

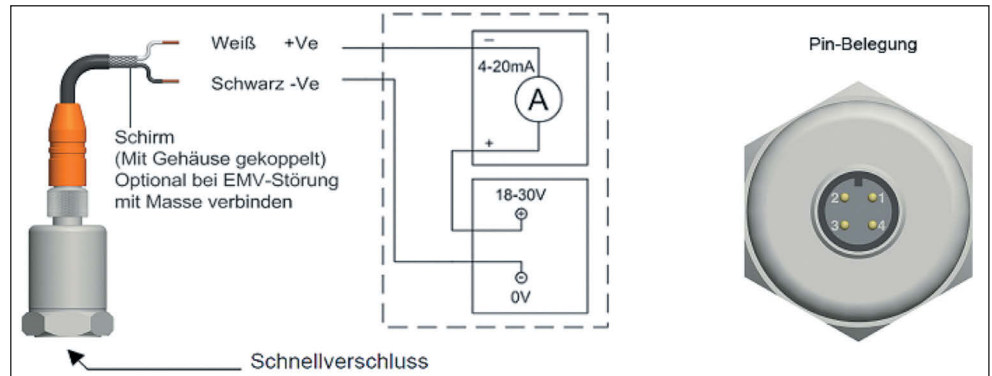
VIB 1185AQS

When ordering, please specify the desired measuring range (-0XX) or mounting adapter and cable (see page 2)!

Vibration transducer with plug-in connection and quick-release fastener



Illustration with adapter



VIB-1185AQS-10

Messbereich: 0–10 mm/s

VIB-1185AQS-20

Messbereich: 0–20 mm/s

VIB-1185AQS-50

Messbereich: 0–50 mm/s

The VIB-1185AQS-0XX vibration sensors have a signal output of 4-20 mA. This simplifies integration into an existing PLC or DCS system. The transducer with integrated signal converter can be used on many measuring systems. Thanks to a large number of mounting adapters that can be fitted to this transducer using quick-release fasteners, it can be easily mounted on a wide variety of machines.

Technical Data

Measuring range (-0XX):	4-20 mA at 0-10 mm/s, 0-20 mm/s, 0-50 mm/s Vrms (according to ISO 10816) (other sensitivities on request)
Linearity error / measuring error:	< 5% / < 5%
Long-term stability:	±1% / 10 years
Maximum impact load:	500 g (4900 m/s ²)
Frequency range:	2 Hz - 1 kHz ± 10% (3 dB at 0.8 Hz)
Resonant frequency:	> 18 kHz (screwed). Measuring range: max. ± 50g (490 m/s ²), depending on the selected sensitivity.
Isolation:	Capacitively decoupled housing
Output impedance:	< 200 Ω
Noise:	< 0.3 mg
Cross sensitivity:	5%
Power supply:	18 - 30 Volt DC (smoothed) with 4 to 20 mA. For indirect current measurement with burden resistor (RB = 50 Ω - 100 Ω).
Protection class:	IP67
Width across flats / tightening torque:	SW 29 mm / 8 Nm
Dimensions D x L:	Ø 33 mm x 51 mm (without cable and adapter)
Weight:	130 g
Housing material:	Rustproof steel
Operating temperature range:	-40 °C to +120 °C (without taking the connection cable into account)
Temperature sensitivity:	0.08% / K
Plug connection:	4-pin (PUR / halogen and silicone-free) PIN 2 (white) +Ve PIN 4 (black) - Ve PIN 3 (blue) and PIN 1 (brown) not connected

Dimensions

Mounting adapters and transducers are equipped with 'Quickfit' threads for easy mounting of the transducer on the respective measuring station. The mounting adapter is available in M6, M8, M10 and as an adhesive version. Other threads on request.

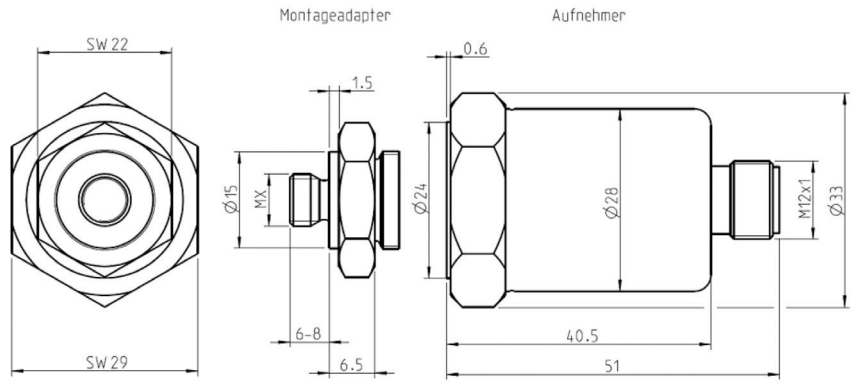
Article number:

