Plastic-bodied limit switches

ENK

Euronorm standard switch according to DIN EN 50041
Protection class IP 65
Hinged snap lid

- Standard actuators to DIN EN 50041
  form A, B, C, D, F, G
- Large range of actuators
- 4 x 90° actuator positions
- Snap action or slow make & break contacts
- Galvanically separated contacts
- Forced disconnection of NC contacts
- Metal actuators for heavy duty applications
- Cable entry M 20 x 1.5
- Protection class IP 65
- Body and lid PA 6 which is self extinguishing (UL-94-V0)

Benefits
- Hinged snap lid for quick and easy access (screwdriver release)
- Lid hinges open to 150° (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

Mounting
a) Adjustable – two slots for M 5 screws
b) Fixed - two holes for M 5 screws for safety applications

Options
- Contact lock (safety pull button reset)
- Contact LED display (LED protected within terminal chamber)
- WK actuator (form F) can be supplied to order
- WR actuator (form G) can be supplied to order
- EEx certificated versions available acc. ATEX 100 a

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Standard actuators DIN EN 50041

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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</tr>
<tr>
<td>B</td>
<td>Type B</td>
</tr>
<tr>
<td>C</td>
<td>Type C</td>
</tr>
<tr>
<td>D</td>
<td>Type D</td>
</tr>
<tr>
<td>F</td>
<td>Type F (Built to order)</td>
</tr>
<tr>
<td>G</td>
<td>Type G (Built to order)</td>
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</tbody>
</table>

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>1NC/1NO</td>
<td>U1/U1Z</td>
<td>500 V</td>
<td>10 A</td>
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<tr>
<td>Snap action</td>
<td>Changeover</td>
<td>1NC/1NO</td>
<td>SU1/SU1Z</td>
<td>500 V</td>
<td>10 A</td>
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<tr>
<td>Slow make &amp; break</td>
<td>NC</td>
<td>2NC</td>
<td>A2Z</td>
<td>400 V</td>
<td>6 A</td>
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<tr>
<td>Slow make &amp; break</td>
<td>NC</td>
<td>3NC</td>
<td>A3Z</td>
<td>400 V</td>
<td>6 A</td>
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<tr>
<td>Slow make &amp; break</td>
<td>Changeover overlapping</td>
<td>1NC/1NO</td>
<td>UV1Z</td>
<td>500 V</td>
<td>10 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)**

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<tbody>
<tr>
<td>ENK-U1Z iw</td>
<td>608.1102.001</td>
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<td>ENK-A2Z Rw</td>
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</tbody>
</table>

**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.**
- 500 V AC

**Permanent current max.**
- 10 A

**In-rush current complies with standards**
- IEC 947-5-1 AC 15/DC 13

**Switching frequency max.**
- 10 x 10³

**Mechanical life – number of switching actions**
- 10 x 10⁶

**Operating temperature min./max.**
- –30 °C/+80 °C

**Standard actuator form**
- B

**Approvals**
- UL, CSA

**Weight**
- 0.15 kg/0.33 lb

**Delivery: ex-stock/built to order**
- 0.15 kg/0.33 lb
### Designation

<table>
<thead>
<tr>
<th>Part number</th>
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<tr>
<td>ENK-U1Z AHS-V</td>
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<td>ENK-SU1Z AHS-V</td>
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<td>608.1185.009</td>
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<td>ENK-A2Z AHS-V</td>
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<td>608.1835.323</td>
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<td>ENK-U1 AV</td>
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<td>608.1136.012</td>
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<td>ENK-SU1 AV</td>
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<td>608.1186.018</td>
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<tr>
<td>ENK-A2 AV</td>
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<td>608.1836.319</td>
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</table>

### 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)

- Max. contact travel: 28 mm
- Tolerance: ±0.25 mm

### Actuator force N

- Max. force: 130.5 N
- Tolerance: ±10%

### Actuator torque Ncm

- Max. torque: 24.5 Ncm
- Tolerance: ±10%

### Voltage max.

- 500 V AC

### Permanent current max.

- 10 A

### In-rush current complies with standards

- IEC 947-5-1 AC 15/DC 13

### Switching frequency max.

- 100/min.

### Mechanical life – number of switching actions

- 10 x 10^6

### Operating temperature min./max.

- –30 °C/+80 °C

### Standard actuator form

- UL, CSA

### Approvals

- UL, CSA

### Weight

- 0.23 kg/0.51 lb

### Delivery: ex-stock/built to order

- –/–

### All dimensions in mm (inch)
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Code</th>
<th>Lever Position</th>
<th>Switching Capacity</th>
<th>Ambient Temperature</th>
<th>UL / CSA</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENK-U1Z AD</td>
<td>1</td>
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<td>10 A</td>
<td>–30 °C/+80 °C</td>
<td>UL, CSA</td>
<td>0.23 kg</td>
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<td>ENK-SU1Z AD</td>
<td>2</td>
<td>608.1187.017</td>
<td>Zb 1-2-12-11</td>
<td>10 A</td>
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<td>ENK-SU1 FF</td>
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<td>–30 °C/+80 °C</td>
<td>UL, CSA</td>
<td>0.15 kg</td>
</tr>
</tbody>
</table>