SERIES 200 SWITCHES
TOGGLE SWITCHES - SUB MINIATURE

FEATURES & BENEFITS

- Variety of switching functions
- Sub-miniature
- Multiple actuator & bushing options

APPLICATIONS/MARKETS

- Telecommunications
- Instrumentation
- Networking
- Medical equipment

SPECIFICATIONS

- Contact Rating: Dependent upon contact material
- Life Expectancy: 30,000 make-and-break cycles at full load
- Contact Resistance: 20 mΩ max. typical initial @ 2-4 VDC
  100 mA for both silver and gold plated contacts
- Insulation Resistance: 1,000 MΩ min.
- Dielectric Strength: 1,000 V RMS @ sea level
- Operating Temperature: -30° C to 85° C

MATERIALS

- Case: Dialyl Phthalate (DAP) or glass filled nylon (UL94-V0)
- Toggle Handle: Brass, chrome plated
- Bushing: Brass, nickel plated
- Housing: Stainless steel
- Switch Support: Brass, tin plated
- Contacts / Terminals: Silver or gold plated copper alloy

HOW TO ORDER

<table>
<thead>
<tr>
<th>SERIES 200</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>MSP1</td>
<td>T1</td>
<td>B1</td>
<td>M1</td>
<td>Q = Silver</td>
<td>E = Epoxy</td>
<td>E</td>
<td>H = Hardware</td>
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<tr>
<td>MSP2</td>
<td>T2</td>
<td>B2</td>
<td>M2</td>
<td>R = Gold</td>
<td>Sealed at</td>
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<tr>
<td>MSP3</td>
<td>T3</td>
<td>B3</td>
<td>M6</td>
<td>Base of</td>
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<tr>
<td>MSP4</td>
<td>T4</td>
<td>B4</td>
<td>M7</td>
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<tr>
<td>MSP5</td>
<td>T5</td>
<td>B5</td>
<td>VS2</td>
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<tr>
<td>MSP6*</td>
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Example Ordering Number

200-MSP1-T4-B5-M1-R-E-H

*MSP6 - not available with M1, M6 & M7 termination

Specifications subject to change without notice.

SPDT

2 Comm.
1 3

SCHEMATIC

www.e-switch.com  info@e-switch.com
SERIES 200 SWITCHES
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DPDT

Model No. | POS 1 | POS 2 | POS 3
----------|-------|-------|-------
MDP-1     | ON    | NONE  | ON    
MDP-2     | ON    | NONE  | (ON)  
MDP-3     | ON    | OFF   | ON    
Term. Comm. | 2-3, 5-6 | OPEN  | 2-1, 5-4
( ) = Momentary

ACTUATOR OPTIONS

T1

T2

T3*

T4**

T5**

* Actuator shown with B1, B2, B3, or B4 bushing; subtract 0.09 (2.29) for B5, B6 bushing. Subtract 0.040 (1.02) for B7, B8 bushing.
** Actuator shown with B5, B6 bushing; add 0.09 (2.29) for B1, B2, B3, and B4 bushing. Add 0.50 (1.27) for B7, B8 bushing.

PANEL MOUNTING

Without locking ring | With std. locking ring
10-48 BUSHING

Without locking ring | With std. locking ring
1/4 IN. BUSHING

Phone: 800-867-2717
Fax: 763-531-8235
SERIES 200 SWITCHES
TOGGLE SWITCHES - SUB MINIATURE

M6
SPDT

DPDT

M7
SPDT

DPDT

P.C. Mounting

Phone: 800-867-2717
Fax: 763-531-8235
**VS2**

SPDT

![Diagram of VS2 SPDT switch]

**VS2**

DPDT

![Diagram of VS2 DPDT switch]

**CONTACT MATERIAL OPTIONS**

<table>
<thead>
<tr>
<th>Option</th>
<th>Fixed Terminal</th>
<th>Moving Contact</th>
<th>Rating</th>
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<tbody>
<tr>
<td>Q</td>
<td>Silver plated copper alloy</td>
<td>Silver plated copper alloy</td>
<td>3 Amps @ 120 VAC or 28 VDC; 1 Amp @ 250 VAC</td>
</tr>
<tr>
<td>R</td>
<td>Copper alloy with gold plate over nickel plate</td>
<td>Copper alloy with gold plate over nickel plate</td>
<td>0.4 VA max. @ 20 VAC or DC max.</td>
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**HARDWARE**

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<thead>
<tr>
<th>HDW21</th>
<th>HDW22</th>
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<tr>
<td><strong>NUT</strong></td>
<td><strong>LOCK WASHER</strong></td>
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![Diagram of HDW21 NUT]

![Diagram of HDW22 LOCK WASHER]