

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.



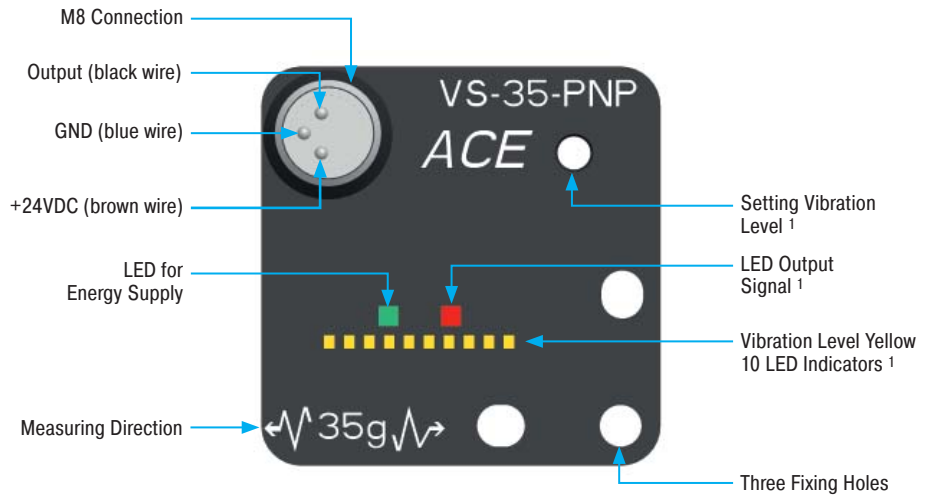
Red LED lights up



Green LED lights up

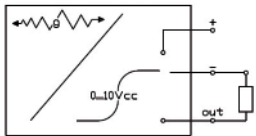


Adaptor for C-Slot Fitting and two mounting screws M3 included with the sensor



¹ Not applicable for analogue version.

Type: VS-35-A



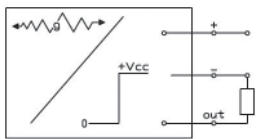
Mounting in C-slot 90° to measuring direction



Mounting in C-slot parallel to measuring direction

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



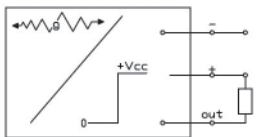
Mounting in C-slot 90° to measuring direction



Mounting in C-slot parallel to measuring direction

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



Mounting in C-slot 90° to measuring direction

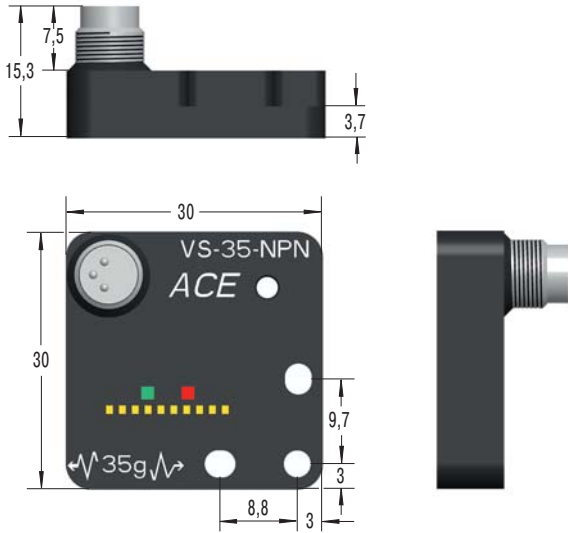


Mounting in C-slot parallel to measuring direction

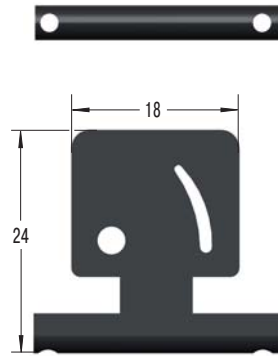
NPN switching (ten-stage adjustable)
 Measuring range: 35 g
 Power supply: 12 – 30 VDC
 Max switching current: 0,2 A
 Voltage drop: max. 2 V
 Environmental protection degree: IP 67
 Polarity reversal protection: yes
 Operating temperature range: -10° C to + 70 °C

