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General Purpose

General Purpose Accelerometers

General purpose accelerometers sense vibration commonly found in most industrial machinery. Applications include monitoring of motors, fans, pumps, moderate speed gearboxes, machine tool spindles, and paper machine rolls. Measurements on these types of machines require a broad frequency range, moderate amplitude range and moderate sensor noise floors.

Wilcoxon General Purpose Sensors:

Model	Style	Sensitivity	Low Freq	High Freq	Accel Range
775A	shear	100 mV/g	0.5 Hz	12,000 Hz	80 g peak
777/777B	shear	100 mV/g	0.5 Hz	12,000 Hz	80 g peak
784A	flexure	100 mV/g	2.0 Hz	10,000 Hz	50 g peak
785A	shear	100 mV/g	1.0 Hz	12,000 Hz	80 g peak
786A	shear	100 mV/g	0.5 Hz	14,000 Hz	80 g peak
787A	shear	100 mV/g	0.7 Hz	10,000 Hz	80 g peak
793	compression	100 mV/g	0.5 Hz	15,000 Hz	80 g peak
797	shear	100 mV/g	1.0 Hz	12,000 Hz	50 g peak
S100C	shear	100 mV/g	0.5 Hz	10,000 Hz	80 g peak
S100CS	shear	100 mV/g	0.5 Hz	10,000 Hz	80 g peak

Note: Frequency @ $\pm 3\text{dB}$.

The General Purpose Accelerometers are categorized by the following.

PREMIUM

Premium sensors are engineered for the best reliability, longest life and have the tightest tolerances. They incorporate protective electronic circuitry to reduce the effects of sensor mechanical resonance causing an overload to the built-in amplifier. They also have circuitry to protect the sensor against high electrostatic voltages, reversed wiring (power and common connected backward), and mis-wiring (no constant-current diode). Calibration data is provided for BOV, sensitivity, frequency response, and resonance frequency.

STANDARD

Standard sensors are engineered for good reliability, long life and have tolerances acceptable to industry expectations. Many incorporate protective electronic circuitry to reduce the effects of sensor mechanical resonance causing an overload to the built-in amplifier. They also have circuitry to protect the sensor against high electrostatic voltages and reversed wiring (power and common connected backward). Calibration data is provided for BOV and sensitivity.

ECONOMY

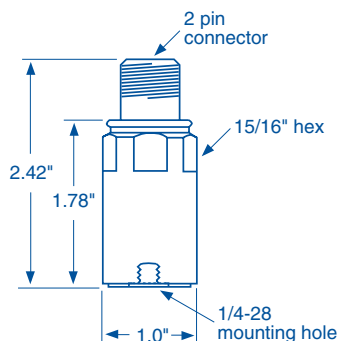
Economy sensors are engineered for good reliability and long life. They are typically characterized by wider sensitivity tolerances to allow for more economical manufacturing. They also have circuitry to protect the sensor against high electrostatic voltages and reversed wiring (power and common connected backward). Calibration data is provided for BOV and sensitivity.

SPECIALTY

Specialty sensors are accelerometers that have been developed to fulfill specific customer needs. These needs vary by form, fit or function and include such changes as temperature range, mechanical packaging, or frequency response. The delineating characteristic of the specialty sensor is that it is engineered for a particular application.

Model 793*Premium, General Purpose Accelerometer***FEATURES:**

- Corrosion resistant
- Ground isolated
- Rugged design
- Hermetic seal
- ESD protection
- Miswiring protection
- Mounts in any orientation

**DYNAMIC**

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	1.5 - 5,000 Hz
$\pm 10\%$	1.0 - 7,000 Hz
± 3 dB	0.5 - 15,000 Hz
Resonance Frequency	25 kHz
Transverse Sensitivity, max.	5% of axial
Temperature Response	-50°C -10% +120°C +5%

ELECTRICAL

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/ $\sqrt{\text{Hz}}$
	1000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output Impedance, max		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g peak
Shock Limit	5,000 g
Sealing	Hermetic
Base Strain Sensitivity	0.0005 g/ μ strain

PHYSICAL

Sensing Element Design	PZT ceramic / compression
Weight	112 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Output Connector	2 pin, MIL-C-5015 style
Mating Connector	R6 type
Recommended Cable	J10 / J9T2A

CONNECTOR PIN**FUNCTION**

SHELL	ground
A	power/ signal
B	common

ACCESSORIES SUPPLIED:

SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 3).

