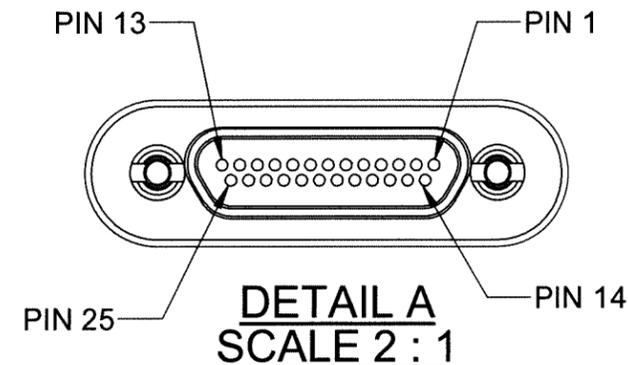
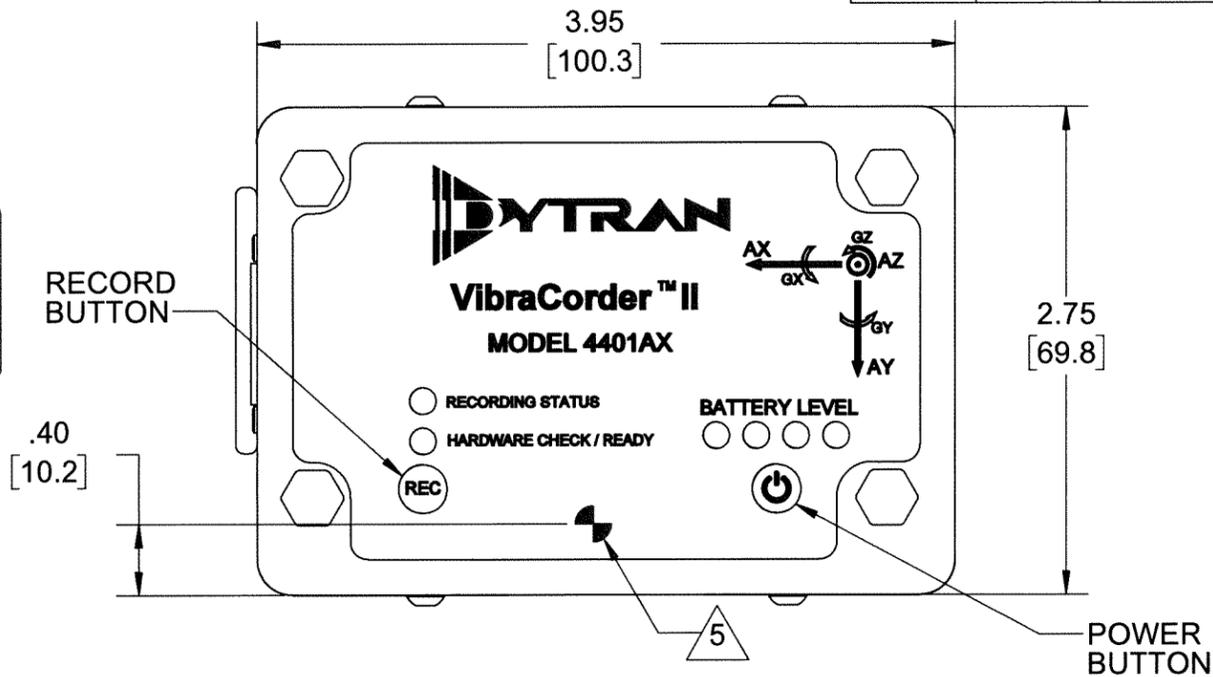
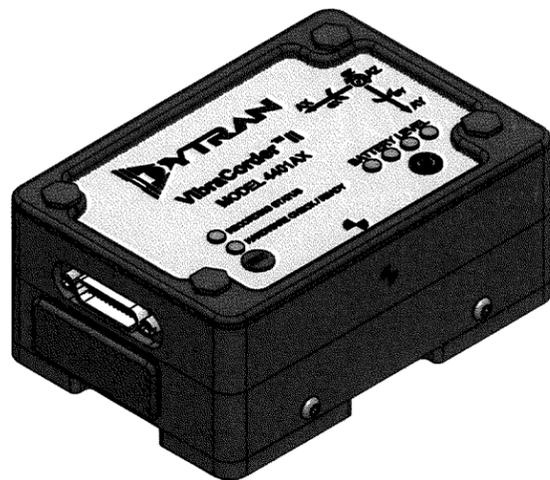


