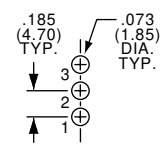
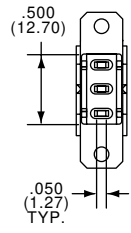
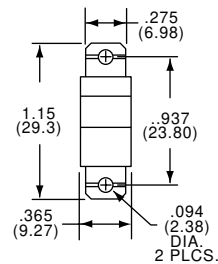
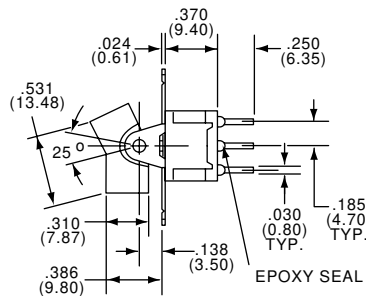
Silver Contacts		Type	Act. Code	P. M8			
Model					On	None	On
A101J1AV2Q0	SPDT	1	On	None	On		
A105J1AV2Q0	SPDT	5	(On)	Off	(On)		
A107J1AV2Q0	SPDT	5	On	Off	(On)		
A201J1AV2Q0	DPDT	2	On	None	On		
A205J1AV2Q0	DPDT	6	(On)	Off	(On)		
A208J1AV2Q0	DPDT	2	On	None	(On)		



A205J1AV2Q0

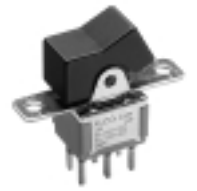
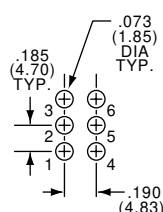
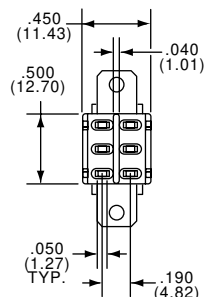
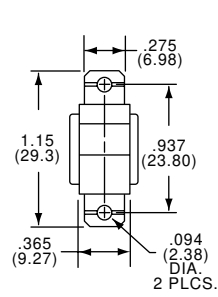
Standard Rocker Color - (Black)

DPDT



A101J1CQ0

SPDT



A201J1CQ0

Standard Rocker Color - (Black)

DPDT

Silver Contacts		Type	Act. Code	P. M8			
Model					On	None	On
A101J1CQ0	SPDT	1	On	None	On		
A105J1CQ0	SPDT	5	(On)	Off	(On)		
A201J1CQ0	DPDT	2	On	None	On		
A203J1CQ0	DPDT	6	On	Off	On		
A205J1CQ0	DPDT	6	(On)	Off	(On)		
A207J1CQ0	DPDT	6	On	Off	(On)		

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

The Gemini Series "A" Series Miniature Rockers

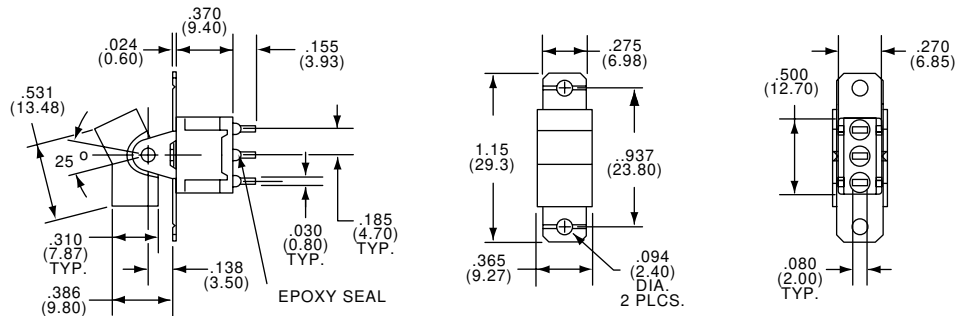
Refer to Pages E12-E17 For Additional Options

SEE PAGE E8 FOR PRODUCT SPECIFICATIONS

SPDT



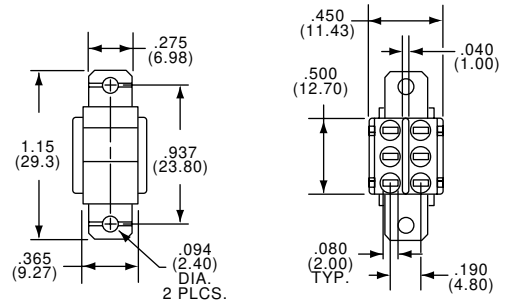
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DPDT



A201J1ZQO



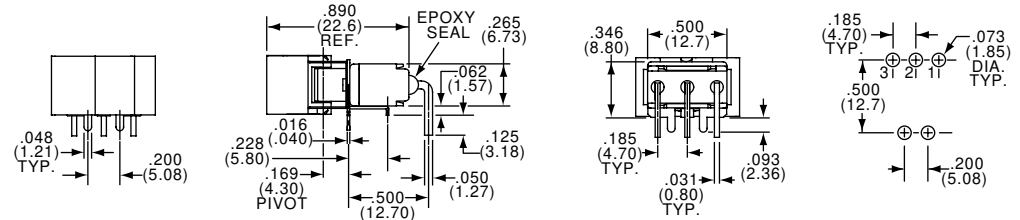
Standard Rocker Color - (Black)

Silver Contacts						Silver Contacts							
Model	Type	Act. Code.	P. M8	On	None	On	Model	Type	Act. Code.	P. M8	On	None	On
A101J1ZQO	SPDT	1		On	None	On	A201J1ZQO	DPDT	2		On	None	On
A103J1ZQO	SPDT	5		On	Off	On	A203J1ZQO	DPDT	6		On	Off	On
A105J1ZQO	SPDT	5	(On)	Off	(On)	(On)	A205J1ZQO	DPDT	6	(On)	Off	(On)	(On)
A107J1ZQO	SPDT	5		On	Off	(On)	A207J1ZQO	DPDT	6		On	Off	(On)
A108J1ZQO	SPDT	1		On	None	(On)	A208J1ZQO	DPDT	2		On	None	(On)

SPDT



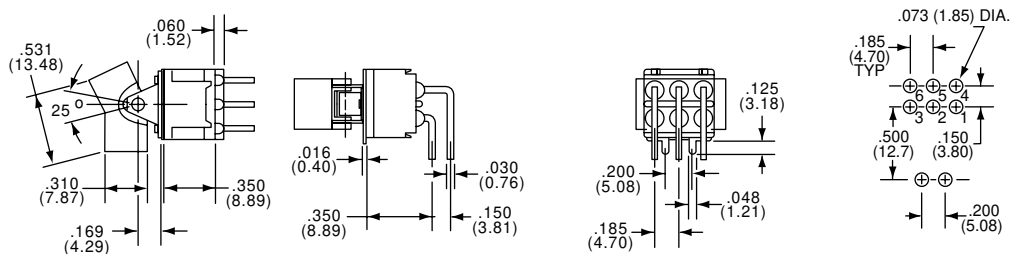
A101J1AQO



DPDT



A201J1AQO



Standard Rocker Color - (Black)

Silver Contacts						Silver Contacts							
Model	Type	Act. Code.	P. M8	On	None	On	Model	Type	Act. Code.	P. M8	On	None	On
A101J1AQO	SPDT	1		On	None	On	A201J1AQO	DPDT	2		On	None	On
A105J1AQO	SPDT	5		(On)	Off	(On)	A203J1AQO	DPDT	6		On	Off	On
A107J1AQO	SPDT	5		On	Off	(On)	A205J1AQO	DPDT	6	(On)	Off	(On)	(On)

