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DWG NO 127-3225F14 SH 1 REV A

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PROPRIETARY AND CONFIDENTIAL

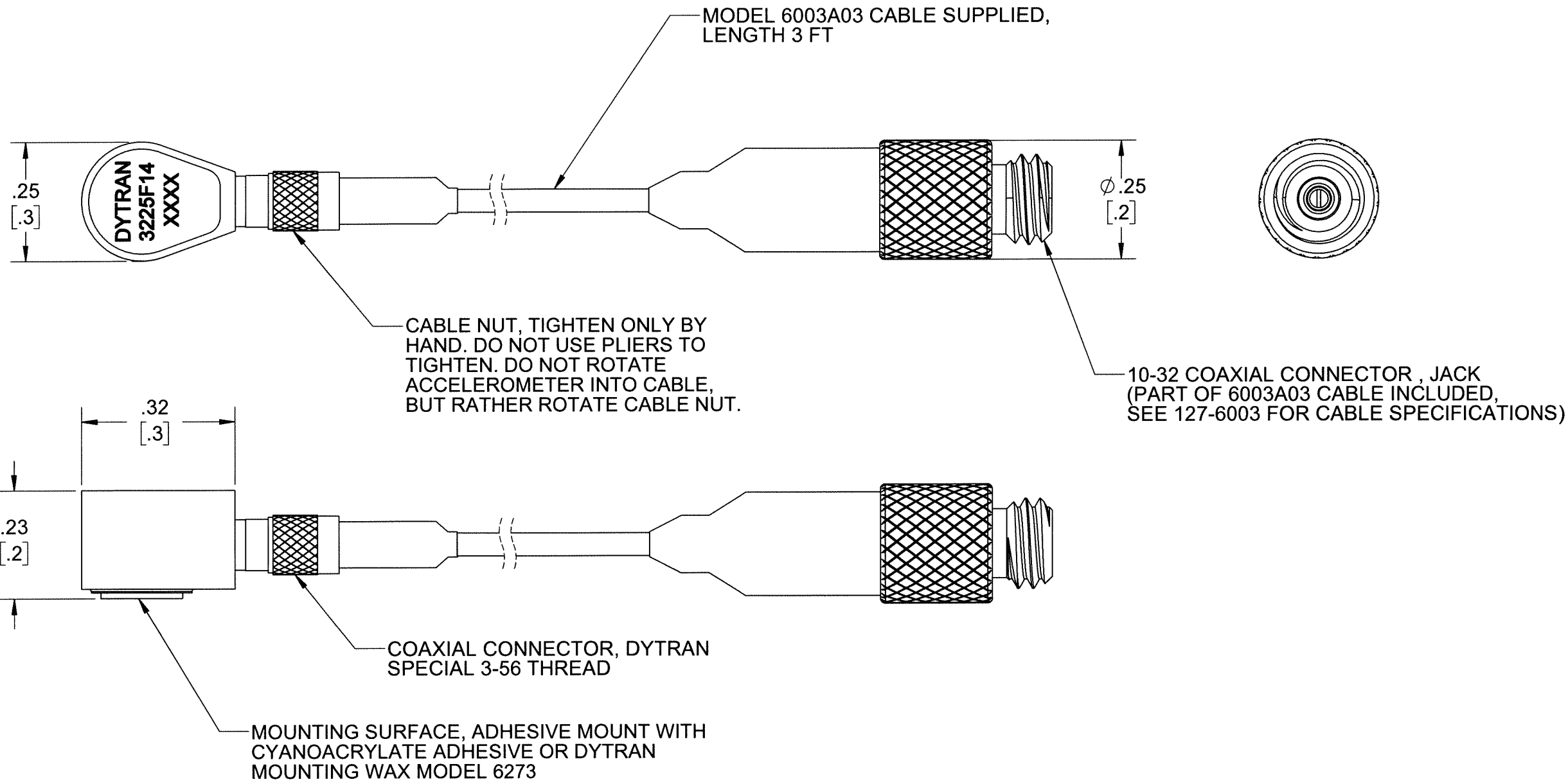
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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14598	INITIAL RELEASE, SAME AS X1	RA, 10/17/18	DP	W

D

D



C

C

B

B

A

A

- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 0.85 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

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.
 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	RA	10/12/18
CHK	DP	10/18/18
APP	W	10/22/18

DO NOT SCALE DRAWING

TITLE: **OUTLINE/INSTALLATION, DWG, MODEL 3225F14**

SIZE B	CAGE CODE 2W033	DWG NO 127-3225F14	REV A
SCALE: 1:1		SHEET 1 OF 1	

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MODEL NUMBER 3225F14	PERFORMANCE SPECIFICATION	DOC NO. PS3225F14
ACCELEROMETER, IEPE		REV A, ECN 14598, 10/12/18



