

PROPRIETARY AND CONFIDENTIAL

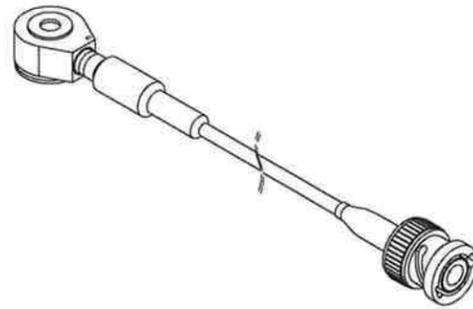
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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	12770	INITIAL RELEASE	LA 06/21/16	MH	LA

1 CABLE LENGTH TOLERANCE

ENGLISH		[METRIC]	
≤1FT	+1/ -0 IN	≤0.3m	+25mm -0mm
>1 FT - 5 FT	+2/ -0 IN	.0.3 m-1.5m	+50mm -0mm
> 5 FT - 10 FT	+4/ -0 IN	>1.5m-3m	+100mm -0mm
>10 FT - 25FT	+6 / -0 IN	>3m-7.5m	+150mm -0mm
>25 FT	+5% / -0%	>7.5m	+5%/-0%

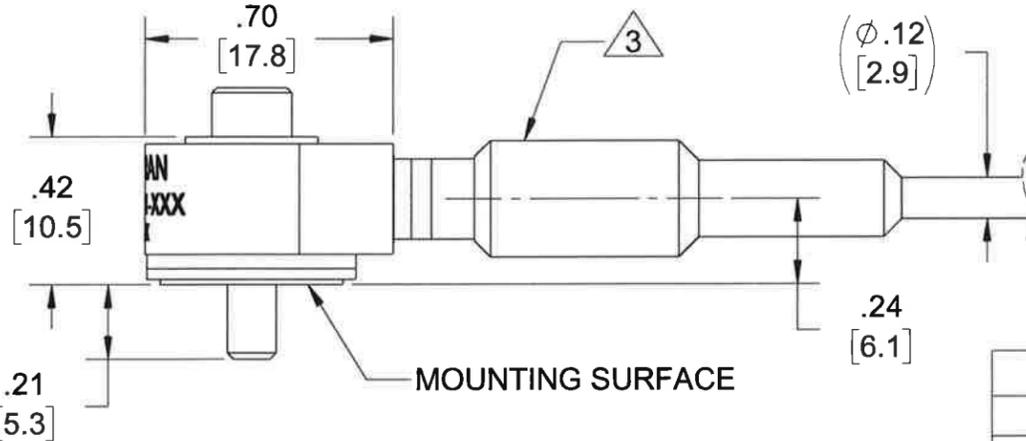


Ø.037 [.94] SAFETY WIRE HOLE

HEATSHRINK

C

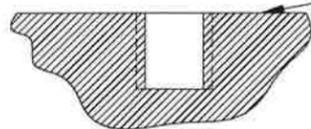
DYTRAN MODEL 6595 MOUNTING SCREW (SUPPLIED)



BNC PLUG CONNECTOR

B

MOUNTING RECOMMENDATIONS: PREPARE FLAT MOUNTING SURFACE Ø.60 [15.2] (Ø.50 [12.7] MIN), FLAT TO .001 TIR. DRILL AND TAP 8-32 UNC-2B ∇.300 [7.62] MIN. RECOMMENDED MOUNTING TORQUE: 15 LB IN +5/-0 LB IN. FOR BEST FREQUENCY RESPONSE ACCELEROMETER MUST CONTACT MOUNTING SURFACE OVER ENTIRE MOUNTING SURFACE OF ACCELEROMETER



2 CABLE SPECIFICATIONS

PRESSURE RATING	200 PSI [1.38 MPa] MAX.
VOLTAGE	600 VOLTS
MINIMUM BEND DIAMETER	6 IN. [152.4mm]
CONDUCTORS	26 AWG- 7/34, POLYPROPYLENE INSULATION, WHITE & BLACK
DRAIN WIRES	26 AWG- 7/34, WATERBLOCKED STRANDING
INNER JACKET	WHITE, POLYVINYL CHLORIDE (PVC)
OUTER JACKET	ORANGE, POLYURETHANE, Ø.115 IN. [2.92mm] NOM.
TEMPERATURE RATING	0 °C TO 100 °C
WEIGHT IN AIR	9 LB. / 1000 FT.
WEIGHT IN SEAWATER	4 LB. / 1000 FT.