Thomas & Betts

Quality & Innovation From **AUGAT** Name Brand Products

E10

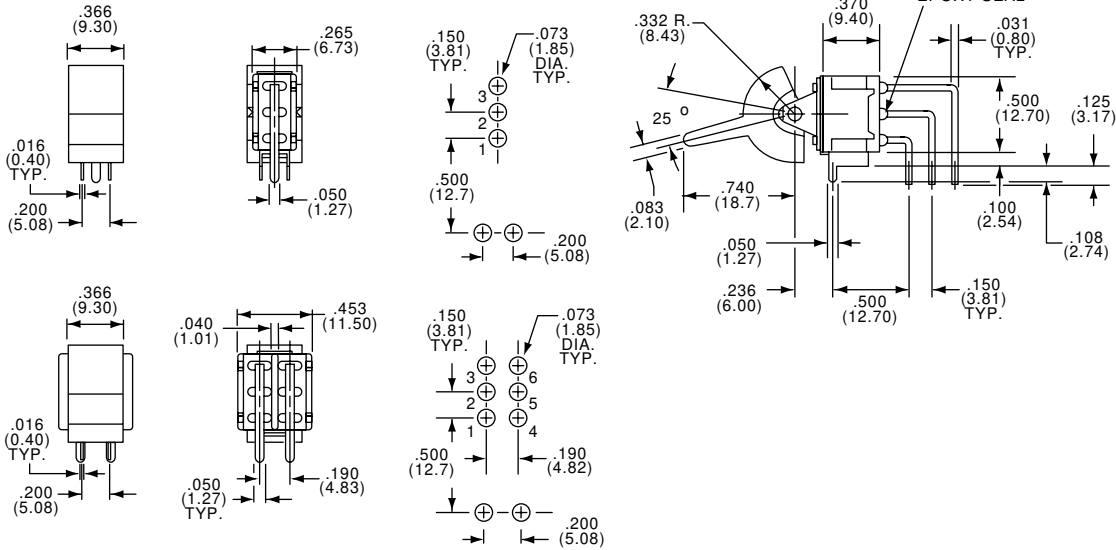
Thomas & Betts
8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

"A" Series Paddles The Gemini Series

Refer to Page E12-E17 For Additional Options

SEE PAGE E8 FOR PRODUCT SPECIFICATIONS

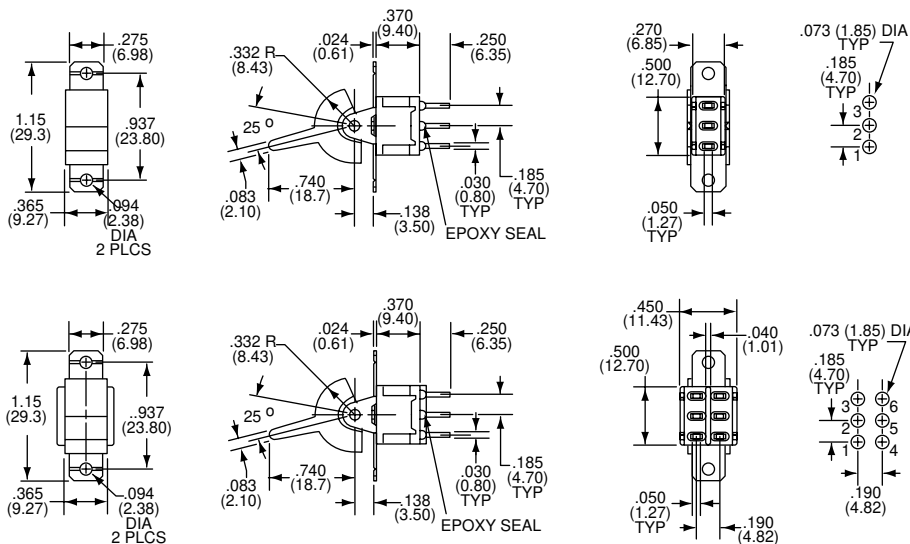
SPDT / DPDT



A105J2AV2Q0

Standard Paddle Color - (Black)

Silver Contacts Model	Type	Act. Code	P. M8	On	None	On	Silver Contacts Model	Type	Act. Code	P. M8	On	None	On
A101J2AV2Q0	SPDT	1		On	None	On	A201J2AV2Q0	DPDT	2		On	None	On
A105J2AV2Q0	SPDT	5		(On)	Off	(On)							



A105J2CQ0



A205J2CQ0

Silver Contacts Model	Type	Act. Code	P. M8	On	None	On	Silver Contacts Model	Type	Act. Code	P. M8	On	None	On
A105J2CQ0	SPDT	5		(On)	Off	(On)	A201J2CQ0	DPDT	2		On	None	On
							A205J2CQ0	DPDT	6		(On)	Off	(On)

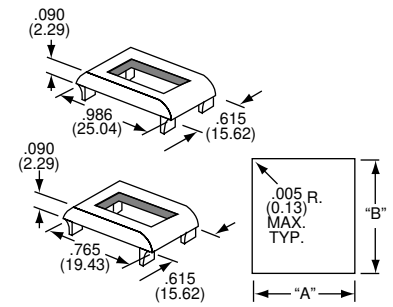
Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

Thomas & Betts
8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380



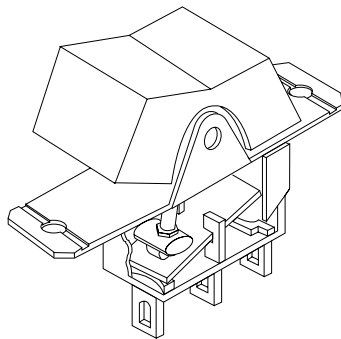
The Gemini Series "A" Series Miniature Rockers/Paddles



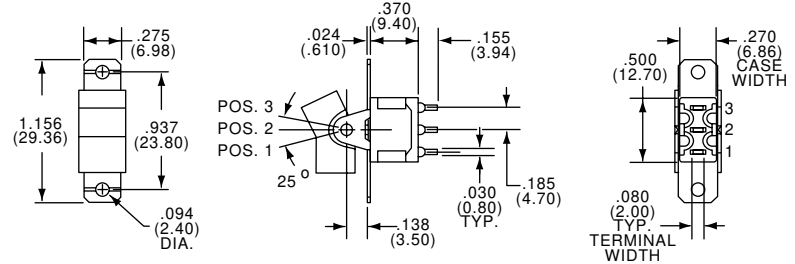
BEZELS FOR ROCKER AND PADDLE SWITCHES

Model	Panel Dimensions		(*) Specify Colors
	A	B	
B10(*)	.797-.803 (20.24)-(20.40)	.495-.505 (12.57)-(12.83)	(0) Black, (1) Brown, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (8) Gray & (9) White
B20(*)	.595-.605 (15.11)-(15.37)	.495-.500 (12.57)-(12.70)	(0) Black, (1) Brown, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (8) Gray & (9) White

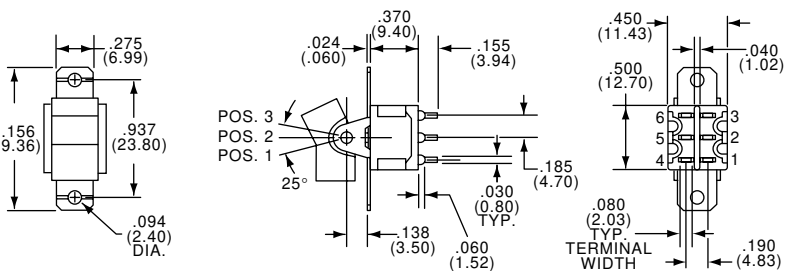
DESIGN



SP



DP



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	1 Brown	1 Brown	
01	On-On	J15 Snap-in	AV2 Vert. Right Angle	G Gold over Silver	2 Red	2 Red	
03	On-Off-On	J16 Snap-in w/beveled frame	C Printed Circuit		3 Orange	3 Orange	
05	(On)-Off-(On)	J50 Snap-in	V5 Vertical Right Angle		4 Yellow	4 Yellow	
07	On-Off-(On)	J51 Snap-in w/beveled frame	V3 V4 V6 Vertical Support Bracket		5 Green	5 Green	
08	On-(On)	J52 Snap-in w/beveled frame LED	V7 V8 V9		6 Blue	6 Blue	
11	On-On-On	J2 Small	W W1 W3 W4 W5		8 Gray	8 Gray	
13	On-On-(On)	J4 Large	Z3 Quick Connect		9 White	9 White	
15	(On)-On-(On)	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

See pages M2-M4 for application specific indexing.

"A" Series Miniature Rockers/Paddles The Gemini Series

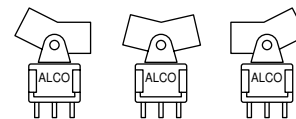
FUNCTIONS

The following functions available in SP or DP.

01	2 Positions	None indicates no mechanical position
03	3 Positions	
05	3 Positions	Off indicates a mechanical position with no electrical connection.
07	3 Positions	
08	2 Positions	(On) indicates momentary action.

