

Model Number 7508A2	PERFORMANCE SPECIFICATIONS				
		VARIABLE CAPACITANCE ACCELEROMETER		REV B, ECN 15653 , 03/25/20	



CURRENT OUTPUT

- DC RESPONSE
- 4-20 mA LOOP COMPATIBLE
- FREQUENCY RANGE: 0- 2500 Hz
- HERMETICALLY SEALED

		ENGLI	ENGLISH		SI	
PHYSICAL						
Weight, Max		2.5	oz	70	grams	
Connector [1]	Туре	Receptacle, 3-pin		Receptacle, 3-pin		
Mounting	Thru Holes	2 X Ø.125		2 X Ø.125		
Material		300 Series S.S.		300 Series S.S.		
PERFORMANCE						
Input Range		±400	g	±3924	m/s ²	
Frequency Response (-3	dB), ± 50Hz [4]	0 - 2500	Hz	0 - 2500	Hz	
Sensitivity Differential, ±1	10%	13	μA/g	1.3	μA/m/s ²	
Output Noise, Differentia	I ,Тур	400	μ g rms/V Hz	3924	μ m/s²/v Hz	
Non-Linearity, Max [1]		0.5	% F.S	0.5	% F.S	
Transverse Sensitivity, N	lax	2	%	2	%	
Scale Factor Calibration	Error, Max	2	%	2	%	
Zero Measured Output		±50	mV	±50	mV	
		•	-	•	-	
ENVIRONMENTAL			_		_	
Maximum Mechanical Sh	nock	5000	gpk	49050	m/s² peak	
Bias Temperature Shift ,I	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 F	Range	-55 to +257	°F	-48 to +125	°C	
Scale Factor Temperatur	re 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	

This family also includes:							
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/q)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)		

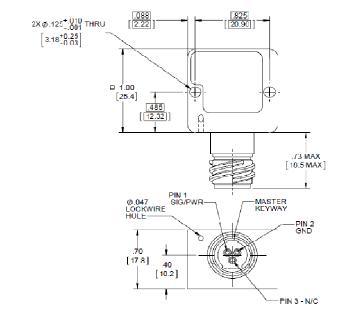
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Glenair P/N 805-006-13Z18-23PA. Mates with 805-001-16Z18-23SA and 805-002-16Z18-23SA
- [2] -90% to +90% of Full Scale.
- [3] Over the rated temperature range.
- [4] When measured with 25 ohm sense resistor.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7508A2 for more information.

