# Ordering Table — Standard Rocker & Paddle Switches

**HOW TO ORDER YOUR DESIGN** (**Bold** Face Type indicates items normally in Distributor Stock)

Following the table from left to right, the designer is able to specify the options wanted. The options are described and illustrated on pages 24-31. Refer to page 57 for mounting hardware.

To determine a part number select the options desired and fill in the boxes in the selection guides illustrated below.

**Rocker Switch Selection Guide**

Rocker Switch Series + Poles and Throw + Circuit + Actuator + Terminal Type + Contact Material + Actuator Color + Bezels + Other

| Series | Poles and Throw | | Circuits ⓫ | | | | Actuator Options | | Terminal Options ⑥ | | Contact Material | | Actuator Color | | Bezels | | Other Option |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Code | Description | | | Code | Type | Code | Type | Code | Type | Code | Color | Code | Type | Code | Type |
| B | SPDT | 1 | | | POS. "C" | | Rocker ⑦ (Screw Mount) | J1 | Right Angle PC ⑩ | A | gold/brass | B | Dark Gray ④ | 0 | Bright Chrome ③ | 1M | Epoxy Sealed ⑥ Terminals |
| | DPDT | 2 | ON | OFF | ON | 21 | Paddle ⑦ (Screw Mount) | J2 | Vertical PC .100 Spacing | AV1 | gold/silver | G | White | 1 | Black ③ | 2M | |
| | 3PDT | 3 | ON | NONE | ON | 23 | Rocker ⑦ (Screw Mount) | J3 | Vertical PC .150 Spacing | AV2 | coin silver | Q | Black | 2 | Satin Chrome ③ | 3M | |
| | 4PDT | 4 | ON | NONE | ON* | 26 | Paddle ⑦ (Screw Mount) | J5 | | | ⑫ | K | Red | 3 | White ② | 1P | |
| | | | ON* | OFF | ON* | 27 | Snap-In Mount ⑦ Rocker With Bezel | J11 | PC Terminals | C | ⑫ | L | Green ④ | 5 | Black ② | 2P | |
| | | | ON | OFF | ON* | 31 | | | PC & Support ① | V3 | ⑫ | M | Blue ④ | 6 | Red ② | 3P | |
| | | | ON | ON | ON | 32 | Snap-In Mount ⑦ Paddle With Bezel | J21 | PC & Support ① | V4 | | | Light Gray ④ | 8 | Black w/LED ② | 4P | |
| | | | ON | ON | ON* | 33 | Large ⑦ Snap-In Mount Rocker With Bezel | J37 | Vertical PC .150 Spacing | V5 | | | Yellow ④ | 9 | Green ②④ | 5P | |
| | | | NONE | ON | ON* | 34 ⑤ | Large ⑦ Snap-In Mount Paddle With Bezel | J47 | PC & Support ① | V6 | | | Brown ④ | 10 | Blue ②④ | 6P | |
| | | | ON* | ON | ON* | 35 | | | PC & Support ① | V7 | | | | | Light Gray ②④ | 8P | |
| | | | NONE | ON | ON | 53 ⑤ | Snap-In Rocker ①⑦ | J50 | .750 Wire Wrap | W | | | | | Yellow ②④ | 9P | |
| | | | | | | | Snap-In Rocker ①⑦ | J53 | .964 Wire Wrap | W1 | | | | | Dark Gray ②④ | 0P | |
| | | | | | | | Snap-In Paddle ①⑦ | J60 | .425 Wire Wrap | W3 | | | | | | | |
| | | | | | | | Snap-In Paddle ①⑦ | J63 | 1.062 Wire Wrap | W4 | | | | | | | |
| | | | | | | | Rocker Actuator ⑨ | J71 | Solder Lugs | Z | | | | | | | |
| | | | | | | | Paddle Actuator ⑨ | J72 | | | | | | | | | |
| | | | | | | | Rocker Actuator ⑨ | J73 | Quick Connect | Z3 | | | | | | | |
| | | | | | | | Paddle Actuator ⑨ | J75 | | | | | | | | | |
| | | | | | | | Rocker Actuator ⑨ | J76 | | | | | | | | | |
| | | | | | | | Paddle Actuator ⑨ | J77 | | | | | | | | | |

*Momentary Contact
① 1 and 2 pole only.
② For J50 and J60 only.
③ For J11, J21, J37 and J47 only.
④ Consult plant for availability.
⑤ These circuits are **NOT** available with the following 3 and 4 pole options: A, AV1, AV2, V3, V4, V5, V6 and V7.
⑥ Epoxy seal standard on all terminal options.
⑦ Available with C, Z, Z3 or W-W4 terminations.
⑧ Available with AV1, AV2, V3-V7 terminations.
⑨ Available with A, AV1, AV2 or V3-V7 terminations.
⑩ 1, 2 and 3 pole only.
⑪ See page 58 for construction detail, wiring and electrical diagrams.
⑫ Same as B, G and Q respectively except terminals brass with tin nickel alloy over nickel plate. Consult plant for availability.