SPDT, connect terminals:

DPDT, connect terminals:



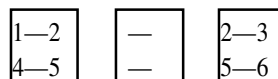
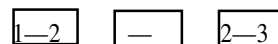
On None On

On Off On

(On) Off (On)

(On) Off On

(On) None On



11 3 Positions

13 3 Positions

15 3 Positions

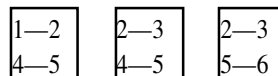
On On On

(On) On On

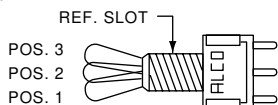
(On) On (On)

Functions available in DP only: Connect terminals:

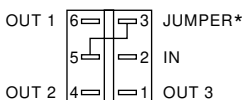
SP3T Available in DP format only



Wiring Diagram for Functions

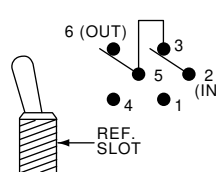


SINGLE POLE 3 POSITION

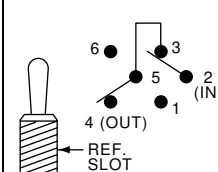


SP3T function achieved with external jumpers.
* Installed by Customer

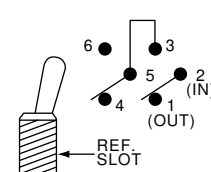
POS. 1



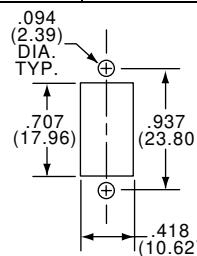
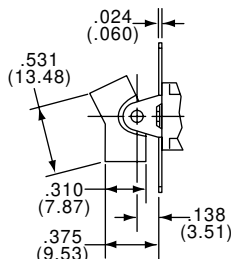
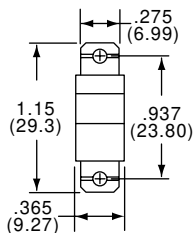
POS. 2



POS. 3

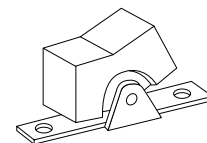


11 **13** **15**

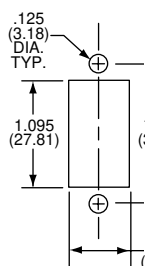
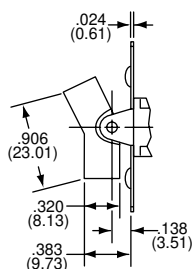
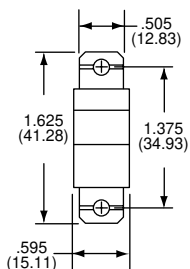


ACTUATORS

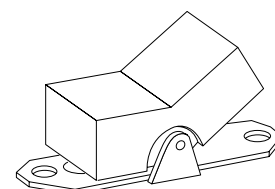
Rockers J1
Small



Use beveled frame B100 for enhancement (Pg.E12) when ordering with terminations other than C or Z.



J3
Large



Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

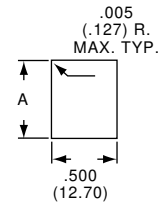
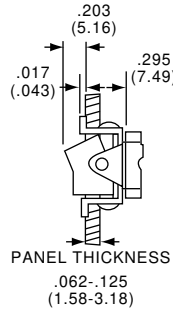
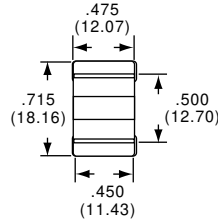
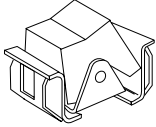


The Gemini Series "A" Series Miniature Rockers/Paddles

ROCKER

J50

Snap-in

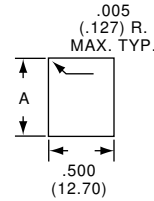
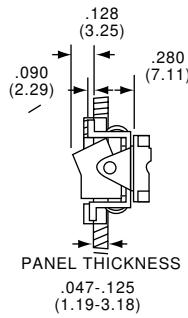
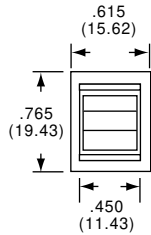
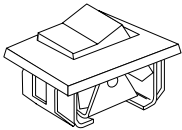


Use Beveled Frame B200 for enhancement (Pg. E12) when ordering with terminations other than C or Z.

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

J51

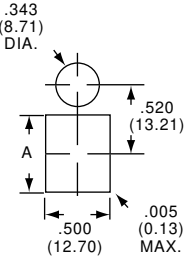
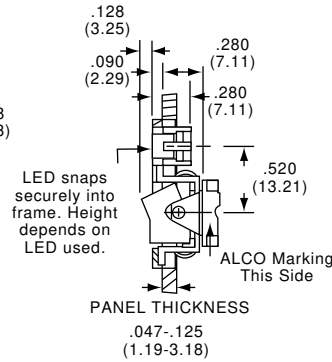
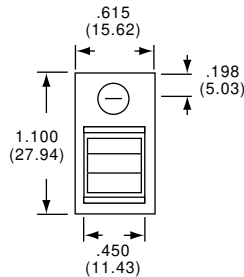
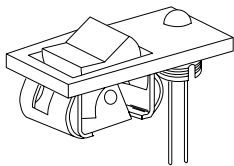
Snap-in with beveled frame



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

J52

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



L.E.D. Not supplied.

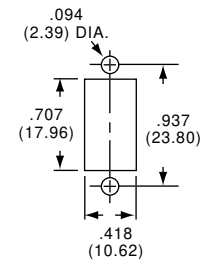
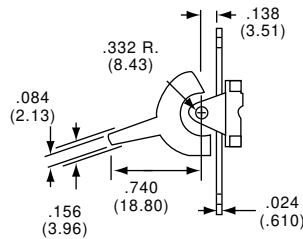
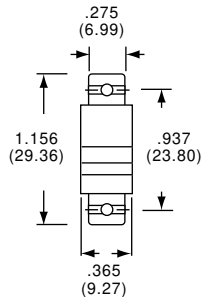
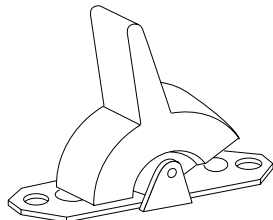
Accepts BL-17 or equivalent LED

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

PADDLE

J2

Small



Use Beveled frame B100 for enhancement (Pg. E12) when ordering with terminations other than C or Z.

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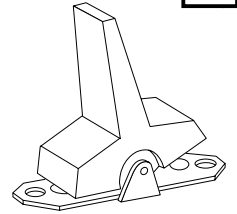
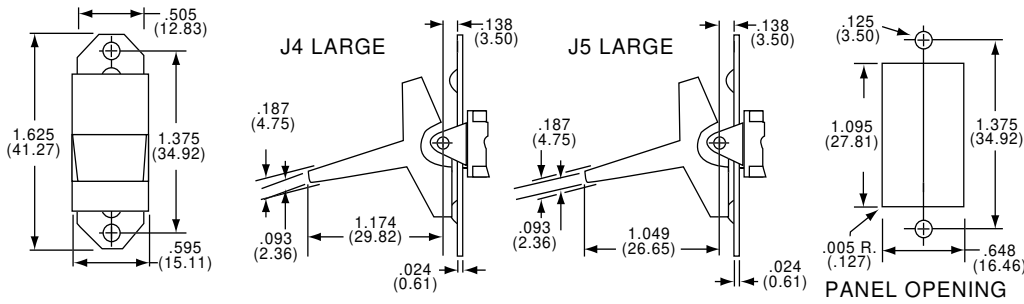
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E14

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Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

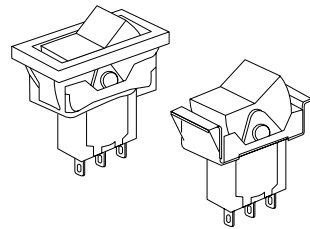
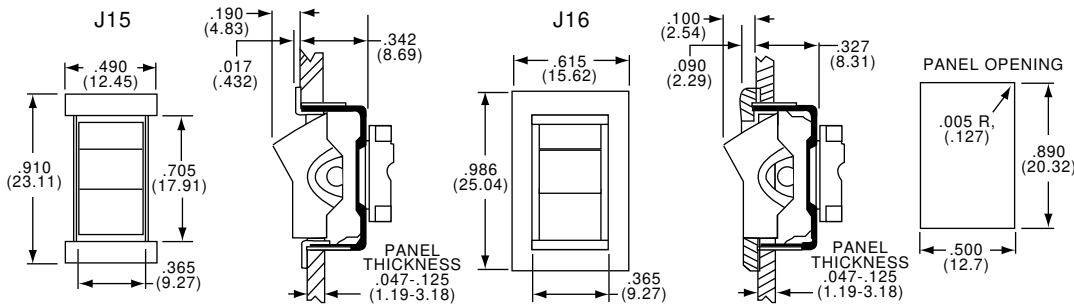
"A" Series Miniature Rockers/Paddles The Gemini Series

J4
J5

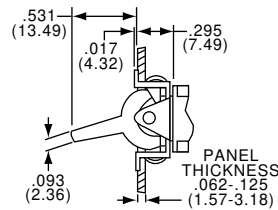
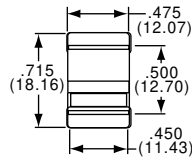
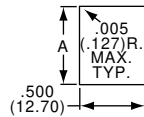


Snap-In **J15**

Snap-in with beveled frame **J16**



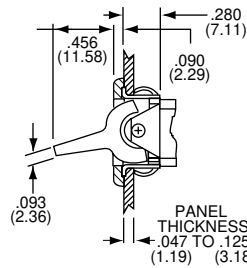
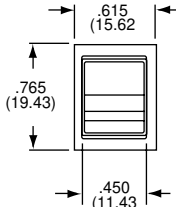
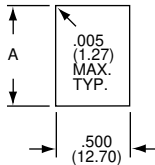
Snap-in **J60**



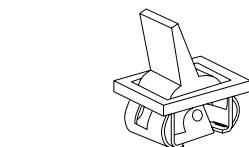
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625

Use Beveled Frame B200 for enhancement (Pg. E12) when ordering with terminations other than C or Z.

