

PROPRIETARY AND CONFIDENTIAL

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MODEL	RANGE
7604A1	±5g
7604A2	±10g
7604A3	±25g
7604A4	±50g
7604A5	±100g
7604A6	±200g

DWG NO 127-7604A SH 1 REV B

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	12548	CLARIFIED MARKING	EM 03/17/16	PA	LN

3 CABLE SPECIFICATIONS

TEMPERATURE	200 °C MAX.
VOLTAGE	250 VOLTS MAX.
CONDUCTORS	30 AWG- 7/38, SILVER PLATED COPPER
SHIELDING	SILVER PLATED COPPER BRAID, 90% MIN COVERAGE
OUTER JACKET	FEP, Ø.105 IN. [2.7mm] MAX. , Ø.095 IN. [2.4mm] MIN.

- 4 MOUNTING SCREW, MODEL 6746, 4-40 X .438, QTY. 2, SUPPLIED. MOUNTING SCREW, MODEL 6688, M3x0.5 X 12mm, QTY. 2, SUPPLIED.
- 3 CABLE, 4 CONDUCTORS, FEP JACKET. SEE TABLE FOR SPECIFICATIONS.
- 2 ARROW AND "+" SIGN INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
- 1 MARKING DENOTES LOCATION OF SENSING ELEMENT.

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	LN	12/02/13
CHK	EP	12/10/15
APP	DV	12/12/15
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA

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

TITLE:
**OUTLINE/INSTALATION DRAWING,
7604A SERIES**

SIZE B	CAGE CODE 2W033	DWG NO 127-7604A	REV B
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SCALE: 4:1 SHEET 1 OF 1

Model Number 7604A1		PERFORMANCE SPECIFICATION				DOC NO PS7604A1	
		VARIABLE CAPACITANCE ACCELEROMETER				REV G, ECN 15839, 08/07/20	
		<ul style="list-style-type: none">• POWER SUPPLY IDENTICAL TO STRAIN GAGE SENSORS• VARIABLE CAPACITANCE ACCELEROMETER• DIFFERENTIAL MODE• HERMETICALLY SEALED• DC RESPONSE• INTEGRAL CABLE• ENVIRONMENTAL BOOT					
PHYSICAL		ENGLISH		SI			
Weight, Max (less cable)		0.1 oz		3.6 grams			
Integral Cable		Flying Leads		Flying Leads			
Material		Titanium Alloy		Titanium Alloy			
PERFORMANCE							
Input Range		±5 g pk		±49 m/s ² pk			
Frequency Response (±3dB)		0-400 Hz		0-400 Hz			
Resonant Frequency		3.5 kHz		3.5 kHz			
Sensitivity Differential, ±5% [1]		100 mV/g		10.2 mV/m/s ²			
Output Noise, Differential ,Typ		12 µg RMS/√ Hz		118 µ m/s ² RMS/√ Hz			
Non-Linearity, Max [2]		0.5 % F.S		0.5 % F.S			
Sensitivity Change with Excitation Voltage (6-22 Volts)		0.3 %		0.3 %			
Cross Axis Sensitivity		< 3 %		< 3 %			
Zero Measurand Output		±50 mV		±50 mV			
ENVIRONMENTAL							
Maximum Mechanical Shock (0.1 ms)		2000 g pk		19620 m/s ² pk			
Bias Temperature Shift ,Max [3]		111 (ppm of span)/°F		200 (ppm of span)/°C			
Sensitivity Temperature Shift		277 ppm/°F		500 ppm/°C			
Operating Temperature Range		-40 to +248 °F		-40 to +120 °C			
Seal		Hermetic		Hermetic			
ELECTRICAL							
Output Common Mode Voltage ± VDC		[4]		[4]			
Output Impedance,Nom		1225 Ω		1225 Ω			
Operating Voltage [6]		±3 to ±11 VDC		±3 to ±11 VDC			
Operating Current, Max		13 mA DC		13 mA DC			
Change in Operating Current to Excitation Voltage		0.25 mA/V		0.25 mA/V			
Electrical Isolation (Case)		>100 MΩ		>100 MΩ			