

SERIES 34A

Miniature Toggle Switches

FEATURES

- Save Space and Weight
- SPDT, DPDT, 3PDT, and 4DPT Circuitry
- Choice of Actuators, Bushings and Terminations
- UL Recognized



MODELS In inches (and millimeters)

SPDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|------|
| SP1 | ON | NONE | ON |
| SP2 | ON | NONE | (ON) |
| SP3 | ON | OFF | ON |
| SP4 | (ON) | OFF | (ON) |
| SP5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3 | OPEN | 2-1 |

()=MOMENTARY

SCHEMATIC



DPDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|----------|
| DP1 | ON | NONE | ON |
| DP2 | ON | NONE | (ON) |
| DP3 | ON | OFF | ON |
| DP4 | (ON) | OFF | (ON) |
| DP5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3, 5-6 | OPEN | 2-1, 5-4 |

()=MOMENTARY

02COMM. 05COMM.

SCHEMATIC



3PDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|--------------|
| 3P1 | ON | NONE | ON |
| 3P2 | ON | NONE | (ON) |
| 3P3 | ON | OFF | ON |
| 3P4 | (ON) | OFF | (ON) |
| 3P5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3,5-6, 8-9 | OPEN | 2-1,5-4, 8-7 |

()=MOMENTARY

02COMM. 05COMM. 08COMM.

SCHEMATIC



MODELS In inches (and millimeters)

4PDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|----------------------|------|----------------------|
| | ON | NONE | ON |
| 4P1 | ON | NONE | ON |
| 4P2 | ON | NONE | (ON) |
| 4P3 | ON | OFF | ON |
| 4P4 | (ON) | OFF | (ON) |
| 4P5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3,5-6 8-9,11-12 | OPEN | 2-1,5-4 8-7,11-10 |

()=MOMENTARY

SCALE:1.5:1

KEYWAY THIS SIDE

SCHEMATIC

02COMM. 05COMM. 08COMM. 011COMM.

1 3 4 6 7 9 10 12

ACTUATOR OPTIONS In inches (and millimeters)

| | | | | |
|---|--|--|--|--|
| <p>1 Std</p> <p>.115 DIA. (Ø3.01) .410 (10.41)</p> | <p>2</p> <p>.107 DIA. (Ø2.71) .200 (5.08)</p> | <p>3</p> <p>.134 DIA. (Ø3.40) .550 (13.97)</p> | <p>4</p> <p>.131 DIA. (Ø3.32) .640 (16.26)</p> | <p>5</p> <p>.131 (3.32) .840 (21.32)</p> |
| <p>6</p> <p>.200 DIA. (Ø5.08) .450 (11.43)</p> <p>Use with Bushing Options T1, T2, T5 and T6 only.</p> | <p>7</p> <p>.240 DIA. (Ø6.09) .487 (12.37) .465 (11.80)</p> <p>KEYWAY 15/32-32NS</p> <p>Use T7 Bushing Option only.</p> | <p>8</p> <p>.240 DIA. (Ø6.09) .687 (17.45) .465 (11.80)</p> <p>KEYWAY 15/32-32NS</p> <p>Use T7 Bushing Option only.</p> | <p>9 Nylon Black</p> <p>Ø.129 (Ø3.28) .645 (16.38) .840 (21.34)</p> | <p>L THD. (STD.) N NON-THD</p> <p>L THD.(STD.) N NON-THD.</p> <p>Ø.214 (Ø5.44) .640 (16.26) UNLOCKED .579 (14.73) LOCKED 1/4-40 UNS-2A</p> |

Actuators 1-5 shown with standard B1 bushing. Add .070 (1.78) for B3, subtract .020 (0.51) for B6 bushing.

BUSHING OPTIONS In inches (and millimeters)

| | | | | |
|--|--|-------------------------------|------------------------------|------------------|
| <p>B1 Thd (Std) B2 Non-Thd</p> | <p>B3 Thd B4 Non-Thd</p> | <p>B5 High Torque</p> | <p>B6 High Torque</p> | |
| <p>B7 Long</p> | <p>B8 Metric</p> | <p>B9 Splash-Proof</p> | | |
| <p>T1</p> | <p>T2</p> | <p>T5</p> | <p>T6</p> | <p>T7</p> |

Toggle Switches

PANEL MOUNTING In inches (and millimeters)