A

- 6. HOUSING MATERIAL: TITANIUM.
- 5 ARROW INDICATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT.
- 4. WEIGHT (LESS CABLE): 9.6 GRAMS.
- 3 MOLDED BOOT MATERIAL: POLYURETHANE.
- 2 SEE CABLE SPECIFICATION TABLE.
- 1 MODEL NUMBER: 3211B1-XX. "XX" DENOTES CABLE LENGTH IN FEET. SEE TABLE FOR CABLE LENGTH TOLERANCE.

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.

DECIMALS		METRIC		ANGLES
.XX ±.03	.X ±0.8	.X ±0.8	.XX ±0.25	±1°
.XXX ±.010				

APPROVALS		DATE
ORIG	LA	06/21/16
CHK	MH	07/05/16
APP	LA	7/2/16

DO NOT SCALE DRAWING

DYTRAN INSTRUMENTS, INC. MASTER ONLY FINISHED Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3211B1-XX**

SIZE B	CAGE CODE 2W033	DWG NO 127-3211B1	REV A
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SCALE: 1:1 SHEET 1 OF 1

Model Number 3211B1-XX	PERFORMANCE SPECIFICATIONS	DOC NO PS3211B1-XX
IEPE ACCELEROMETER		REV C, ECN 15288, 08/26/19



- HIGH FREQUENCY RESPONSE
- HERMETICALLY SEALED
- MOLDED INTEGRAL CABLE
- BASE ISOLATED

PHYSICAL

Weight (Less Cable)
Cable
Mounting Provision
Material, Housing
Sensing Element
Element Style

ENGLISH		SI	
0.34	oz	9.6	grams
Integral to BNC		Integral to BNC	
8-32 Mtg Screw		8-32 Mtg Screw	
Titanium		Titanium	
Ceramic		Ceramic	
Shear		Shear	

PERFORMANCE

Sensitivity, ±5% [1]
Range for ±5 Volts Output
Frequency Response, ±5%
Resonant Frequency
Broadband Resolution
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε

10	mV/g	1	mV/m/s ²
500	g	4905	m/s ²
1 to 10000	Hz	1 to 10000	Hz
> 31	kHz	> 31	kHz
0.003	Grms	0.03	m/s ² rms
±1	% F.S.	±1	% F.S.
5	%	5	%
0.04	g/µε	0.4	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal

500	Gpeak	4905	m/s ² peak
5000	Gpeak	49050	m/s ² peak
-60 to 212	°F	-51 to 100	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ.
Bias Voltage
Discharge Time Constant
Electrical Isolation

2 to 20	mA	2 to 20	mA
+18 to +20	Volts	+18 to +20	Volts
100	Ω	100	Ω
+11 to +13	VDC	+11 to +13	VDC
0.5 to 1.5	Sec	0.5 to 1.5	Sec
10	GΩ,min	10	GΩ,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3211B2-XX	100	1 to 12800	0.5 to 1.5	-60 to +212

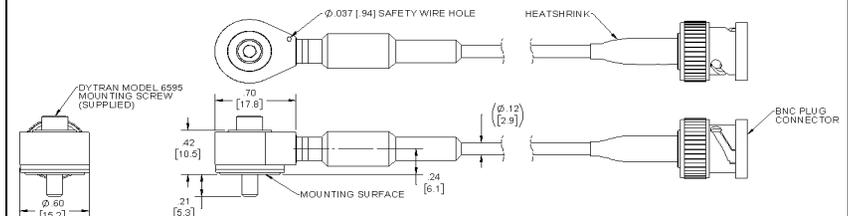
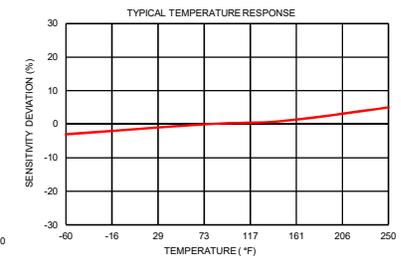
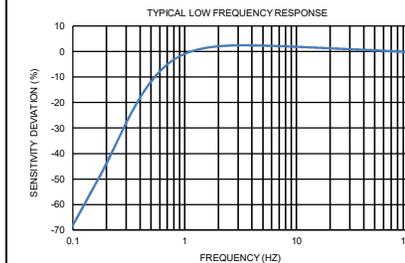
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw model 6595, Qty 1

Notes:

- [1] Measured 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.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3211B1 for more information.



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