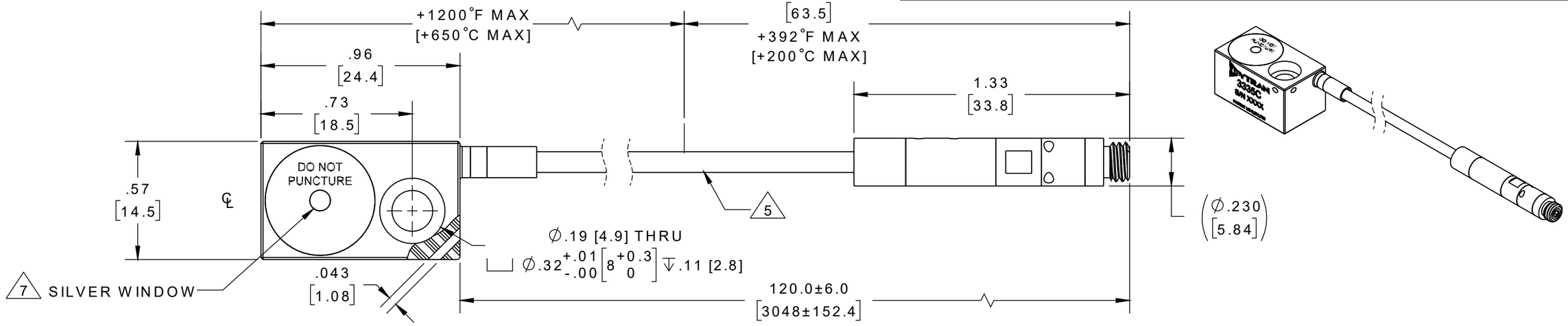
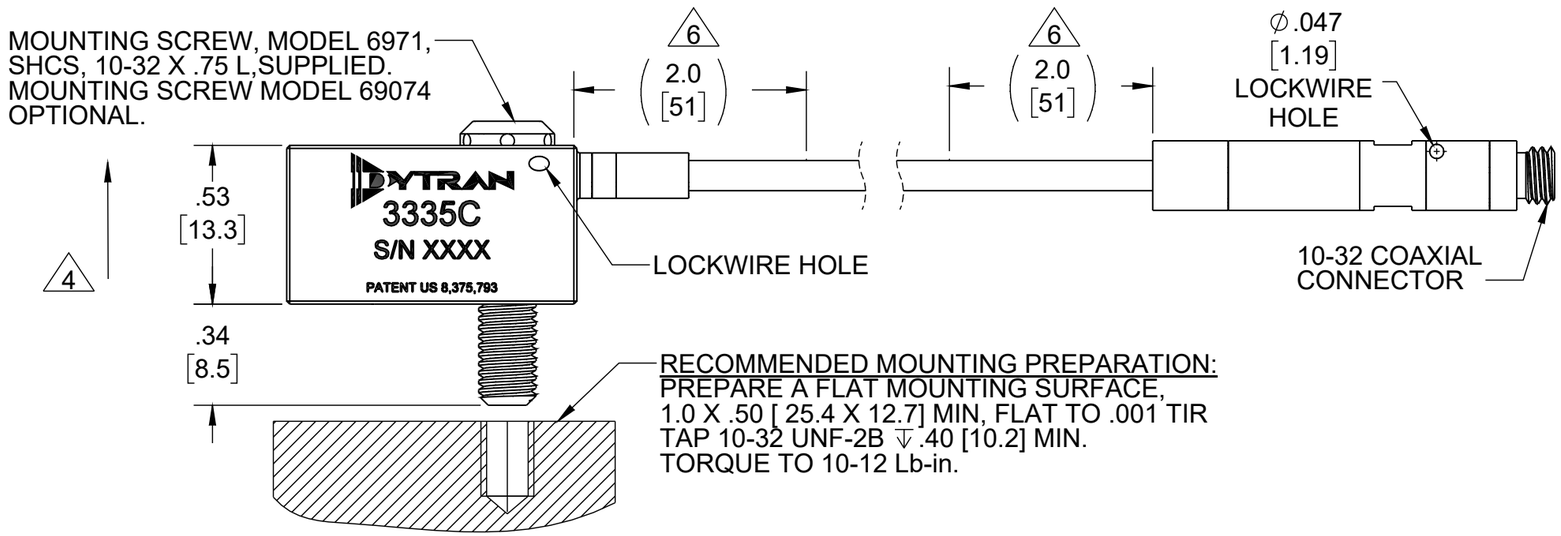
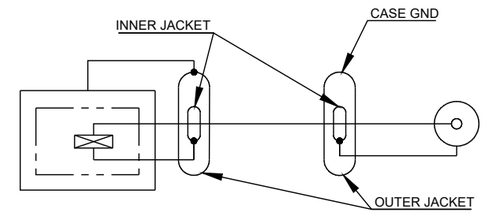
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	16935	UPDATED MAX TEMPERATURE: IS: 650°C, WAS: 649°C	AS 11/16/22	JT	JB







