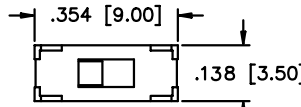
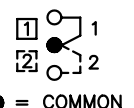
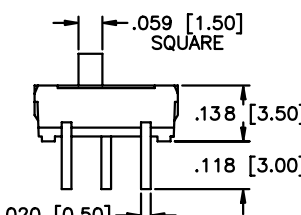
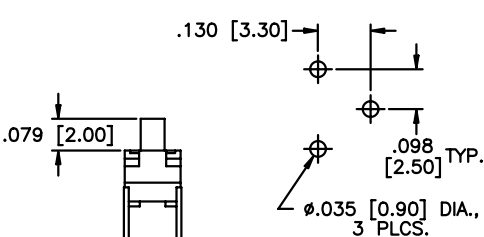
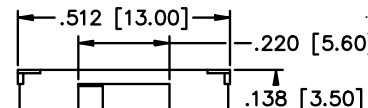
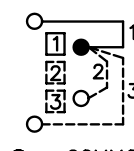
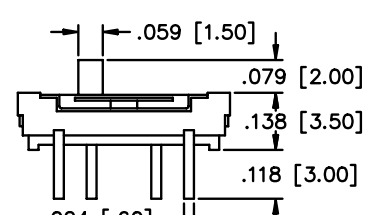
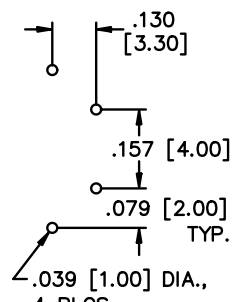
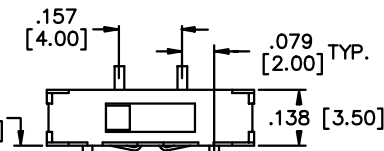
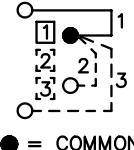
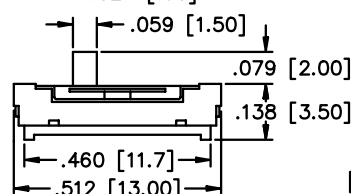
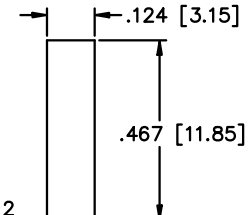


# MS Series

## Microminiature Slide Switches

| SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                         | FEATURES                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact rating:</b> 300 mA at 6 VDC<br><b>Initial contact resistance:</b> 70 milliohms max.<br><b>Insulation resistance:</b> 100 megohms max. at 500 VDC<br><b>Dielectric strength:</b> 500 volts RMS at sea level<br><b>Electrical life:</b> 10,000 cycles min.<br><b>Operating temperature range:</b> -10°C to +60°C<br><b>Solder heat resistance:</b> 260°C max. for 3 seconds<br><b>Washing not recommended</b> | <ul style="list-style-type: none"> <li>● Low profile.</li> <li>● Insert molded terminals.</li> <li>● Stainless steel cover.</li> </ul>                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | MATERIALS                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Contacts &amp; terminals:</b> Silver plated<br><b>Cover:</b> Stainless steel<br><b>Actuator:</b> Thermoplastic<br><b>Base:</b> High temperature thermoplastic <b>Terminal seal:</b> Insert molded |

