

# CMSS 2200 / CMSS 2200-M8

## Industrial accelerometer, side exit



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

- Power Generation (Fossil, Nuclear, Hydro)
- Pulp and Paper
- Mineral Processing
- Food and Beverage

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### 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 stringent CE, EMC requirements
- Captive mounting bolts (1/4-28, M6 x 1,00 or M8 x 1,25) 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.

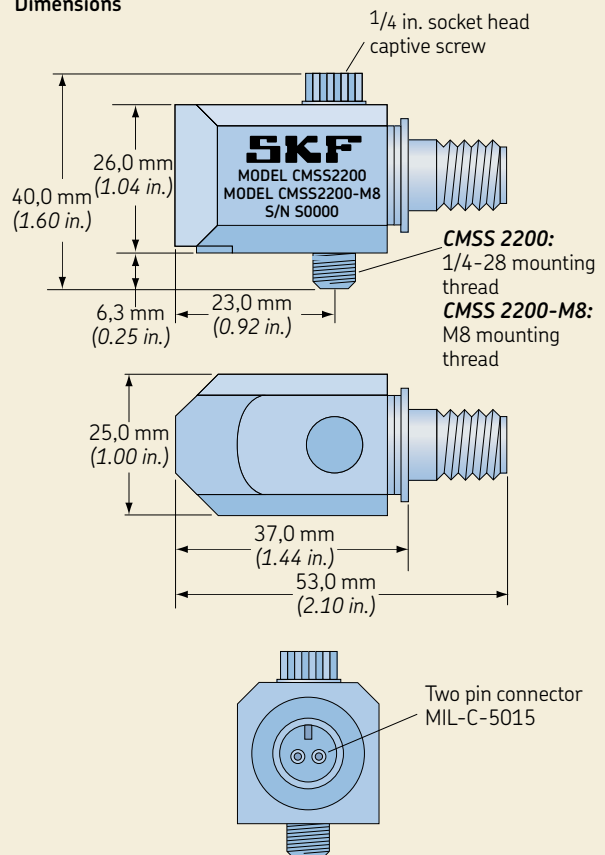
### Dynamic

- Sensitivity: 100 mV/g
- Sensitivity precision:  $\pm 10\%$  at 25 °C (75 °F)
- Acceleration range: 80 g peak
- Amplitude linearity: 1%
- Frequency range:
  - $\pm 10\%$ : 1,0 to 5 000 Hz
  - $\pm 3$  dB: 0,7 to 10 000 Hz
- Resonance frequency, mounted, minimum: 22 kHz
- Transverse sensitivity:  $\leq 5\%$  of axial
- Temperature response: See graph

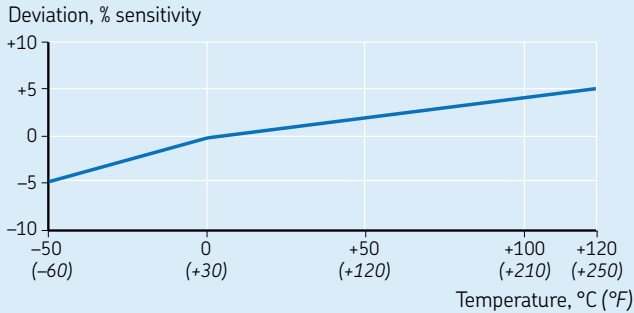
### Electrical

- 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

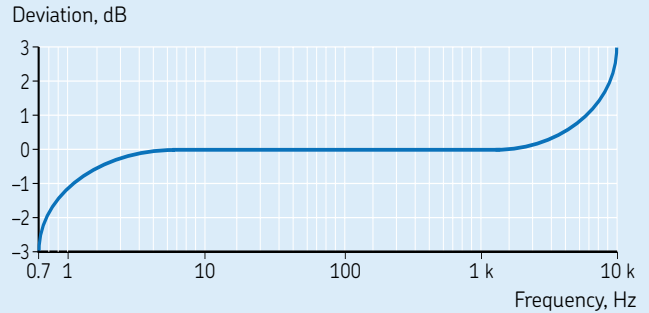
### Dimensions



### Typical temperature response



### Typical frequency response



### Environmental

- Temperature range:  $-50$  to  $+120$  °C ( $-60$  to  $+250$  °F) operating temperature
- Vibration limit: 500 g peak
- Shock limit: 5 000 g peak
- Electromagnetic sensitivity, equivalent g, maximum: 70  $\mu\text{g/gauss}$
- Sealing: Hermetic
- Base strain sensitivity: 200  $\mu\text{g}/\mu\text{strain}$
- CE: According to the generic immunity standard for Industrial Environment EN 50082-2
  - Acceptance criteria: The generated “false equivalent g level” under the above test conditions should be less than 2 mg measured peak to peak

### Physical

- Dimensions: See drawing
- Weight: 145 g (5.1 oz.)
- Case material: 316L stainless steel
- Mounting: M6  $\times$  1,0 and  $1/4$ -28 captive mounting bolts provided
- Mounting torque: 3,4 Nm (30 in. lbs.)
- Connections:
  - Pin A: Signal/Power
  - Pin B: Common
- Mating connector: CMSS 932-68LC or CMSS 932-68TL, two pin, IP 68, locking collar or twist lock
- Recommended cable: CMSS 932-SY-XXM and CMSS 932-DY-XXM, two conductor, twisted pair, single or double shielded, yellow

### Ordering information

**CMSS 2200** Industrial accelerometer with side exit MIL-C-5015 two pin connector.

- $1/4$ -28 and M6 mounting studs provided. Calibration sensitivity and nominal sensitivity is provided for each accelerometer package.

**CMSS 2200-M8** Industrial accelerometer with side exit MIL-C-5015 two pin connector.

- M8 mounting stud provided. Calibration sensitivity and nominal sensitivity is provided for each accelerometer package.