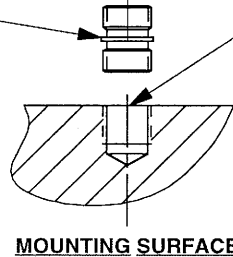


SCHEMATIC DIAGRAM

MOUNTING PREPARATION

PREPARE SURFACE Ø1.05, FLAT TO .001 TIR. Ⓐ
 DRILL #3 (Ø.213) X .250 DEEP
 BOTTOM TAP 1/4-28 UNF-2B X .200 MIN THREAD DEPTH

6176 MOUNTING STUD (SUPPLIED)



EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
 TOLERANCE: .XXX = ± .XX = ±
 SURFACE FINISH EXCEPT AS NOTED ✓
 BREAK EDGES TO DEBURR RADIUS OR CHAMFER
 THESE DIAS Ⓞ TO T.I.R.
 FILLETS - MAX RAD.

ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:

- M - MACHINED ONLY (UNPLATED)
- P - PLATED/PAINTED
- H - HEAT TREATED
- G - MATERIAL HAS BEEN GRAINED
- S - MATERIAL HAS BEEN SAWCUT
- E - ENVIRONMENTAL TEST

DIYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	1X	REV	A	DATE	8/6/02
DATE	3/24/98	PART NO.			
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED	8-6-02		NEXT ASSEMBLY	USED ON	3192A
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3192A				127-3192A	
				SHEET 1 OF 1	

Model Number 3192A	PERFORMANCE SPECIFICATION		DOC NO PS3192A
	SINGLE AXIS IEPE ACCELEROMETER		REV B, ECN 7259, 12/06/10



- **HIGH SENSITIVITY**
- **HERMETICALLY SEALED**
- **EXCELLENT LINEARITY**

ENGLISH		SI	
Weight	6.65 oz	190.0	grams
Size	1.125 x 2.25 Inches	28.57 x 57.15	mm
Connector	10SL-4P	10SL-4P	
Mounting Provision : Tapped Hole	1/4-28 x .250 deep	1/4-28 x .250 deep	
Material : Base, Cap and Connector	304L	304L	
Element Style	Ceramic	Ceramic	
	Planar Shear	Planar Shear	

PHYSICAL

Weight
Size
Connector
Mounting Provision : Tapped Hole
Material : Base, Cap and Connector
Element Style

PERFORMANCE

Sensitivity, ±5% [1]
Range F.S for ± 5 Volts Output
Frequency Range, ±5%
Resonant Frequency, Nominal
Equivalent Electrical Noise Floor
Spectral Noise

	1	V/g	0.10	V/m/s ²
	±5	G's	±49	m/s ²
	0.5 to 1000	Hz	0.5 to 1000	Hz
	12	kHz	12	kHz
	0.000036	Grms	0.00035	m/s ² rms
1Hz	4.0	µGrms/v(Hz)	39.24	µm/s ² rms/v(Hz)
10Hz	8.1	µGrms/v(Hz)	79.46	µm/s ² rms/v(Hz)
100Hz	0.5	µGrms/v(Hz)	4.91	µm/s ² rms/v(Hz)
1000Hz	0.36	µGrms/v(Hz)	3.53	µm/s ² rms/v(Hz)
Linearity [3]	± 2%	% F.S.	± 2%	% F.S.
Maximum Transverse sensitivity	5	%	5	%
Strain Sensitivity	0.005	g/µε	0.05	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal, Hermetic

	±50	Gpeak	±490	m/s ² peak
	±100	Gpeak	±981	m/s ² peak
	-60 to +250	°F	-51 to 121	°C
	Glass-to-metal/Welded		Glass-to-metal/Welded	

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant, Nom
Output Signal Polarity for Acceleration Towards Top
Electrical Isolation, Case Ground To Mounting Surface

	2 to 20	mA	2 to 20	mA
	+ 18 to +30	Volts	+18 to +30	Volts
	100	Ω	100	Ω
	+11 to +13	VDC	+11 to +13	VDC
	1.0 to 1.3	Sec	1.0 to 1.3	Sec
	Positive		Positive	
	10	GΩ, min	10	GΩ, min

This family also includes:

Model	Sensitivity (mV/g)	Range F.S ± 5 Volts (G's)	Max Vibration/Shock(± Gpeak)	Resonant Frequency (kHz)

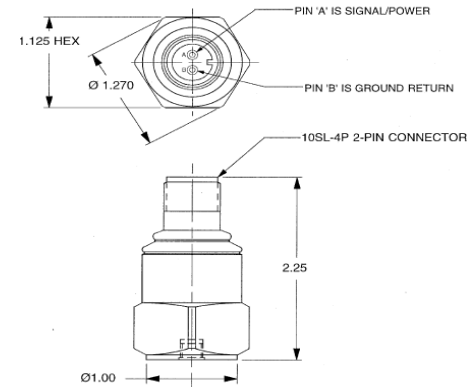
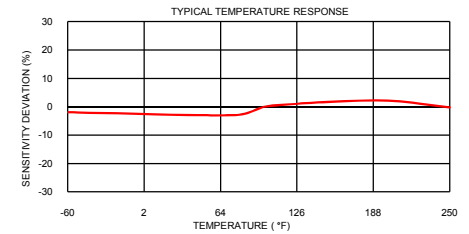
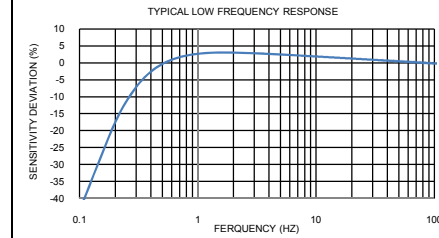
Please refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6176 mounting stud, qty 1

Notes:

- [1] Measure at 100Hz, 1 Grms per ISA RP 37.2
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3192A for more information.



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