Microswitches and sealed position switches

If your application depends on it

SERIES

MP800

- Plastic or metal case
- IP65-66 protection
- 30 mm, 40 mm or 50 mm case width
- Forced break switches with slow action or snap action

Safety and limit switches
Series MP800

The family MP800 of safety and limit switches with their metal or plastic housing are ideally suited to applications where precise shutdown is required. For example, when the positions of doors and access hatches are monitored. They can be used in safety circuits as the NC contact is positively-opening in compliance with IEC 60 947-5-1.

Major specifications

- Metal or plastic housing
- Forced break switch with slow action or snap action
- IP65 or 66 protections
- Positive opening operation for NC contacts
- Standards: UL – CSA
- Large selection of actuating heads

General technical data

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<th>MP800-MP810-MP850</th>
<th>MP820-MP830-MP870</th>
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<tbody>
<tr>
<td><strong>Housing</strong></td>
<td>Plastic</td>
<td>Metal</td>
</tr>
<tr>
<td><strong>Standards device conforms with</strong></td>
<td>IEC 947-5-1</td>
<td>IEC 947-5-1</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-25°C to +70°C/-13°F to +158°F</td>
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<tr>
<td><strong>Degree of protection</strong></td>
<td>IP65</td>
<td>IP66</td>
</tr>
<tr>
<td><strong>Mechanical life</strong></td>
<td>up to 30 million operations</td>
<td>up to 30 million operations</td>
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<tr>
<td><strong>Switching frequency</strong></td>
<td>3600 operations per hour</td>
<td>3600 operations per hour</td>
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<tr>
<td><strong>Switching mechanism</strong></td>
<td>forced break slow action or snap action</td>
<td>interruption forcée slow action or snap action</td>
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<tr>
<td><strong>RATING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conventional thermal current</td>
<td>10A</td>
<td>10A</td>
</tr>
<tr>
<td>Short circuit protection</td>
<td>10A</td>
<td>10A</td>
</tr>
<tr>
<td>Rated operational current</td>
<td>• <strong>240VAC</strong> 10A</td>
<td>• <strong>250VDC</strong> 10A</td>
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<tr>
<td></td>
<td>• <strong>AC-15 3A</strong></td>
<td>• <strong>DC-13 0.27A</strong></td>
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### Dimensions (in mm)
#### EN 50 041

**MP850**

- **Case**
  - EN 50 047
- **Opening**
  - 1 PG 13.5
  - 2 1/2" NPT, with optional adapter (MP 810)
- **Switching Block**
  - 1 Snap-action, 1NO+1NC
  - 2 Snap-action, 2NC
  - 3 Slow-action, non-overlapping, 1NO+1NC
  - 4 Slow-action, overlapping, 1NO+1NC
  - 5 Slow-action, 2NC

**MP870**

- **Case**
  - EN 50 041
- **Opening**
  - 5 plastic 40 mm
  - 7 metal 40 mm
- **Switching Block**
  - 6 Slow-action, non-overlapping, 2NO+1NC
  - 8 Slow-action, simultaneous, 3NC

### Dimensions (in mm)
#### EN 50 047

**MP800**

- **Case**
  - EN 50 047
- **Opening**
  - 3 PG 11, only for EN 50 047
  - 4 M16, only for EN 50 047
  - 5 M20
- **Switching Block**
  - 7 Slow-action, non-overlapping, 1NO+2NC

**MP810**

- **Actuator**
  - See pictures

**MP820**

**MP830**

- **Actuator**
  - See pictures
MP800 position switches
Ideally suited for rugged industrial applications

Wide product range

With a wide range of actuators in line with the functions that are required in the field, the MP800 position switches can be used to:
- Monitor protective devices with hinged joints, such as swivelling doors, hatches, covers, etc.
- Monitor protective devices which can be moved sideways, such as sliding doors, protective gates, etc.
- Detect hazardous machinery motion; dimensions, mounting locations and characteristic values, are to a large extent, in conformance with EN 50 041 and EN 50 047.

Positively-opening contacts
(IEC 60947-5-1)

Positively-opening NC contacts are expressly specified for the electrical equipment of machines. This is designated using the ☹ symbol in compliance with IEC 60 947-5-1 (personnel protection function). Safety is done on contacts NC.

Examples of applications

Key safety switch  Shaft safety switch  Z lever safety switch
Trust more than 50 years of experience!

Companies, whose activities encompass such different areas as food processing, chemicals, machine-tools, transport, etc., have long been placing their trust in Microprecision Electronics SA; indeed, they have found them to be a first-class and reliable partner, able to supply tailor-made products which meet international standards.

56 basic types of switches and more than 1000 possibilities let to you foresee the number of possible applications in industries where a harsh environment requires the highest technological competences.

Microprecision Electronics SA has set itself the task of listening to its clients’ expectations so that it can provide them with tailor-made solutions from the production of small runs.

For more information, please contact one of our resellers or visit our website: www.microprecision.ch