OPTIONS:

Intrinsic safety certifications.



Model 797*Premium, General Purpose, Center Mount Accelerometer***DYNAMIC**

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	50 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	2 - 7,000 Hz
$\pm 3\text{ dB}$	1 - 12,000 Hz
Resonance Frequency	26 kHz
Transverse Sensitivity, max	5 % of axial
Temperature Response	-50°C -5% $+120^\circ\text{C}$ $+5\%$

FEATURES:

- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Miswiring protection
- Mounts in any orientation

ELECTRICAL

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 μg
Spectral	10 Hz	8 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g peak
Shock Limit	5,000 g peak
Electromagnetic Sensitivity, equiv. g	30 $\mu\text{g}/\text{gauss}$
Sealing	Hermetic
Base Strain Sensitivity	0.002 g/ μstrain

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	135 grams
Case Material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output Connector	2 pin, MIL-C-5015 style
Mating Connector	R6 type
Recommended Cabling	J10 / J9T2A

CONNECTOR PIN

SHELL

A

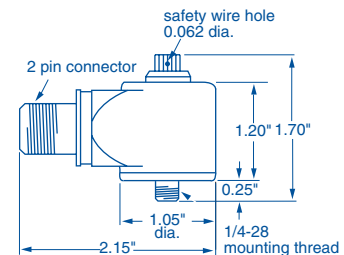
B

FUNCTION

ground

power/ signal

common



ACCESSORIES SUPPLIED: #12105-01 captive socket head (metric studs available upon request); Calibration data (level 3).

OPTIONS: Intrinsic Safety certifications.



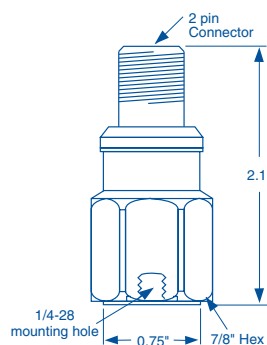
Model 786A

Standard, General Purpose Accelerometer



FEATURES:

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection



DYNAMIC

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	1 - 9,000 Hz
$\pm 3\text{ dB}$	0.5 - 14,000 Hz
Resonance Frequency	30 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -5% $+120^\circ\text{C}$ $+5\%$

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μg
Spectral	10 Hz	10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g peak
Shock Limit	5,000 g peak
Electromagnetic Sensitivity, equiv. g, max.	70 $\mu\text{g}/\text{gauss}$
Sealing	Hermetic
Base Strain Sensitivity, max.	0.0002 g/ μstrain

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	90 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 UNF tapped hole
Output Connector	2 pin, MIL-C-5015 style
Mating Connector	R6 type
Recommended Cabling	J10 / J9T2A

CONNECTOR PIN

SHELL

A

B

FUNCTION

ground

power/ signal

common

ACCESSORIES SUPPLIED:

SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 2).



Model 777 / 777B

Specialty, General Purpose Accelerometers

DYNAMIC

Sensitivity, $\pm 10\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response at ± 3 dB, nominal	0.5 - 12,000 Hz
Resonance Frequency	30 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -10% +85°C +5%

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μ g
Spectral	10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
	100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
	1000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output Impedance, max.	100 Ω	
Bias Output Voltage	12 VDC	
Grounding	case isolated ($>10^8 \Omega$ at 100V), internally shielded	

ENVIRONMENTAL

Temperature Range	-50 to 85°C
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Electromagnetic Sensitivity, equiv. g, max.	70 μ g/gauss
Sealing	epoxy
Base Strain Sensitivity, max.	0.0005 g/ μ strain

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	75 grams
Case Material	stainless steel
Mounting	1/4 - 28 UNF tapped hole
Output Connector	see table
Mating Connector	see table
Recommended Cabling	J10

