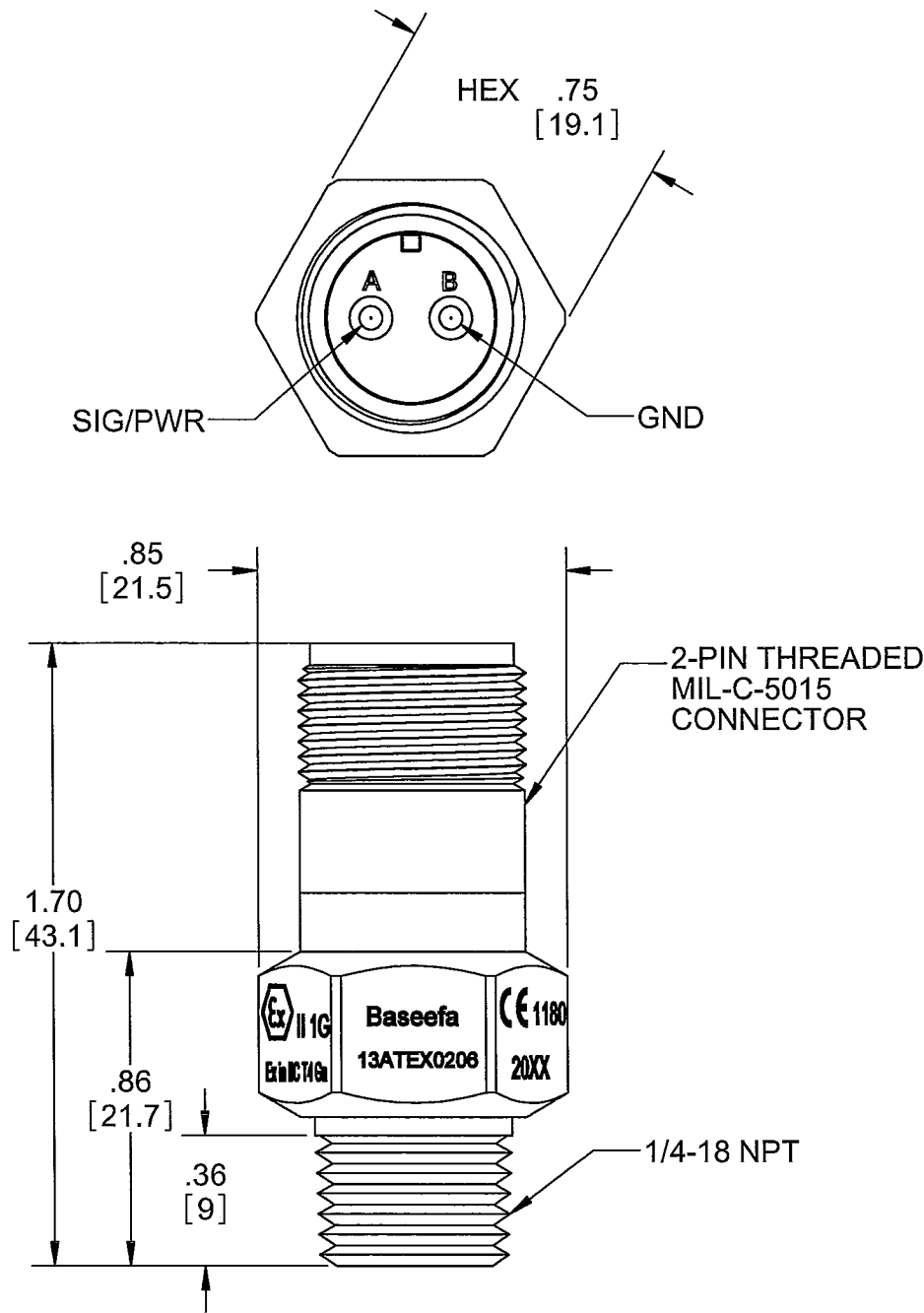


PROPRIETARY AND CONFIDENTIAL

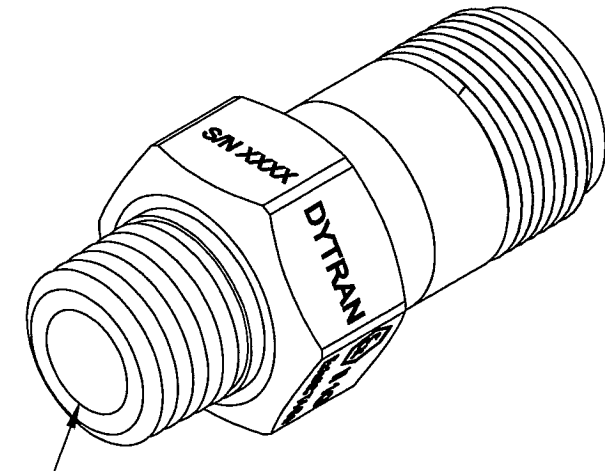
REVISIONS

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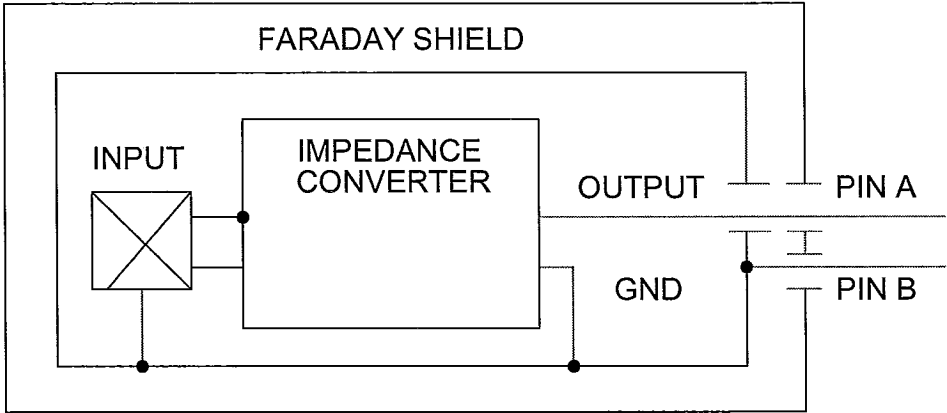
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5698	INITIAL RELEASE	01/26/09	ANS	DV
B	5351	UPDATED FORMAT	RA, 07/28/10	EP	DV
C	10439	ADDED SCHEMATIC, NOTES 3 & 4, CONFIGURATION CONTROL STAMP, AND ATEX MARKING	AB 10/02/13		



SENSING
DIAPHRAGM
Ø.31
[Ø 7.9]



HOUSING



SCHEMATIC DIAGRAM

MODEL	SENSITIVITY
2006V1	10mV/PSI
2006V2	50mV/PSI
2006V3	100mV/PSI

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

ENG QA

1. CASE TO GROUND PIN ISOLATION >100MΩ
2. MATERIAL: HOUSING/DIAPHRAGM - 316L
CONNECTOR - 304L
3. IMPEDANCE CONVERTER HAS NO VOLTAGE ENHANCING/GENERATING PARTS.
4. TOTAL SENSOR CAPACITANCE, Ci (PIEZO ELEMENT PLUS CIRCUIT CAPACITORS): 18 pF
MAXIMUM. SENSOR CONTAINS NO INDUCTIVE COMPONENTS.

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.
DIMENSIONS APPLY AFTER FINISHING.

