

- 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



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## SWITCH FUNCTION



| 3PDT | Function | Toggle Position |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | - | , |
|  | 1 | ON | NONE | ON |
|  | 2 | ON | NONE | (ON) |
|  | 3 | ON | OFF | ON |
|  | 4 | (ON) | OFF | (ON) |
|  | 5 | ON | OFF | (ON) |
|  | Terminals | 2-3 | --- | 2-1 |
|  |  | 5-6 |  | 5-4 |
|  |  | 8-9 |  | 8-7 |


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## ACTUATOR OPTIONS

${ }^{* *}$ Actuator lengths shown with $E$ bushing, subtract 1.78 mm for $F / F 1$ 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

|  | LK1 |  | ** P actuator is plastic <br> P2 = Black, std <br> P1 = White <br> P3 = Red <br> Contact factory for other color options |
| :---: | :---: | :---: | :---: |

## BUSHING OPTIONS

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| $\begin{gathered} \text { E (Threaded) } \\ \text { E1 (Non- } \\ \text { Threaded) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { F (Threaded) } \\ \text { F1 (Non- } \\ \text { Threaded) } \\ \hline \end{gathered}$ | J (Threaded) | H (Threaded) High Torque | G (Threaded) High Torque | W (Threaded) Metric |



## PANEL MOUNTING



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## TERMINAL OPTIONS



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


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


| 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 (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)

## 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 |
| :---: | :---: |
| S35-V35 | 11.68 |
| S40-V40 | 16.00 |

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



| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S35-V35 | 11.68 |
| S40-V40 | 16.00 |

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

| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S35-V35 | 11.68 |
| S40-V40 | 16.00 |

## TERMINAL OPTIONS



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



| Terminal <br> Option | "A" <br> Dimension |
| :---: | :---: |
| S35-V35 | 11.68 |
| 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 Plating | Silver Plating | 5A @ 120VAC, 28VDC; 2A @ 250VAC |
| R | Gold over Nickel Plating | Gold over Nickel Plating | . 4 VA max @ 20VAC or VDC max |
| G | Gold over Silver Plating | Gold over Silver Plating | . 4 VA max @ 20VAC or VDC max or 5A @ 120VAC, 28VDC; 2A @ 250VAC |

## CAP OPTIONS



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## THREE WAY WIRING DIAGRAM

|  | POSITION 1 | POSITION 2 | POSITION 3 |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Customer must wire externally <br> BOTTOM VIEW |  |  |  |
|  | POSITION 1 | POSITION 2 | POSITION 3 |
|  |  |  |  |

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

**For use with E, F, M, AR1, L, \& K bushings

**For use with J, G, \& AN1 bushings

**For use with BZ \& BZR bushings