MODEL	CONNECTOR	POWER/ SIGNAL	COMMON	MATING CONNECTOR
777	2 position terminal block	+	-	N/A
777B	BNC Coaxial	Center Contact	Shell	R2

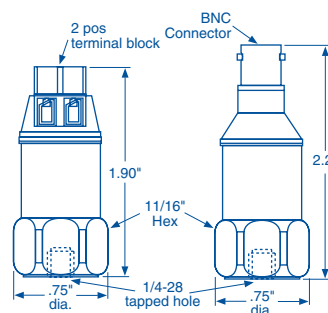
ACCESSORIES SUPPLIED: SF6 1/4-28 mounting stud; protective vinyl boot (777 only)

ACCESSORIES AVAILABLE: SF6M 1/4-28 to M8 adapting stud



FEATURES

- Ground isolated
- ESD protection



Model 777

Model 777B

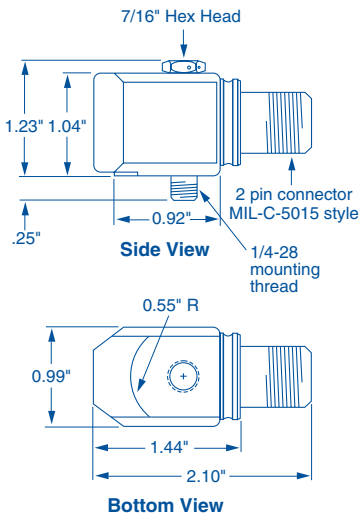




Model 787A

Standard, Side Exit, General Purpose Accelerometer

- FEATURES**
- Corrosion resistant
 - Hermetic design
 - Ground isolated
 - ESD protection
 - Reverse wiring protection
 - Mounts in any orientation



DYNAMIC		
Sensitivity, $\pm 10\%$, 25°C	100 mV/g	
Acceleration Range	80 g peak	
Amplitude Nonlinearity	1%	
Frequency Response:		
$\pm 10\%$	1.0 - 5,000 Hz	
± 3 dB	0.7 - 10,000 Hz	
Resonance Frequency	22 kHz	
Transverse Sensitivity, max	5% of axial	
Temperature Response	-50°C	-5%
	+120°C	+5%

ELECTRICAL		
Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μ g
Spectral	10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
	100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
	1000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output Impedance, max		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL		
Temperature Range		-50 to 120°C
Vibration Limit		500 g
Shock Limit, min.		5,000 g
Electromagnetic Sensitivity, equiv. g, max		70 μ g/gauss
Sealing		Hermetic
Base Strain Sensitivity, max		0.002 g/ μ strain

PHYSICAL		
Sensing Element Design		PZT ceramic / shear
Weight		145 grams
Case Material		316L stainless steel
Mounting		1/4 - 28 captive hex head screw with 0.046" diameter safety wire hole
Output Connector		2 pin, MIL-C-5015 style
Mating Connector		R6 type
Recommended Cabling		J10 / J9T2A

CONNECTOR PIN	FUNCTION
SHELL	ground
A	power/ signal
B	common

ACCESSORIES SUPPLIED: #80165-01 captive hex head screw; Calibration data (level 2).



Model 784A

Economy, General Purpose Accelerometer



DYNAMIC

Sensitivity, $\pm 20\%$, 25°C	100 mV/g
Acceleration Range	50 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 10\%$	4 - 7,000 Hz
$\pm 3\text{ dB}$	2 - 10,000 Hz
Resonance Frequency	25 kHz
Transverse Sensitivity, max	3% of axial
Temperature Response	-50°C -7%
	$+120^\circ\text{C}$ -7%

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	230 μg
Spectral	10 Hz	16 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	4 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	1.3 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Electromagnetic Sensitivity, equiv. g, max.	50 $\mu\text{g}/\text{gauss}$
Sealing	Hermetic
Base Strain Sensitivity, max	0.0004 g/ μstrain

