SERIES 100 SWITCHES
TOGGLE SWITCHES - MINIATURE

SPECIFICATIONS
Contact Rating: See contact material options
Life Expectancy: 40,000 make-and-break cycles
Contact Resistance: 10 mΩ max. typical initial @ 2-4 VDC
100 mA for both silver and gold platted contacts
Insulation Resistance: 1,000 MΩ min.
Dielectric Strength: 1,000 V RMS @ see level
Operating Temperature: -30° C to 85° C

MATERIALS
Case: Dialyl Phthalate (DAP)
Toggle Handle: Brass, chrome plated
Switch Support: Brass or steel, tin plated
Bushing: Brass, nickel plated
Housing: Stainless steel
Contacts / Terminals: Silver or gold plated copper alloy

FEATURES & BENEFITS
- Up to 4 poles available
- Variety of switching functions
- Miniature
- Multiple actuator & bushing options

APPLICATIONS/MARKETS
- Telecommunications
- Instrumentation
- Networking
- Medical equipment

HOW TO ORDER

<table>
<thead>
<tr>
<th>SERIES 100</th>
<th>MODEL NO.</th>
<th>ACTUATOR</th>
<th>BUSHING</th>
<th>TERMINATION</th>
<th>CONTACT MATERIAL</th>
<th>SEAL</th>
<th>HARDWARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1</td>
<td>T1</td>
<td>B1</td>
<td>M1</td>
<td>O = Silver</td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP2*</td>
<td>T2</td>
<td>B2</td>
<td>M2</td>
<td>R = Gold</td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP3</td>
<td>T3</td>
<td>B3</td>
<td>M3</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP3*</td>
<td>T4</td>
<td>B4</td>
<td>M4</td>
<td></td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP5</td>
<td>T5</td>
<td>B5</td>
<td>M5</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP1</td>
<td>T6</td>
<td>B6</td>
<td>M6</td>
<td></td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP2*</td>
<td>T7</td>
<td>B7</td>
<td>M7</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP3</td>
<td>T8</td>
<td>B8</td>
<td>M8</td>
<td></td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP4*</td>
<td>T9</td>
<td>B9</td>
<td>M9</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP5</td>
<td>K1</td>
<td>B11</td>
<td>M11</td>
<td></td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP6*</td>
<td>K2</td>
<td>B12</td>
<td>M12</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP8*</td>
<td>K3</td>
<td>B13</td>
<td>M13</td>
<td></td>
<td>Sealed at Base of Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3P1</td>
<td>T100-1 = White</td>
<td>B15**</td>
<td>M15*</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3P2*</td>
<td>T100-2 = Black</td>
<td>B16**</td>
<td>M16*</td>
<td></td>
<td>E = Epoxy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3P5*</td>
<td>4P1</td>
<td>4P2*</td>
<td>4P3</td>
<td>4P4*</td>
<td>M16*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4P5*</td>
<td>4P6</td>
<td>4P7*</td>
<td>4P8*</td>
<td>4P9*</td>
<td>M16*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example Ordering Number
100-SP1-T4-B2-M1-R-E

Notes: * Not available with the K1 and K2 actuator options.
** Available only with the K1 and K2 actuator options.

Specifications subject to change without notice.
SERIES 100 SWITCHES
TOGGLE SWITCHES - MINIATURE

3 - WAY WIRING DIAGRAM SCHEMATICS

ACTUATOR OPTIONS

T1* STANDARD

T2* FLATTED WITH BUILT IN ANTIROTATION

T3* T5* FLATTED WITH BUILT IN ANTIROTATION

T6* FLATTED WITH BUILT IN ANTIROTATION

T7* T8* PLASTIC BLACK

T9* PLASTIC BLACK

K1

K2

*Add .070 (1.78) for B3, B4 bushings, subtract .020 (0.51) for B6 bushing.
BUSHING OPTIONS

B1 THD STD
B2 NON-THD

B3 THD STD
B4 NON-THD

B5 HIGH TORQUE

B6 HIGH TORQUE

B8 METRIC THD

B9 SPLASH PROOF

B11 THD STD
B12 NON-THD

B15 THD STD
B16 NON-THD

B25

B26

B4 is standard for M6, M7 and VS termination options.
SERIES 100 SWITCHES
TOGGLE SWITCHES - MINIATURE

BUSHING OPTIONS - PANEL MOUNTING

1/4 IN. BUSHING
0.33 0.85
0.22 0.55
250 DIA 6.35

METRIC BUSHING
0.31 0.80
0.70
256 DIA 6.5

15/32 IN. BUSHING
0.65 1.65
0.31 0.79
4.59 DIA 11.91

TERMINATION OPTIONS

M2
SPDT

M2
DPDT

M6
SPDT

M1
SOLDER LUG

M3
QUICK CONNECT

M5
WIRE WRAP

M4
WIRE WRAP

P.C. MOUNTING

EPOXY SEAL

P.C. MOUNTING

THK .030 (.76)

P.C. MOUNTING

THK .030 (.76)

P.C. MOUNTING

P.C. MOUNTING

P.C. MOUNTING

THK .030 (.76)
SERIES 100 SWITCHES
TOGGLE SWITCHES - MINIATURE

VS2-VS3
SPDT

Option Code | Dim. 'A'
VS2   | .460 (11.68)
VS3   | .630 (16.00)

P.C. MOUNTING

VS2-VS3
DPDT

Option Code | Dim. 'A'
VS2   | .460 (11.68)
VS3   | .630 (16.00)

P.C. MOUNTING

VS5
DPDT

Option Code | Dim. 'A'
VS5   | .630 (16.00)

P.C. MOUNTING

M61
SPDT

Option Code | Dim. 'A'
Ø1.85 | .073 (.073 mm)
5.08  | .200 (.200 mm)
12.70 | .500 (.500 mm)

P.C. MOUNTING
SERIES 100 SWITCHES

TOGGLE SWITCHES - MINIATURE

VS21-VS31

SPDT

[Diagram of SPDT switch]

DPDT

[Diagram of DPDT switch]

OPTIONAL TOGGLE CAP

Use with T1
T100-1 WHITE
T100-2 BLACK

CONTACT MATERIAL OPTIONS

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Dim. ‘A’</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS2</td>
<td>460 (11.68)</td>
</tr>
<tr>
<td>VS3</td>
<td>630 (16.00)</td>
</tr>
</tbody>
</table>

Q

Fixed Terminal: Silver plated over copper alloy
Moving Contact: Silver plated over copper alloy
Rating: 5 Amps with resistive load @ 120VAC or 28VDC; 2 Amps with resistive load @ 250VAC

R

Fixed Terminal: Copper alloy with gold plate over nickel plate
Moving Contact: Copper alloy with gold plate over nickel plate
Rating: 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)
HARDWARE

HDW2  1/4 IN. NUTS

Supplied standard with B1, B3, B5, B6 and B9 options

HDW3  BLIND DRESSNUT

Supplied standard with B8 metric bushing

HDW6  METRIC NUT

Supplied standard with B1/B3 bushing

HDW11  LOCK WASHER

Optional Rubber Hood Sealing E1

E1 = Inch (Std) for actuator T1, T2 and bushings B1, B3, B5, B6 Optional rubber boot sealing

HDW12  LOCK WASHER

Supplied standard with B13 bushing

HDW15  LOCKING RING

Supplied standard

HDW16  LOCKING RING

Supplied with B5 bushing

HDW17  LOCKING RING

Supplied with B13 bushing