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MODEL	RANGE
4401A1	±5g
4401A2	±16g

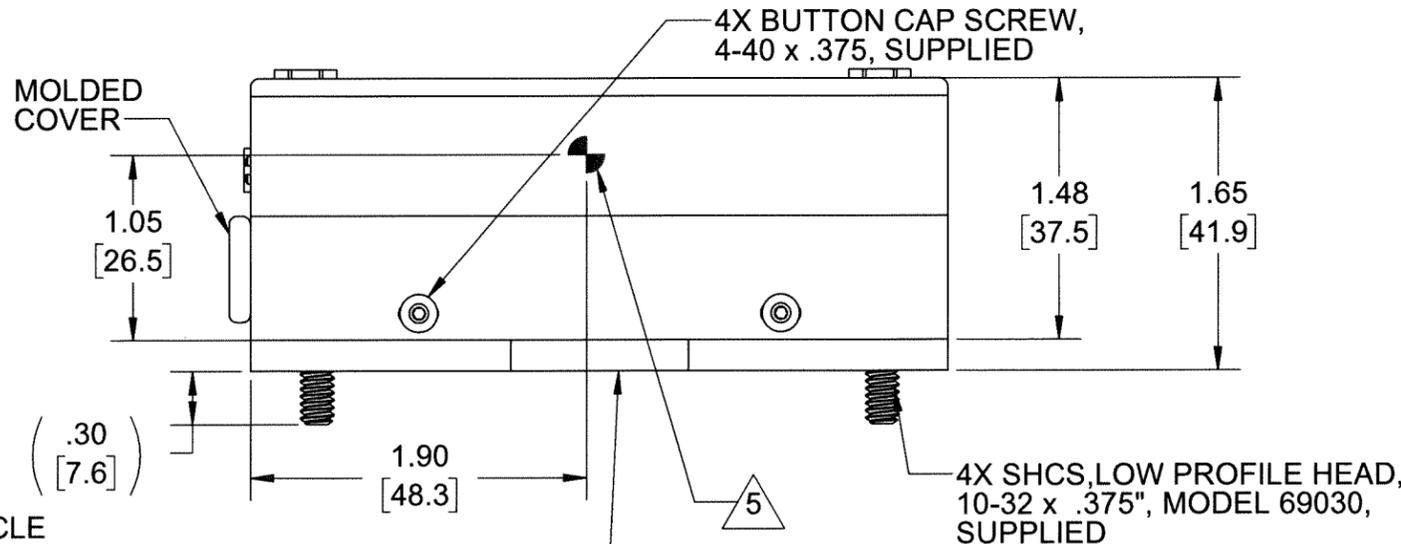
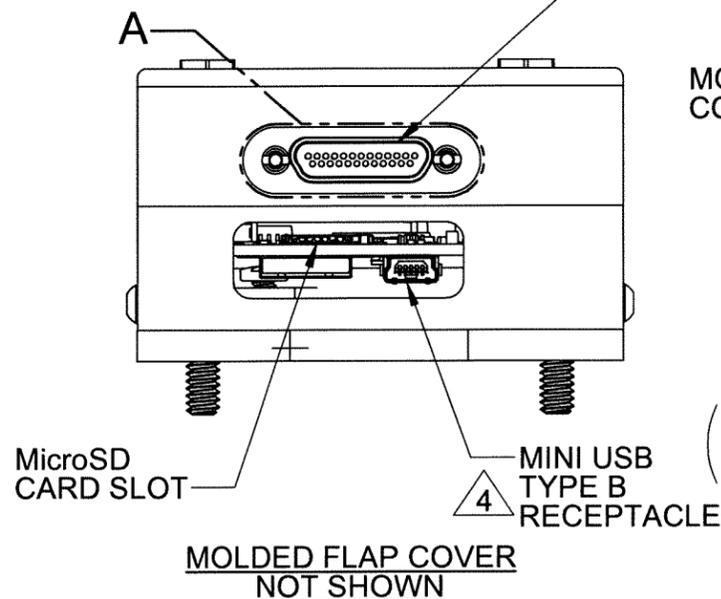
REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
E	14459	ADDED ACCEL LOCATIONS	RA, 09/06/18	DP	LN