**EXAMPLES:**

**B121J71AQ2** = SPDT rocker switch with an ON-OFF-ON circuit, J71 style rocker (black), right angle P.C. terminals with coin silver contacts and epoxy sealed terminals.

**B223J50ZQ22P** = DPDT rocker switch with an ON-NONE-ON circuit, J50 style rocker (black), solder lug terminals with coin silver contacts, black snap in bezel and epoxy sealed terminals.

# Standard Rocker & Paddle Switches — Specifications and Materials

## SPECIFICATIONS

**Contact Rating** — Letter codes G and Q — 6 amp at 125 VAC, 3 amp @ 250 VAC, (U.L. recognized, CSA certified) or 6 amp at 28 VDC resistive.
Letter codes B and G — 0.5. volt-amp (VA) maximum @ 28 V maximum (AC or DC).

**Life Under Load —** 60,000 make-and-break cycles — resistive load only.

**Initial Contact Resistance** — 10 milliohms maximum. 3 VDC, 100 ma for both silver and gold plated contacts.

**Insulation Resistance —** 1 & 2 pole — 1,000 megohms minimum.
3 & 4 pole — 1,000 megohms minimum.

**Dielectric Strength** — 1,000 volts rms at sea level.

**Operating Temperature** — 30° to +85°C

## MATERIALS

**Base (body)** — 1- and 2-pole —Diallyl Phthalate. (DAP).
3- and 4-pole — high strength phenolic.

**Rocker/Paddle** — Molded nylon.

**Bushing** — Brass, nickel plated.

**Clamp (frame)** — Stainless steel.

**Support Bracket** — Steel, tin plated.

**Metal Bezel** — Spring steel.

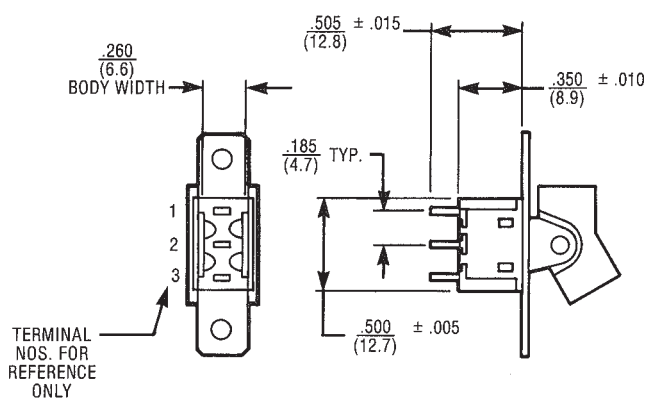
**Plastic Bezel** — Molded nylon.

**Switching Contacts and Rockers —**
Letter Code B — gold/nickel/brass
Letter Code G — gold/nickel/silver
Letter Code Q — Coin silver

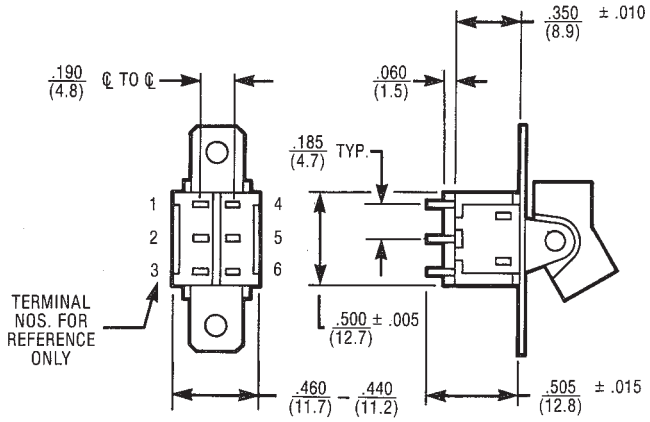
**Center Terminal**
Letter Codes B, G — Gold flash/nickel/brass
Letter Code Q — Silver plated brass.

