

Model Number 7506A1	PERFORMANCE SPECIFICATIONS	DOC NO PS7506A1
	VARIABLE CAPACITANCE ACCELEROMETER	REV A. ECN 11762 . 02/12/15



• VARIABLE CAPACITANCE ACCELEROMETER

- CURRENT OUTPUT
- HERMETICALLY SEALED
- DC RESPONSE
- 4-20 mA LOOP COMPATIBLE

		ENGL	1011	CI	
PHYSICAL		ENGLISH		SI	
Weight, Max		2.5	oz l	70	grams
Connector [2]	Type	Receptacle, 3-pin	1	Receptacle, 3-pin	gramo
Mounting	Thru Holes	2 X Ø.125		2 X Ø.125	†
Material	71114 7 10100	304L		304L	†
					_1
PERFORMANCE					_
Input Range		±50	g	±490	m/s ²
Frequency Response (-3d	dB), ± 50Hz [1]	0-300	Hz	0-300	Hz
Sensitivity Differential, ±10	0%	100	μA/g	10.2	μA/m/s ²
Output Noise, Differential	,Тур	50	μ g rms/√ Hz	491	μ m/s² /√ Hz
Non-Linearity, Max [4]		0.5	% F.S	0.5	% F.S
Transverse Sensitivity, Ma		2	%	2	%
Scale Factor Calibration E	Error, Max	2	%	2	%
Zero Measured Output		±50	mV	±50	mV
ENVIRONMENTAL			_		_
Maximum Mechanical Sho	ock	5000	gpk	49050	m/s ² peak
Bias Temperature Shift ,N	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 R	ange	-55 to +257	°F	-48 to +125	°C
Scale Factor Temperature	e 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 R	Ratio	>65	dB	>65	dB

This family also includes:						
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)	
7506A2	± 400	0-300	13	5000	400	

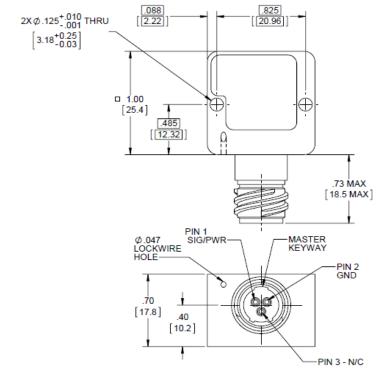
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

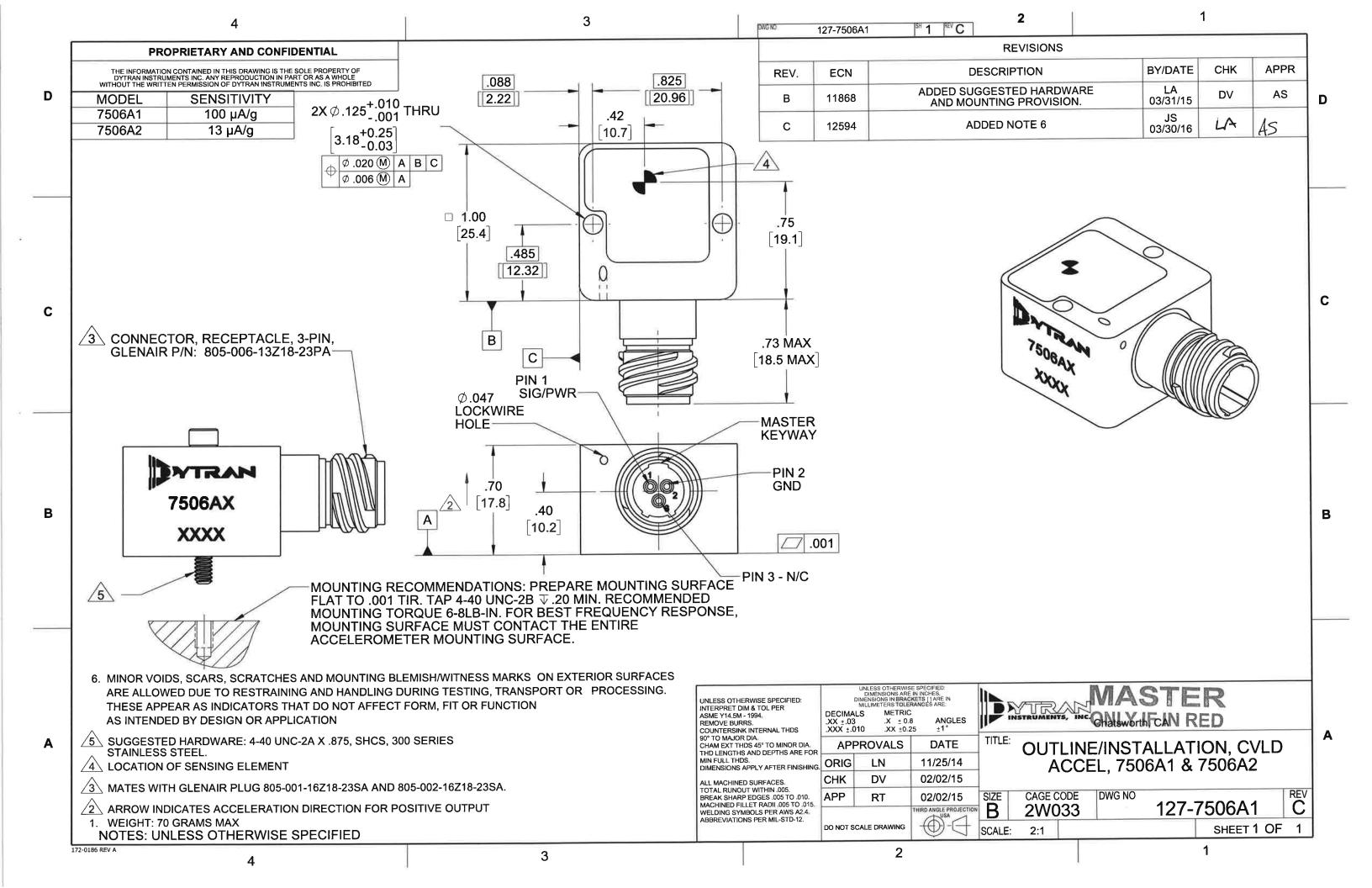
Notes:

