ZMA Series
Subminiature Snap-acting Switches

Features/Benefits
• Reliable snap-acting mechanism
• Long electrical and mechanical life
• Compact size—ideal when space is limited
• Various PCB terminals and actuators
• RoHS compatible & compliant

Typical Applications
• PCB detection switch
• Communication devices
• Testing equipment
• Security/Alarm systems
• Consumer electronics

Specifications
CONTACT RATING: 3A @ 125 V AC 24 V DC
1 A @ 125 / 250 V AC 24 V DC
0.1A @ 125 V AC 60 V DC
ELECTRICAL LIFE: 300,000 cycles @ 0.1A / 10,000 cycles @ 3A.
MECHANICAL LIFE: 1,000,000 cycles.
INSULATION RESISTANCE: 100 M ohm min.
DIELECTRIC STRENGTH: 500 Vrms.
OPERATING TEMPERATURE: –40ºC to 85ºC
OPERATING FORCE: 80 or 150 grams.

Materials
CASE/COVER: PBT
ACTUATOR: Button nylon 6/6
MOVABLE CONTACTS: Silver alloy or gold plated
STATIONARY CONTACTS: Silver alloy or gold plated
TERMINALS: Brass, silver plated.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Build-A-Switch
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-33 through J-35. For additional options not shown in catalog, consult Customer Service Center.

Silver Contacts

<table>
<thead>
<tr>
<th>Option Code</th>
<th>UL 1054</th>
<th>UL 61058-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>00A</td>
<td>0.1A 60 V DC</td>
<td>0.1A 60 V DC</td>
</tr>
<tr>
<td>03A</td>
<td>3 A 125 V AC</td>
<td>3 A 125 V AC</td>
</tr>
<tr>
<td>01A</td>
<td>1 A 24 V DC</td>
<td>1 A 24 V DC</td>
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</tbody>
</table>

Specifications and dimensions subject to change
Dimensions are shown: mm
www.ckswitches.com

Gold Plated Contacts

<table>
<thead>
<tr>
<th>Option Code</th>
<th>UL 1054</th>
<th>UL 61058-1</th>
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<tbody>
<tr>
<td>G00</td>
<td>0.1A 60 V DC</td>
<td>0.1A 60 V DC</td>
</tr>
<tr>
<td>G03</td>
<td>3 A 125 V AC</td>
<td>3 A 125 V AC</td>
</tr>
<tr>
<td>011</td>
<td>1 A 24 V DC</td>
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</table>

UL61058-1
ZMA Series
Subminiature Snap-acting Switches

**ZMA**
Subminiature Snap-Acting Switches – SP Momentary

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**SERIES**

**Publisher's Note:** Dimensions are shown: mm
Specifications and dimensions subject to change

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**ELECTRICAL RATING**

- **Silver Contacts**
  - **Option Code**
    - 00A: 0.1A 60 V DC
      - 0.1A 125 V AC
    - 03A: 3 A 125 V AC
      - 3 A 24 V DC
    - 01A: 1 A 24 V DC
      - 1 A 125 / 250 V AC
  - **UL 1054**
    - UL 61058-1
  - **UL**
    - UL 1054

- **Gold Plated Contacts**
  - **Option Code**
    - G00: 0.1A 60 V DC
      - 0.1A 125 V AC
    - G03: 3 A 125 V AC
      - 3 A 24 V DC
    - G01: 1 A 24 V DC
      - 1 A 125 / 250 V AC
  - **UL 1054**
    - UL 61058-1
  - **UL**
    - UL 1054

*Note: See Technical Data in section N of this catalog for RoHS compliant and compatible definition and specifications.*

All models ZMA with all options.
Consult Customer Service center for availability and delivery of nonstandard ratings.

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**OPERATING FORCE**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>BASIC SWITCH OPERATING FORCE (OZ./GRAMS)</th>
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<tbody>
<tr>
<td>150</td>
<td>5.29 150</td>
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<tr>
<td>080</td>
<td>2.82 80</td>
</tr>
</tbody>
</table>

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Dimensions are shown: mm
Specifications and dimensions subject to change
ZMA Series
Subminiature Snap-acting Switches

Detect

ACTUATOR

P00 PIN PLUNGER

L08 LEVER 3.95MM

S03 SIMULATED ROLLER 5.8MM

A03 ROLLER 1.3MM

L30 LEVER 20.5MM

L04 LEVER 3.49MM

L11 LEVER 7.2MM

S06 SIMULATED ROLLER 2.03MM

S07 SIMULATED ROLLER 0.75MM

Dimensions are shown: mm
Specifications and dimensions subject to change

www.ckswitches.com
ZMA Series
Subminiature Snap-acting Switches

SWITCH CHARACTERISTICS

<table>
<thead>
<tr>
<th>CODE</th>
<th>OPER. FORCE MAX. (GRAMS)</th>
<th>REL. FORCE MIN. (GRAMS)</th>
<th>A</th>
<th>FP MAX. (MM)</th>
<th>B</th>
<th>OP MAX. (MM)</th>
<th>C</th>
<th>PT MAX. (MM)</th>
<th>D</th>
<th>OT MIN. (MM)</th>
<th>E</th>
<th>MIN. (MM)</th>
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<tbody>
<tr>
<td>P00</td>
<td>80</td>
<td>150</td>
<td>21</td>
<td>35</td>
<td>7.35</td>
<td>6.9 ±0.3</td>
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<td>S03</td>
<td>25</td>
<td>43</td>
<td>5</td>
<td>7</td>
<td>14.2</td>
<td>9.8 ±0.9</td>
<td>3.5</td>
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<td>L30</td>
<td>13</td>
<td>21</td>
<td>2</td>
<td>3</td>
<td>16.8</td>
<td>9.5 ±1.9</td>
<td>6.9</td>
<td>0.55</td>
<td>20.15</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>L30</td>
<td>13</td>
<td>21</td>
<td>2</td>
<td>3</td>
<td>16.8</td>
<td>9.75 ±1.9</td>
<td>6.9</td>
<td>0.55</td>
<td>20.15</td>
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<td>L11</td>
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<td>39</td>
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