**Hardware** — See page 57.

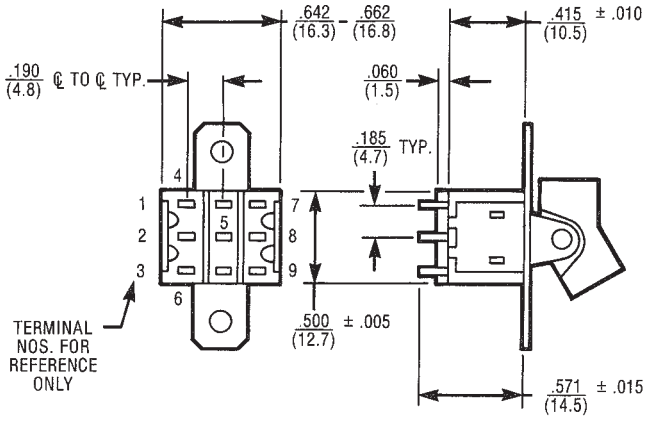
## APPROXIMATE BASE DIMENSIONS



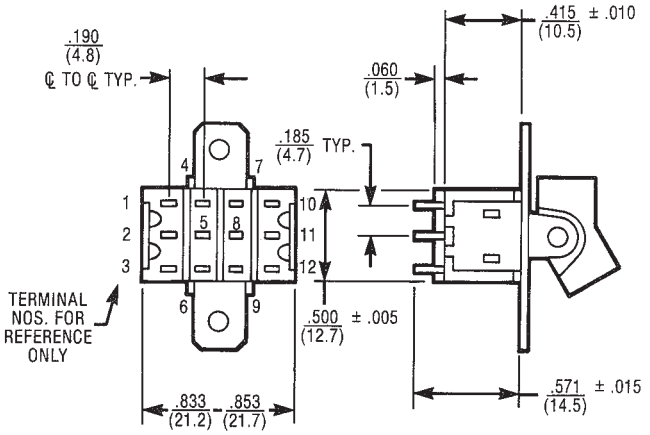

ONE POLE




TWO POLE



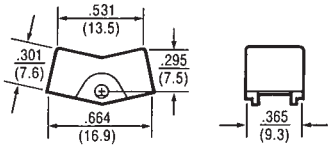

THREE POLE



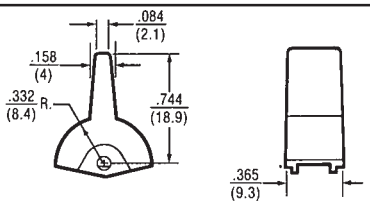

FOUR POLE

## Rocker Actuator Options For P.C. Mounting

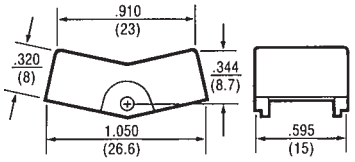
**J71**



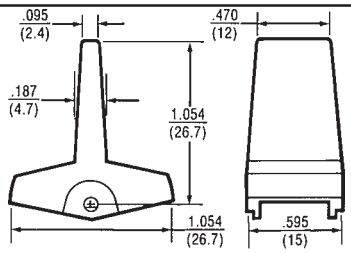

**J72**



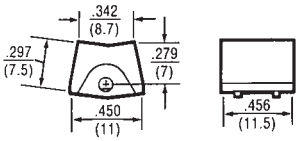

**J73**



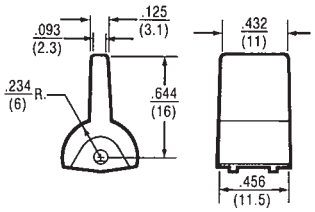

**J75**




**J76**

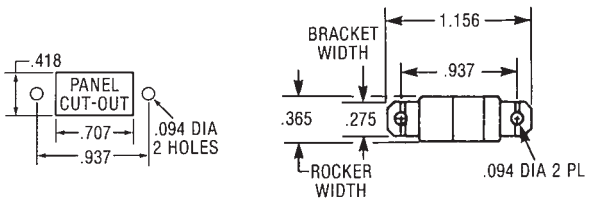


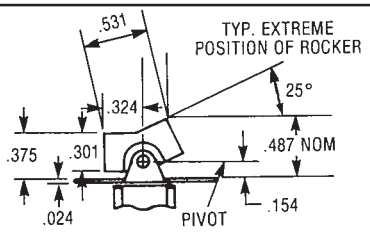

**J77**




## ACTUATOR/MOUNTING OPTIONS

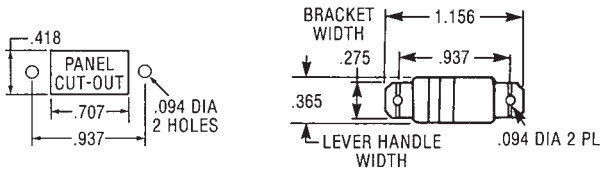
**J1** Screw Mount Rocker

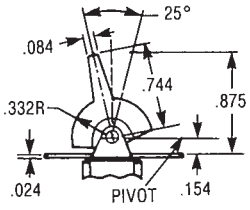



Refer to Page 57 for Mounting Hardware

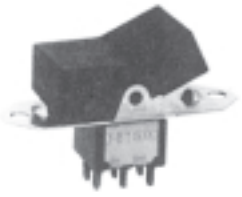
**J2** Screw Mount Paddle Rocker

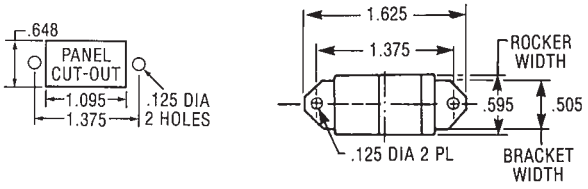


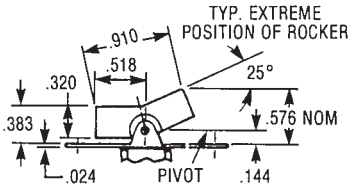




Refer to Page 57 for Mounting Hardware

**J3** Screw Mount Large Rocker

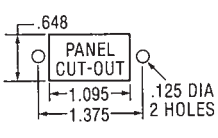


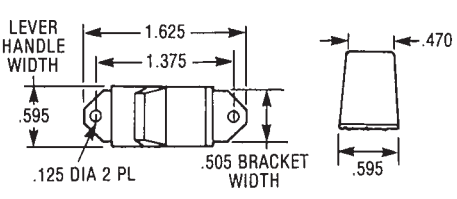


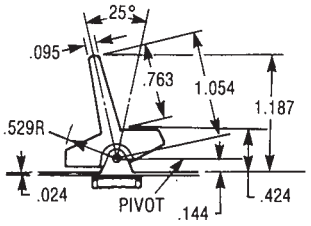




Refer to Page 57 for Mounting Information

**J5** Screw Mount Large Tappered Paddle Rocker

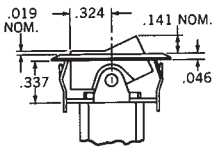


