

General purpose accelerometer (Premium)

ISTACCSS20



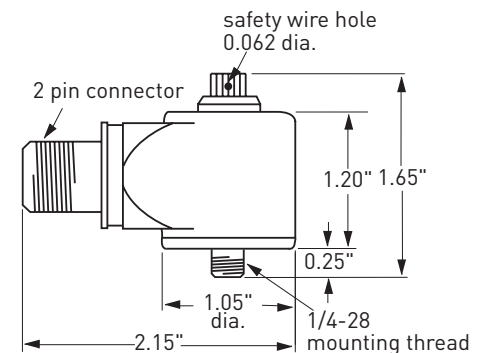
SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	2 - 7,000 Hz
± 3 dB	1 - 12,000 Hz
Resonance frequency	26 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-50°C	-15%
+120°C	+15%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz	600 μ g
Spectral 10 Hz	8 μ g/ $\sqrt{\text{Hz}}$
100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage	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
Base strain sensitivity	0.002 g/ μ strain
Sensing element design	PZT, shear
Weight	138 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A
Accessories supplied: #12105-01 captive socket head (metric mounting available); calibration data (level 3)	



Key features

- Low profile
- Wide frequency response
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.