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.
TOLERANCES ARE:

DECIMALS	ANGLES
.XX ±.01	±1°
.XXX ±.005	

APPROVALS		DATE
ORIG	DV	04/28/08
CHK	ANS	01/27/09
APP	DV	01/27/09

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA


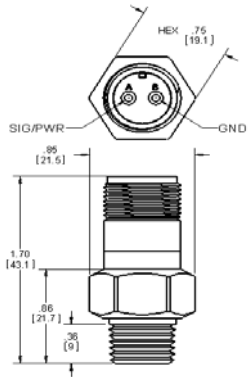
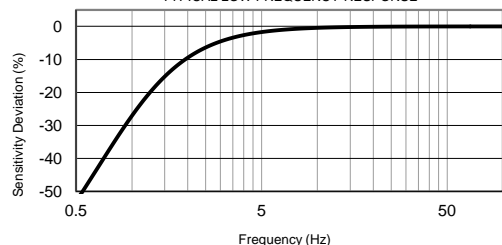
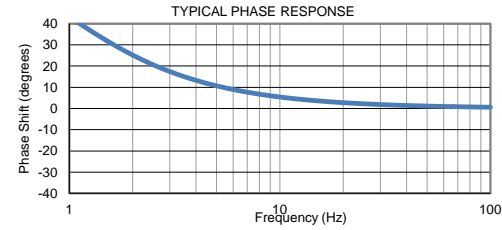

DYTRAN
INSTRUMENTS, INC. Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION
DRAWING, 2006V**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-2006V	C

SCALE: 2:1 SOLIDWORKS SHEET 1 OF 1

MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.	
2006V3						PS2006V3	
		DYNAMIC PRESSURE SENSOR, IEPE				REV D , ECN 10606, 12/18/13	
		<ul style="list-style-type: none">• HIGH SENSITIVITY• ACCELERATION COMPENSATION• ELECTRICALLY ISOLATED HOUSING					
PHYSICAL		ENGLISH		SI			
Weight, Max	1.9	oz	55	grams			
Mounting Provision	1/4-18 MNPT						
Connector	MIL-C-5015, 2 PIN						
Diaphragm Material	316L						
PERFORMANCE							
Sensitivity +/- 10%	100	mV/psi	1.45E-02	mV/Pa			
Range F.S for +/- 5 volts peak out	+/-50	psi	344738	Pa			
Maximum Pressure	8000	psi	5.5 X 10 ⁵	Pa			
Equivalent Electrical Noise (Resolution)	0.0007	psi	4.82	Pa			
Mounted Resonant Frequency	>50000	Hz	>50000	Hz			
Frequency Response, +/- 10%	2 to 5000	Hz	2 to 5000	Hz			
Minimum Rise Time of Input Pulse	2	µsec	2	µsec			
Discharge Time Constant	0.17 to 0.5	sec	0.17 to 0.5	sec			
Linearity [1]	+/-1	Hz	+/-1	%F.S			
Lower -3db Frequency	1	Hz	1	Hz			
Acceleration Sensitivity, Axial Direction	0.002	psi/g	0.014	Kpa/g			
ENVIRONMENTAL							
Maximum Vibration	3000	g rms	3000	g rms			
Maximum Shock	10000	g pk	10000	g pk			
Temperature Range	-40 to +250	°F	-40 to +121	°C			
Thermal Coefficient Of Sensitivity	0.03	% / °F	0.02	% / °C			
Environmental Seal	Hermetic						
Power/Sig Ground Isolation, Min	100	MΩ	100	MΩ			
ELECTRICAL							
Excitation Voltage Range	18 to 30	VDC	18 to 30	VDC			
Excitation Current Range [2]	2 to 20	mA	2 to 20	mA			
Output Impedance NOM	100	Ω	100	Ω			
Output Bias Voltage, NOM.	7.5 to 9.5	VDC	7.5 to 9.5	VDC			
Output Signal Polarity	Positive						
		This family also includes:					
Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)		
2006V1	10	500	0.007	-40 to +250	0.17 to 0.5		
2006V2	50	100	0.0014	-40 to +250	0.17 to 0.5		
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] In the interest of constant product improvement, we reserve the right to change the specification without notice							
CERTIFICATIONS:							
ATEX Ex II 1G Ex ia IIC T4 Ga (marked on each microphone)							
Baseefa13ATEX0206(marked on each microphone)							
CE certified (marked on each microphone)							
							
							
Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-2006V for more information.							
							
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