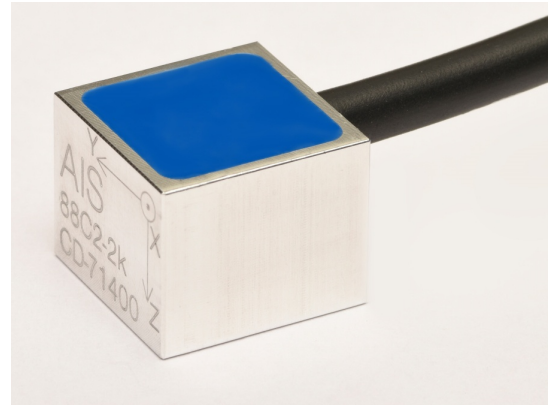


AIS 98C5

Piezoresistive Accelerometer Triaxial, glue mount, Stainless Steel



Features

The model AIS 98C5 Accelerometer is designed for high performance applications. The accelerometer incorporates a gas-damped piezoresistive MEMS sensing element providing outstanding long-term stability. Ranges from $\pm 50g$ to $\pm 2000g$ with high frequency response, this sensor also meets the specification SAE J211. The model 98C5 provides a millivolt output signal and features mechanical overload stops that provide shock protection to loads greater than 10,000g.

Signal amplified versions are optional.

A new injection part for cable split into the axes X, Y and Z is integrated for better performance.

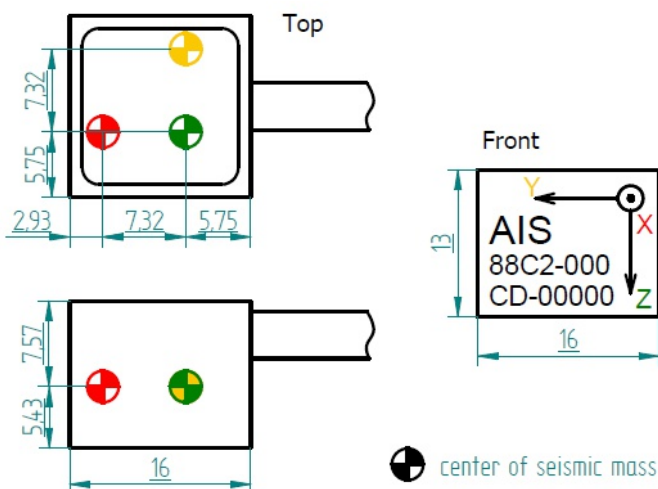
- ☐ Piezoresistive MEMS Technology
- ☐ Wheatstone Bridge
- ☐ Spezifikation SAE J211
- ☐ Ranges $\pm 50g$ to $\pm 2000g$
- ☐ $\pm 25mV$ Zero Measurement Output typ
- ☐ 2-10 VDC Excitation
- ☐ Gas Damping
- ☐ Mechanical Overload Stops
- ☐ Glue Mount
- ☐ Stainless Steel Housing

Applications

- ☐ Harsh Environments
- ☐ Vibration & Shock Monitoring
- ☐ Impact Testing
- ☐ Automotive Comfort Testing
- ☐ Machinery Testing

Service

- ☐ Sinusoidal Calibration
- ☐ Pendulum Calibration
- ☐ Signal Conditioning
- ☐ Connector Options
- ☐ Repair Options
- ☐ ID-Module Options, for all axes
- ☐ Equipment Exchange (EQX)



AIS 98C5

Piezoresistive Accelerometer / Triaxial, glue mount

Individual Technical Data All values are typical at +24°C and 10.0 VDC excitation

AIS 98C5				
Range (g)	Sensitivity ¹ (mV/g)	Frequency Response (±5%) (Hz)	Damping Ratio ³	Shock Limit ² (g)
±50	2.0	0 - 800	0.40 - 0.9	10,000
±100	1.0	0 - 1000	0.40 - 0.9	10,000
±200	0.9	0 - 1400	0.20 - 0.6	10,000
±500	0.4	0 - 2000	0.20 - 0.6	10,000
±2000	0.15	0 - 3000	0.05 - 0.3	10,000

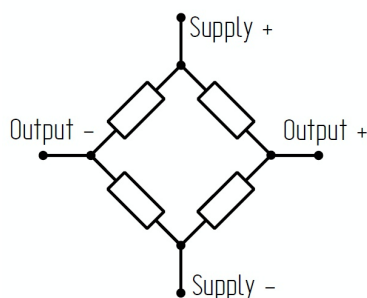
1) Output is ratiometric to excitation voltage, signal conditioning optional

2) 10,000g shock limit in normal axis, 5,000g in transverse axes

3) Damping behavior varies with cable, mounting or gluing

General Technical Data

AIS 98C5 Performance		
Supply Voltage	(VDC)	2 to 10
Ranges	(g)	50 to 2000
Non-Linearity typ.	(%)	±1% FSO
Transverse Sensitivity typ.	(%)	<1
Zero Acceleration Output (differential) typ.	(mV)	±25
Input and Output Resistance	(Ω)	2400 - 6500
Thermal Zero Shift typ.	(%FSO/°C)	-0.09
Thermal Sensitivity Shift typ.	(%/°C)	-0.15
Operating Temperature uncompensated	(°C)	-20 to +90
Storage Temperature	(°C)	-55 to +125
Weight Housing	(g)	18
Cable	(g/m)	nom. 30, 88 Shore A, Polyurethane
Material Housing		Aluminium, hard anodized



Order Information	
AIS 98C5 XXX XXX	
1	2 3
1 Model	
2 Range	
3 Cable length & Pinout	

Cable Code			
	X-Axis	Y-Axis	Z-Axis
Supply +	Red/O	Red/BL	Red
Supply -	Black/O	Black/BL	Black
Output +	Green/O	Green/BL	Green
Output -	White/O	White/BL	White

red - X-axis
yellow - Y-axis
green - Z-axis

