- Wide variety of applications from consumer electronics to commercial
- Standard epoxy sealed terminations
- Gold contacts available for low power applications
- Available support brackets for greater stability
- Up to four poles with seven functions available
- Anti-rotation feature on flat toggles
- High torque bushing prevents separation from frame during installation
- Wide variety of terminal options


SPECIFICATIONS

| Electrical Ratings | $5 \mathrm{~A} @ 120 \mathrm{VAC}, 28 \mathrm{VDC} ; 2 \mathrm{~A} @ 250 \mathrm{VAC}$ <br> See Contact Options |
| :--- | :--- |
| Electrical Life | 50,000 cycles typical |
| Contact Resistance | $<20 \mathrm{~m} \Omega$ max initial @ 2-4VDC, 100mA |
| Dielectric Strength | 1500 Vrms min |
| Insulation Resistance | $>100 \mathrm{M} \Omega$ min |
| Operating Temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ |
| Storage Temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ |

MATERIALS $\leftarrow$ RoHS COMPLIANT

| Actuator | Brass, Chrome Plated |
| :--- | :--- |
| Housing | DAP - Diallyl Phthalate |
| Cover | Stainless Steel |
| Bushing | Brass, Nickel Plated |
| Bracket | Brass, Tin Plated |
| Contacts | Phosphor Bronze, Silver Plated |
| Terminals | Brass, Silver Plated |

## TOGGLE SWITCH ORDERING INFORMATION



## SWITCH FUNCTION

|  | Function | Toggle Position |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | $\dagger$ | 1 |
|  | 1 | ON | NONE | ON |
|  | 2 | ON | NONE | (ON) |
|  | 3 | ON | OFF | ON |
| SPDT | 4 | (ON) | OFF | (ON) |
|  | 5 | ON | OFF | (ON) |
| 10.30 | Terminals | 2-3 | --- | 2-1 |



|  | Function | Toggle Position |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 5 |
|  | 1 | ON | NONE | ON |
|  | 2 | ON | NONE | (ON) |
|  | 3 | ON | OFF | ON |
|  | 4 | (ON) | OFF | (ON) |
|  | 5 | ON | OFF | (ON) |
| DPDT | Terminals | $\begin{aligned} & 2-3 \\ & 5-6 \end{aligned}$ | --- | $\begin{aligned} & 2-1 \\ & 5-4 \end{aligned}$ |
| $10^{20}-\ldots 50^{50}$ | 6 | ON | ON | ON |
|  | Terminals | $\begin{aligned} & 2-3 \\ & 5-6 \end{aligned}$ | $\begin{aligned} & 2-3 \\ & 5-4 \end{aligned}$ | $\begin{aligned} & 2-1 \\ & 5-4 \end{aligned}$ |



|  | Function | Toggle Position |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | - | 1 |
|  | 1 | ON | NONE | ON |
|  | 2 | ON | NONE | (ON) |
|  | 3 | ON | OFF | ON |
|  | 4 | (ON) | OFF | (ON) |
|  | 5 | ON | OFF | (ON) |
|  |  | 2-3 |  | 2-1 |
|  |  | 5-6 |  | 5-4 |
| 4PDT | Terminals | 8-9 | --- | 8-7 |
|  |  | 11-12 |  | 11-10 |
|  | 6 | ON | ON | ON |
| ${ }_{30}$ |  | 2-3 | 2-3 | 2-1 |
| , | Terminals | 5-6 | 5-4 | 5-4 |
|  | Terminals | 8-9 | 8-9 | 8-7 |
| $70.90100 \quad 120$ |  | 11-12 | 11-10 | 11-10 |



## ACTUATOR OPTIONS

** Actuator lengths shown with E bushing, subtract 1.78 mm for F/F1 bushing, subtract 0.51 mm for M bushing

** Only available with AR1/AR2 \& AN1/AN2 bushings.

** Only available with BZ \& BZR bushings.

** LK \& LK1 only available with K \& K1 bushings. LK \& LK1 are not available with momentary functions


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BUSHING OPTIONS

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| E (Threaded) E1 (NonThreaded) | F (Threaded) F1 (Non- <br> Threaded) | J (Threaded) | H (Threaded) High Torque | G (Threaded) High Torque | W (Threaded) Metric |