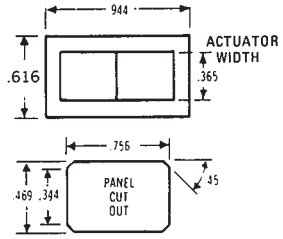




Refer to Page 57 for Mounting Hardware

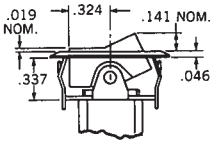
## J11 Rocker with Snap-In Bezel ❶




One Pole




PANEL THICKNESS
.062 to .125

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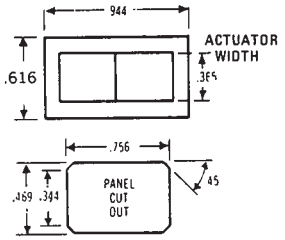
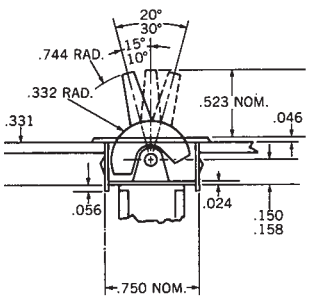
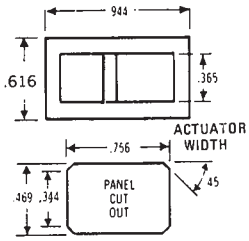



PANEL THICKNESS
.062 to .125

## J21 Paddle with Snap-In Bezel ❶




One Pole




PANEL THICKNESS
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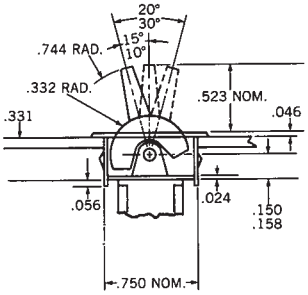


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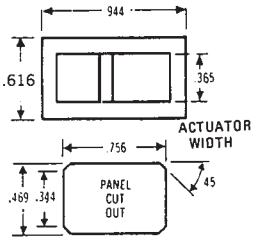
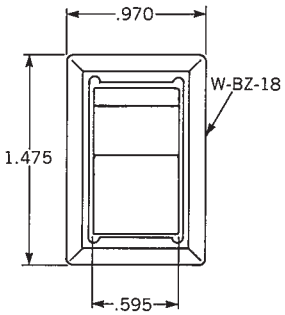
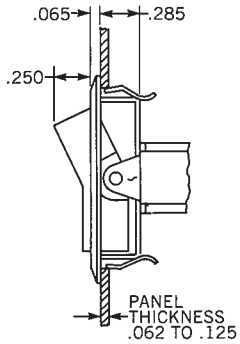
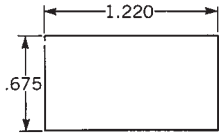



PANEL THICKNESS
.062 to .125

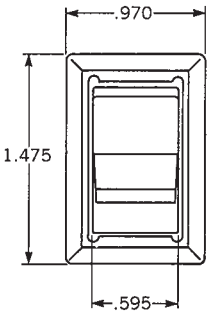
## J37 Rocker Actuator/Mounting Option

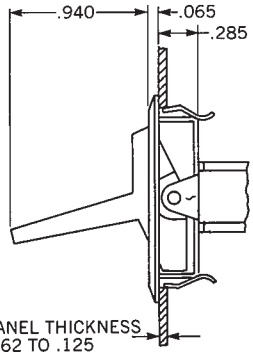


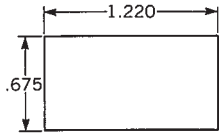




## J47 Paddle Actuator/Mounting Option



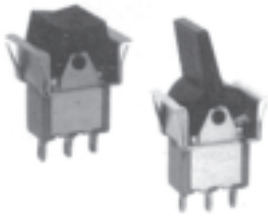



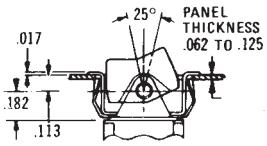



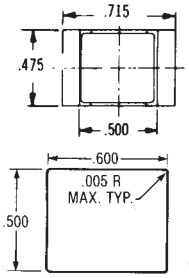

❶ Three and four pole switches require assembly from back of panel.

