VIBROTECTOR®

Effective machine protection

PRÜFTECHNIK

VIBROTECTOR® is the ideal vibration monitor for all machines which run under approximately constant operating conditions such as, e.g.:

- Fans
- Ventilators
- Pumps
- Electric motors

VIBROTECTOR® records broadband machine vibrations and transfers the resulting overall value as a current signal (4-20 mA) to the connected process control system. This value is compared with specified alarm thresholds and an alarm issued to the operating personnel if a value is exceeded.

10 great reasons for vibration monitoring with VIBROTECTOR®

- Continuous vibration monitoring
- Direct alarm notification in the control system
- Simple to mount on the machine
- Low installation costs
- No additional hardware required
- No additional supply voltage required
- Robust compact design
- 4-20mA output
- Conforms to ISO 10816-3
- Ideal for OEMs

optional

RELIABLE

SIMPLE

LOW COST

Order information

VIBROTECTOR is available in different versions which each differ in frequency range and measurement range. Intrinsically safe versions for explosive areas are available as an option.

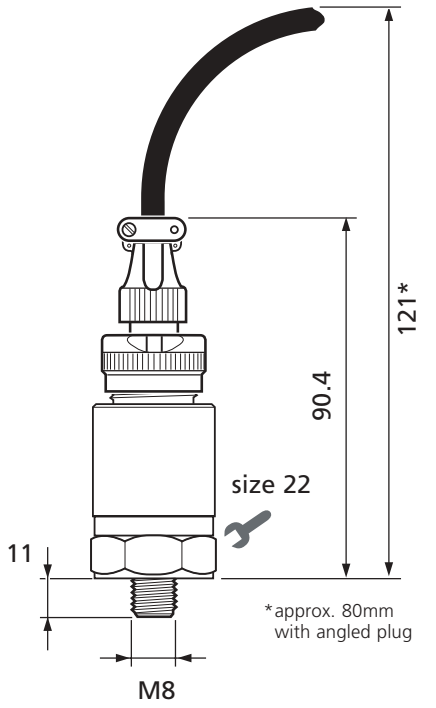
VIBROTECTOR, 10 mm/s, 10 Hz - 1kHz	VIB 5.730
Intrinsically safe version	VIB 5.730 EX
VIBROTECTOR, 20 mm/s, 10 Hz - 1kHz	VIB 5.731
Intrinsically safe version	VIB 5.731 EX
VIBROTECTOR, 10 mm/s, 2 Hz - 1kHz	VIB 5.735
Intrinsically safe version	VIB 5.735 EX
VIBROTECTOR, 20 mm/s, 2 Hz - 1kHz	VIB 5.736
Intrinsically safe version	VIB 5.736 EX
Limiting device for explosive areas	VIB 3.551
VIBROTECTOR connection cables	
for non-explosive areas:	
- with straight plug, 5m	VIB 5.740-5
- with angled plug, 5m / 10m	VIB 5.741-5 / VIB 5.741-10
for explosive areas:	
- with straight plug, 6m, 12m	VIB 3.570-6 / VIB 3.570-12

Technical data

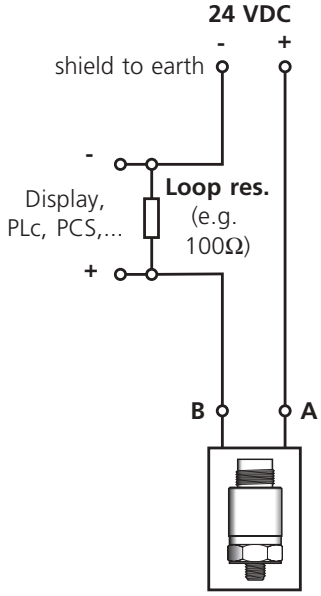
Output signal	Current level (4-20mA)
Resonance frequency	17 kHz
Insulation	complete
Temperature range	-25°C ... + 80°C
Temperatur sensitivity	- 0.4 µA/K
Supply voltage (loop power)	24VDC(±5%)
Loop resistance	90 ... 360 Ohm
Weight	80g
Env. protect. (w. special cable)	IP 67 (IP68)
Connector type	Cable connector, 2pin (Cannon, Mil-C5015)
Housing	stainless steel, VA 1.4305
Mounting	M8 thread

VIB 5.730	
Meas. range	up to 10 mm/s
Frequency range ±10%	10 Hz ... 1 kHz
applicabel for rot. speed	> 600 rpm
VIB 5.731	
Meas. range	up to 20 mm/s
Frequency range ±10%	10 Hz ... 1 kHz
applicabel for rot. speed	> 600 min^{-1}
VIB 5.735	
Meas. range	up to 10 mm/s
Frequency range ±10%	2 Hz ... 1 kHz
applicabel for rot. speed	≥ 120 min^{-1}
VIB 5.736	
Meas. range	up to 20 mm/s
Frequency range ±10%	2 Hz ... 1 kHz
applicabel for rot. speed	≥ 120 min^{-1}

Dimensions and mounting height [in mm]



Connection to PLC, PCS,...



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