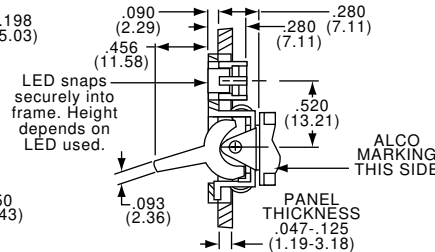
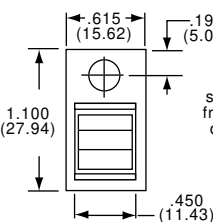
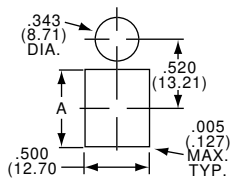
Snap-in with beveled frame **J61**



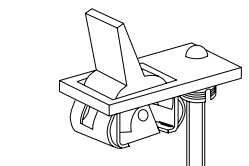
	Panel Opening		
Panel Thickness	.062	.093	.125
"A"	.600-.605	.610-.615	.620-.625



Snap-in with beveled frame/LED **J62**



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



Accepts BL-17 or equivalent LED

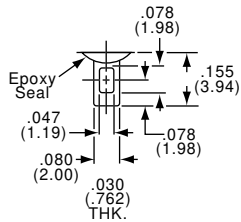
Need more technical information?
Consult your Thomas & Betts
sales office listed on the back cover

The Gemini Series "A" Series Miniature Rockers/Paddles

TERMINALS

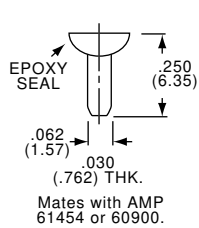
Z

Wire Lug Standard



Z3

Quick Connect



W

W1

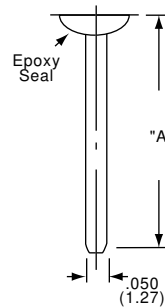
W3

W4

W5

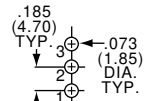
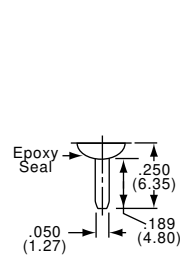
Wire Wrap

	"A"
W	.750
W1	.964
W3	.425
W4	1.062
W5	1.305

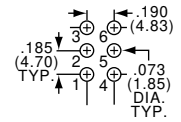


C

Printed Circuit



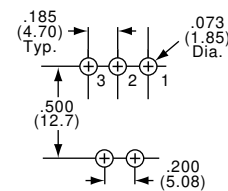
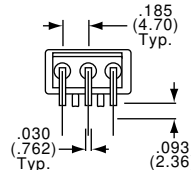
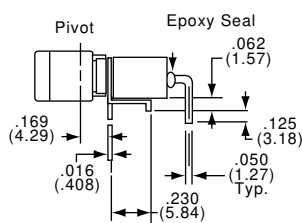
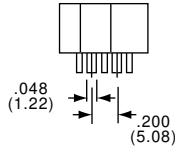
SINGLE POLE



DOUBLE POLE

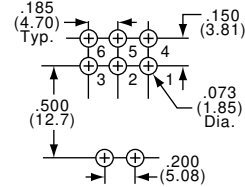
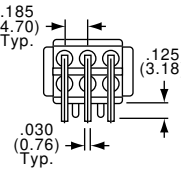
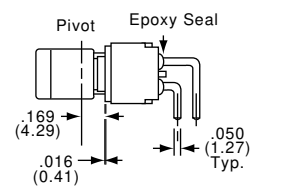
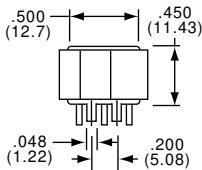
A

Right Angle Single Pole



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

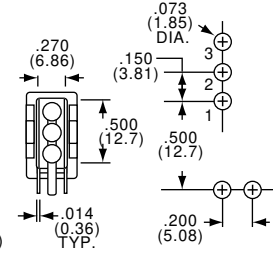
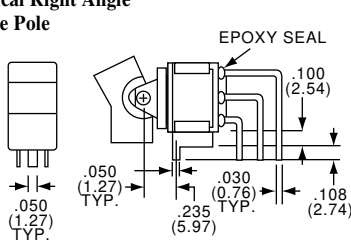
Right Angle Double Pole



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

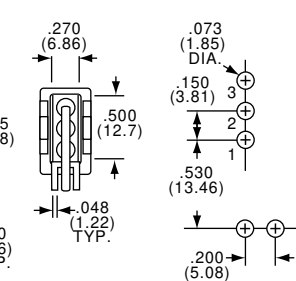
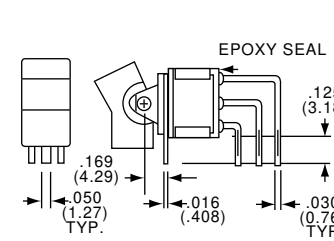
AV2

Vertical Right Angle Single Pole



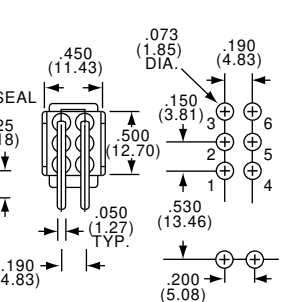
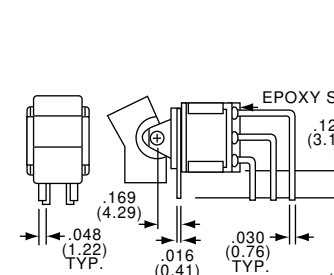
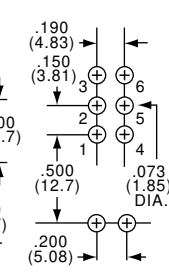
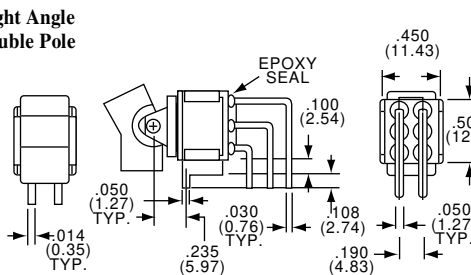
V5

Vertical Right Angle Double 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.

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E16

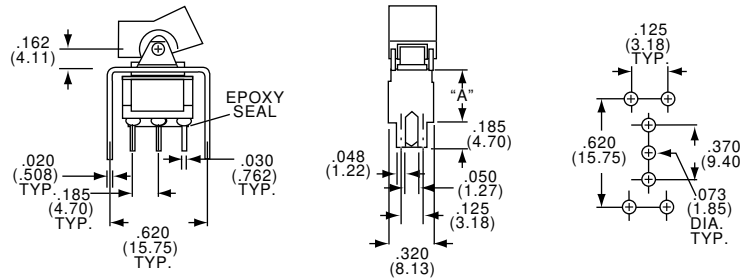
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8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

"A" Series Miniature Rockers/Paddles The Gemini Series

V3 V4 V9

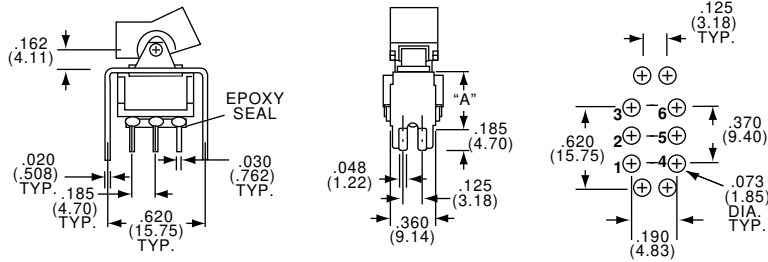
**Vertical Support Bracket
Single Pole**

Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)
V9	1.150 (29.21)



**Vertical Support Bracket
Double Pole**

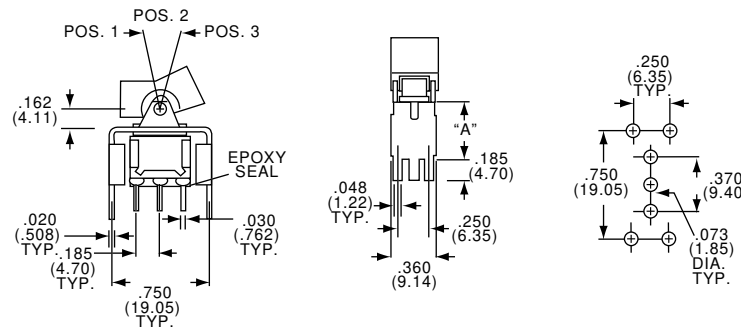
Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)
V9	1.150 (29.21)



V6 V7 V8

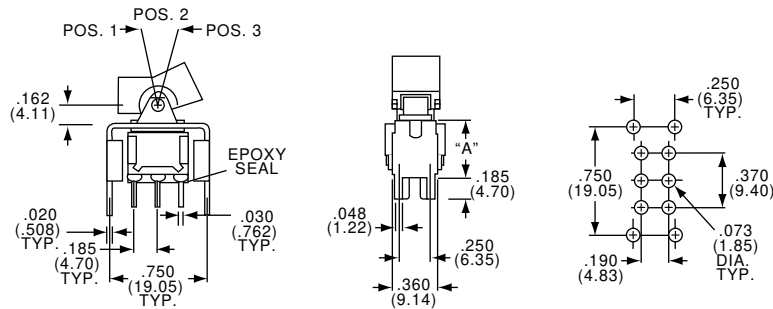
**Vertical Support Bracket
Single Pole**

Option Code	Dim. "A"
V6	.460 (11.68)
V7	.630 (16.00)
V8	.953 (24.21)



**Vertical Support Bracket
Double Pole**

Option Code	Dim. "A"
V6	.460 (11.68)
V7	.630 (16.00)
V8	.953 (24.21)



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, 5 A @ 28 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, 5 A @ 28 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)

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

The Gemini Series "AE" Series Washable Rockers/Paddles

MATERIAL SPECIFICATIONS:

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

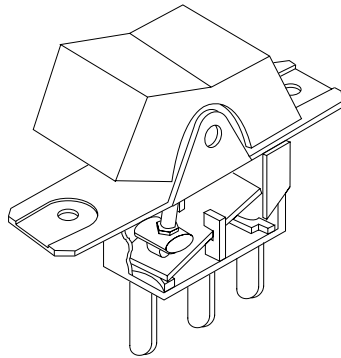
ENVIRONMENTAL SPECIFICATIONS:

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.

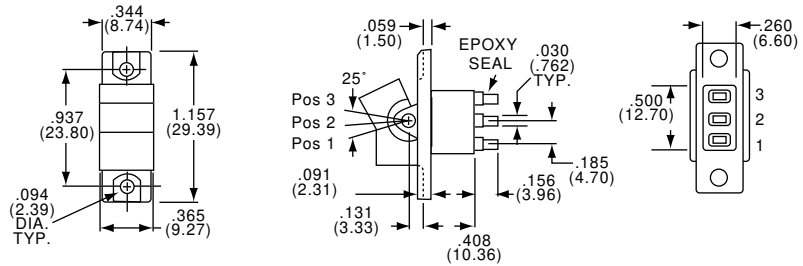
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Silver: 2 A @ 250 VAC, 5 A @ 125 VAC
 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 30,000 Cycles
 Actuator Travel 25°
 Contact Timing Break before make

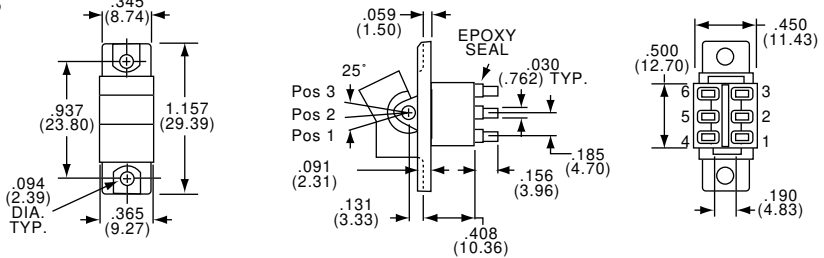
DESIGN



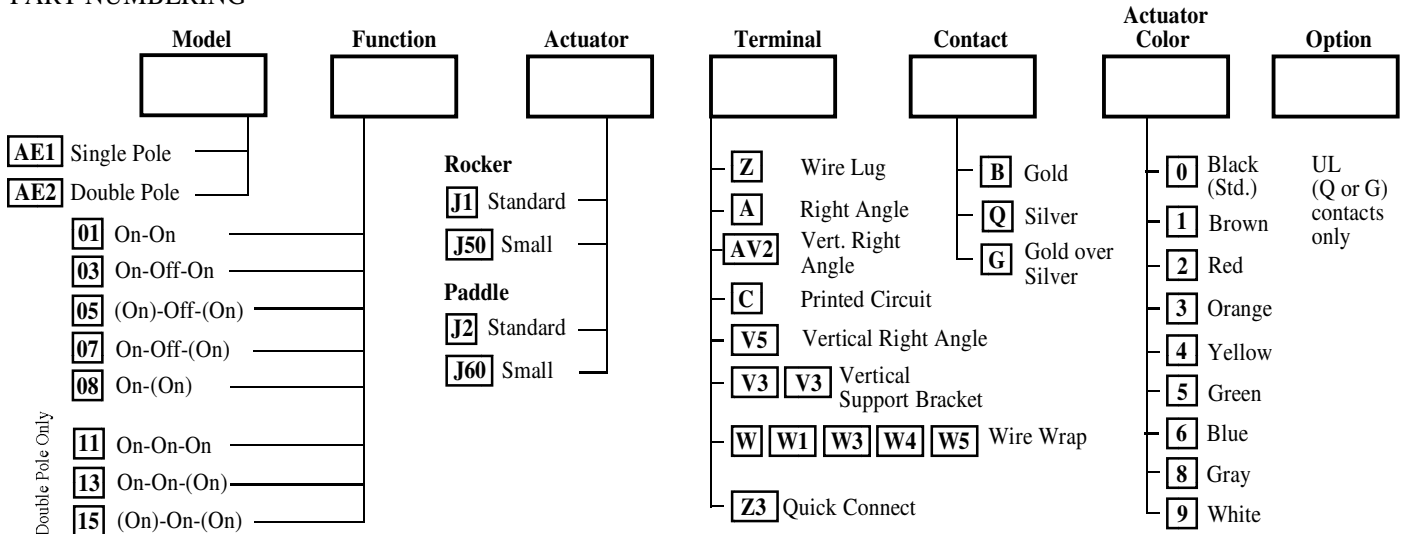
SP



DP



PART NUMBERING



U.L. Available upon request

See pages M2-M4 for application specific indexing.

OPTIONAL:

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

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"AE" Series Washable Rockers/Paddles The Gemini Series

FUNCTIONS

The following functions available in SP or DP.

01 2 Positions None indicates no mechanical position

03 3 Positions

05 3 Positions Off indicates a mechanical position with no electrical connection.

07 3 Positions

08 2 Positions (On) indicates momentary action.

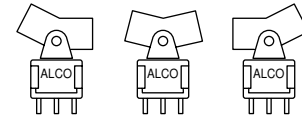
SPDT, connect terminals:

DPDT, connect terminals:

11 3 Positions

13 3 Positions

15 3 Positions



On None On

On Off On

(On) Off (On)

(On) Off On

(On) None On

1-2 — 2-3

1-2 — 2-3
4-5 — 5-6

On On On

(On) On On

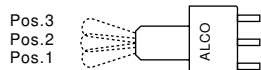
(On) On (On)

1-2 2-3 2-3
4-5 4-5 5-6

Functions available in DP only: Connect terminals:

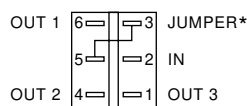
SP3T Available in DP Format Only

Wiring Diagrams for Functions



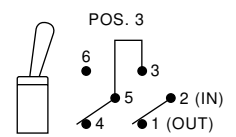
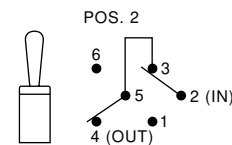
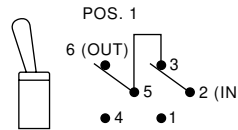
11 **13** **15**

SINGLE POLE 3 POSITION

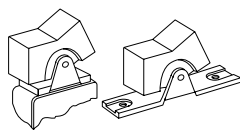


SP3T function achieved with external jumpers.