PIN OUT

- PIN 1: PWR\_OUT (3.8VDC)
- PIN 2: RESERVED - DO NOT CONNECT
- PIN 3: RESERVED - DO NOT CONNECT
- PIN 4: PWR\_IN (8-32 VDC)
- PIN 5: SYNC
- PIN 6: PWR\_IN (8-32 VDC)
- PIN 7: AGND
- PIN 8: DGND
- PIN 9: AGND
- PIN 10: DGND
- PIN 11: AGND
- PIN 12: AGND
- PIN 13: RESERVED - DO NOT CONNECT
- PIN 14: RESERVED - DO NOT CONNECT
- PIN 15: RESERVED - DO NOT CONNECT
- PIN 16: RELAY\_OUT
- PIN 17: RELAY\_IN
- PIN 18: CABLE\_DETECT <sup>3</sup>
- PIN 19: AGND
- PIN 20: RESERVED - DO NOT CONNECT
- PIN 21: RESERVED - DO NOT CONNECT
- PIN 22: AGND
- PIN 23: RESERVED - DO NOT CONNECT
- PIN 24: RESERVED - DO NOT CONNECT
- PIN 25: RESERVED - DO NOT CONNECT

Micro-D RECEPTACLE, 25-SOCKET, GLENAIR P/N: GRPM2L-25SCBRR3TN-.110



- <sup>5</sup> LOCATION OF SENSING ELEMENT
- <sup>4</sup> USE CHARGING CABLE 60068A (SUPPLIED)
- <sup>3</sup> TIE TO DGND

- 2. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE. MOUNTING PLATE MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE.
- 1. TOTAL WEIGHT: 425 GRAMS, MAX. (INCLUDING MOUNTING PLATE AND MOUNTING HARDWARE)

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: <sup>63</sup>  
 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 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	06/05/16
CHK	DV	06/19/16
APP		