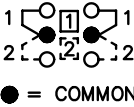
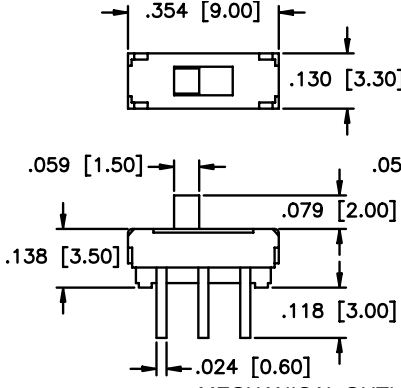
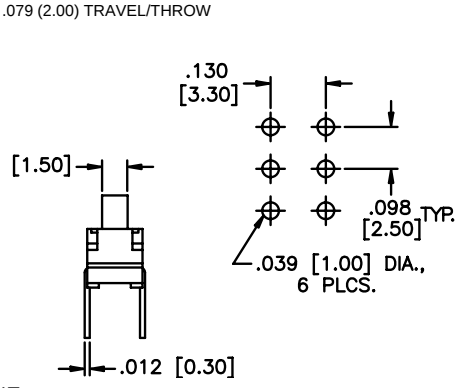
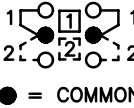
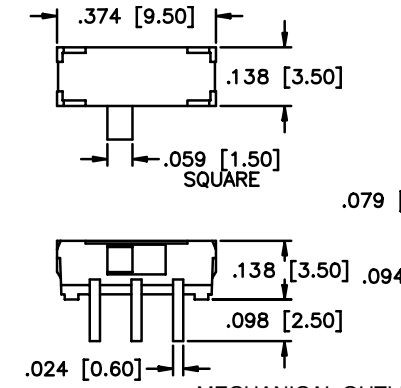
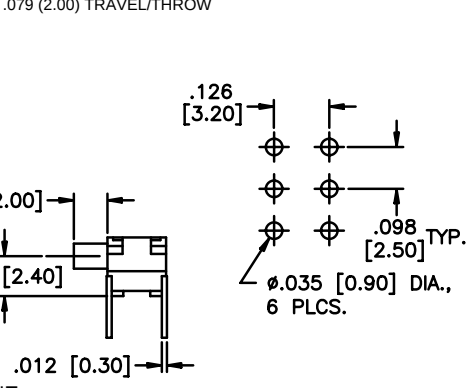
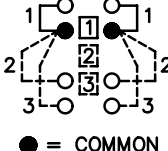
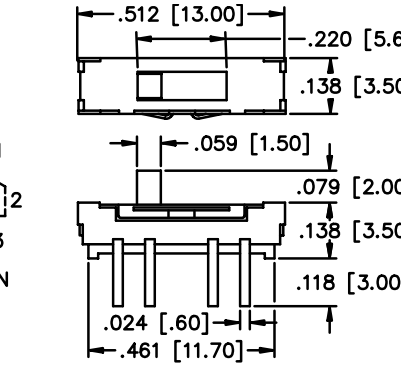
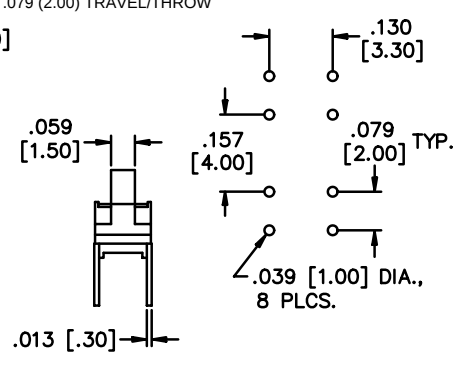
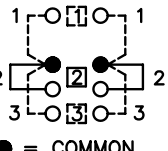
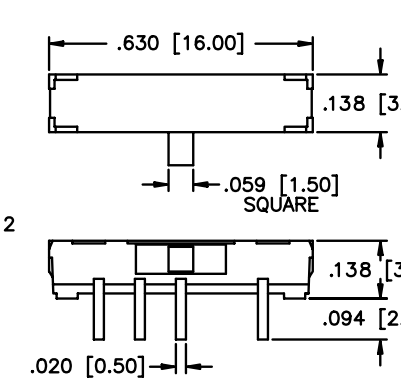
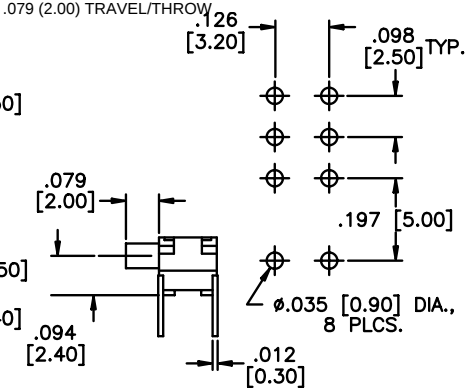
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|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL NO.</b><br><b>MS12</b>  | <b>1P2T</b>  <p>.354 [9.00]    .138 [3.50]    .079 (2.00) TRAVEL/THROW</p>  <p>1 2<br/>● = COMMON</p>  <p>.059 [1.50] SQUARE    .138 [3.50]    .118 [3.00]    .020 [0.50]</p>  <p>.130 [3.30]    .098 [2.50] TYP.    .035 [0.90] DIA., 3 PLCS.</p> <p>VERTICAL ACTUATOR    SCHEMATIC    MECHANICAL OUTLINE    P.C. BOARD LAYOUT</p>                                                |
| <b>MODEL NO.</b><br><b>MS13</b>  | <b>1P3T</b>  <p>.512 [13.00]    .220 [5.60]    .138 [3.50]    .079 (2.00) TRAVEL/THROW</p>  <p>1 2 3<br/>● = COMMON</p>  <p>.059 [1.50]    .079 [2.00]    .138 [3.50]    .118 [3.00]    .024 [.60]</p>  <p>.130 [3.30]    .157 [4.00]    .079 [2.00] TYP.    .039 [1.00] DIA., 4 PLCS.</p> <p>VERTICAL ACTUATOR    SCHEMATIC    MECHANICAL OUTLINE    P.C. BOARD CUTOUT</p> |
| <b>MODEL NO.</b><br><b>MS13S</b> | <b>1P3T</b>  <p>.157 [4.00]    .079 [2.00] TYP.    .138 [3.50]    .059 [1.50]    .024 [.60]</p>  <p>1 2 3<br/>● = COMMON</p>  <p>.059 [1.50]    .079 [2.00]    .138 [3.50]    .118 [3.00]    .012 [0.30]    .460 [11.7]    .512 [13.00]</p>  <p>.124 [3.15]    .467 [11.85]</p> <p>VERTICAL ACTUATOR    SCHEMATIC    MECHANICAL OUTLINE    P.C. BOARD LAYOUT</p>            |