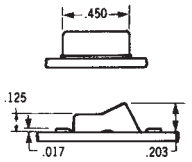
## Actuator and Mounting Options

**J50** = Snap in Mounting w/Low Profile Rocker ❶
**J60** = Snap in Mounting w/Low Profile Paddle

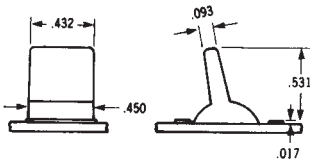




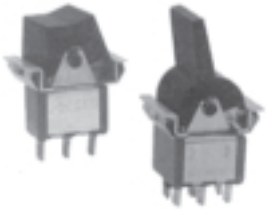



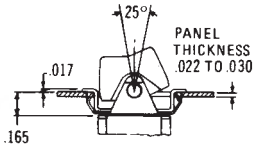

**J50** Rocker Style

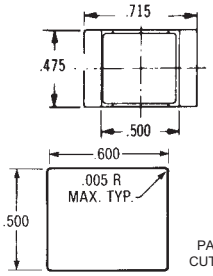


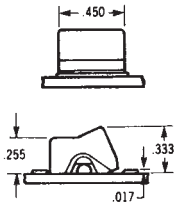

**J60** Paddle Style

**J53** = Snap in Mounting w/High Profile Rocker ❶
**J63** = Snap in Mounting w/High Profile Paddle

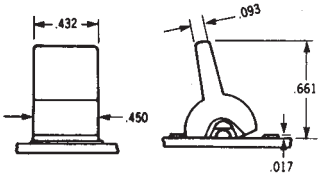





**J53** Rocker Style

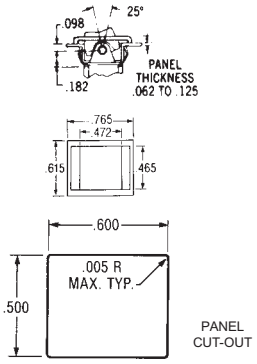


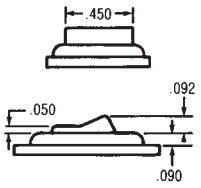

**J63** Paddle Style

## OPTIONAL BEZELS (For use with J50/J60 Series only)

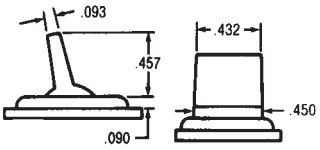
**Bezel Assembled with J50/J60 Series**

| Color | Code | Part No. |
|---|---|---|
| White | 1P | W-BZ-12A |
| Black | 2P | W-BZ-12 |
| Red | 3P | W-BZ-12B |



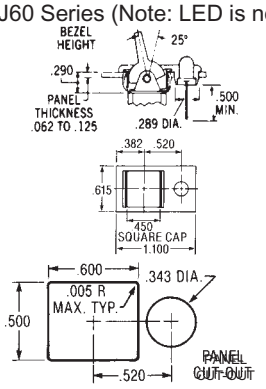

**J50** Rocker Style w/Bezel

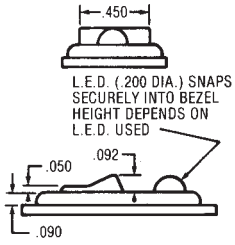



**J60** Paddle Style w/Bezel

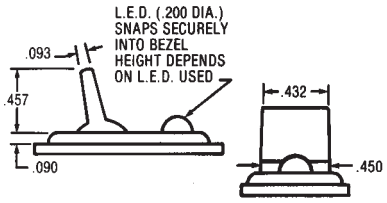
**Bezel for L.E.D.** Assembled with J50/J60 Series (Note: LED is not supplied)

