

# Side exit integral cable accelerometer

## SM102

### SPECIFICATIONS

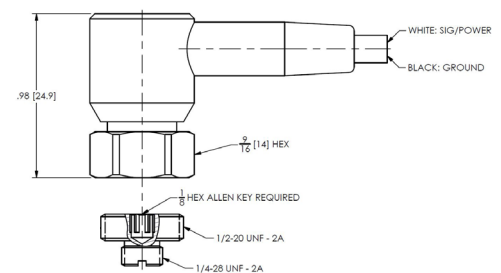
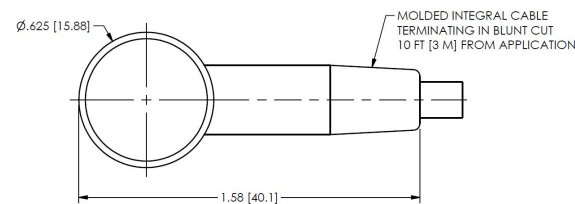
Sensitivity, $\pm 15\%$	100 mV/g	
Acceleration range	50 g	
Amplitude nonlinearity	1%	
Frequency response, $\pm 3$ dB	0.5 - 10,000 Hz	
Resonance frequency	25 kHz	
Transverse sensitivity, max	7% of axial	
Temperature response	see graph	
Power requirement:		
Voltage source	18 - 28 VDC	
Current regulating diode	2 - 20 mA	
Electrical noise, equiv. g:		
Broadband	1 Hz to 10 kHz	350 $\mu$ g
Spectral	10 Hz	8 $\mu$ g/ $\sqrt{\text{Hz}}$
	100 Hz	5 $\mu$ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	4 $\mu$ g/ $\sqrt{\text{Hz}}$
Output impedance, max	150 $\Omega$	
Bias output voltage	8 to 12 VDC	
Grounding	case isolated, internally shielded	
Temperature range	-50° to +120°C	
Vibration limit	500 g peak	
Shock limit	5,000 g peak	
Sealing	hermetic	
Enclosure rating	IP68	
Sensing element design	ceramic, shear	
Weight (without cable)	31 grams	
Case material	stainless steel	
Mounting	1/4-28 stud	
Integral cabling <sup>1</sup>	molded connector, side exit, twisted shielded pair cable, polyurethane, 10 ft. standard length	

Notes: <sup>1</sup> Other cable lengths may be specified by customer at time of order.  
 Accessories supplied: mounting base; calibration data (level 2)



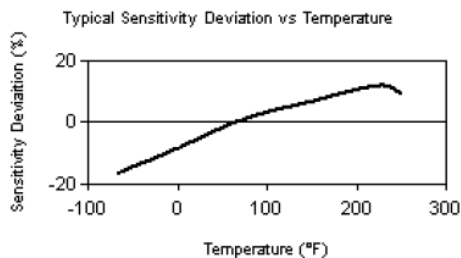
### Key features

- Low profile
- Pivoting base
- 10 ft molded integral cable



### Connections

Function	Cable conductor color
power/signal	white
ground	black



Note: Due to continuous process improvement, specifications are subject to change without notice.