

CMSS 2200 / CMSS 2200-M8

Industrial accelerometer, side exit

The CMSS 2200 accelerometer is a good multi-purpose sensor. The sensor is commonly deployed in the following industries:

- Power Generation (Fossil, Nuclear, Hydro, Wind)
- Pulp and Paper
- Mineral Processing
- Food and Beverage
- Automation
- Metals
- Water & Waste Water

Features

- For use with all SKF on-line systems, protection systems and the portable data collection instruments
- Rugged, economical and all around general purpose sensor
- 100 mV/g sensitivity to optimize use in multiple applications
- Exceptional bias voltage (BV) stability at elevated temperatures
- Designed for exceptional low noise level over a wide temperature range
- Meets CE, EMC requirements
- Captive mounting bolts (1/4-28 and M6 x 1,00) provided
- Corrosion resistant and hermetically sealed for installation in high humidity areas
- Reverse polarity wiring protection

Recommended connector/cable assembly

- CMSS 932 series

Specifications

Specifications conform to ISA-RP-37.2 (1-64) and are typical values referenced at 24 °C (75 °F), 24 V DC supply, 4 mA constant current and 100 Hz.

Dynamic

- Sensitivity: 100 mV/g
- Sensitivity precision: $\pm 5\%$ at 24 °C (75 °F)
- Acceleration range: 80 g peak
- Amplitude linearity: 1%
- Frequency range:
 - $\pm 10\%$: 1,0 to 5 000 Hz
 - ± 3 dB: 0,7 to 10 000 Hz
- Resonance frequency, mounted, nominal: 22 kHz
- Transverse sensitivity: $\leq 5\%$ of axial
- Temperature response: See graph



Electrical

- Power requirements:
 - Voltage source: 18 to 30 V DC
 - Constant current diode: 2 to 10 mA, recommended 4 mA
- Electrical noise:
 - 2,0 Hz: 20 $\mu\text{g}/\sqrt{\text{Hz}}$
- Output impedance: $< 100 \Omega$
- Bias output voltage: 12 V DC
- Grounding: Case isolated, internally shielded

Dimensions