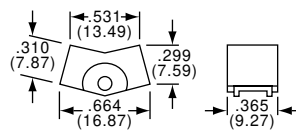
* Installed by Customer



J1 Rocker

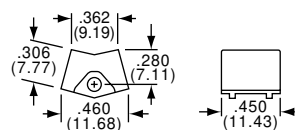


Use beveled frame B200 for enhancement (Pg. E12) when ordering with terminations other than C or Z.



Unless otherwise specified by terminal type, the panel mounting bracket will be supplied.

Use beveled frame B100 for enhancement (Pg. E12) when ordering with terminations other than C or Z.

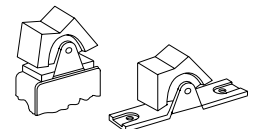


Unless otherwise specified by terminal type, the panel mounting bracket will be supplied.

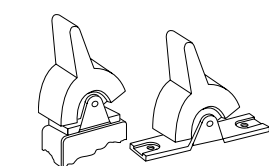
ACTUATORS

J50

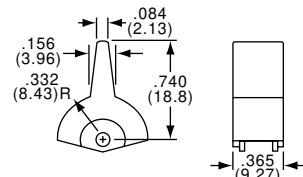
Rocker



J2 Paddle

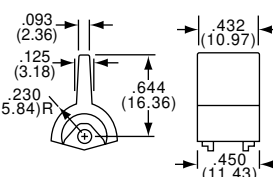


Use beveled frame B100 for enhancement (Pg. E12) when ordering with terminations other than C or Z.



Unless otherwise specified by terminal type, the panel mounting bracket will be supplied.

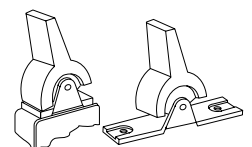
Use beveled frame B200 for enhancement (Pg. E12) when ordering with terminations other than C or Z.



Unless otherwise specified by terminal type, the panel mounting bracket will be supplied.

J60

Paddle



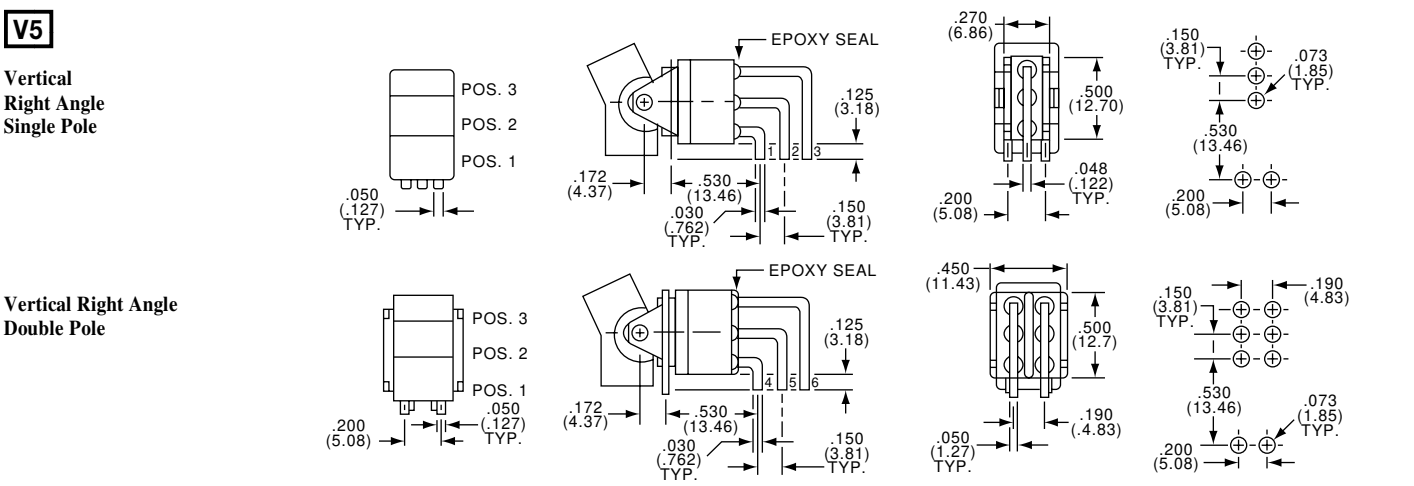
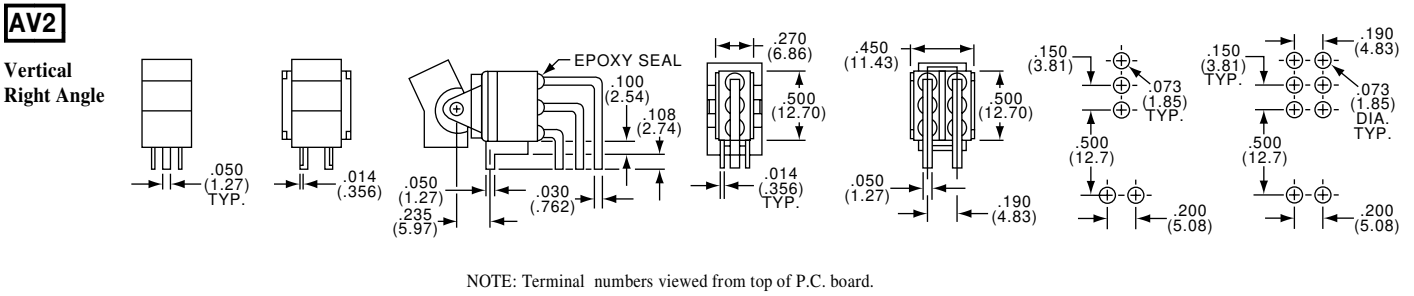
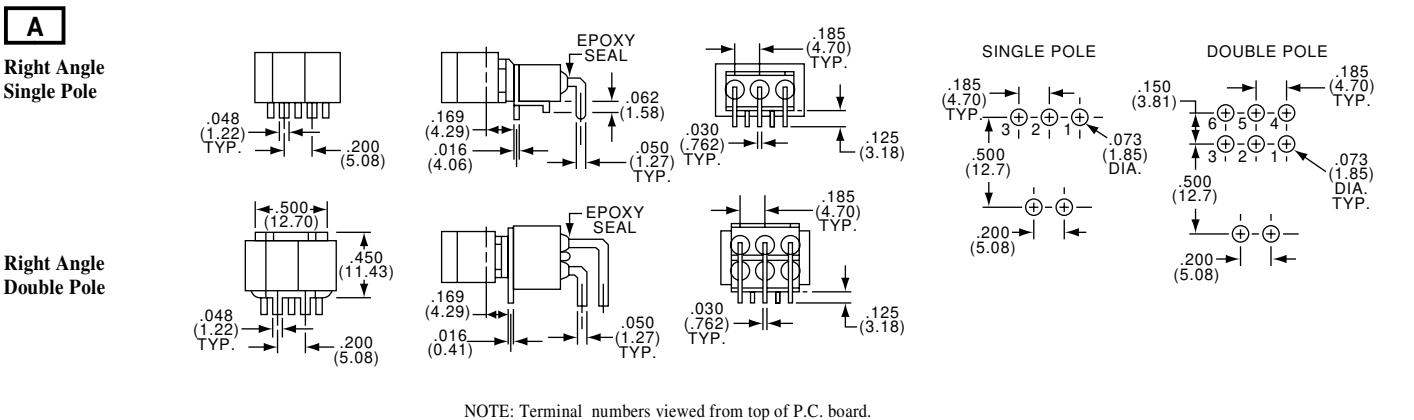
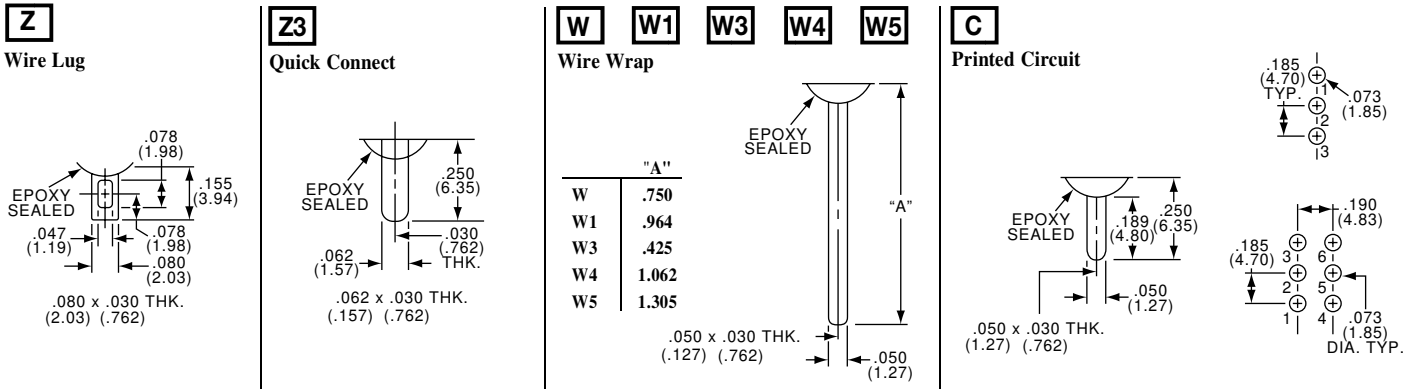
Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover



The Gemini Series "AE" Series Washable Rockers/Paddles

TERMINALS

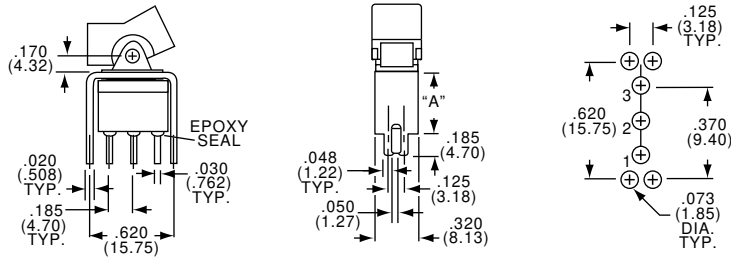


"AE" Series Washable Rockers/Paddles The Gemini Series

V3 V4 V9

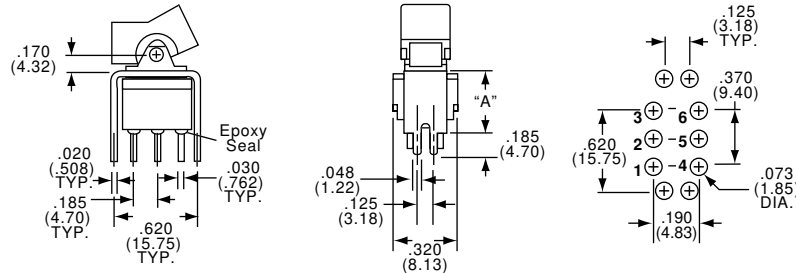
**Vertical Support Bracket
Single Pole**

Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)
V9	1.150 (29.21)



**Vertical Support Bracket
Double Pole**

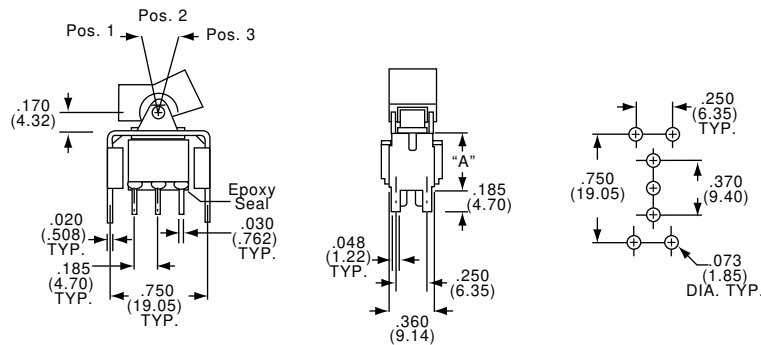
Option Code	Dim. "A"
V3	.460 (11.68)
V4	.630 (16.00)
V9	1.150 (29.21)



V6 V7 V8

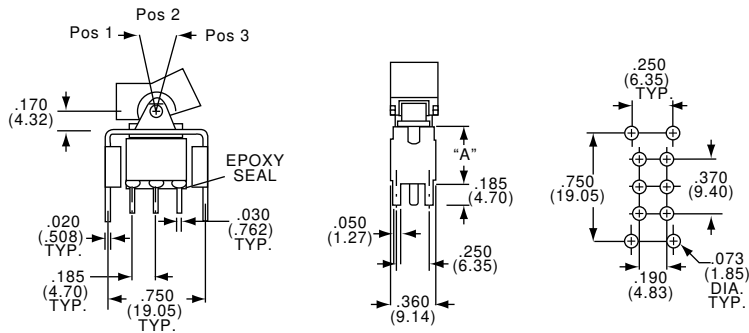
**Vertical Support Bracket
Single Pole**

Option Code	Dim. "A"
V6	.460 (11.68)
V7	.630 (16.00)
V8	.953 (24.21)



**Vertical Support Bracket
Double Pole**

Option Code	Dim. "A"
V6	.460 (11.68)
V7	.630 (16.00)
V8	.953 (24.21)



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, 5 amps @ 28 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, 5 amps @ 28 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)

Need more technical information?

Consult your Thomas & Betts sales office listed on the back cover

E21

Thomas & Betts
8155 T&B Blvd.
Memphis, TN 38125
(901) 252-5000 FAX (901) 252-1380

MHV Series *Mini Rocker & Paddle w/Vertical Support*



MATERIAL SPECIFICATIONS:

Contacts Gold flash over solid silver
 Case Material Thermoset 94V-0
 Actuator Material Polyamide
 Terminals Gold flash
 Terminal Seal Insert molded

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 6 A @ 125 VAC, 3 A @ 250 VAC,
 4 A @ 28 VDC
 Initial Contact Resistance 10 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min.
 Dielectric Strength 1,500 Volts RMS @ sea level
 Actuator Travel 24°
 Life Expectancy Actuation Code 1 - 80,000 Cycles

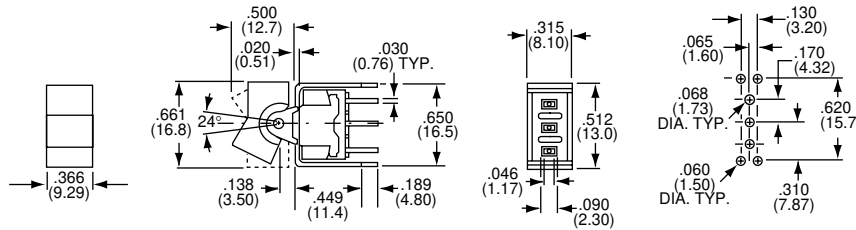
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -40°F to -176°F (-40°C to +80°C)

SPDT



MHV106DPC10M0



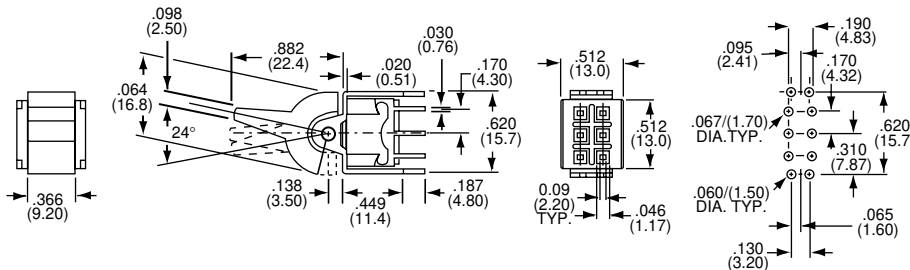
Model	Type	Act. Code	P. M8				Actuator Type
MHV106DPC10()(*)	SPDT	1		On	None	On	Rocker
MHV106FPC10()(*)	SPDT	1		On	None	(On)	Rocker
MHV206NPC10()(*)	DPDT	2		On	None	On	Rocker
MHV206RPC10()(*)	DPDT	2		On	None	(On)	Rocker

() Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green, (6) Blue, (8) Grey, (9) White.
 (On) indicates momentary position.

DPDT



MHV206NPC20M2

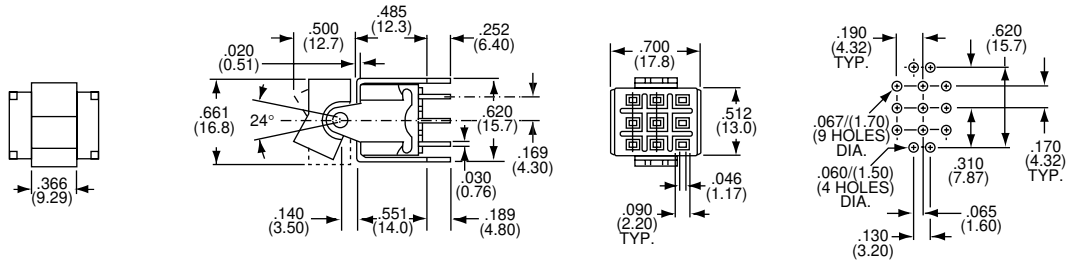


Model	Type	Act. Code	P. M8				Actuator Type
MHV106DPC20()(*)	SPDT	1		On	None	On	Paddle
MHV206NPC20()(*)	DPDT	2		On	None	On	Paddle

() Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green, (6) Blue, (8) Grey, (9) White.