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

**MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION DWG, VIBRATION RECORDER, 4401A SERIES**

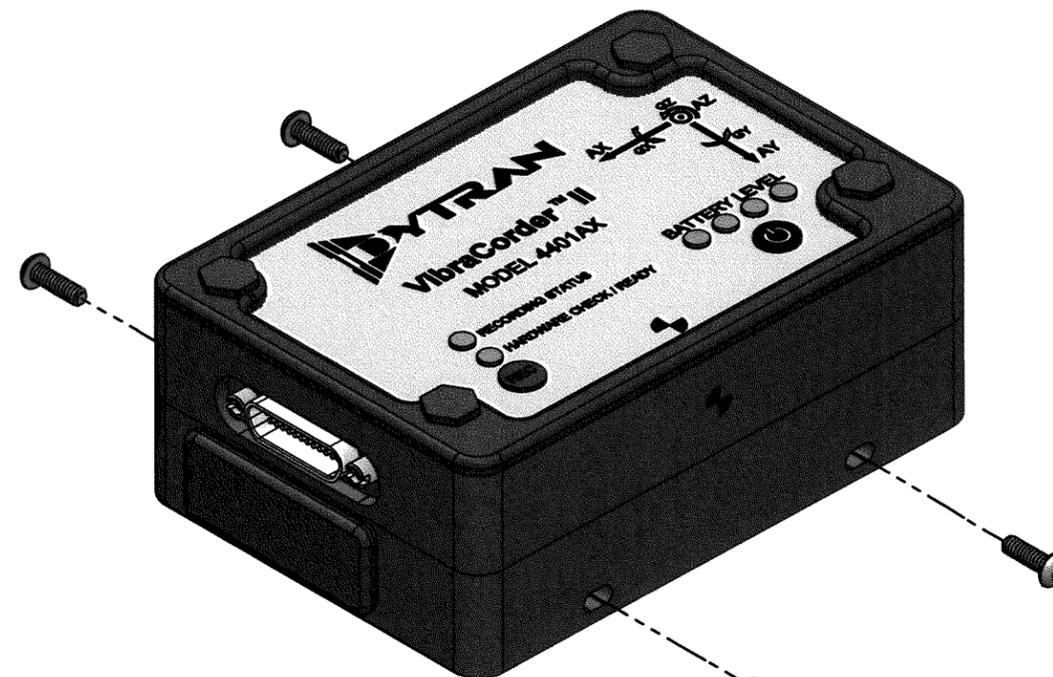
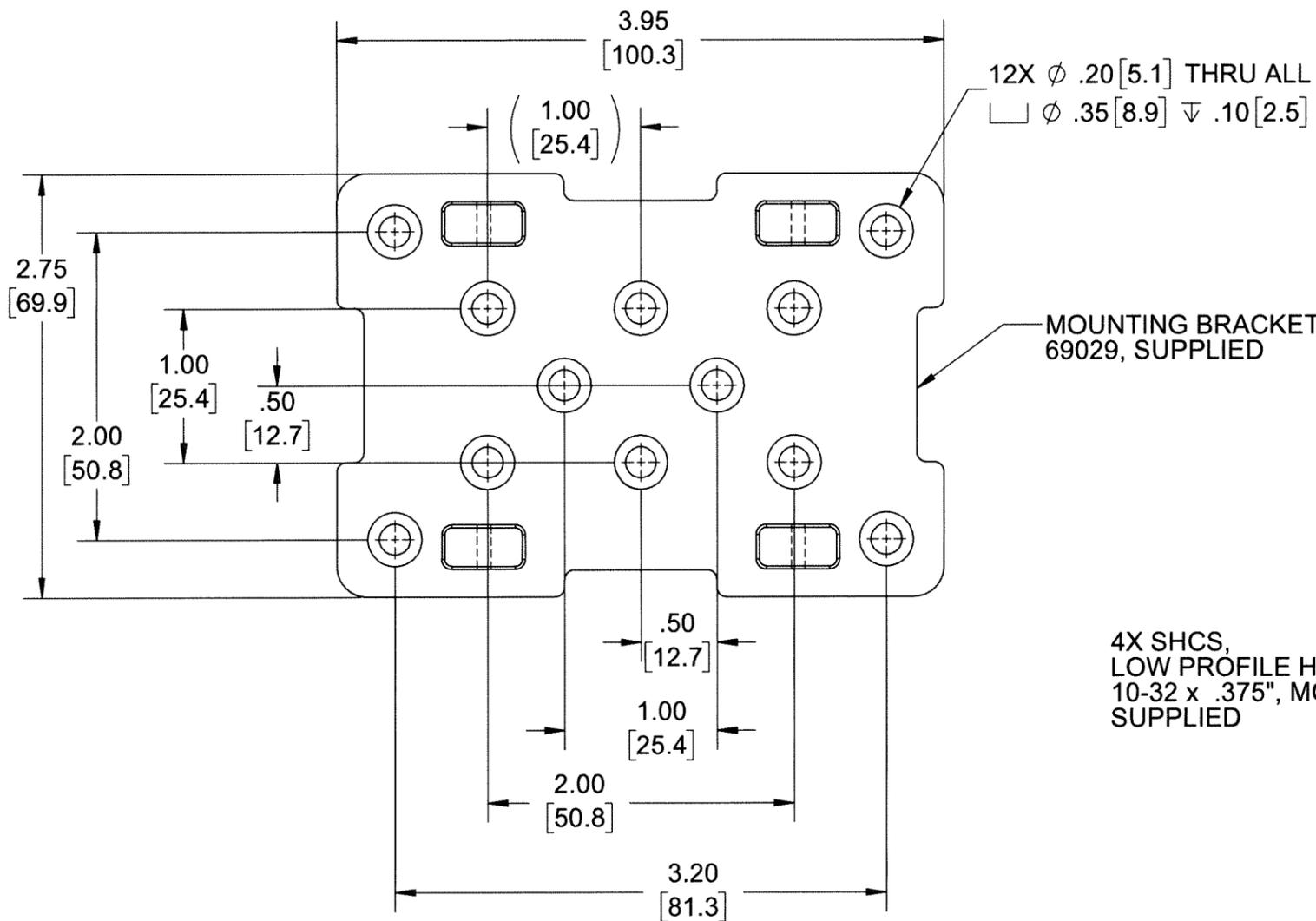
SIZE <b>B</b>	CAGE CODE <b>2W033</b>	DWG NO <b>127-4401A1</b>	REV <b>E</b>
SCALE: 1:1	PART NO: 4401A	SHEET 1 OF 2	

