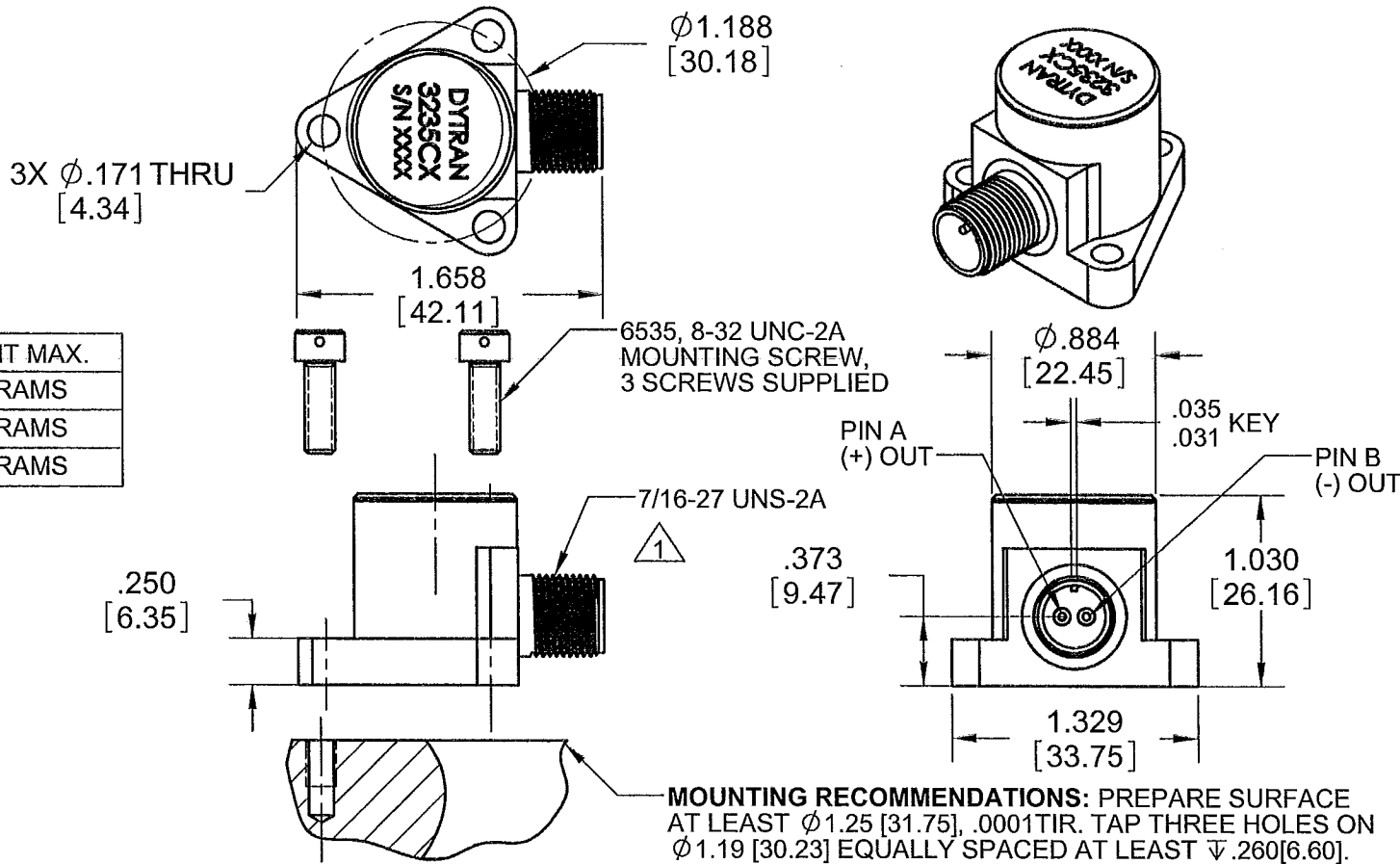


**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	8764	3235C1 IS: 69 GRAMS WAS: 55 GRAMS 3235C2 IS: 72 GRAMS WAS: 55 GRAMS 3235C3 IS: 75 GRAMS WAS: 55 GRAMS	AB 06/18/12		<i>aws</i>



MODEL	SENSITIVITY	WEIGHT MAX.
3235C1	50pC/G	69 GRAMS
3235C2	100pC/G	72 GRAMS
3235C3	200pC/G	75 GRAMS

**MOUNTING RECOMMENDATIONS:** PREPARE SURFACE AT LEAST  $\phi 1.25$  [31.75], .0001TIR. TAP THREE HOLES ON  $\phi 1.19$  [30.23] EQUALLY SPACED AT LEAST  $\nabla .260$  [6.60]. RECOMMENDED MOUNTING TORQUE 12 LB-IN.

2. CASE MATERIAL: 304L

$\triangle 1$  MATES WITH GLENAIR G345-1 PLUG

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.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS. TOLERANCES ARE: DECIMALS ANGLES INCH METRIC .XX ± .03 .X ± 0.8 .XXX ± .010 .XX ± 0.25
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
ALL MACHINED SURFACES. $\checkmark$ 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.	