Dimensions

V Sensor

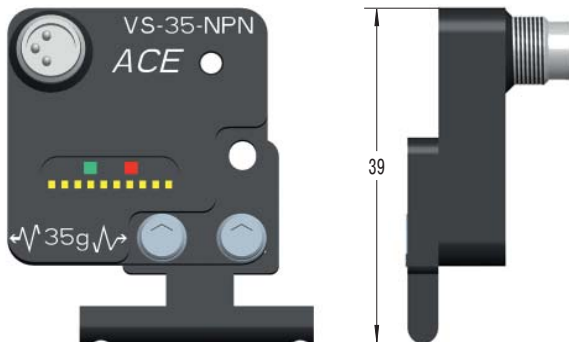
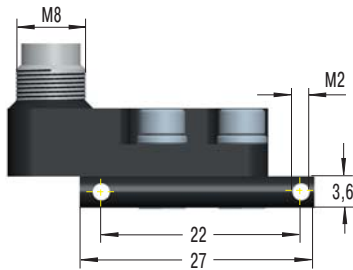


Adaptor



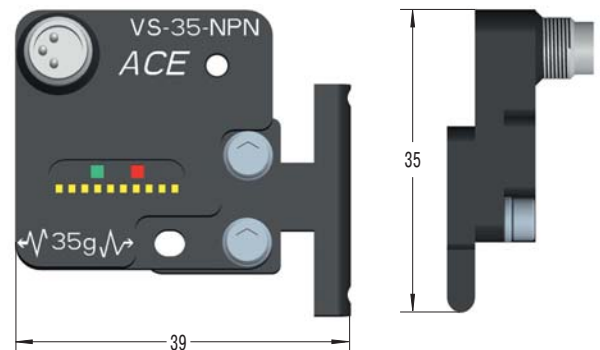
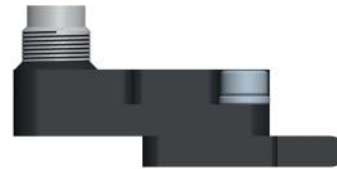
Sensor can be swiveled about groove by 45°

Mounting in C-slot, Parallel to Measuring Direction



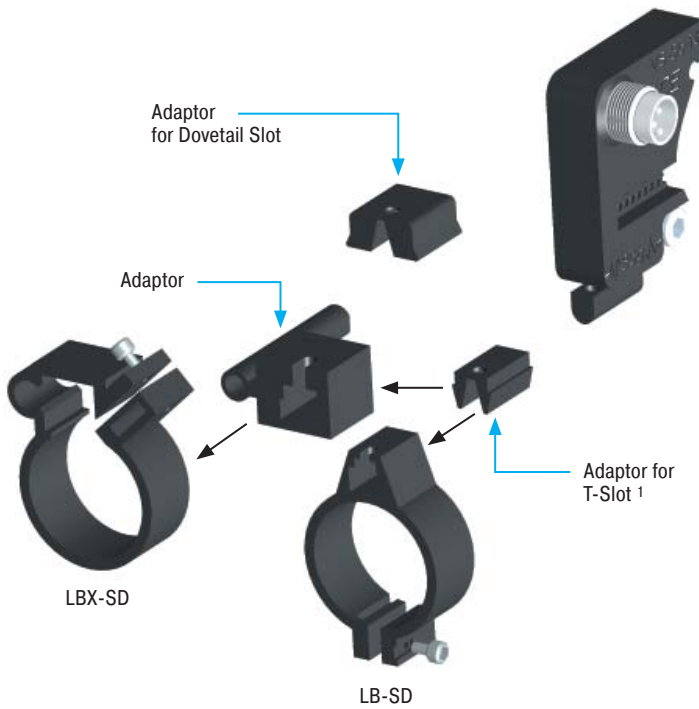
Two screws M3 DIN EN ISO 4762

Mounting in C-slot, 90° to Measuring Direction



Two screws M3 DIN EN ISO 4762

Mounting Options for Cylinder, T- or Dovetail Slot



¹ Included with the sensor.

Cylinder Holding Clamps

Type	Nominal Diameter
Part Number	
LB-SD10	10
LB-SD12	12
LBX-SD14	14
LB-SD16	16
LB-SD20	20
LB-SD25	25
LBX-SD33	33
LBX-SD45	45
LBX-SD65	65

Mounting with Through Holes



Three holes for screws
M3 DIN EN ISO 4762

On request special mounting accessories available.