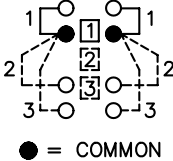
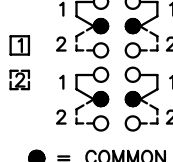
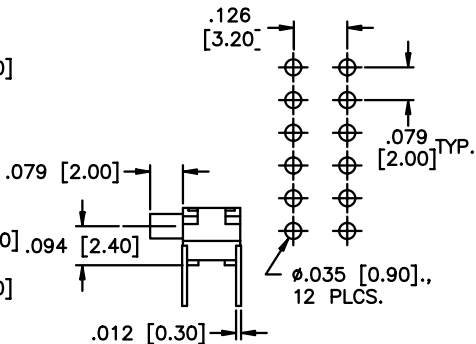
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

# MS Series

## Microminiature Slide Switches

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

|                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>MODEL NO.</div> <div>MS22</div> <div>  </div> <div>VERTICAL ACTUATOR</div>       | <div>2P2T</div> <div>  <p>● = COMMON</p> </div> <div>  <p>MECHANICAL OUTLINE</p> </div> <div>  <p>P.C. BOARD LAYOUT</p> </div>       |
| <div>MODEL NO.</div> <div>MS22R</div> <div>  </div> <div>RIGHT ANGLE ACTUATOR</div>  | <div>2P2T</div> <div>  <p>● = COMMON</p> </div> <div>  <p>MECHANICAL OUTLINE</p> </div> <div>  <p>P.C. BOARD LAYOUT</p> </div>    |
| <div>MODEL NO.</div> <div>MS23</div> <div>  </div> <div>VERTICAL ACTUATOR</div>     | <div>2P3T</div> <div>  <p>● = COMMON</p> </div> <div>  <p>MECHANICAL OUTLINE</p> </div> <div>  <p>P.C. BOARD LAYOUT</p> </div> |
| <div>MODEL NO.</div> <div>MS23R</div> <div>  </div> <div>RIGHT ANGLE ACTUATOR</div> | <div>2P3T</div> <div>  <p>● = COMMON</p> </div> <div>  <p>MECHANICAL OUTLINE</p> </div> <div>  <p>P.C. BOARD LAYOUT</p> </div> |

|                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>MODEL NO.</div> <div>MS23S</div> </div> <div>  </div> <div>VERTICAL ACTUATOR</div>    | <div> <div>2P3T</div> <div>  <p>● = COMMON</p> </div> <div> <p>MECHANICAL OUTLINE</p> </div> <div> <p>P.C. BOARD CUTOUT</p> </div> </div>                                                                                     |
| <div> <div>MODEL NO.</div> <div>MS42R</div> </div> <div>  </div> <div>RIGHT ANGLE ACTUATOR</div> | <div> <div>4P2T</div> <div>  <p>● = COMMON</p> </div> <div> <p>MECHANICAL OUTLINE</p> </div> <div>  <p>P.C. BOARD LAYOUT</p> </div> </div> |

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