- [1] Low pass first order filter, corner frequency at 300Hz.
- [2] Glenair P/N 805-006-13Z18-23PA. Mates with 805-001-16Z18-23SA and 805-002-16Z18-23SA
- [3] Over the rated temperature range.
- [4] -90% to +90% of Full Scale.



Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7506A1 for more information.





Model Number	PERFORMANCE SPECIFICATIONS	DOC NO
7506A2	PERFORMANCE SPECIFICATIONS	PS7506A2
	VARIABLE CAPACITANCE ACCELEROMETER	DEV A ECN 11762 02/12/15



- VARIABLE CAPACITANCE ACCELEROMETER
- CURRENT OUTPUT
- HERMETICALLY SEALED
- DC RESPONSE
- 4-20 mA LOOP COMPATIBLE

		ENGL	ISH	SI	
PHYSICAL		-	¬ .		7
Weight, Max		2.5	OZ	70	grams
Connector [2]	Type	Receptacle, 3-pin		Receptacle, 3-pin	1
Mounting	Thru Holes	2 X Ø.125		2 X Ø.125	
Material		300 Series S.S.	_	300 Series S.S.	<u> </u>
PERFORMANCE					_
Input Range		±400	g	±3924	m/s ²
Frequency Response (-3	dB), ± 50Hz [1]	0-300	Hz	0-300	Hz
Sensitivity Differential, ±1	0%	13	μA/g	1.3	μA/m/s ²
Output Noise, Differential	,Тур	400	μ g rms/√ Hz	3924	μ m/s²/√ Hz
Non-Linearity, Max [4]		0.5	% F.S	0.5	% F.S
Transverse Sensitivity, M		2	%	2	%
Scale Factor Calibration Error, Max		2	%	2	%
Zero Measured Output		±50	mV	±50	mV
ENVIRONMENTAL					
Maximum Mechanical Sh	ock	5000	gpk	49050	m/s² peak
Bias Temperature Shift ,	Max [3]	56	(ppm of span)/°F	100	(ppm of span)/°
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	e 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 a	also includes:				
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)	Max.Shock (gpk)	Noise Differential (μg rms/vHz)
7506A1	± 50	0-300	100	5000	50

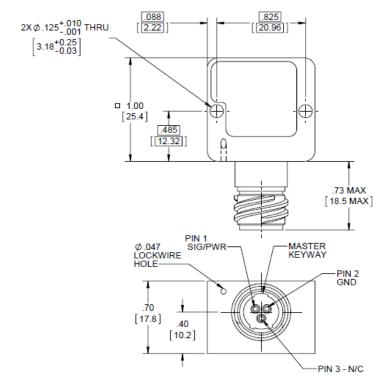
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Notes:

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