



Redundant vibration monitor



Redundant vibration monitor

Areas of application:

Vibration monitoring of rotating machines
(e.g. centrifuges, decanters, fans, motors)

Product specification:

- Compact vibration monitor in aluminium housing
- Measuring range fixed
- Main alarm adjustable via DIP switch
- Test function, reset function, function monitoring
- Simple installation (threaded hole M8 x M15)

Functionality:

The vibration monitor converts the machine vibrations into the measured value vibration velocity and evaluates this in accordance with DIN / ISO EN in the set frequency range.

Cable breakage, power failure, overload and limit value exceedance trigger an alarm. The functions can be tested at appropriate intervals by the machine control system.

Two independently operating vibration transmitters in a common housing.

The redundant design allows a plausibility check.

Measuring range	100 mm/s, 50 mm/s, 25 mm/s or 10 mm/s One measuring range permanently set Signal weighting: True effective value
Frequency range	1 ... 100 Hz, option 3 ... 30 Hz or 10 ... 100 Hz
Temperature range	max. +75 °C
Output current redundant	Potential-free NO contact Limit value adjustable in 10 % steps with DIP switch
Response delay alarm contact	3 seconds fixed setting, option according to customer requirements
Release delay	0,5 seconds
Aluminium housing	IP 65, 98 x 64 x 36 mm
Connection cable	7.5 m, plug / free ends
Supply voltage	24 V DC, ±10 %
Category according to EN ISO 13849	3
MTTF d Mean time to dangerous failure	91 years, calculated according to the parts count method using SN 29500 and the PL-Calculator DGU
DC Coverage ratio	Cat. 2 medium
Performance level	PL-d
Option T1	Function test: 100 % - Test of the entire measuring chain (including sensor, externally controllable)
Option S1	Measuring range 50 mm/s Relay drop-out time 20 ms