| Color | Code | Part No. |
|---|---|---|
| Black | 4P | W-BZ-15 |



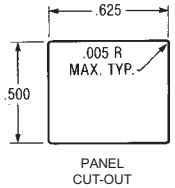

**J50** Rocker Style w/Bezel for L.E.D.




**J60** Paddle Style w/Bezel for L.E.D.

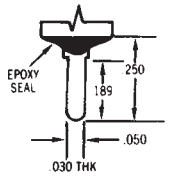
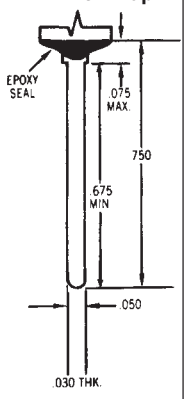
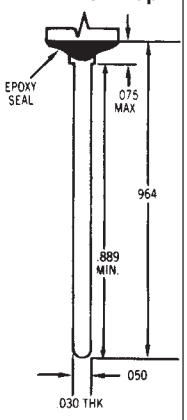
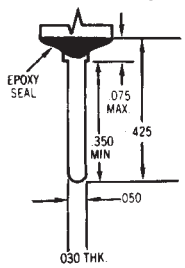
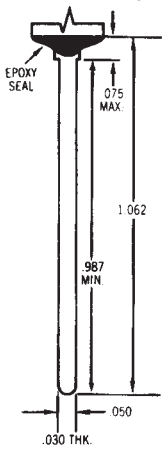
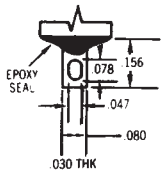
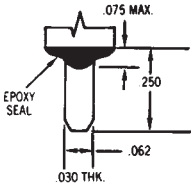
## OPTIONAL MOUNTING CLIP (For use with J50/J60 Series only)

**Clip** Assembled with J50/J60 Series




- For thick plastic panel mount applications (.094" - .125" thick)
- Consult factory for availability

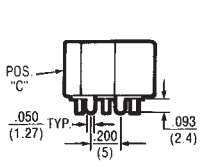
❶ All rocker switches on this page are snap-in from the front of the panel. No behind panel assembly hardware is needed.

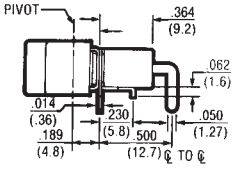
| C Printed Circuit | W Wire-Wrap | W1 Wire-Wrap | W3 Wire-Wrap | W4 Wire-Wrap | Z Standard | Z3 Quick Connect |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  Mating Receptacle from AMP SPECIAL IND., P.O. Box 984, Paoli, Pa. 19301 Amp P/N single piece 61454 series, strip from 60900 |

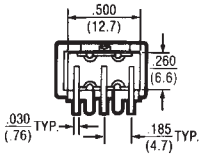
NOTE: Wire-Wrap is a registered trademark of the Gardner-Denver Company.

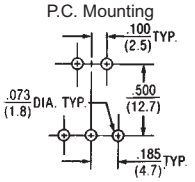
## TERMINATION/MOUNTING OPTIONS

**A**



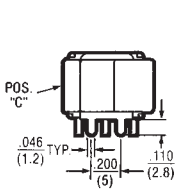


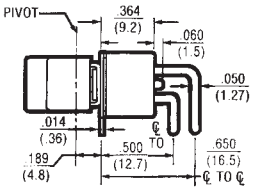


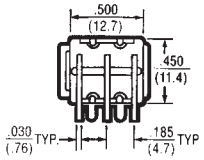


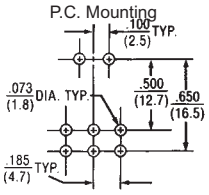
ONE POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**A**



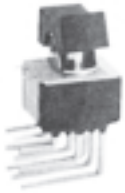


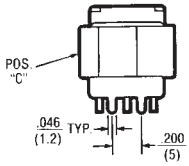


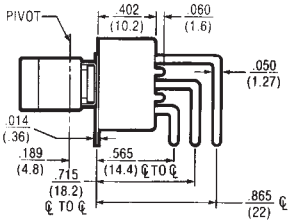


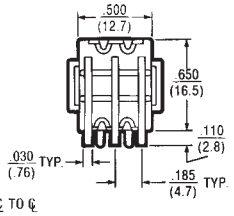
TWO POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

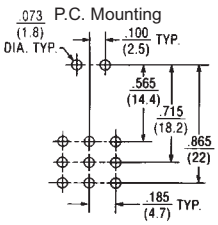
**A**





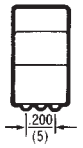


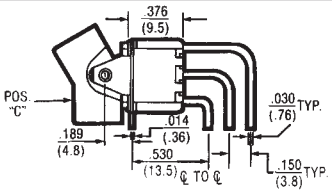


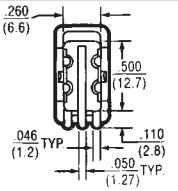


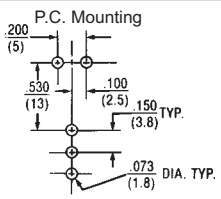
THREE POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**V5** ❶



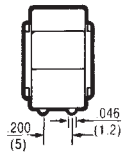


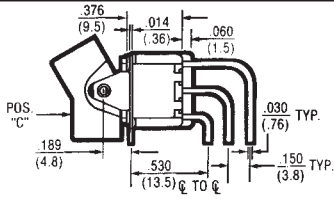


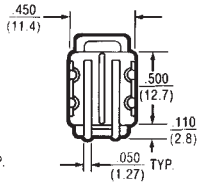


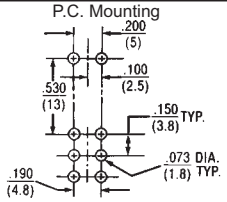
ONE POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**V5** ❶







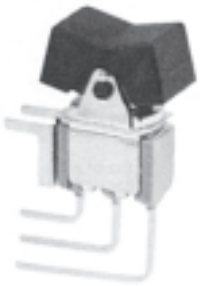


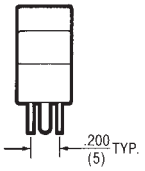
TWO POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

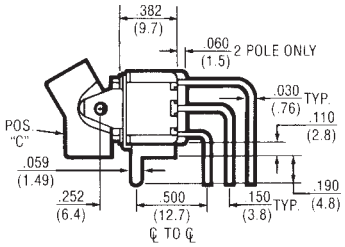
❶ The V5 option is available in Three and Four Pole Circuits.

