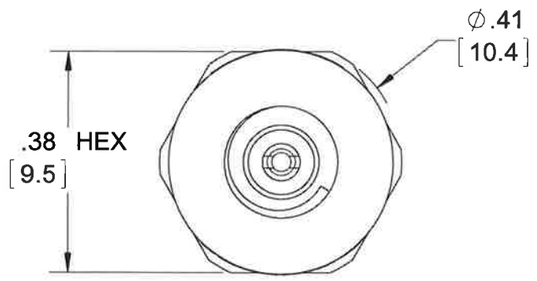
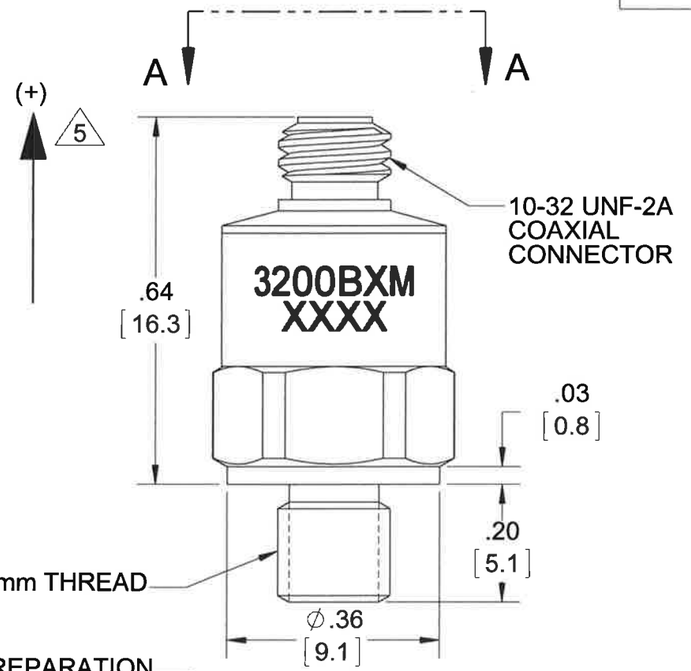
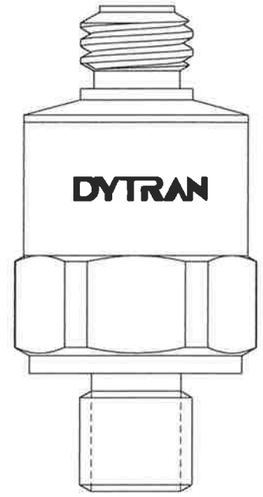
DWG NO 127-3200BM SH 1 REV A

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11055	INITIAL RELEASE	EC 08/05/14	JLS	



VIEW A-A





3200BM SERIES

5 ARROW INDICATES SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE - GOING OUTPUT SIGNAL

4 PREPARE FLAT SURFACE TO THIS DIA. WITH A FINISH OF 63 OR BETTER AND FLAT TO .001 TIR.

3 PREPARE MOUNTING SURFACE AS SHOWN. APPLY A LAYER OF SILICONE GREASE TO MOUNTING SURFACE. TORQUE IN PLACE WITH 50 LB-IN.

2. HOUSING MATERIAL: 17-4 PH STAINLESS STEEL

1. WEIGHT: 6 GRAMS MAX

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

APPROVALS		DATE
ORIG	EC	08/05/14
CHK	EC	08/05/14
APP		8/8/14

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: OUTLINE/INSTALLATION DRAWING, MODEL SERIES 3200BM (METRIC STUD)

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3200BM	A

SCALE: 4:1 SHEET 1 OF 1

172-0186 REV A

MODEL NUMBER	PERFORMANCE SPECIFICATION	DOC NO
3200B4M		PS3200B4M
	SINGLE AXIS ACCELEROMETER, IEPE	REV B, ECN 12864, 08/12/16