VIB MS001 Adhesive adapter

VIB MS002 M8 adapter

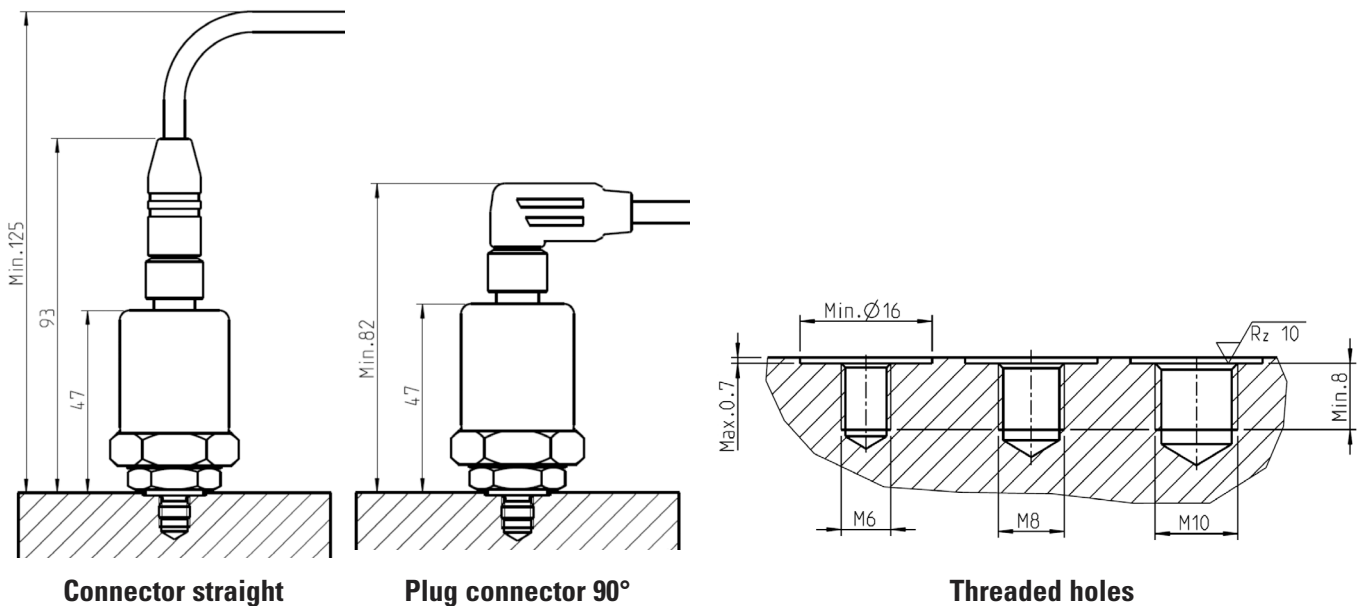
VIB MS003 M10 adapter

VIB MS006 M6 adapter



For exact dimensions and tightening torques, see TD-MSXXX.

Installation dimensions



Kabelvarianten

Article number	Description
VIB CA-M12-5M	Cable in 5 m length with straight connector (standard)
VIB CA-M12-10M	Cable in 10 m length with straight plug connector
VIB CA-M12-15M	15 m cable with straight connector
VIB CA-M12-30M	30 m cable with straight connector
VIB CA-M12W-5M	Cable in 5 m length with 90° plug connector
VIB PS-M8	Set with washers for 90° connector (to determine the direction of the cable)

Declaration of conformity

Product: VIB-1185AQS-X

Type: Vibration transducer

We declare in our sole responsibility that this product is conform to following standards or standardized documents:

- EN 61 000-4-2 Interference resistance against ESD
- EN 61 000-4-3 Interference resistance against electromagnetic fields
- EN 61 000-6-7 Immunity requirements for equipment intended to perform functions in a safety-related system
- DIN EN IEC 63000 VDE 0042 (RoHS)

 Affixed CE Marking Status Pro GmbH.

Signature of authorized person



David Foley, CEO

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This document was created with the utmost care! Nevertheless, errors and omissions excepted!