SCHEMATIC DIAGRAM

7 US PATENT NUMBER US 8,375,793 B2

6 DO NOT BEND CABLE WITHIN INDICATED SECTION ON BOTH ENDS OF CABLE.
DO NOT BEND CABLE WHILE SENSOR IS INSTALLED.

5 HARDLINE CABLE: - JACKET: STAINLESS STEEL
- INSULATION: SILICONE DIOXIDE
- CONDUCTOR: STAINLESS STEEL
- MININUM BEND RADIUS: 1.5 IN

4 ARROW INDICATES DIRECTION OF ACCELERATION FOR NEGATIVE CHARGE OUTPUT

3. HOUSING MATERIAL: ALLOY 600
2. WEIGHT, LESS CABLE: 35 GRAMS, MAX.
1. CHARGE SENSITIVITY: 1 - 2 pC/g

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 63
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.
DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE:

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

APPROVALS		DATE
ORIG	LN	07/19/13
CHK	DV	04/14/17
APP	AS	04/17/17

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

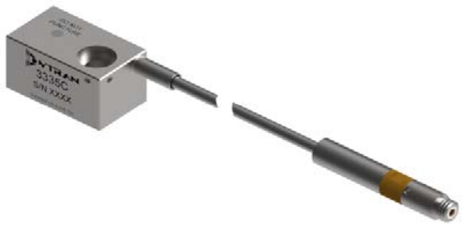
TITLE: OUTLINE/ INSTALLATION DWG, MODEL 3335C

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3335C	C

SCALE: 2:1 | PART NO: 3335C | SHEET 1 OF 1

172-0186 REV A

Model Number 3335C	PERFORMANCE SPECIFICATION	DOC NO PS3335C
	SINGLE AXIS, CHARGE MODE ACCELEROMETER	REV F, ECN 16935, 11/16/22



- **HERMETICALLY SEALED**
- **HIGH TEMPERATURE (1200°F [650°C]) OPERATION**
- **CASE GROUND ISOLATED**

This family also includes:

Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)

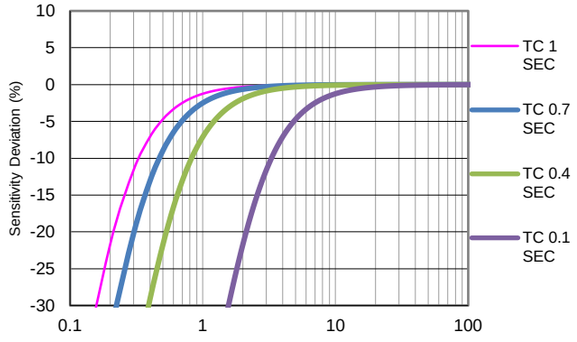
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:
1) Accredited calibration certificate (ISO 17025)
2) Mounting screw, model 6971 (SHCS, 10-32 X .75), Qty 1. Mounting screw model 69074 (Hex, 10-32 X.75) optional.

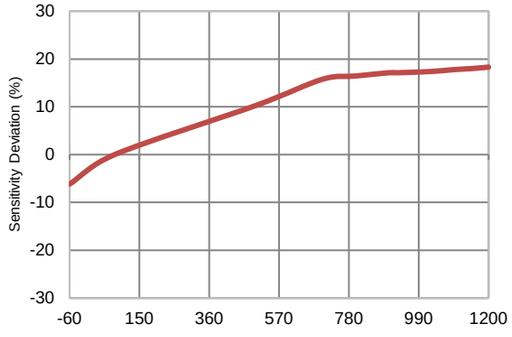
Notes:
[1] Measured at 100Hz
[2] Measured using zero-based straight line method, % of F.S. or any lesser range.
[3] Low frequency response and phase response is function of charge amplifier. See graph below for example.
[4] U.S. Patent number US 8,375,793 B2 applies to this unit.
[5] In the interest 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 over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

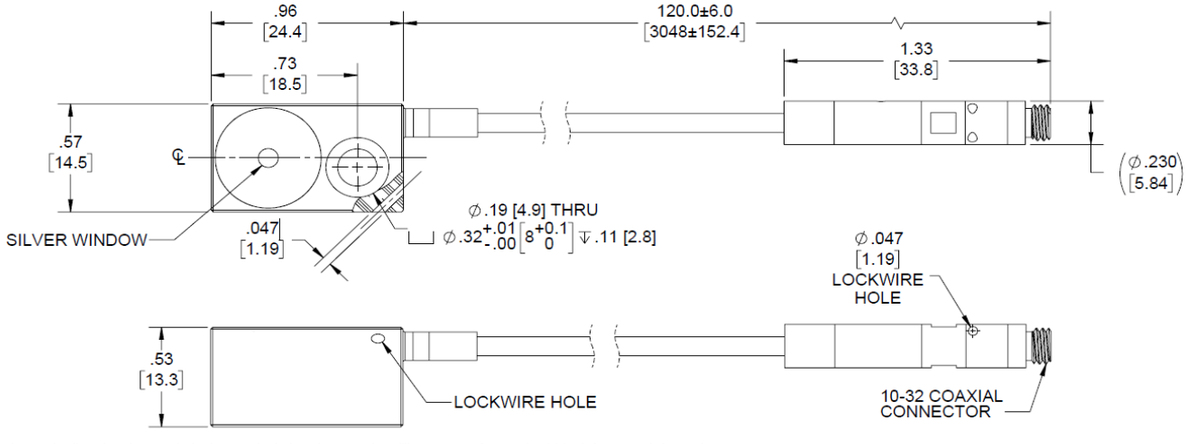
		ENGLISH		SI	
PHYSICAL					
Weight, Max. (Less Cable)		1.23	oz	35	grams
Connector	Type	10-32		10-32	
Mounting Provision		10-32 Screw		10-32 Screw	
Material	Housing	Alloy 600		Alloy 600	
	Connector	Stainless Steel		Stainless Steel	
Element Style	Material	Single Crystal		Single Crystal	
	Type	Planar Shear		Planar Shear	
PERFORMANCE					
Sensitivity [1]		1 - 2	pC/g	0.1 - 0.2	$pC/m/s^2$
Frequency Response	±10%	[3] to 3500	Hz	[3] to 3500	Hz
	±30%	[3] to 5000	Hz	[3] to 5000	Hz
Resonant Frequency		> 20	kHz	> 20	kHz
Capacitance		340	pF	340	pF
Linearity [2]		± 1%	% F.S.	± 1%	% F.S.
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity		0.002	g/με	0.02	$m/s^2/με$
Insulation resistance		at 75°F >1.0E8	Ω	at 24°C >1.0E8	Ω
		at 1200°F >5.0E4	Ω	at 649°C >5.0E4	Ω
Output Polarity		Negative		Negative	
ENVIRONMENTAL					
Maximum Shock		±2000	g pk	±19620	m/s^2 pk
Temperature Range		-60 to +1200	°F	-51 to +650	°C
Seal		Hermetic		Hermetic	
Ground Isolation		>1.0E8	Ω	>1.0E8	Ω

TYPICAL LOW FREQUENCY RESPONSE



TYPICAL TEMPERATURE RESPONSE





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3335C for more information.

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