		ENGLISH		SI	
PHYSICAL					
Weight		0.21	oz	6.0	grams
Mounting Provision	Stud	M6 X 1.0		M6 X 1.0	
Connector	Type	Coaxial		Coaxial	
	Thread	10-32 UNF-2A		10-32 UNF-2A	
Material Body	Material	17-4 PH S.S.		17-4 PH S.S.	
	Isolation	Case isolated		Case isolated	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression	
PERFORMANCE					
Sensitivity +/- 10% [1]		0.5	mV/g	0.05	mV/ m/s^2
Maximum Range F.S.		10000	g	98000	m/s^2
Frequency Response, ± 5%		.50 to 10000	Hz	.50 to 10000	Hz
,± 10%		.35 to 20000	Hz	.35 to 20000	Hz
,± 3db		.16 to >50000	Hz	.16 to >50000	Hz
Mounted Resonant Frequency		> 90	kHz	> 90	kHz
Electrical Noise		0.14	Grms	1.4	m/s^2 rms
Linearity [2]		± 1%	%F.S	± 1%	%F.S
Transverse Sensitivity, Max.		3	%	3	%
ENVIRONMENTAL					
Maximum Shock (peak)		± 50000	G peak	± 490500	m/s^2 peak
Temperature Range		-60 to +250	°F	-51 to +121	°C
Seal		Epoxy		Epoxy	
ELECTRICAL					
Power Supply [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+18 to +30	V	+18 to +30	V
Output Impedance		100	Ω	100	Ω
Bias Voltage		+7.5 to +9.5	VDC	+7.5 to +9.5	VDC
Discharge Time Constant		1 to 1.5	sec	1 to 1.5	sec
Electrical Isolation [4]		10	GΩ	10	GΩ
Grounding		Case Isolated		Case Isolated	

This family also includes:

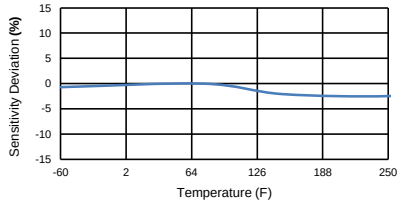
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (Sec)
3200BM	0.05	70000	1.4	-60 to +250	1.0 to 1.5
3200B2M	0.1	50000	0.7	-60 to +250	1.0 to 1.5
3200B3M	0.25	20000	0.28	-60 to +250	1.0 to 1.5
3200B5M	1.0	5000	0.07	-60 to +250	1.0 to 1.5
3200B6M	2.0	2500	0.035	-60 to +250	1.0 to 1.5

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

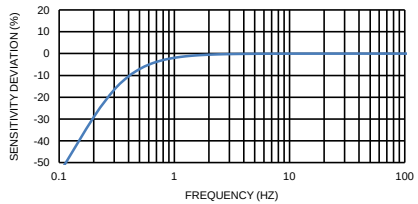
Supplied Accessories:
1) Accredited calibration certificate (ISO 17025)

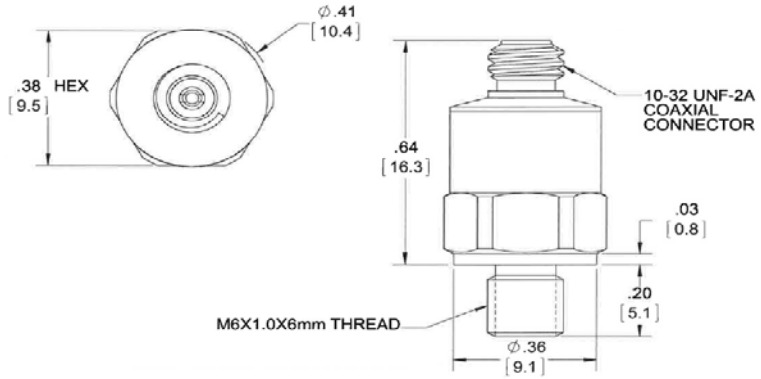
Notes:
[1] Measured at 100 Hz, 1 GRMS per ISA RP 37.2.
[2] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
[3] Do not apply power to this device without current limiting, 20 mA MAX.
To do so will destroy the integral IC amplifier.
[4] Case ground to mounting surface.

TYPICAL TEMPERATURE RESPONSE



TYPICAL LOW FREQUENCY RESPONSE





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3200BM for more information.

DYTRAN INSTRUMENTS, INC.
21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880
www.dytran.com For permission to reprint this content, please contact info@dytran.com