Plastic-bodied limit switches

Biggy

With four different mounting holes,
Protection class IP 65
Hinged snap lid
Two cable entries M 16 x 1.5

- Wide selection of actuators
- Snap action or slow make & break
- Galvanically separated contacts
- Forced disconnection of NC contacts (type dependant)
- Protection class IP 65
- Body and lid PA 6 which is self extinguishing (UL-94 V0) cover PC (UL-94 V0)
- 4 x 90° actuator positions
- Adjustment of the AH lever arm position in 90° increments
- Two cables entries M 16 x 1.5
- Terminals numbered in accordance with DIN EN 50013
- International approvals

Mounting
- a) Adjustable – two slots for M 4 screws (22 mm centres)
- b) Adjustable – two slots for M 4 screws (42 mm centres)
- c) Fixed – two holes for M 5 screws for safety applications (21 mm centres)
- d) Fixed - two holes for M 5 screws for safety applications (41 mm centres)

Benefits
- Two cable entries allow “through wiring”
- Hinged snap lid for quick and easy access (screwdriver release)
- Lid hinges open to 135° (can also be simply detached)
- Internal cover protects the contacts during mounting
- Screw terminals with self lifting clamps for easy wiring
- Transparent cover for easy adjustment and inspection

Options
- Contact lock (safety pull button reset)
- Contact LED display (LED protected within terminal chamber)
- Additional lid security with fixing screw

Accessory equipment page 53

Contact configuration

<table>
<thead>
<tr>
<th>Contact type</th>
<th>Switch function</th>
<th>Switch contacts</th>
<th>Reference</th>
<th>Max. Voltage</th>
<th>Max. constant current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slow make &amp; break</td>
<td>Changeover</td>
<td>1NF/1NO</td>
<td>U1J1Z</td>
<td>500 V</td>
<td>10 A</td>
</tr>
<tr>
<td>Snap action</td>
<td>Changeover</td>
<td>1NF/1NO</td>
<td>SU1Z</td>
<td>500 V</td>
<td>10 A</td>
</tr>
<tr>
<td>Slow make &amp; break</td>
<td>Changeover</td>
<td>2NF</td>
<td>A2Z</td>
<td>400 V</td>
<td>5 A</td>
</tr>
</tbody>
</table>
Designation
Part number
Circuit diagram

Forced disconnect to
IEC 947-5-1 chapter 3
Za: not galvanically separated contacts
Zb: galvanically separated contacts
Slow make & break/snap-action
Internal seal (iw)/external seal (w)

Contact travel mm (inch)
Tol. ± 0.25 mm
Actuator force N
Tol. ± 10%
Actuator angle °
Tol. ± 3.5°
Actuator torque Ncm
Tol. ± 10%

Voltage max.
Permanent current max.
In-rush current complies with standards
IEC 947-5-1 AC 15/DC 13
Switching frequency max.
Mechanical life – number of switching actions
Operating temperature min./max.

Approvals
Weight
Delivery: ex-stock/built to order

All dimensions in mm (inch)
<table>
<thead>
<tr>
<th>Model</th>
<th>Switch Type</th>
<th>Connections</th>
<th>Voltage</th>
<th>Current</th>
<th>Min.</th>
<th>Max.</th>
<th>Temp. Range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI-SU1Z AH</td>
<td>608.5185.012</td>
<td>Zb Zb</td>
<td>500 V AC</td>
<td>10 A</td>
<td>100min.</td>
<td>10 x 10</td>
<td>–30 °C/+80 °C</td>
<td>0.12 kg/0.26 lb</td>
</tr>
<tr>
<td>BI-SU1 AV</td>
<td>608.5186.013</td>
<td>Zb Zb</td>
<td>500 V AC</td>
<td>10 A</td>
<td>100min.</td>
<td>10 x 10</td>
<td>–30 °C/+80 °C</td>
<td>0.13 kg/0.29 lb</td>
</tr>
<tr>
<td>BI-SU1Z Hw</td>
<td>608.5171.017</td>
<td>Zb Zb</td>
<td>500 V AC</td>
<td>10 A</td>
<td>100min.</td>
<td>10 x 10</td>
<td>–22 °F/+176 °F</td>
<td>0.09 kg/0.20 lb</td>
</tr>
</tbody>
</table>

*Note: Dimensions and diagrams for each model are included in the document.*