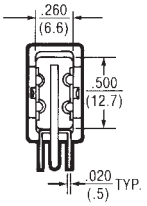
## Termination/Mounting Options

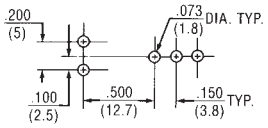
**AV1** w/.100" Terminal Spacing
**AV2** w/.150" Terminal Spacing (Pictured Below)





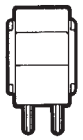



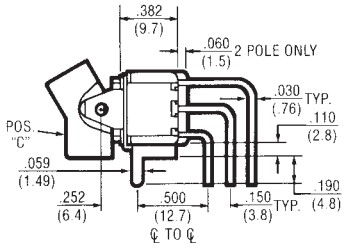



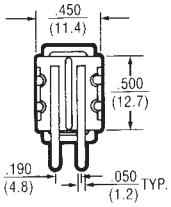

1 Pole P.C. Mounting

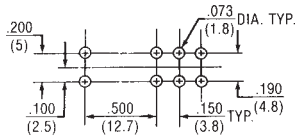
ONE POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**AV1** w/.100" Terminal Spacing
**AV2** w/.150" Terminal Spacing (Pictured Below)





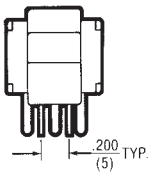



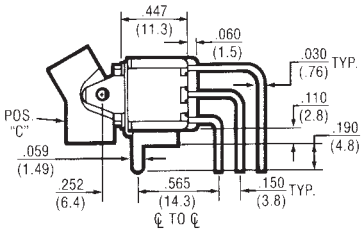



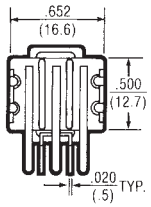

2 Pole P.C. Mounting

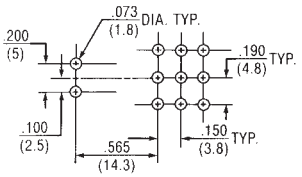
TWO POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

**AV1** w/.100" Terminal Spacing
**AV2** w/.150" Terminal Spacing (Pictured Below)



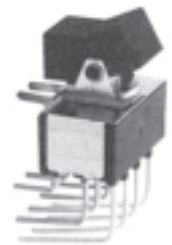



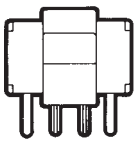



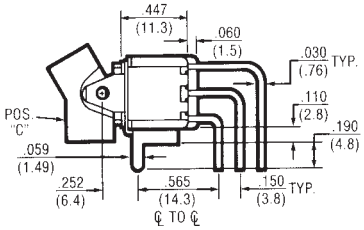

3 Pole P.C. Mounting

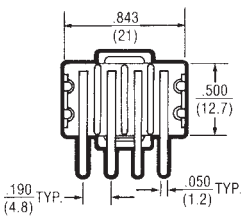
THREE POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

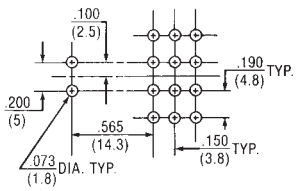
**AV1** w/.100" Terminal Spacing
**AV2** w/.150" Terminal Spacing (Pictured Below)