- MINIATURE SIZE
- REMOVABLE CABLE WITH 10-32 CONNECTOR
- HERMETICALLY SEALED

PHYSICAL

Weight, Max.(Less cable)	0.04	oz	1.0	grams
Size (Dia. x Length Hex x Height)	0.25 x 0.43 x 0.215	in	6.4 x 10.9 x 5.5	mm
Mounting Provision [1]	[1]		[1]	
Connector, Radially Mounted [2]	3-56		3-56	
Case Material	Titanium		Titanium	
Sensing Element	Ceramic		Ceramic	
Material Mode	Shear		Shear	

ENGLISH		SI	
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PERFORMANCE

Sensitivity, ± 10% [3]	50	mV/g	5.1	mV/m/s ²
Range F.S For ± 5 Volts Out	± 100	g pk	± 981	m/s ² pk
Frequency Response, +/- 10%	2 to 10,000	Hz	2 to 10,000	Hz
Mounted Resonant Frequency	> 40	kHz	> 40	kHz
Amplitude Non-Linearity [4]	2	% F.S	2	% F.S
Transverse Sensitivity, Max.	5	%	5	%
Equivalent Electrical Noise Floor [6]	0.0014	grms	0.014	m/s ² rms
Strain Sensitivity @250/μe	0.05	g/μe	0.49	m/s ² /μe

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ENVIRONMENTAL

Maximum Vibration	400	Grms	3924	m/s ² rms
Maximum Shock	5000	Gpeak	49050	m/s ² peak
Temperature Range	-60 to +220	°F	-51 to +104	°C
Environmental Seal	Hermetic		Hermetic	
Coefficient of Thermal Sensitivity	.15	%/°F	0.27	%/°C

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ELECTRICAL

Supply Current [5]	2 to 20	mA	2 to 20	mA
Compliance Voltage	+18 to +30	Volts	+18 to +30	Volts
Output Impedance, Typ.	100	Ω	100	Ω
Bias Voltage	+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant	0.5 to 1.8	Sec	0.5 to 1.8	Sec
Output Signal Polarity for Acceleration Toward Top	Positive		Positive	

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Discharge Time Constant	0.5 to 1.8	Sec	0.5 to 1.8	Sec
Output Signal Polarity for Acceleration Toward Top	Positive		Positive	

This family also includes:

Model	Sensitivity (mV/g)	Range (g's)	Resolution (Grms)	Oper. Temp(°F)	TC

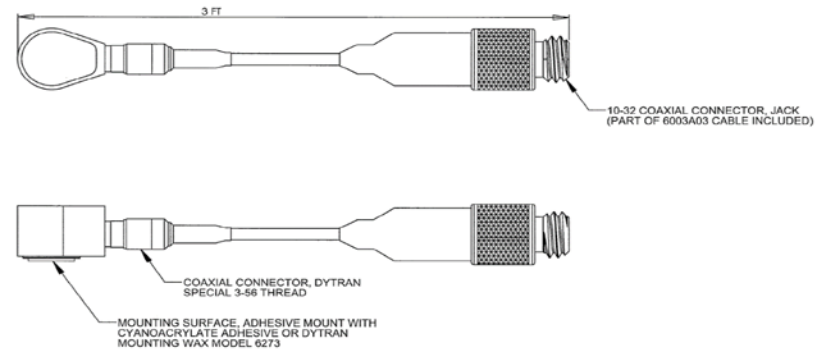
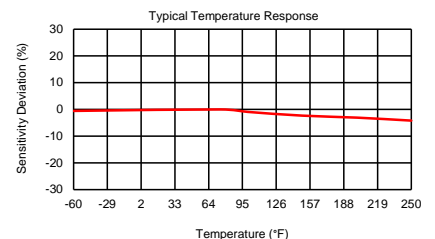
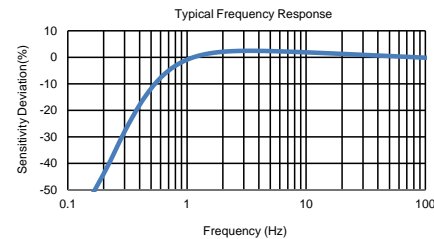
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories

- 1) Model 6591A installation wrench
- 2) Model 6298 small petro mounting wax
- 3) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Flat mounting surface for adhesive mount.
- [2] Mates with Dytran cable 6003A
- [3] Measured at 100 Hz, 1 grms per ISA RP37.2.
- [4] Percent of full scale or any lesser range, zero based best-fit straight line method.
- [5] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
- [6] Typical. Not to exceed 0.002 Grms [0.02 m/s²].



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3225F14 for more information.