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D

D



C

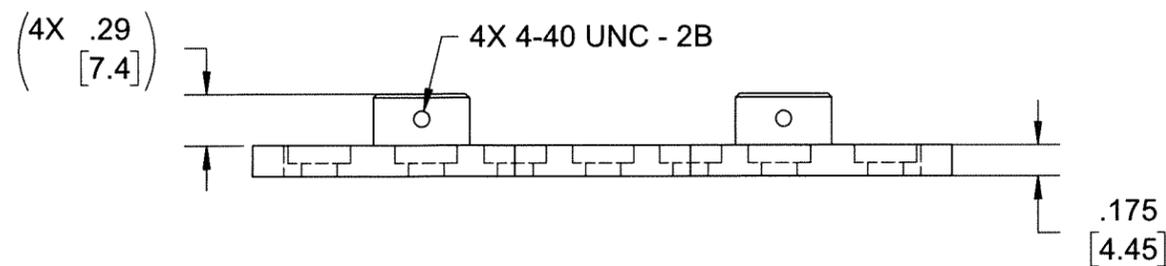
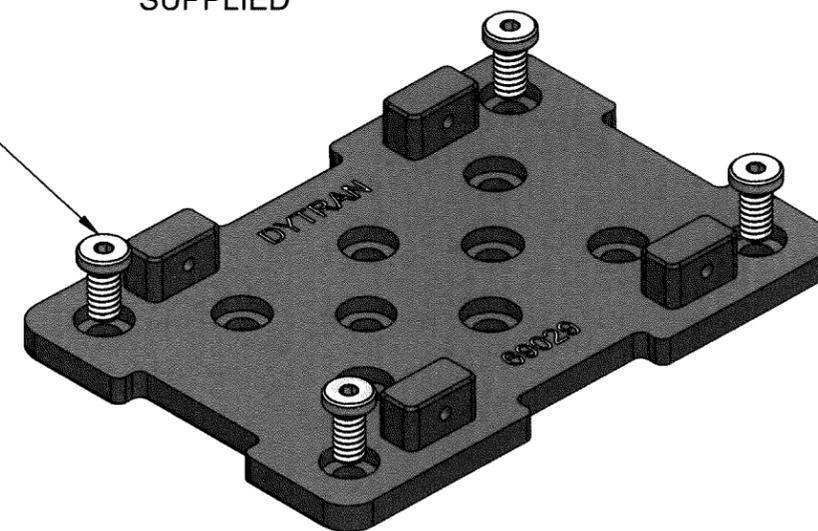
4X BUTTON CAP SCREW, 4-40 x .375, MODEL 69031, SUPPLIED

C

B

B

4X SHCS, LOW PROFILE HEAD, 10-32 x .375", MODEL 69030, SUPPLIED



A

A

<b>DYTRAN</b> INSTRUMENTS, INC. Chatsworth, CA		<b>MASTER</b> ONLY IF IN RED	
TITLE: OUTLINE/INSTALLATION DWG, VIBRATION RECORDER, 4401A SERIES			
SIZE <b>B</b>	CAGE CODE 2W033	DWG NO 127-4401A1	REV <b>E</b>
SCALE: 1:1		PART NO: 4401A	SHEET 2 OF 2