TERMINATION OPTIONS In inches (and millimeters)

| <p>M1 Solder Lug (Std)</p> <p>.078 (1.98) .156 (3.96) .047 (1.19) .080 (2.03) THK. .030 (0.76)</p> | <p>M2 P.C. Mount</p> <p>.189 (4.80) .250 (6.36) .050 (1.27) THK. .030 (0.76)</p> | <p>M3 P.C. Mount, Quick Connect</p> <p>EPOXY SEAL .189 (4.80) .250 (6.35) .062 (1.57) .030 (0.76) THK.</p> | <p>WX</p> <p>DIM."A" .075 (1.91) .050 (1.27)</p> <table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM."A"</th> </tr> </thead> <tbody> <tr> <td>W1</td> <td>.750(19.05)</td> </tr> <tr> <td>W2</td> <td>.964(24.46)</td> </tr> <tr> <td>W3</td> <td>.425(10.80)</td> </tr> <tr> <td>W4</td> <td>1.062(26.97)</td> </tr> </tbody> </table> <p>WIRE WRAP</p> | OPTION CODE | DIM."A" | W1 | .750(19.05) | W2 | .964(24.46) | W3 | .425(10.80) | W4 | 1.062(26.97) |
|--|---|---|--|-------------|---------|----|-------------|----|-------------|----|-------------|----|--------------|
| OPTION CODE | DIM."A" | | | | | | | | | | | | |
| W1 | .750(19.05) | | | | | | | | | | | | |
| W2 | .964(24.46) | | | | | | | | | | | | |
| W3 | .425(10.80) | | | | | | | | | | | | |
| W4 | 1.062(26.97) | | | | | | | | | | | | |
| <p>M6 Right Angle P.C. Mount, Horizontal Actuation</p> <p>SPDT DPDT</p> <p>KEYWAY THIS SIDE</p> <p>P.C. MOUNTING</p> <p>Ø.073 (Ø1.85) .200 (5.08) .185 (4.69) .500 (12.7) Ø.245 (Ø6.22) Ø.105 (Ø2.67) .270 (6.86) .125 (3.17) .254 (6.46) .288 (7.31) .050 (1.27) .185 (4.70) .500 (12.7) Ø.073 (Ø1.85) .200 (5.08) .185 (4.70) .500 (12.7) Ø.245 (Ø6.22) Ø.105 (Ø2.67) .270 (6.86) .126 (3.17) .106 (2.69) .254 (6.46) .288 (7.31) .050 (1.27) .185 (4.70) .450 (11.43) .150 (3.81) Ø.073 (Ø1.85) .200 (5.08) .185 (4.70) .500 (12.7) Ø.245 (Ø6.22) Ø.105 (Ø2.67) .270 (6.86) .126 (3.17) .106 (2.69) .254 (6.46) .288 (7.31) .050 (1.27) .150 (3.81) Ø.073 (Ø1.85) .200 (5.08) .150 (3.81) .500 (12.7)</p> | | | | | | | | | | | | | |
| <p>M7 Right Angle P.C. Mount, Vertical Actuation</p> <p>SPDT DPDT</p> <p>KEYWAY THIS SIDE</p> <p>P.C. MOUNTING</p> <p>.500 (12.7) .270 (6.86) .125 (3.18) .254 (6.46) .288 (7.31) .500 (12.7) .150 (3.81) Ø.245 (Ø6.22) .030 (0.76) .048 (1.22) .200 (5.08) .073 DIA. (Ø1.85) .500 (12.7) .150 (3.81) .190 (4.83) .450 (11.43) .125 (3.17) .500 (12.70) .050 (1.27) .190 (4.83) .288 (7.31) .500 (12.7) .030 (0.76) .150 (3.81) Ø.245 (Ø6.22) .125 (3.18) .048 (1.22) .200 (5.08) .073 DIA. (Ø1.85) .500 (12.7) .150 (3.81) .190 (4.83) .450 (11.43) .125 (3.17) .500 (12.70) .050 (1.27) .190 (4.83) .288 (7.31) .500 (12.7) .030 (0.76) .150 (3.81) Ø.245 (Ø6.22) .125 (3.18) .048 (1.22) .200 (5.08) .073 DIA. (Ø1.85) .500 (12.7) .150 (3.81) .190 (4.83)</p> | | | | | | | | | | | | | |

TERMINATION OPTIONS In inches (and millimeters)

M7 Right Angle P.C. Mount, Vertical Actuation



V2-V3 Vertical Bracket P.C. Mount



SPECIFICATIONS RATINGS

Contact Rating: Q option - 5A with resistive load @ 125VAC or 28 VDC; 2A with resistive load @ 250 VAC. R option-0.4 VA max @ 20 Vmax (AC or DC)
 Electrical Life: 40,000 make-and-break cycles at full load

Contact Resistance: 10 milliohms max. initial @ 2-4 VDC, 100 mA for both gold & silver contacts
 Insulation Resistance: 1,000 megaohms minimum
 Dielectric Strength: 1,000 V RMS @ sea level
 Operating Temperature: -30°C to 85°C
 UL Recognition: File number is E35289

MATERIALS

Case: Diallyl phthalate (DAP) (UL94V-0)
 Toggle Handle: Brass, chrome-plated
 Bushing: Brass, nickle-plated
 Housing: Stainless steel

ORDERING INFORMATION



Available from your local Grayhill Component Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

HARDWARE In inches (and millimeters)





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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