

CVS 100

Vibro-Meter Vibration Switch CVS 100

CHARACTERISTICS

- Vibration velocity
- Suitable for Universal use can be mounted: Horizontal, Vertical or at any other angle
- Housing Aluminum or Stainless Steel ATEX approved.
- Analog Output 4...+20mA
- RAW- Signal output 100 mV/g
- 1 or 2 Relays







GENERAL

The vibration switch CVS 100 allows a cost effective realization of vibration monitoring for stand-alone machines and auxiliary aggregates (e.g. fans, pumps, centrifuges, mills, gears, etc.), on whose functions important Installations or processes are depending. It allows, among other things, the monitoring according to DIN ISO 10816 Part 1-7.

Utilized for this are the Vibrations of main machine parts (pillow blocks, foundations, casings) converted by rugged acceleration pick ups in electrical signals and processed and assessed with integrated electronics.

The signal- and processing electronics is fitted together with the acceleration sensor into aluminum housing, fitted directly onto the machine to be observed.

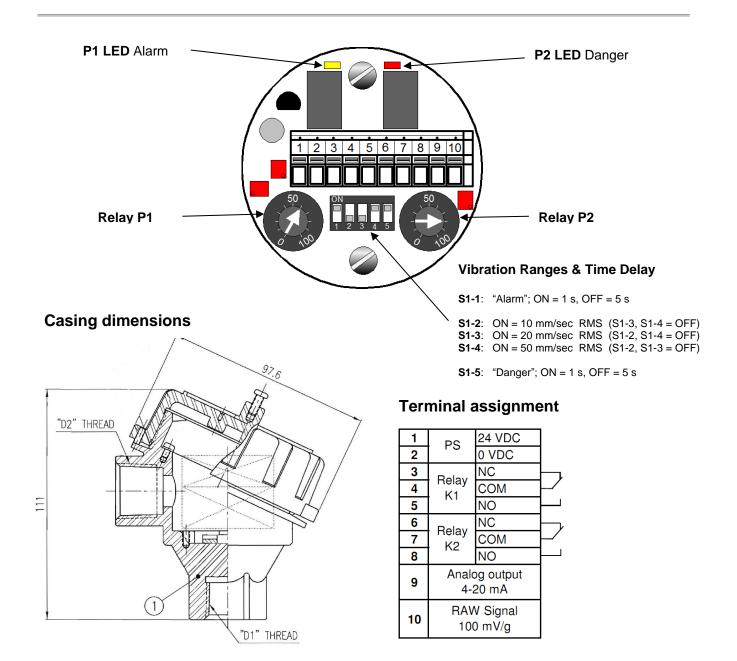
One or two adjustable level detectors with selectable response delay is allowing the signalization of "Alarm "and "Danger "via appropriate dry contacts of assigned relays.



FUNCTIONAL DESCRIPTION

The signal of the internal accelerometer is led via an amplifier and integrator as well as a bandpass filter and rectifier for further processing. The measuring ranges are selectable by dip switch. The analogue signal available here is calibrated as the effective value of the vibration velocity (mm/s effective). The signal acts on two adjustable level detectors and is available as an analogue value in the form of 4...+20mA. A raw signal of 100mV/g is also available on the terminal strip. The changeover contacts of the associated relay enable the setting up of signal circuits (Alarm / Danger).

MECHANICAL DIAGRAM

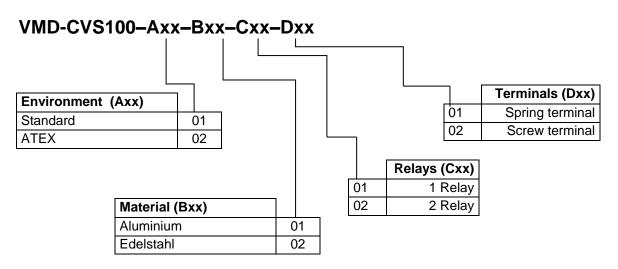


SPECIFICATIONS

10, 20 or 50 mm/s RMS
10 Hz1000 Hz (-3 dB)
4+20 mA
≤ 500 Ω
100 mV/g
≥ 20 kΩ
-30°C+70 °C
-40°C+80 °C
IP 68 housing
SIRA 14ATEX1107U
Ex d IIC T6, Ex tD A21 T100°C
Accelerometer
20+30 V _{DC}
< 50 mA
10x spring terminal, SPTA 1,5/10-3,81
(1,5mm ²) (option D 01)
10x screw terminals (option D 02)
UL 30VDC-1A / 65VDC-0,46A /150VAC-0,46A
non-latching
10%100% of Alarm Set Point
Fail safe
1sec or 5 sec
Aluminum (option B 01), Epoxy paint RAL9006 grey Stainless Steel 1.4404 (SS 316) (option B 02)
½" NPT, Brass (for A02 version), IP66 SIRA 06 ATEX 1188 X
SIRA 07 ATEX 4327 X
½" NPT, polyamide (for A01 version), IP68
1.6 kg (Stainless Steel), 0.7 kg (Aluminum)
111 x 100 mm
M12x1,75 15 mm deep

Indicator	s / Controls	
Alarm	LED	Yellow
Danger	LED	Red

ORDERING CODE



Example:

VMD-CVS100-A01-B01-C01-D01

A01 = Standard version B01 = Aluminum housing

C01 = 1 Relay

D01 = Spring terminal

Subject to change without notice

Sales Offices

The complete list can be found on our webpage: www.meggitt.com



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