



## Model PSC1002-5-3

### Variable capacitance accelerometer

#### Features

- DC response
- 2 to 500g full scale
- Temperature compensation
- Motion, low frequency, tilt
- 5K g shock survivability



#### Dynamic

FSO, $\pm 10\%$ , 24°C	100 mV /g
Acceleration range(g)	50 g peak
Amplitude nonlinearity.	1%
Frequency response:	
2g	0 - 400 Hz
5g	0 - 400 Hz
10g	0 - 400 Hz
50g	0 - 400 Hz
200g	0 - 1000 Hz
500g	0 - 1500 Hz
Transverse sensitivity, max	3% of axial

#### Electrical

Power requirement	5.5 - 30 VDC
Zero voltage	2.5 $\pm$ 0.1V
Current consumption	<4 mA
Residual noise, Broadband Spectral	
5g/10g	500 $\mu$ VRMS
2g/50g	1000 $\mu$ V RMS
200g	1300 $\mu$ V RMS
Output impedance	<100 $\Omega$
Insulation resistance(@500Vdc)	>100 M $\Omega$
Turn-on time	<100 mS

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#### Environmental

Temperature range	-40 to 85°C
Thermal zero shift(max. ref.24°C)	±2%FSO
Thermal sensitivity shift(max. ref.24°C)	±2%
Vibration limit.	100 g peak
Shock limit	5,000 g peak
Sealing	IP67

#### Physical

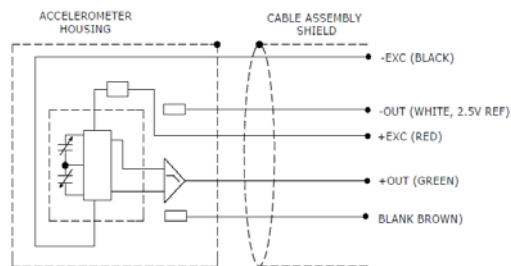
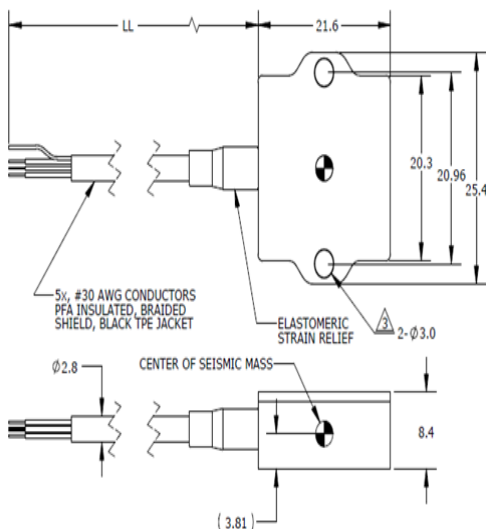
Sensing element	MEMS(VC)
Weight.	6 grams
Case material	Anodized aluminum
Mounting	M3 Screws
Output connector	Option

#### Accessories

2x M3 Screws (Mounting torque 0.7 Nm)

#### Calibration certificate

Note: Frequency response limits spectral and noise values are typical



#### Ordering Information

PSC1002-5-3<sup>u</sup>  
 Special cable length (meter)<sup>u</sup>  
 Range in g<sup>u</sup>  
 Model<sup>u</sup>

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