SEE PAGE E22 FOR PRODUCT SPECIFICATIONS

3PDT

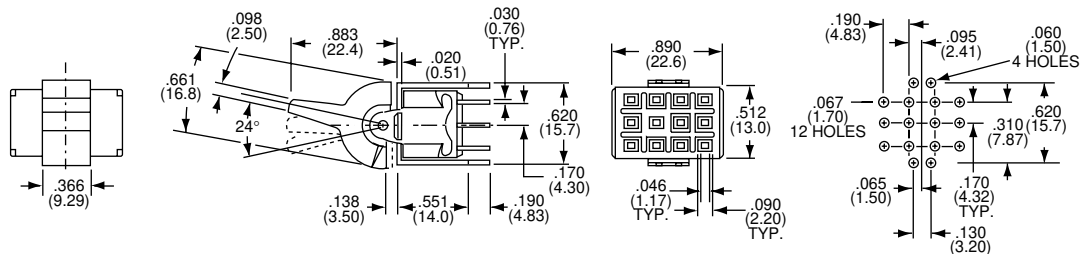


MHV30610M

Model	Type	Act. Code	P. M8				Actuator Type
MHV306DPC10()(*)	3PDT	3		On	None	On	Rocker
MHV406NPC10(*)	4PDT	4		On	None	On	Rocker

() Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green, (6) Blue, (8) Grey, (9) White.

4PDT



MHV406NPC20M

Model	Type	Act. Code	P. M8				Actuator Type
MHV306DPC20()(*)	3PDT	3		On	None	On	Paddle
MHV306FPC20()(*)	3PDT	3		On	None	(On)	Paddle
MHV406NPC20(*)	4PDT	4		On	None	On	Paddle

(On) indicates momentary position.
 () Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green, (6) Blue, (8) Grey, (9) White.

Need more technical information?
 Consult your Thomas & Betts
 sales office listed on the back cover



MRV Series *Rocker & Paddle w/Vertical Support*



MATERIAL SPECIFICATIONS:

Contacts Copper with gold flash over silver
 Case Material Thermoset
 Actuator Material Polycarbonate resin
 Terminals Copper with gold flash
 Terminal Seal Insert molded

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating 6 A @ 125 VAC, 3 A @ 250 VAC,
 4 A @ 28 VDC
 Initial Contact Resistance 10 Milliohms max.
 Contact Timing Break-before-make
 Insulation Resistance 1,000 Megohms min.
 Dielectric Strength 1,500 Volts RMS @ sea level
 Actuation Force 0.05 to 1.5 Kg.
 Actuator Travel 24°

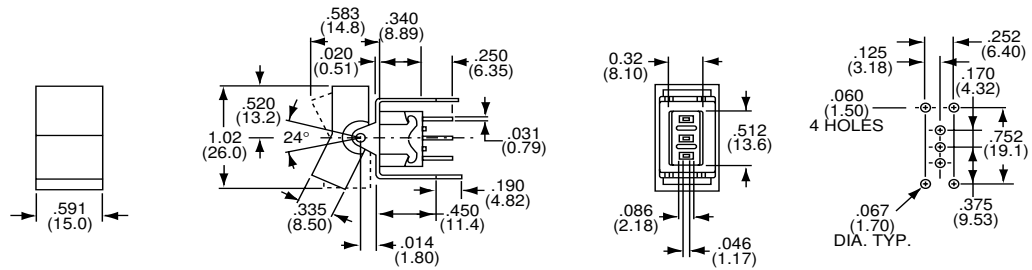
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -40°F to +176°F (-40°C to +80°C)

SPDT



MRV106DPC309



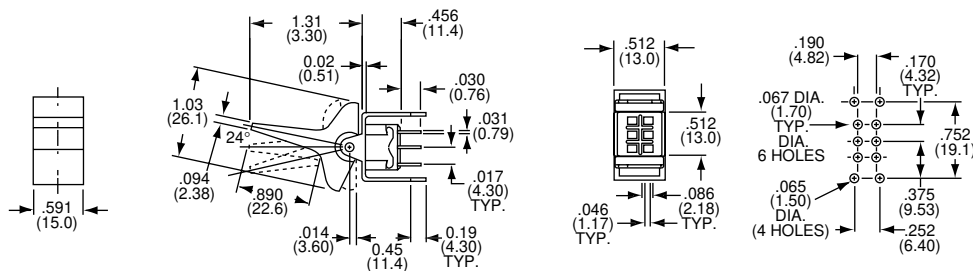
Model	Type	Act. Code	P. M8				Actuator Type
MRV106DPC30()(*)	SPDT	1		On	None	On	Rocker
MRV106FPC30()(*)	SPDT	1		On	None	(On)	Rocker
MRV206NPC30()(*)	DPDT	2		On	None	On	Rocker
MRV206PPC30()(*)	DPDT	6		On	Off	On	Rocker

() Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange (matte paddle only), (6) Blue (matte rocker only), (8) Grey, (9) White,
 (On) indicates momentary position.

DPDT



MRV206NPC40MO

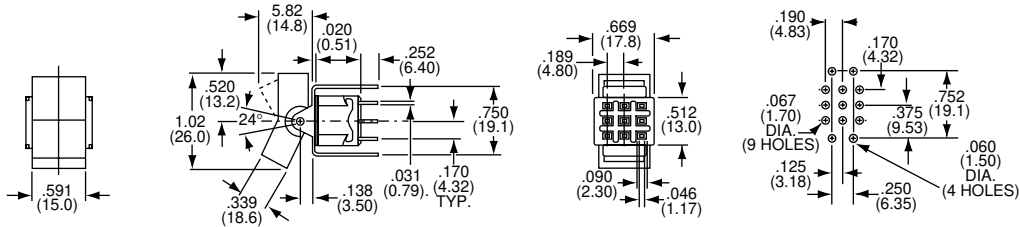


Model	Type	Act. Code	P. M8				Actuator Type
MRV206PPC40()(*)	DPDT	6		On	Off	On	Paddle

() Indicate M for Matte. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange (matte paddle only), (6) Blue (matte rocker only), (8) Grey, (9) White,

SEE PAGE E24 FOR PRODUCT SPECIFICATIONS

3PDT

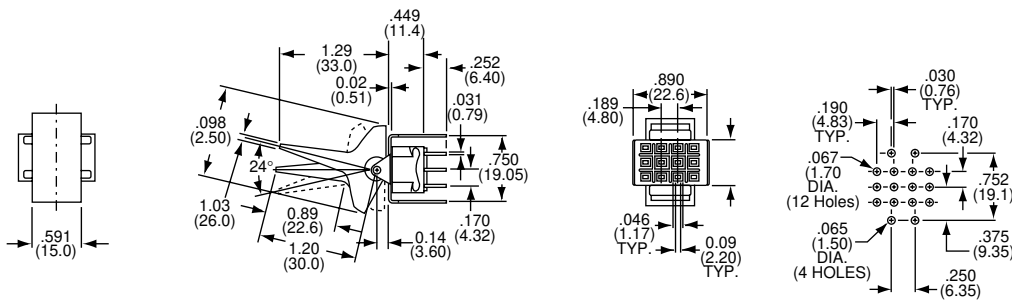


MRV306DPC30

Model	Type	Act. Code	P. M8				Actuator Type
MRV306DPC30(*)	3PDT	3		On	None	On	Rocker
MRV406NPC30(*)	4PDT	4		On	None	On	Rocker

() Indicate M for Matte Actuators. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange (matte paddle only), (6) Blue (matte rocker only), (8) Grey, (9) White.

4PDT



MRV406NPC40

Model	Type	Act. Code	P. M8				Actuator Type
MRV306DPC40(*)	3PDT	3		On	None	On	Paddle
MRV406NPC40(*)	4PDT	4		On	None	On	Paddle

() Indicate M for Matte Actuators. Leave blank for glossy.
 (*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange (matte paddle only), (6) Blue (matte rocker only), (8) Grey, (9) White.

Need more technical information?
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