## MICRO SWITCH BASIC SWITCH
### SUBMINIATURE COMPARISON

The package size of the MICRO SWITCH subminiature switch is ideal for a wide variety of applications where space on the equipment is at a premium.

### SERIES

<table>
<thead>
<tr>
<th>Type, Market</th>
<th>SM</th>
<th>SX</th>
<th>ZD</th>
<th>ZM</th>
<th>ZM1</th>
<th>ZW</th>
<th>ZX</th>
<th>HD</th>
<th>HD1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed on</td>
<td>premium</td>
<td>premium</td>
<td>standard, sealed</td>
<td>standard, unsealed</td>
<td>standard, sealed</td>
<td>standard, sealed</td>
<td>standard, sealed</td>
<td>standard, sealed</td>
<td></td>
</tr>
<tr>
<td>Amp rating (A)</td>
<td>0.1 to 11</td>
<td>1 to 7</td>
<td>0.1, 3</td>
<td>0.1, 3, 10, 1, 16</td>
<td>0.1, 3, 6</td>
<td>0.1, 3</td>
<td>0.1 to 3</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>115 Vac, 125 Vac, 250 Vac, 30 Vdc</td>
<td>125 Vac, 250 Vac, 28 Vdc</td>
<td>125 Vac, 250 Vac, 30 Vdc</td>
<td>125 Vac, 250 Vac, 30 Vdc</td>
<td>125 Vac, 48 Vdc</td>
<td>125 Vac, 12 Vdc</td>
<td>12 Vac</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circuitry</td>
<td>SPDT</td>
<td>SPDT, SPNO</td>
<td>SPDT</td>
<td>SPDT, SPNO, SPNC</td>
<td>SPDT, SPNO, SPNC</td>
<td>SPDT</td>
<td>SPDT, SPNO, SPNC</td>
<td>SPNO, SPNC</td>
<td></td>
</tr>
<tr>
<td>Operating force (gf)</td>
<td>0.04 oz to 2 oz</td>
<td>0.71 oz to 6 oz</td>
<td>130 to 195</td>
<td>0.18 oz to 8.76 oz</td>
<td>12 to 355</td>
<td>1.94 oz to 7.16 oz</td>
<td>0.53 oz to 5.3 oz</td>
<td>130 max</td>
<td></td>
</tr>
<tr>
<td>Terminations</td>
<td>quick connect, solder, pcb</td>
<td>quick connect, solder, pcb</td>
<td>solder, pcb, pre-wired</td>
<td>quick connect, solder, pcb</td>
<td>quick connect, solder, pcb</td>
<td>quick connect, solder, cable</td>
<td>solder, pc</td>
<td>solder, pcb, pre-wired</td>
<td></td>
</tr>
<tr>
<td>Actuators/ levers</td>
<td>pin plunger, straight, roller, sim. roller, paddle</td>
<td>pin plunger, straight, roller, sim. roller, offset flag, crossed roller</td>
<td>pin plunger, straight, sim. roller</td>
<td>pin plunger, straight, roller, sim. roller, L-shaped</td>
<td>pin plunger, straight, roller, sim. roller, L-shaped</td>
<td>pin plunger, straight, sim. roller, special</td>
<td>pin plunger, lever, sim. roller, formed lever</td>
<td>pin plunger</td>
<td></td>
</tr>
<tr>
<td>Approvals</td>
<td>UL, CSA, ENEC, CE</td>
<td>UL, CSA, ENEC, CE</td>
<td>UL, cUL, CE, ENEC</td>
<td>UL, CSA, CE</td>
<td>UL, cUL, CE, ENEC</td>
<td>UL, CSA, CE</td>
<td>UL, cUL, ENEC, CQC</td>
<td>UL, cUL, ENEC, CQC</td>
<td></td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-55 to 121/204</td>
<td>-55 to 121/204</td>
<td>-40 to 85</td>
<td>-40 to 120</td>
<td>-40 to 125</td>
<td>-25°C to 70°C/120°C</td>
<td>-40 to 65</td>
<td>-40 to 125</td>
<td></td>
</tr>
<tr>
<td>Contacts</td>
<td>silver, gold</td>
<td>silver, gold</td>
<td>silver, gold-plated silver</td>
<td>silver, gold-plated silver, silver-tin-oxide</td>
<td>silver, gold-plated silver, silver &amp; brass, silver-tin-oxide</td>
<td>silver, gold-plated silver</td>
<td>silver, gold-plated silver</td>
<td>silver alloy</td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>phenolic</td>
<td>phenolic</td>
<td>PBT polyester</td>
<td>polyamide (nylon)</td>
<td>polyamide (nylon)</td>
<td>PBT polyester</td>
<td>polyamide (nylon)</td>
<td>polyamide (nylon)</td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>H x W x L</td>
<td>12.7 x 6.35 x 20.3</td>
<td>12.7 x 6.35 x 20.3</td>
<td>10.6 x 6.35 x 19.8</td>
<td>10.6 x 6.4 x 19.8</td>
<td>9.0 x 6.4 x 19.8</td>
<td>6.5 x 5.7 x 12.7</td>
<td>7.4 x 5.4 x 14.7</td>
<td></td>
</tr>
</tbody>
</table>

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**PRODUCT SERIES AND DATASHEETS**

Click the product or series to view the Series datasheet.

- SM
- SX
- ZD
- ZM
- ZM1
- ZW
- ZX
- HD
- HD1

**APPLICATIONS**

- **Presence Detection**: Ensures door latching and safe operation
- **Flow Switch**: Enables safe and efficient water usage
- **Power Switch**: Reliable system control for motors, pumps, fans
- **Operator Controls**: Interface control for system auxiliary functions
- **Pressure Switch**: Detection and warning of high pressure or over pressure events

**SUPPORTING DOCUMENTATION**

Click the document title or icon to view the material.

- Applying Precision Switches
- Sensors and Switches for Medical Applications
- Industrial Applications Brochure
- Watertight Switches in Transportation

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