

VIBROTECTOR[®]

Vibration transmitter for effective machine protection



• Reliable

• Easy to use

• Low cost

VIBROTECTOR® – robust machine vibration transmitter



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 to monitor your machine vibrations 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

4-20 mA output

Conforms to ISO 10816-3 & 10816-7

Ideal for OEMs



Certified ATEX and IECEx for Zone 1/21

Order information

VIBROTECTOR® is available in two versions which differ in frequency range. Both versions are also available with intrinsic safety.

VIBROTECTOR®, 10 Hz-1kHz	VIB 5.731
Intrinsically safe version	VIB 5.731 EX
VIBROTECTOR®, 2 Hz-1kHz	VIB 5.736
Intrinsically safe version	VIB 5.736 EX
Limiting device for hazardous areas	0 2088 0010

Connection cables for industrial areas:

– with straight plug	VIB 5.740-X
– with angled plug	VIB 5.741-X

Connection cables for hazardous areas:

– with straight plug	VIB 3.570-L
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L: cable length in meters

Technical data

Output signal	Current level (4-20 mA)
Resonance frequency	17 kHz
Measurement range	up to 20 mm/s
Frequency range ±10%	VIB 5.731 (n > 600 min ⁻¹)
VIB 5.731 (rot. speed > 600 rpm)	10 Hz to 1 kHz
VIB 5.736 (rot. speed > 120 rpm)	2 Hz to 1 kHz
Insulation	complete
Temperature range	-30°C to + 80°C
Temperatur sensitivity	- 0.4 µA/K
Supply voltage (loop power)	24 VDC(±5%)
Loop resistance	90 to 360 Ohm
Weight	80g
Protection class (w. special cable)	IP 67 (IP 68)
Cable connector type	Cannon, Mil-C5015
Housing	VA 1.4305 (stainless steel)
Mounting	M8 thread

Class Protection in EX Zones



Protection Gas Explosion	II 2G Ex ib IIC T4 Gb
Protection Dust Explosion	II 2G Ex ib IIIC T135°C Db

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