AR1 (Threaded)

| AR2 (Non-Threaded) |
| :---: |
| Anti-Rotation |
| ** If selecting $\mathrm{F}, \mathrm{G}$, or K actuator, one of these |
| Bushings must be selected |



L (Threaded)
Splash Proof

[^0]ANT

## TERMINAL OPTIONS



H (HS - Snap-in) = Horizontal Mount, Right Angle PC Pins (Single Pole)


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## TERMINAL OPTIONS



V (VS - Snap-in) = Vertical Mount, Right Angle PC Pins (Single Pole)


V (VS - Snap-in) = Vertical Mount, Right Angle PC Pins (Double Pole)


V (VS - Snap-in) = Vertical Mount, Right Angle PC Pins (Three Pole)


V (VS - Snap-in) = Vertical Mount, Right Angle PC Pins (Four Pole)

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## TERMINAL OPTIONS



| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S20-V20 | 11.68 |
| S25-V25 | 16.00 |

S20/S25 (V20/V25 - Snap-in Bracket) = PC Pins with Support Bracket (Single Pole)


S20/S25 (V20/V25 - Snap-in Bracket) = PC Pins with Support Bracket (Double Pole)


| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S20-V20 | 11.68 |
| S25-V25 | 16.00 |

S20/S25 (V20/V25 - Snap-in Bracket) = PC Pins with Support Bracket (Three Pole)

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## TERMINAL OPTIONS



| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S20-V20 | 11.68 |
| S25-V25 | 16.00 |

S20/S25 (V20/V25 - Snap-in Bracket) = PC Pins with Support Bracket (Four Pole)


| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S40-V40 | 16.00 |

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## TERMINAL OPTIONS



| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S40-V40 | 16.00 |

S40 (V40 - Snap-in Bracket) = PC Pins with Support Bracket (Three Pole)


| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S40-V40 | 16.00 |

S40 (V40 - Snap-in Bracket) = PC Pins with Support Bracket (Four Pole)

## CONTACT OPTIONS

| Designator | Contact Material | Terminal Material | Electrical Ratings |
| :---: | :--- | :--- | :--- |
| Q | Silver Platitn | Silver Plating | 5 A @ 120VAC, 28VDC; 2A @ 250VAC |
| R | Gold over Nickel Plating | Gold over Nickel Plating | .4 VA max @ 20VAC ©r VAC max |
| G | Gold over Silver Plating | Gold over Silver Plating | 4 VA max @ 20VAC or VAC max or <br> 5A @ 120VAC, 28VDC; 2A @ 250VAC |

## CAP OPTIONS

|  |  |  |
| :---: | :---: | :---: |
| RUBBER TOGGLE COVER | $\underset{E}{\text { SEALED BOOT }}$ | $\begin{aligned} & \text { SEALED BOOT } \\ & Z \end{aligned}$ |

** For use with S, T, X, V, \& W actuators 1 = White, 2 = Black, 3 = Red
** For use with E, F, J, \& G bushings only. Black color standard.
** For use with BZ \& BZR bushings only. Black color standard.

## THREE WAY WIRING DIAGRAM

|  | POSITION 1 | POSITION 2 | POSITION 3 |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Customer must wire externally <br> BOTTOM VIEW |  |  |  |
|  | POSITION 1 | POSITION 2 | POSITION 3 |
| BOTTOM VIEW |  <br> (10) <br> (7) <br> (4) <br> (1) |   |  |

HARDWARE *Two hex nuts, one lock washer, \& one locking ring supplied standard with threaded bushings
Hex Nut
Lex
Hex Nut


[^0]:    ** Not available with
    Z, Z1, \& PX actuators