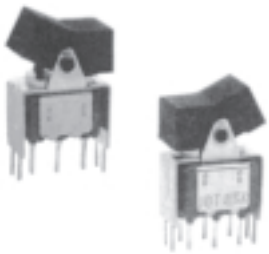



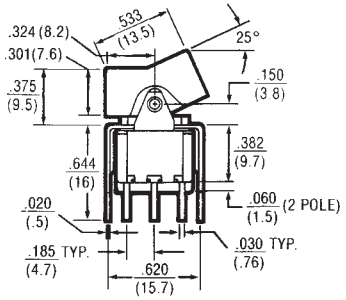



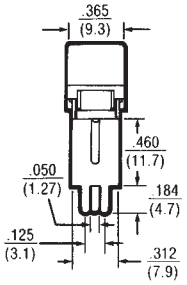

4 Pole P.C. Mounting

FOUR POLE **EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

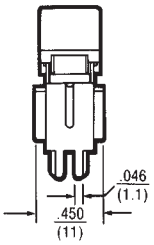
## V3



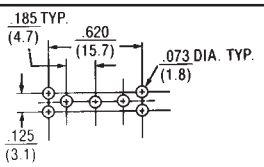


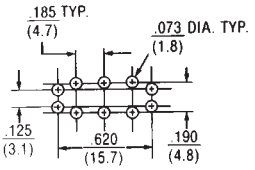

1 Pole




2 Pole



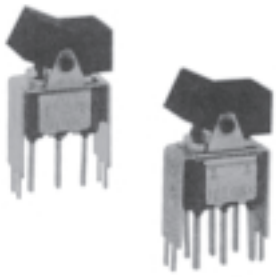

1 Pole P.C. Mounting

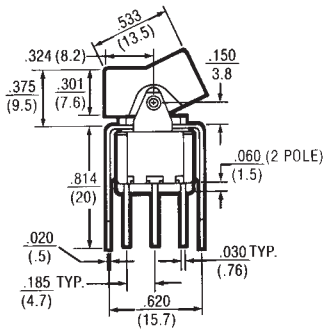


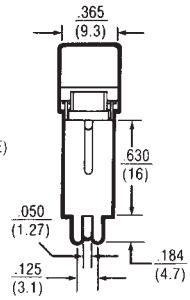

2 Pole P.C. Mounting

**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

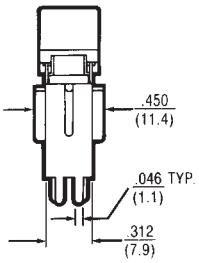
## V4



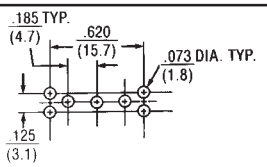


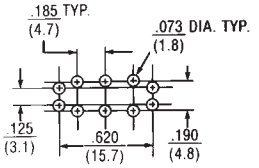

1 Pole




2 Pole



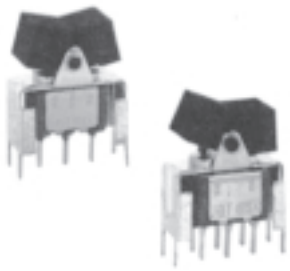

1 Pole P.C. Mounting

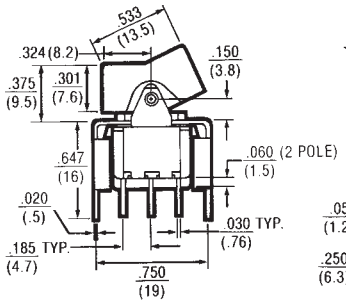


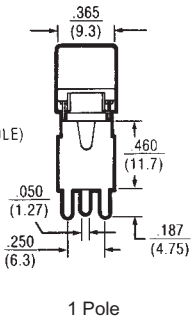

2 Pole P.C. Mounting

**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

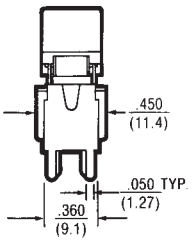
## V6



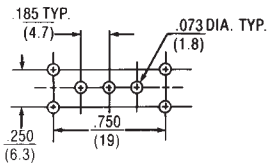


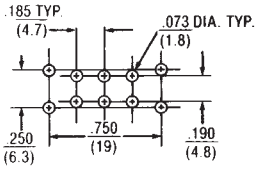

1 Pole




2 Pole



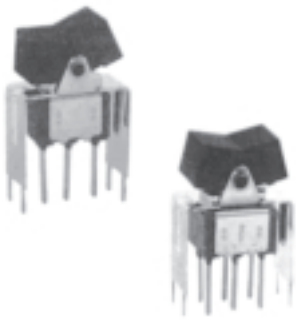

1 Pole P.C. Mounting

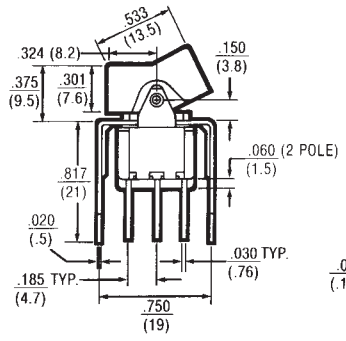


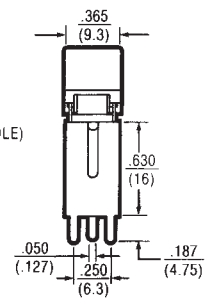

2 Pole P.C. Mounting

**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**

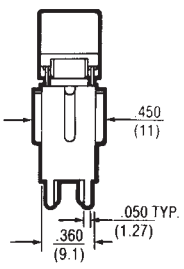
## V7



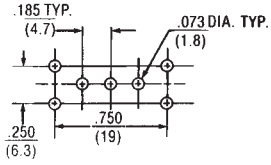


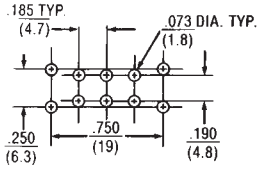

1 Pole




2 Pole




1 Pole P.C. Mounting




2 Pole P.C. Mounting

**EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS**