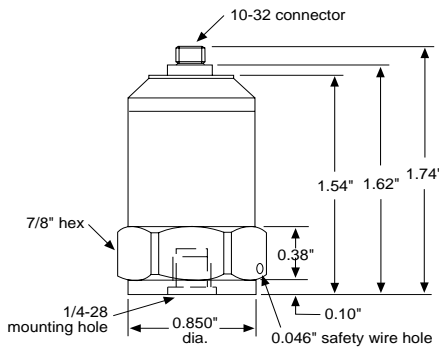




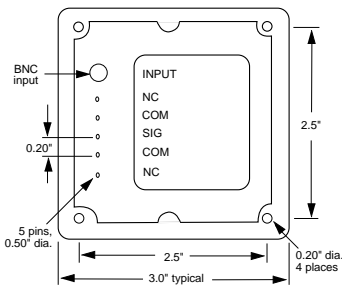
CL I II III T4
DIV 1 GP ABCDEFG
DIV 2 GP ABCDFG

Model 376E/CC726E System

Intrinsically Safe Accelerometer/Charge Amplifier System¹



Model 376E



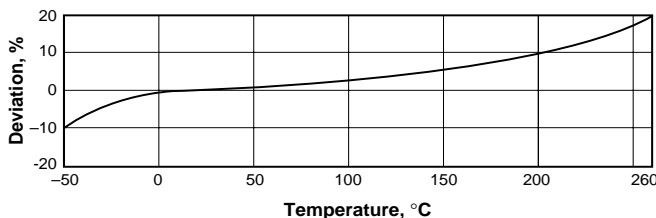
Model CC726E

	376E	CC726E	376E/CC726E SYSTEM ²
DYNAMIC			
Sensitivity	25 pC/g	4 mV/pC	100 mV/g, ±10%
Amplitude Nonlinearity	1% to 250 g's	—	1% to 50 g's
Frequency Response:			
±10%	2 - 8,000 Hz	2 - 10,000 Hz	2 - 10,000 Hz
±3 dB	1 - 12,000 Hz	1 - 20,000 Hz	1 - 15,000 Hz
Resonance Frequency	30 kHz	—	—
Transverse Sensitivity	7 % of axial	—	—
Temperature Response	see graph	—	—
ELECTRICAL			
Capacitance (at transducer)	500 pF	—	—
Resistance (pins to case)	1,000 MΩ	—	—
Grounding	case isolated	case isolated	case isolated
Input Impedance	—	200 kΩ	—
Amplified Gain (with 1250 pF input capacitance)	—	6dB	—
Output Impedance	—	<100Ω	<100Ω
Maximum Input Voltage	—	2.5 Vrms / 50 g's	—
Power Requirement	—	18-30 VDC, 2-10 mA	18-30 VDC, 2-10 mA
Temperature Range	-50 to 260 °C	0-70 °C	—
Bias Output Voltage, nominal	—	12 VDC	12 VDC
Total Harmonic Distortion	—	<1%	<1%
Electrical Noise, equiv. g	—	.001 g peak	.001 g peak
ENVIRONMENTAL			
Vibration Limit	500 g peak	—	—
Shock Limit	2400 g peak	—	—
Base Strain	0.002 g/μstrain	—	—
Humidity	100 % relative	—	—
PHYSICAL			
Input Cable Assembly	—	—	R1-2-J3-12
Weight	75 grams	140 grams	—
Case Material	stainless steel	glass reinforced plastic	—
Mounting	1/4-28 tapped hole	see drawing	—
Mating Connector	10-32 Microdot	BNC	Weidmuller BL5 or equivalent

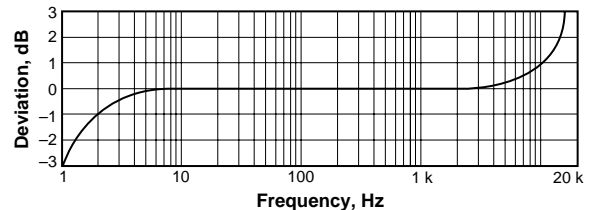
NOTES: ¹ Installation must be in accordance with WR 90546.

² As measured with 12 ft. input cable (360pF), 4 mA CCD and 1,000 pF load on power cable. Increasing the input cable will cause loading effects. For example, a 100 ft. (3,000 pF) cable will shift the 3dB point of the system from 15 kHz to roughly 5 kHz.

TEMPERATURE RESPONSE OF MODEL 376E



TYPICAL SYSTEM FREQUENCY RESPONSE



Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.



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