

## Industrial tri-axial accelerometer

### Description

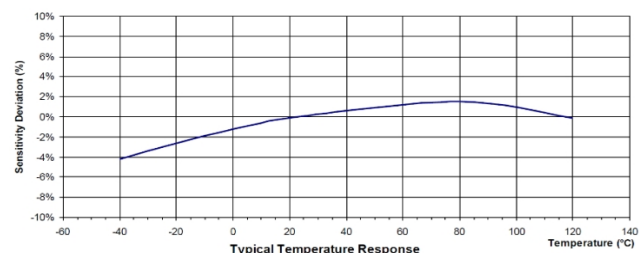
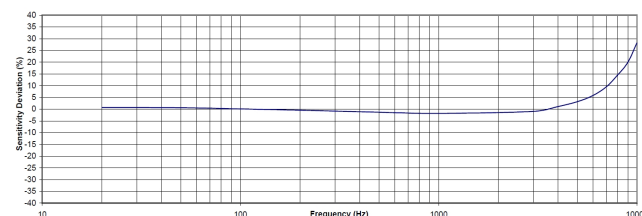
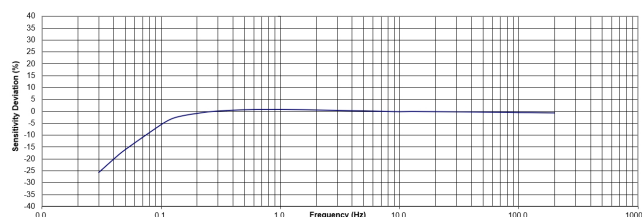
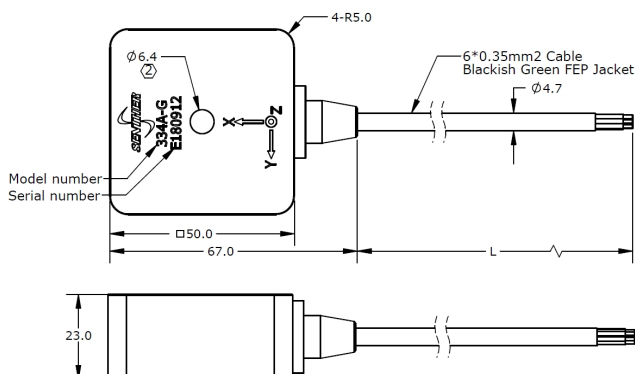
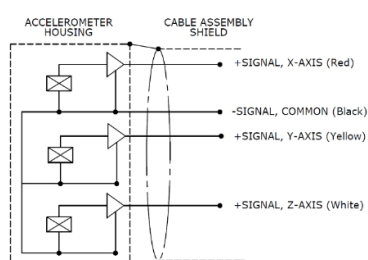
Model 334A is a general purpose tri-axial IEPE accelerometer permitting low frequency vibration measurements. 334A features an annular shear ceramic crystal which exhibits excellent output stability over time. The accelerometer incorporates an internal circuit with in a two-wire IEPE system which transmits its low impedance voltage output through the same cable that supplies the constant current power. Signal ground is internal shielded and isolated from the outer case of the unit. Polarity inversion protection for the amplify circuit is inherent in the circuit design. The welded stainless-steel construction provides a hermetic housing. Integrated cable provides long-term reliable performance over the operating temperature range. In addition to adhesive mounting, 334A offer  $\varnothing 6.4$  central through holes for screw mounting on the test object, cable outgoing direction can be discretionary for install convenience. The 334A provides low frequency response and shock resistance, which is ideal for high structure vibration monitoring under incidental **s h o c k e n v i r o n m e n t .**

### Features

- Central hole mounting
- Low frequency response
- Tri-axial output
- High sensitivity
- Hermetic seal
- EMI / RFI shielded

### Application

- High speed train
- Heavy-duty bearing
- High structure monitoring



## Specification

Typical at +24°C (+75°F), 24Vdc, 4 mA and 100Hz, unless otherwise stated.

Dash NO.	-5-LF	-10-LF	-20	-50	-500	
Dynamic Range	±5	±10	±20	±50	±500	g, peak
Sensitivity ±10%	1000	500	250	100	10	mV/g
Freq. Resp. ±10%	0.3-4000	0.3-4000	1-6000	1-6000	1-6000	Hz
Freq. Resp. ±3dB	0.1-6000	0.1-6000	0.5-8000	0.3-8000	0.3-8000	Hz
Resonant Frequency	20	20	32	32	32	kHz
Transverse Sensitivity	<5	<5	<5	<5	<5	%
Temp. Resp., -55 to +125°C	±10	±10	±10	±10	±10	%
Non-Linearity	±1	±1	±1	±1	±1	%FSO
Residual Noise	0.00015	0.0002	0.0005	0.0005	0.0010	g RMS
Shock Limit	2000	2000	5000	5000	5000	g
Warm-up Time	<5	<5	<2	<2	<2	second
Weight (Excluding Cable)	367	367	360	360	360	Gram

Specifications	Standard	Units
Bias Voltage	10 to 14	Vdc
Supply Voltage	18 to 30	Vdc
Supply Current	2 to 10	mA
Output Impedance	<100	Ω
Case Insulation (@100Vdc)	>100	MΩ
Operating Temperature	-40 to +125	°C
Humidity	Hermetically Sealed	
Case Material	Stainless Steel 316L	
Protection Grade	IP67	
Mounting Torque	2.2 (19.5)	N-m (lb-in)

## Accessories

Calibration certificate included.

Part Number	Description	Availability
PM0244	M6x35 Hex head screw	1pc Included
PM0118	¼-28x1¼ Hex head screw	
IN-03	3 channels IEPE signal conditioner	Optional
IN-91	Portable vibration analyzer	Optional
IN-3062	8 channels data acquisition system	Optional

## Measurement configuration



## Ordering information

334	A	-	10	-	LF	-	3	-	A
Model	Output signal	-	Range	-	Low frequency option	-	Cable length	-	Mounting screw
334	A=IEPE output	-	5=5g 10=10g 20=20g 50=50g 500=500g	-	LF=Low frequency	-	3=3 meters	-	A=¼-28x1¼ Hex head screw B=M6x35 Hex head screw

