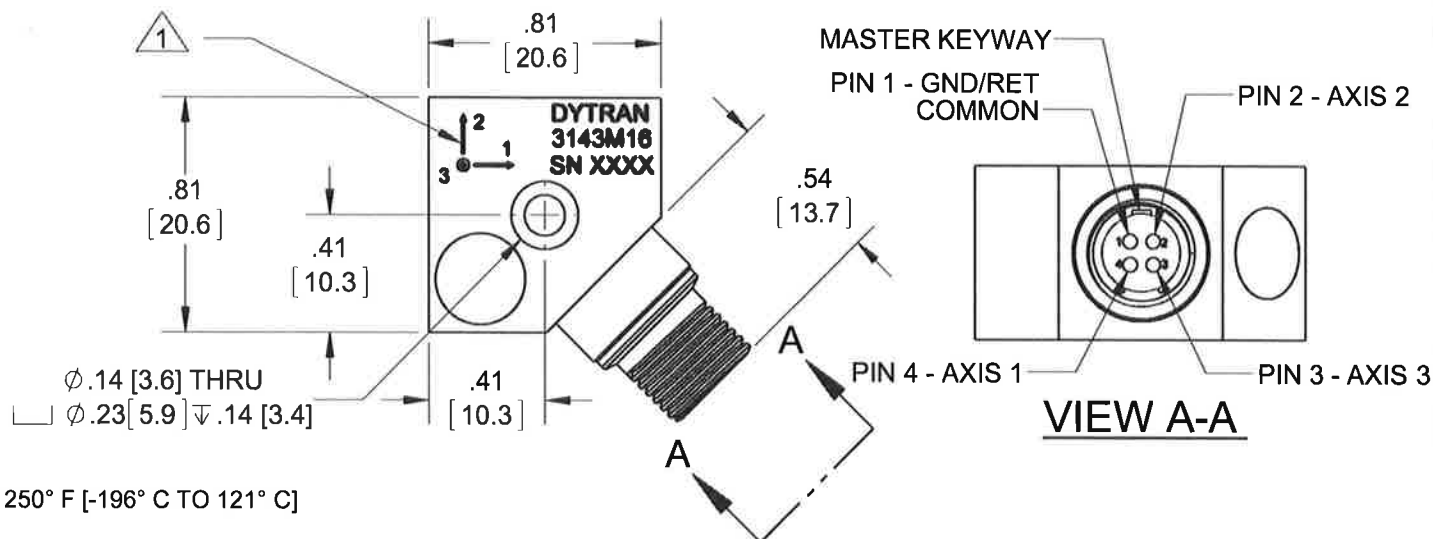
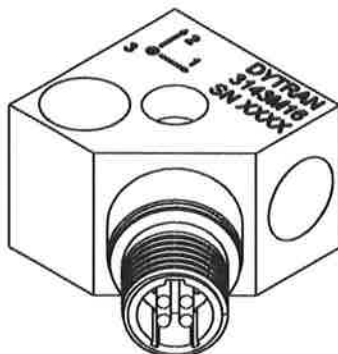


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9393	INITIAL RELEASE	LN 12/07/12	JS	AS
B	11050	SEE ECN	EC 06/06/14	JS	AS



8. OPERATING TEMPERATURE: -320° F TO 250° F [-196° C TO 121° C]

7. SENSITIVITY: 10mV/G

6. HOUSING AND CONNECTOR MATERIAL
300 SERIES STAINLESS STEEL

5. DELETED.

4. WEIGHT: 50 GRAMS, MAX.

3. MATING CONNECTOR GLENAIR
P/N 800-009-06M6-4SN.

2. 800-013-03Z16-4PN CONNECTOR GLASS TO METAL SEAL
1000 VOLTS GALVANIC ISOLATION FROM PIN 1
GND RETURN TO CASE.

1. ARROWS INDICATE DIRECTION OF ACCELERATION
FOR POSITIVE OUTPUT ON EACH AXIS

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.	
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
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:
INCHES METRIC ANGLES
.XX ± .03 .X ± 0.8 ± 1°
.XXX ± .010 .XX ± 0.25

MATERIAL
FINISH
DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	LN	11/08/12
CHK	JS	01/03/12
APP	AS	01/03/12
APP	JS	01/03/12

 MASTER ONLY IF IN RED		Chatsworth, CA
TITLE: OUTLINE/INSTALLATION DWG, TRIAxIAL ACCEL, CRYOGENIC, MODEL 3143M16		
SIZE A	CAGE CODE 2W033	DWG. NO. 127-3143M16
		REV B
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1

Model Number 3143M16		PERFORMANCE SPECIFICATIONS				DOC NO PS3143M16	
		IEPE TRIAXIAL ACCELEROMETER				REV C, ECN 14180, 04/27/18	
		<ul style="list-style-type: none">• HERMETICALLY SEALED• EXCELLENT LINEARITY• CRYOGENIC					
		ENGLISH		SI			
PHYSICAL							
Weight, Max.		1.75	oz	50	grams		
Connector [1]		4 - PIN		4 - PIN			
Mounting Provision		6-32 Mounting Screw		6-32 Mounting Screw			
Material, Housing/Connector		300 Series S.S.		300 Series S.S.			
Sensing Element		Quartz		Quartz			
Element Style		Planar Shear		Planar Shear			
PERFORMANCE							
Sensitivity, ±5% [2]		10	mV/g	1	mV/m/s ²		
Range for ± 5 Volts Output		±500	g peak	±4905	m/s ²		
Frequency Response, ±5%		1.6 to 5000	Hz	1.6 to 5000	Hz		
Resonant Frequency		> 25	kHz	> 25	kHz		
Broad Band Resolution [7]		0.007	g rms	0.07	m/s ² rms		
Linearity [2]		± 1	% F.S.	± 1	% F.S.		
Maximum Transverse sensitivity		6	%	6	%		
Strain Sensitivity @ 250µε		0.012	g/µε	0.12	m/s ² /µε		
ENVIRONMENTAL							
Maximum Vibration		600	g peak	5886	m/s ² peak		
Maximum Shock		3000	g peak	29430	m/s ² peak		
Operating Temperature Range		-320 to +250	°F	-196 to 121	°C		
Coefficient of Thermal Sensitivity		0.03	%/°F	0.05	%/°C		
Seal		HERMETIC		HERMETIC			
ELECTRICAL							
Supply Current Range [3]		2 to 20	mA	2 to 20	mA		
Compliance Voltage Range		+18 to +30	Volts	+18 to +30	Volts		
Output Impedence, Typ		100	Ω	100	Ω		
Bias Voltage		+7 to +9	VDC	+7 to +9	VDC		
Discharge Time Constant		0.3 to 1.0	Sec	0.3 to 1.0	Sec		
Electrical Isolation		10	GΩ,min	10	GΩ,min		