PHYSICAL

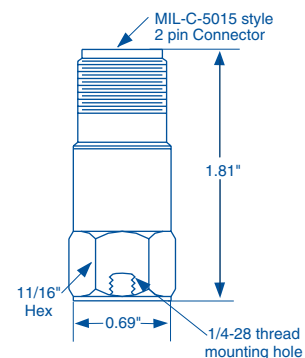
Sensing Element Design	PZT ceramic / flexure
Weight	45 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 UNF tapped hole
Output Connector	2 pin, MIL-C-5015 style
Mating Connector	R6 type, but not R6SL
Recommended Cabling	J10 / J9T2A

CONNECTOR PIN

CONNECTOR PIN	FUNCTION
SHELL	ground
A	power/signal
B	common

FEATURES

- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- High performance to cost ratio



ACCESSORIES SUPPLIED:

SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 2).



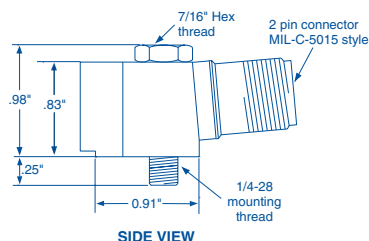


Model 785A

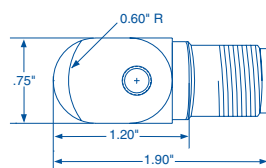
Economy, Side Exit, General Purpose Accelerometer

FEATURES

- Corrosion resistant
- Hermetic design
- Ground isolated
- ESD protection
- Reverse wiring protection
- RFI protection



SIDE VIEW



BOTTOM VIEW

DYNAMIC

Sensitivity, $\pm 10\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 10\%$	2.0 - 8,000 Hz
± 3 dB	1.0 - 12,000 Hz
Resonance Frequency, mounted, minimum	30 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -10% +120°C +7%

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g, nominal:		
Broadband	2.5 Hz to 25 kHz	1,260 μ g
Spectral	10 Hz	11 μ g/ $\sqrt{\text{Hz}}$
	100 Hz	6 μ g/ $\sqrt{\text{Hz}}$
	1000 Hz	6 μ g/ $\sqrt{\text{Hz}}$
Output Impedance		100 Ω
Bias Output Voltage, nominal		12 VDC
Grounding		case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Sealing	hermetic
Base Strain Sensitivity, max	0.002 g/ μ strain

PHYSICAL

Weight	85 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 captive hex head screw with 0.046" dia-meter safety wire hole
Output Connector	2 pin MIL-C-5015 style
Mating Connector	R6 type, but not R6SL
Recommended Cabling	J10 / J9T2A
Connections:	

CONNECTOR PIN

SHELL
A
B

FUNCTION

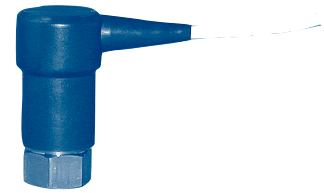
case
power / signal
common

NOTES: ¹ At 90 inch/lb. torque.

ACCESSORIES SUPPLIED: 1/4-28 captive hex head bolt; Calibration data (level 2).

Model 775A

Economy, Accelerometer with Pivoting Connector



DYNAMIC

Sensitivity, $\pm 20\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response, nominal: ± 3 dB	0.4 Hz - 12,000 Hz
Resonance Frequency, nominal	26 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -7% $+80^\circ\text{C}$ $+5\%$

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μg
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated

ENVIRONMENTAL

Temperature Range	-50 to 80°C (-60 to 175°F)
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Sealing	Hermetic

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	45 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Cable Type	J96, 16ft., blunt cut
Cable Boot Material	Viton®

FUNCTION

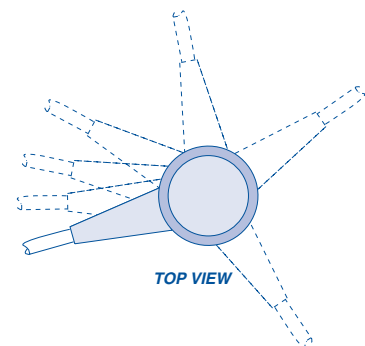
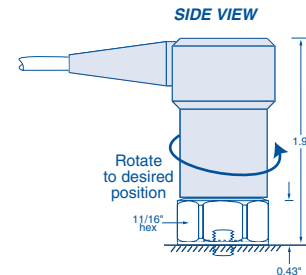
common
power / signal
shield

CABLE CONDUCTOR COLOR

Black
White
Shield

FEATURES:

- Rugged assembly
- Hermetic seal
- ESD protection
- Miswiring protection
- Pivoting cable connection



ACCESSORIES SUPPLIED: SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 2).
ACCESSORIES AVAILABLE: SF8 cementing pad.



