

CMSS 2222

Intrinsically safe (IS) accelerometer for the SKF Microlog series

The CMSS 2222 industrial accelerometer is intrinsically safe and is ATEX and IECEx Group I and II approved. The CMSS 2222 accelerometer is compatible with the CMXA 45/CMXA 48/CMXA 75/CMXA 80-Z2 (ATEX Zone 2) and CMXA 51-IS (Zone 0 and Mining) SKF Microlog series.

These approvals are most commonly needed in the following industries:

- Mining
- Petrochemicals
- Offshore
- Gas

技术咨询与报价

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Applications include Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dyers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and others.

Specifications

Dynamic

- Sensitivity: 100 mVg
- Sensitivity precision: $\pm 10\%$ nominal at 80 Hz
- Frequency range: 2 Hz to 10 kHz $\pm 5\%$ (-3 dB at 0,8 Hz)
- Mounted base resonance: 22 kHz, nominal
- Isolation: Base isolated
- Transverse sensitivity: $< 5\%$

Electrical

- Electrical noise: 0,1 mg maximum
- Bias output voltage: 10 to 12 V DC
- Current range: 0,5 to 8 mA
- Output impedance: 200 Ohms, maximum
- Case isolation: > 108 Ohms at 500 Volts

Environmental

- Certified temperature range:
 - Ex ia IICT6 Ga ($-55\text{ °C} \leq T_a \leq +60\text{ °C}$) (Gas)
 - Ex ia IIIC T80 °C IP65 Da ($-55\text{ °C} \leq T_a \leq +60\text{ °C}$) (Dust)*
 - Ex ia I Ma ($-55\text{ °C} \leq T_a \leq +110\text{ °C}$) (Mining)

* Although the sensor is Dust certified, the SKF Micrologs are not

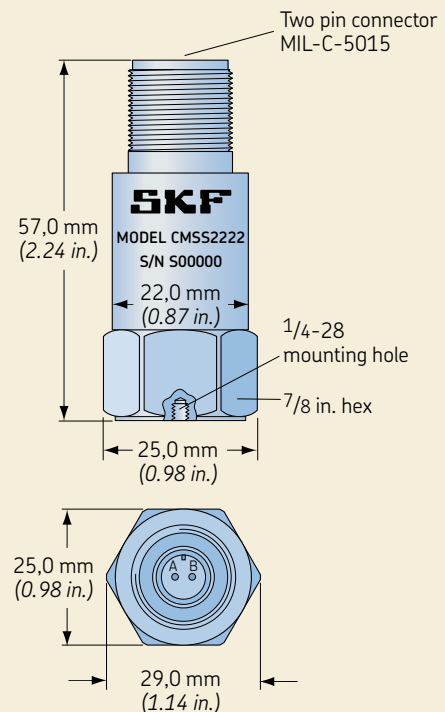
- Sensor Temperature Range: -55 to $+140\text{ °C}$ (-65 to $+284\text{ °F}$)
- Emissions: EN61000-6-4:2007, Electromagnetic compatibility (EMC, Generic standards – Emission standard for industrial environments)
- Immunity: EN61000-6-2:2005, Electromagnetic compatibility (EMC), Generic standards – Immunity for industrial environments





Physical

- Dimensions: See drawing
- Weight: 110 g (3.9 oz.), nominal
- Sealing: IP 67
- Mounting torque: 8 Nm (70.8 in. lbs.)
- Case material: Stainless steel
- Maximum shock: 5,000 g
- Recommended cable for CMXA 51-IS: CMAC 5115
- Recommended cable for CMXA 45/CMXA 48/CMXA 75/CMXA 80-Z2 (ATEX Zone 2): CMAC 5209
- Recommended magnetic base: CMSS 908-MD

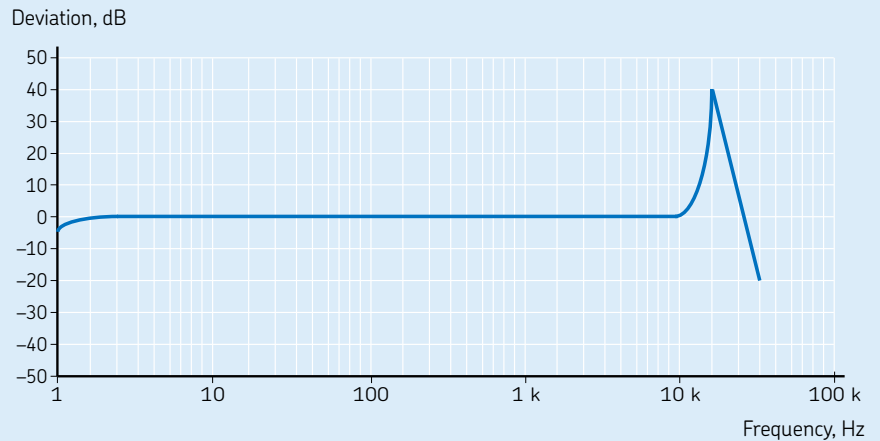
Dimensions



Intrinsically Safe Requirements

- Terminal parameters (connector only):
 - $U_i = 28\text{ V}$
 - $I_i = 93\text{ mA}$
 - $P_i = 0.65\text{ W}$
 - $C_i = 1.0\text{ nF}$
 - $L_i = \text{negligible}$
- Certificate details:
 - Group I
 - IECEx BAS07.0037X
 - Baseefa07ATEX0149X
 -  I M1
 - Ex ia I Ma
 - $(-55\text{ °C} \leq T_a \leq +110\text{ °C})$
 - Group II
 - IECEx BAS07.0035X
 - Baseefa07ATEX0144X
 -  II 1GD
 - Ex ia IICT6 Ga
 - Ex ia IICT80 °C IP65 Da
 - $(-55\text{ °C} \leq T_a \leq +60\text{ °C})$

Typical frequency response



Ordering information

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Optional accessories

CMSS 908-MD Medium duty magnetic base