ACE V Sensors
Vibration Sensors for Process Monitoring

Process monitoring becomes more and more important in the field of automation. Permanent process monitoring recognizes and localizes malfunctions in the automation process early, thus preventing expensive repair, maintenance and downtime. These new, innovative ACE vibration sensors support the field of pick and place technology and automation, e.g., in linear modules, rotary actuators and grippers. The sensors are positively connected with the device (e.g., C-slot) and permanently monitor the vibration level during the work process. If an increase of vibrations caused by an overload, varying drive power and decreasing damping performance above the preset nominal value is detected, the sensor changes its switching status to open or closed, depending on the design. The process is interrupted via the connection to the monitoring system. Expensive repair and maintenance costs can thereby be avoided.

The new ACE sensors are available in versions PNP, NPN and analogue.
**Type: VS-35-A**

- Analogue 0 – 35 g (~270 mV/g)
- Measuring range: 35 g
- Power supply: 15 – 30 VDC
- ON Output voltage: 0 – 10 VDC
- Max output current: 5 mA
- Environmental protection degree: IP 67
- Polarity reversal protection: yes
- Operating temperature range: -10°C to +70°C

**Type: VS-35-PNP**

- PNP switching (ten-stage adjustable)
- Measuring range: 35 g
- Power supply: 12 – 30 VDC
- Max switching current: 0,2 A
- Voltage drop: max. 2 V
- Environmental protection degree: IP 67
- Polarity reversal protection: yes
- Operating temperature range: -10°C to +70°C

**Type: VS-35-NPN**

- NPN switching (ten-stage adjustable)
- Measuring range: 35 g
- Power supply: 12 – 30 VDC
- Max switching current: 0,2 A
- Voltage drop: max. 2 V
- Environmental protection degree: IP 67
- Polarity reversal protection: yes
- Operating temperature range: -10°C to +70°C
**Dimensions**

**V Sensor**

- Dimensions:
  - **M8**
  - **M2**
  - **22**
  - **27**
  - **3,6**

**Adaptor**

- Dimensions:
  - **18**
  - **24**

Sensor can be swiveled about groove by 45°

**Mounting in C-slot, Parallel to Measuring Direction**

**Mounting in C-slot, 90° to Measuring Direction**

Two screws M3 DIN EN ISO 4762
Mounting Options for Cylinder, T- or Dovetail Slot

Adaptor for Dovetail Slot

Adaptor for T-Slot

Adaptor

LBX-SD

LB-SD

LBX-SD

LB-SD

1 Included with the sensor.

Cylinder Holding Clamps

<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-SD10</td>
<td>10</td>
</tr>
<tr>
<td>LB-SD12</td>
<td>12</td>
</tr>
<tr>
<td>LBX-SD14</td>
<td>14</td>
</tr>
<tr>
<td>LB-SD16</td>
<td>16</td>
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<tr>
<td>LB-SD20</td>
<td>20</td>
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<tr>
<td>LB-SD25</td>
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<tr>
<td>LBX-SD33</td>
<td>33</td>
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<tr>
<td>LBX-SD45</td>
<td>45</td>
</tr>
<tr>
<td>LBX-SD65</td>
<td>65</td>
</tr>
</tbody>
</table>

On request special mounting accessories available.

Mounting with Through Holes

Three holes for screws
M3 DIN EN ISO 4762