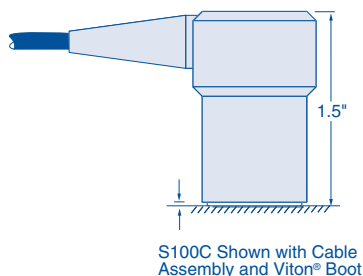
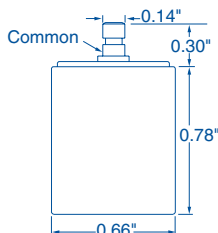


Model S100C

Economy, Epoxy Mount Accelerometer

FEATURES:

- Hermetic seal
- ESD protection
- Miswiring protection
- Right angle connection mounts in 360° orientation



DYNAMIC

Sensitivity, $\pm 20\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response, nominal: $\pm 3\text{ dB}$	0.5 - 10,000 Hz
Resonance Frequency	30 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -7% $+80^\circ\text{C}$ $+5\%$

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μg
Spectral	10 Hz	10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated

ENVIRONMENTAL

Temperature Range	-50 to 80°C
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Sealing	Hermetic

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	28 grams
Case Material	316L stainless steel
Mounting	Epoxy
Mating Connector	R35
Recommended Cabling	J96

CONNECTOR PIN

SHELL
PIN
HOUSING

FUNCTION

common
power / signal
isolated

CABLE CONDUCTOR COLOR

Shield
Center
N/C

ACCESSORIES SUPPLIED:

Calibration data (level 2).



Model S100CS

Economy, Stud Mount Accelerometer



FEATURES:

- Rugged assembly
- Hermetic seal
- ESD protection
- Miswiring protection

DYNAMIC

Sensitivity, $\pm 20\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response, nominal: ± 3 dB	0.5 - 10,000 Hz
Resonance Frequency	26 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -7% $+80^{\circ}\text{C}$ $+5\%$

ELECTRICAL

Power Requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical Noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 μg
Spectral	10 Hz	10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max.		100 Ω
Bias Output Voltage		12 VDC
Grounding		case isolated

ENVIRONMENTAL

Temperature Range	-50 to 80°C
Vibration Limit	500 g
Shock Limit, min.	5,000 g
Sealing	Hermetic
Base Strain Sensitivity	$\text{g}/\mu\text{strain}$

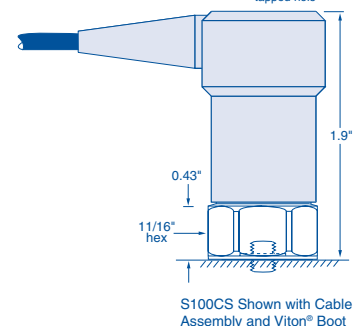
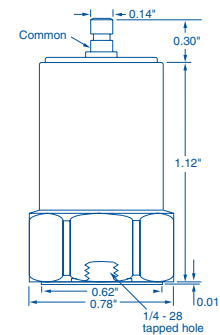
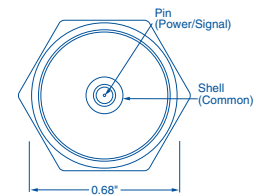
PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	45 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Mating Connector	R35
Recommended Cabling	J96

CONNECTOR PIN	FUNCTION	CABLE CONDUCTOR COLOR
SHELL	common	Shield
PIN	power / signal	Center
HOUSING	isolated	N/C

ACCESSORIES SUPPLIED:

SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 2).



Model S100CS

general purpose

INDUSTRIAL

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