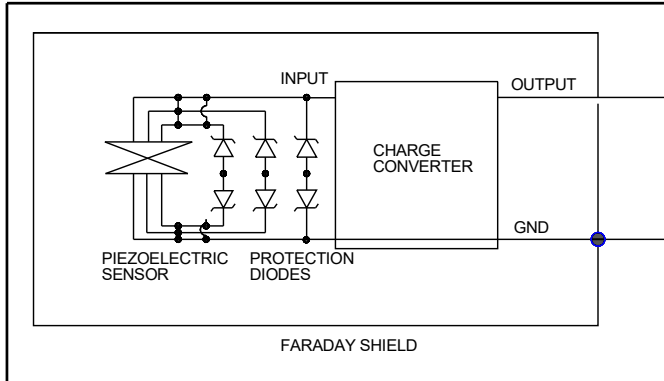


PROPRIETARY AND CONFIDENTIAL

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MODEL NO	SENSITIVITY
2006M1	1000 mV/psi
2006M2	300 mV/psi



SCHEMATIC DIAGRAM

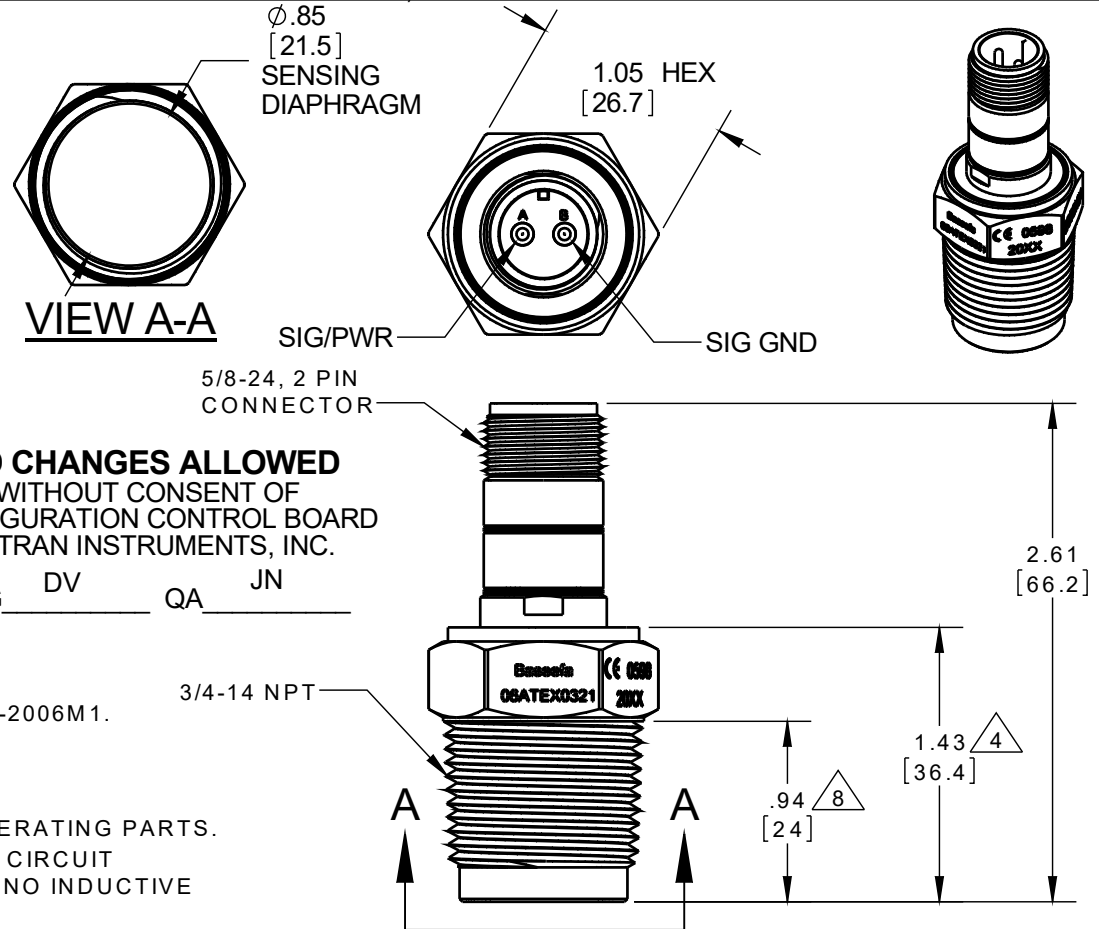
8. EXPOSED TO MEDIA
7. SIGNAL GROUND TO CASE ISOLATION > 100MOhms
6. STRUCTURAL JOINTS ARE TIG WELDED PER DRAWING 178-2006M1.
5. CONNECTOR MATERIAL: 300 SERIES STAINLESS STEEL
4. HOUSING MATERIAL: 316L SERIES STAINLESS STEEL
3. CHARGE CONVERTER HAS NO VOLTAGE ENHANCING/GENERATING PARTS.
2. TOTAL SENSOR CAPACITANCE, C_i (PIEZO ELEMENTS PLUS CIRCUIT CAPACITORS): 8800pF MAXIMUM, THIS SENSOR CONTAINS NO INDUCTIVE COMPONENTS
1. DIODES: 43V±5% max, >500mW, DO-35 ZENER
- NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	
2006M1	63
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLE .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25		
MATERIAL		
SEE NOTES		
FINISH		
DO NOT SCALE DRAWING		

REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	16713	UPDATED RENDERINGS: IS: 0598, WAS: 1180	AS 05/23/22	AM	DV



**NO CHANGES ALLOWED
WITHOUT CONSENT OF
CONFIGURATION CONTROL BOARD
DYTRAN INSTRUMENTS, INC.**

ENG DV QA JN



Chatsworth, CA

TITLE:

**OUTLINE/INSTALLATION
DRAWING, MODEL 2006M1**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-2006M1	C
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.																															
2006M2						PS2006M2																															
		ACOUSTIC PRESSURE SENSOR, IEPE				REV C, ECN 16713, 05/24/22																															
	• HIGH INTENSITY ACOUSTIC SENSOR • HIGH SENSITIVITY • INTERNALLY GROUND ISOLATED • HERMETICALLY SEALED							This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/psi)</th><th>Range (psi pk)</th><th>Resolution (Grms)</th><th>Oper. Temp(°F)</th><th>TC (Sec)</th></tr><tr><td>2006M1</td><td>1000</td><td>5</td><td>1.00E-05</td><td>-60 to +250</td><td>0.6 to 1.2</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Please, refer to the performance specifications of the products in this family for detailed description. NOTES: [1] Percent full scale, zero based fit straight line method. [2] From constant current type power unit only. This sensor MUST NOT BE CONNECTED to a DC power source without current limiting, 20mA Maximum. [3] A calibration certificate traceable to NIST is supplied with each instrument. [4] Full pressure must be applied gradually. Do not exceed 100psi/ sec. CERTIFICATIONS: ATEX Ex II 1G Ex ia IIC T4 Ga (marked on each microphone) Baseefa06ATEX0321 (marked on each microphone) CE certified (marked on each microphone) 						Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)	2006M1	1000	5	1.00E-05	-60 to +250	0.6 to 1.2												
	Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)																															
	2006M1	1000	5	1.00E-05	-60 to +250	0.6 to 1.2																															
	PHYSICAL		ENGLISH		SI																																
	Weight, Max	4.7	oz	135	grams																																
	Mounting Provision	3 /4 - 18 NPT		3 /4 - 18 NPT																																	
	Connector	5/8-24, 2-PIN	Type	5/8-24, 2-PIN																																	
	Body/Diaphragm	316L SERIES SST	Material	316L SERIES SST																																	
Connector	300 SERIES SST	Material	300 SERIES SST																																		
PERFORMANCE																																					
Sensitivity +/- 6% [3]	300	mV/psi	0.044	mV/Pa																																	
Range F.S for 5 volts peak out	16.5	psi	113763	Pa																																	
Absolute Maximum Pressure [4]	5075	psi	35	MPa																																	
Equivalent Electrical Noise (Resolution)	3.00E-05	psi	0.2068	Pa																																	
Mounted Resonant Frequency	> 21	Hz	> 21	Hz																																	
Frequency Response, +/- 5%	2500	Hz	2500	Hz																																	
Minimum Rise Time of Input Pulse	5	µsec	5	µsec																																	
Discharge Time Constant	0.6 to 1.2	sec	0.6 to 1.2	sec																																	
Linearity [1]	+/-1	%F.S	+/-1	%F.S																																	
Lower -3db Frequency	0.25	Hz	0.25	Hz																																	
Lower 10% Frequency	0.5	Hz	0.5	Hz																																	
ENVIRONMENTAL																																					
Maximum Vibration	100	g rms	981	m/s ² rms																																	
Maximum Shock	500	g pk	4905	m/s ² peak																																	
Temperature Range	-60 to +250	°F	-51 to +121	°C																																	
Thermal Coefficient Of Sensitivity	0.06	% / °F	0.11	% / °C																																	
Environmental Seal	Hermetic		Hermetic																																		
ELECTRICAL																																					
Excitation Voltage Range [2]	+20 to +30	VDC	+20 to +30	VDC																																	
Excitation Current Range [2]	2 to 20	mA	2 to 20	mA																																	
Output Impedance, NOM	150	Ω	150	Ω																																	
Output Bias Voltage	11 to 13	VDC	11 to 13	VDC																																	
Output Signal Polarity For Increasing Pressure	Positive		Positive																																		
<																																					