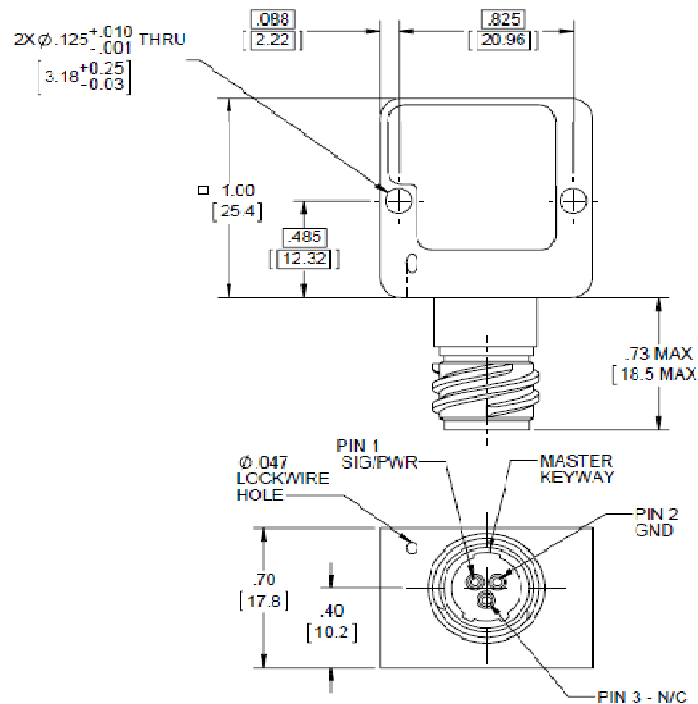


Model Number 7508A2		PERFORMANCE SPECIFICATIONS				DOC NO PS7508A2	
		VARIABLE CAPACITANCE ACCELEROMETER				REV A, ECN 12490 , 02/08/16	
		• CURRENT OUTPUT • DC RESPONSE • 4-20 mA LOOP COMPATIBLE • FREQUENCY RANGE: 0- 2500 Hz • HERMETICALLY SEALED					
		ENGLISH		SI		This family also includes:	
Type		2.5	oz	70	grams	Model	Input Range (g)
Thru Holes		Receptacle, 3-pin		Receptacle, 3-pin		Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)
		2 X Ø.125		2 X Ø.125		Max.Shock (gpk)	Noise Differential (µg rms/√Hz)
		300 Series S.S.		300 Series S.S.			
PHYSICAL						Refer to the performance specifications of the products in this family for detailed description.	
Weight, Max						Supplied Accessories:	
Connector [1]						1) Accredited calibration certificate (ISO 17025)	
Mounting						Notes:	
Material						[1] Glenair P/N 805-006-13Z18-23PA. Mates with 805-001-16Z18-23SA and 805-002-16Z18-23SA	
PERFORMANCE						[2] -90% to +90% of Full Scale.	
Input Range		±400	g	±3924	m/s ²	[3] Over the rated temperature range.	
Frequency Response (-3dB), ± 50Hz		0 - 2500	Hz	0 - 2500	Hz		
Sensitivity Differential, ±10%		13	µA/g	1.3	µA/m/s ²		
Output Noise, Differential ,Typ		400	µ g rms/√ Hz	3924	µ m/s ² /√ Hz		
Non-Linearity, Max [1]		0.5	% F.S	0.5	% F.S		
Transverse Sensitivity, Max		2	%	2	%		
Scale Factor Calibration Error, Max		2	%	2	%		
Zero Measured Output		±50	mV	±50	mV		
ENVIRONMENTAL							
Maximum Mechanical Shock		5000	gpk	49050	m/s ² peak		
Bias Temperature Shift ,Max [3]		56	(ppm of span)/°F	100	(ppm of span)/°C		
Bias Calibration Error		1.5	% of span	1.5	% of span		
Operating Temperature Range		-55 to +257	°F	-48 to +125	°C		
Scale Factor Temperature Shift [3]		-111 to 0	ppm/°F	-200 to 0	ppm/°C		
Seal		Hermetic		Hermetic			
ELECTRICAL							
Bias Current		14 - 15	mA	14 - 15	mA		
Output Impedence,Nom		400	Ω	400	Ω		
Operating Voltage		10 - 36	VDC	10 - 36	VDC		
Full Scale Output		±5	mA	±5	mA		
Power Supply Rejection Ratio		>65	dB	>65	dB		
							
		Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7508A2 for more information.					



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