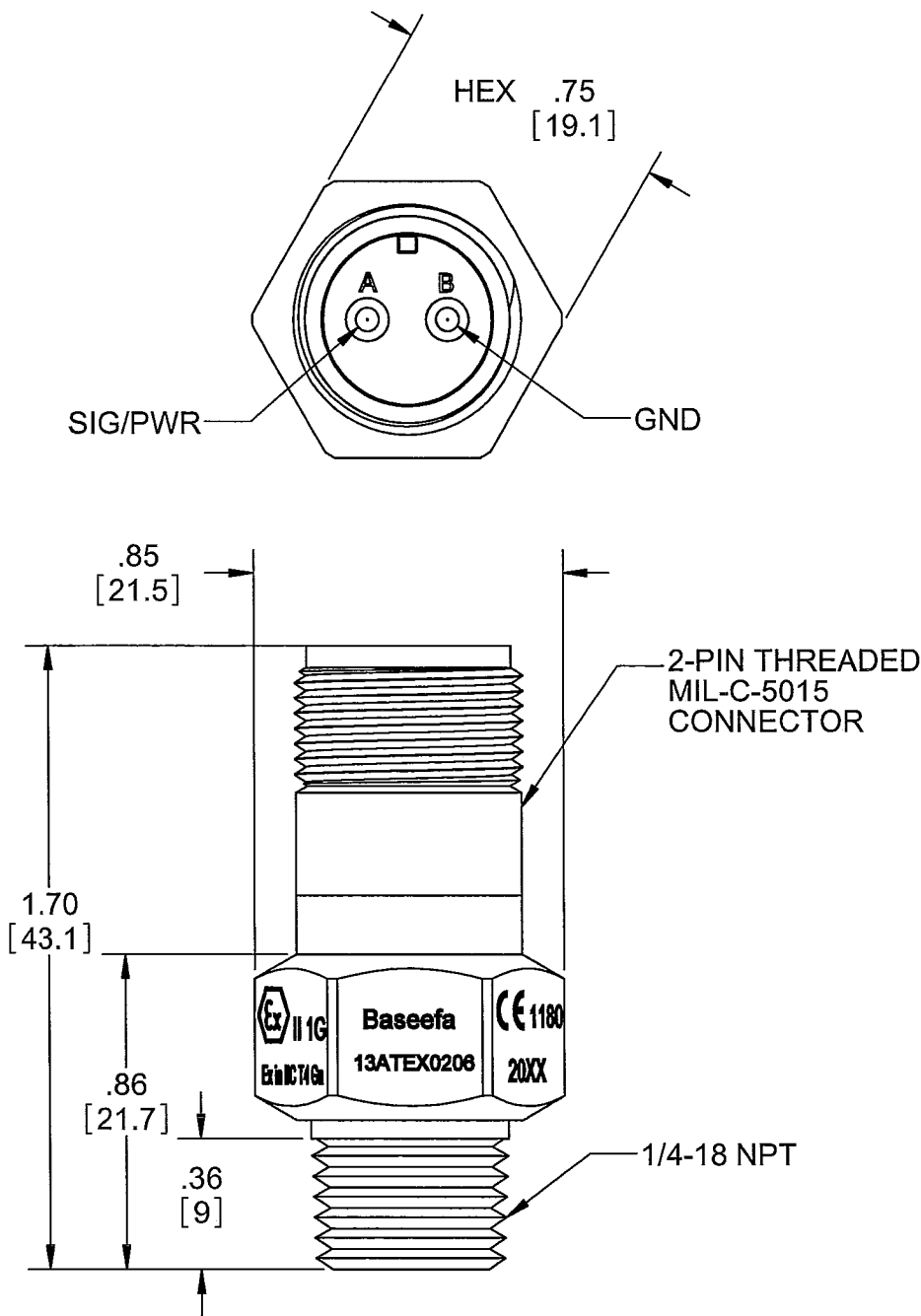


PROPRIETARY AND CONFIDENTIAL

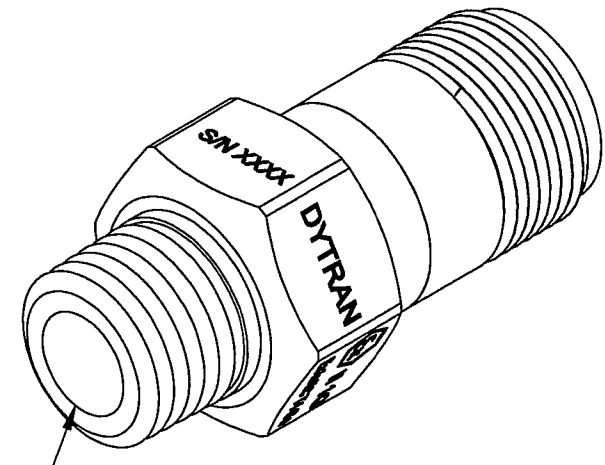
REVISIONS

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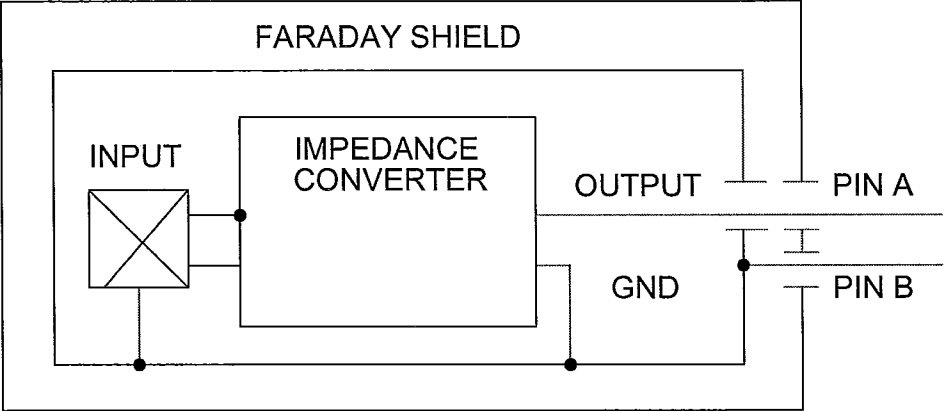
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5698	INITIAL RELEASE	01/26/09	ANS	DV
B	5351	UPDATED FORMAT	RA, 07/28/10	EP	DV
C	10439	ADDED SCHEMATIC, NOTES 3 & 4, CONFIGURATION CONTROL STAMP, AND ATEX MARKING	AB 10/02/13		



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 *EP* QA *MS*

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 2006V2		PERFORMANCE SPECIFICATION				DOC NO. PS2006V2	
		DYNAMIC PRESSURE SENSOR, IEPE				REV D, ECN 10606, 12/18/13	
		• HIGH SENSITIVITY • ACCELERATION COMPENSATION • ELECTRICALLY ISOLATED HOUSING					
		ENGLISH		SI			
PHYSICAL							
Weight, Max		1.9 oz		55 grams			
Mounting Provision		1/4-18 MNPT		1/4-18 MNPT			
Connector		MIL-C-5012, 2 PIN		MIL-C-5012, 2 PIN			
Diaphragm Material		316L		316L			
		Type					
		Material					
PERFORMANCE							
Sensitivity +/- 10%		50 mV/psi		7.2 X 10 ³ mV/Pa			
Range F.S for +/- 5 volts peak out		+/-100 psi		689476 Pa			
Maximum Pressure		8000 psi		5.5 X 10 ⁵ Pa			
Equivalent Electrical Noise (Resolution)		0.0014 psi		9.65 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		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		Positive			