CONTRACT NO.	
APPROVALS	DATE
ORIG JS	07/01/09
CHK EP	01/25/10
APP DV	01/28/10
APP	
DO NOT SCALE DRAWING	

**DYTRAN INSTRUMENTS, INC.** MASTER ONLY IF IN RED Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING 3235C**

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3235C</b>	REV <b>C</b>
SCALE: 1:1	SOLIDWORKS	SHEET 1 OF 1	

<b>MODEL NUMBER</b>	<b>PERFORMANCE SPECIFICATION</b>		<b>DOC NUMBER</b> <b>PS3235C3</b>
<b>3235C3</b>	<b>Accelerometer, Single Axis Differential, Charge Mode</b>		REV C, ECN 8764, 06/18/12



Actual Size

- HIGH-TEMPERATURE OPERATION
- HIGH CHARGE SENSITIVITY
- EXTREME STABILITY OVER TEMPERATURE
- BALANCED DIFFERENTIAL OUTPUT

**PHYSICAL**

	ENGLISH		SI	
Weight, Max Size	1.9	oz	75	grams
Length	1.65	inch	42.11	mm
Height	1.03	inch	26.16	mm
Mounting, Three-hole Connector[1]	Diameter 1.19	inch	30.23	mm
	Material St. Steel		St. Steel	
	Type 2-Pin		2-Pin	
Housing	Material 304L		304L	
Isolation	Pins to Housing 10GΩ MIN		10GΩ MIN	
Sensing Element	Material Ceramic		Ceramic	
	Mode Compression		Compression	

**PERFORMANCE**

Sensitivity [2] +/-5%	200	pC/g	20.39	pC/m/s <sup>2</sup>
Acceleration Range	[3]	Gpeak	[3]	m/s <sup>2</sup> peak
Frequency Range, ±15%	[4] - 10,000	Hz	[4]- 10,000	Hz
Resonance Frequency	35	kHz	35	kHz
Transverse Sensitivity	5	%	5	%
Insulation Resistance (75°F)	250	GΩ	250	GΩ
Insulation Resistance (400°F)	10	GΩ	10	GΩ
Insulation Resistance (450°F)	100	MΩ	100	MΩ
Insulation Resistance (550°F)[5]	15	MΩ	15	MΩ
Operating Temperature	-60 to 550	°F	-51 to 287	°C
Capacitance, pin to pin	3200	pF	3200	pF
Unbalance between pins	<2	pF	<2	pF
Linearity	1	%	1	%

**ENVIRONMENTAL**

Shock, MAX	2000	g pk	19620	m/s <sup>2</sup>
Vibration, MAX	1000	g pk	9810	m/s <sup>2</sup>
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.000008	g/Gauss	0.000078	m/s <sup>2</sup> /Gauss
Base Strain Sensitivity	0.09	g/με	0.88	m/s <sup>2</sup> /με

**This family also includes:**

Model	Sensitivity (pC/g)	Range (Gpeak)	Oper. Temp(°F)
3235C1	50	[3]	-60 to 550[5]
3235C2	100	[3]	-60 to 550[5]

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

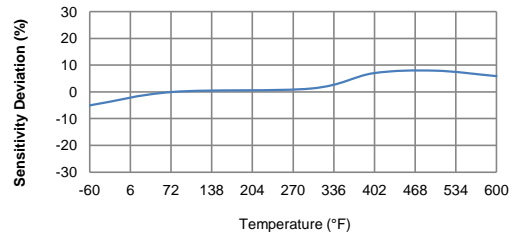
**Supplied Accessories:**

- 1) Model 6535 Mounting Screw, 8-32 thread (3)
- 2) Accredited Calibration Certificate (ISO 17025)

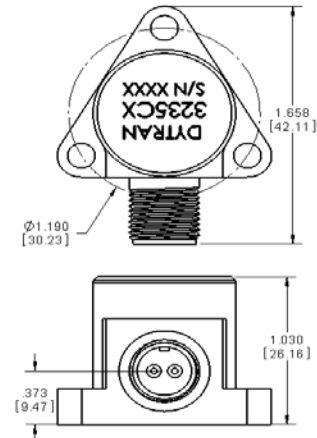
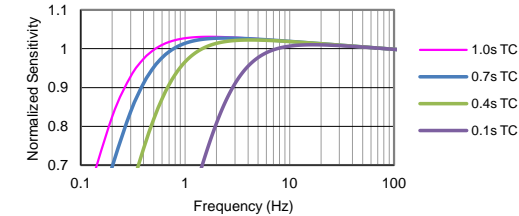
**Notes:**

- [1] 2-Pin, Glass-To-Metal Seal connector. Mates With Glenair G345-1 Plug.
- [2] Actual Sensitivity Is Given On A Calibration Certificate
- [3] Depends On the Gain Setting Of The Charge Amplifier Used
- [4] Low Frequency Response Is the Function Of the Discharge Time Constant Of The Charge Amplifier Used. Please, Refer To The Plot Below For Frequency Response For Different Time Constants
- [5] The unit is able to withstand short exposure of 600F temperature
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.

Typical Temperature Response



Typical Low Frequency Response [4]



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3235C for more information.



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