<b>MODEL NUMBER</b> <b>4401A1</b>	<b>PERFORMANCE SPECIFICATIONS</b>	<b>DOC NO.</b> <b>PS4401A1</b>
	<b>DATA RECORDER, MULTI-AXIS</b>	REV B, ECN 15098, 05/29/19



- RECORDS MULTIPLE DATA CHANNELS FOR SEVERAL DAYS
- MicroSDHC CARD COMPATIBLE
- OPTION FOR EXTERNAL POWER
- SOFTWARE TRIGGERED RELAY

**PHYSICAL**

	ENGLISH		SI	
Weight, Max.	15.8	oz	450	grams
Mounting	4x 10-32 Screws		4x 10-32 Screws	
Housing	Aluminum, Anodized	Material	Aluminum, Anodized	

**INTERNAL SENSOR PERFORMANCE**

	ENGLISH		SI	
Acceleration Range (X, Y, Z Directions) ±5%	±5	Gpeak	±49.05	m/s <sup>2</sup> peak
Frequency Range (Acceleration), -3dB	0 to 1200	Hz	0 to 1200	Hz
Angular Rate Range (X, Y, Z Directions) ±10%	±1000	°/sec	±1000	°/sec
Frequency Range (Gyro), -3dB	0-140	Hz	0-140	Hz
Transverse Sensitivity, Max	5	%	5	%
Noise, Accelerometers.	0.08	Grms	0.78	m/s <sup>2</sup> rms

**RELAY**

	ENGLISH		SI	
Max switching voltage	200	VDC	200	VDC
Maximum current	0.5	A	0.5	A
Insulation resistance	>10	GΩ	>10	GΩ
Contact resistance	100	mΩ	100	mΩ
Rated power	10	W	10	W
Max operation time	0.5	msec.	0.5	msec

**ENVIRONMENTAL SPECIFICATIONS**

	ENGLISH		SI	
Operating temperature, Discharging	-4 to +131	°F	-20 to +55	°C
Operating temperature, Charging	32 to +104	°F	0 to +40	°C
Seal	IP65		IP65	
Max vibration	200	g	1962	m/s <sup>2</sup>
Max shock	500	g	4905	m/s <sup>2</sup>

**POWER SPECIFICATIONS**

	ENGLISH		SI	
Battery, Capacity	LiPo, 2000mAh		LiPo, 2000mAh	
External power	8 - 32	VDC	8 - 32	VDC
USB power	5	VDC	5	VDC
Charge Time	8	hours	8	hours
Charge current	250	mA	250	mA
Charge indicator	Yes		Yes	

Model	Internal Accelerometers Range (Gpeak)	Noise (Grms)
4401A2	±16	0.025

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

**DATA CONVERSION**

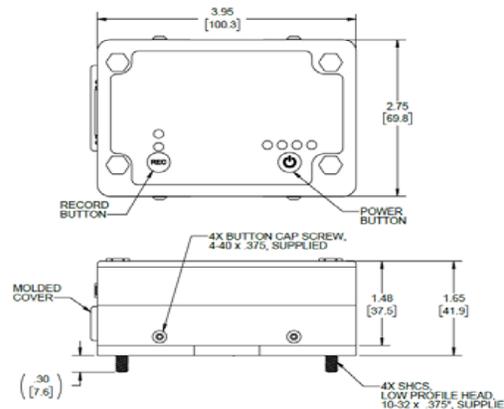
Sampling rates	250, 1200, 4280	Samples/sec
Resolution	14	bit
Synchronization	See notes	

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting plate, Qty. 1
- 3) Mounting Screws, 10-32 x .375, Qty. 4
- 4) 60068A - Charging cable, 3 ft.

**Notes:**

- [1] All internal channels are synchronized between each other. All external channels are synchronized between each other.
- [2] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4401A1 for more information.



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