

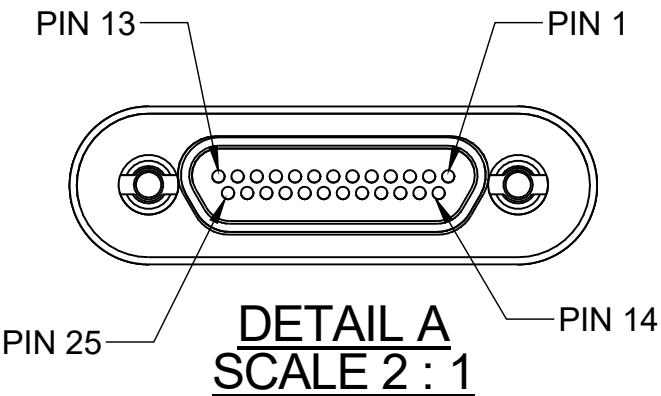
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MODEL	RANGE
4401A1	±5g
4401A2	±16g

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
G	16782	REMOVED CENTER OF MASS MARKINGS DELETED FLAG NOTE 5	AS 08/05/22	JB	DV



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 ³
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

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	06/05/16
CHK	DV	06/19/16
APP		

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA



Chatsworth, CA

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

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-4401A1	G
SCALE: 1:1		PART NO: 4401A	SHEET 1 OF 2

- ⁶ INSTALL MOLDED COVER FOR IP65 SEAL.
- ⁵ DELETED
- ⁴ USE CHARGING CABLE 60068A (SUPPLIED)
- ³ 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

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D

D

C

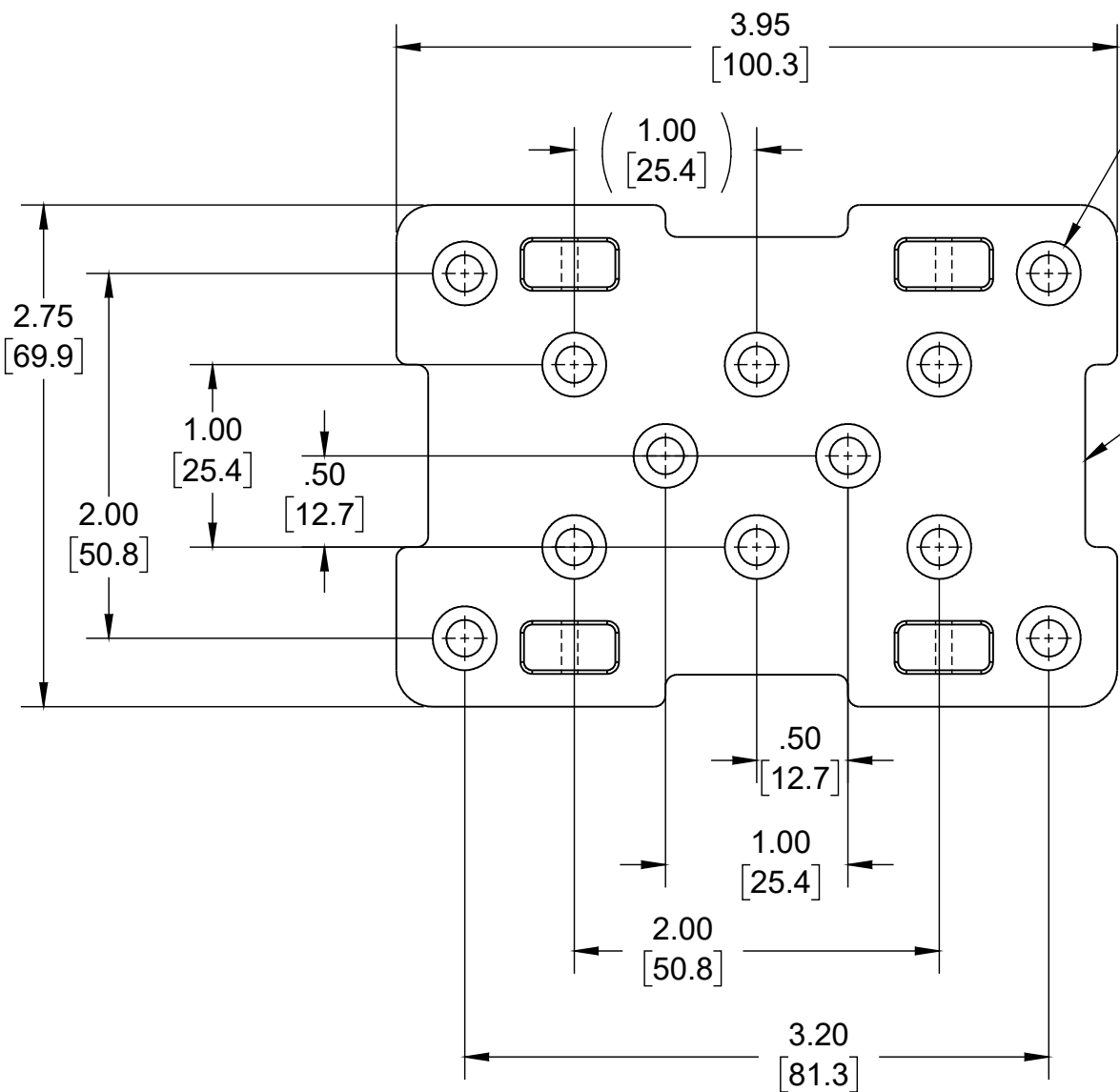
C

B

B

A

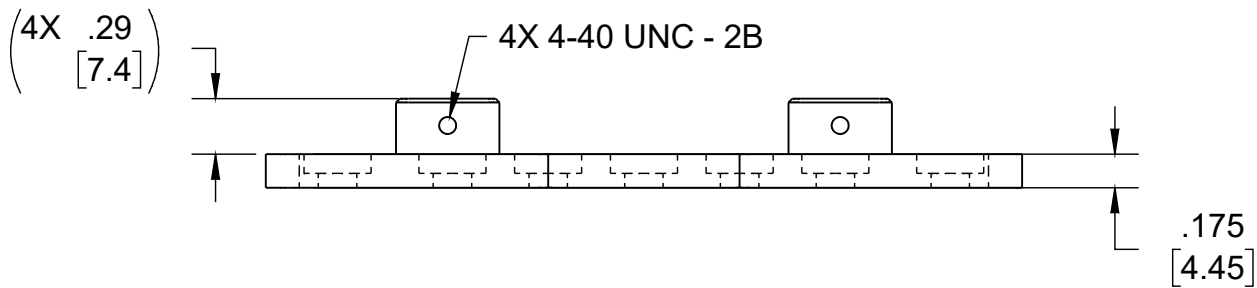
A



12X ϕ .20 [5.1] THRU ALL
 \square ϕ .35 [8.9] ∇ .10 [2.5]

MOUNTING BRACKET,
69029, SUPPLIED

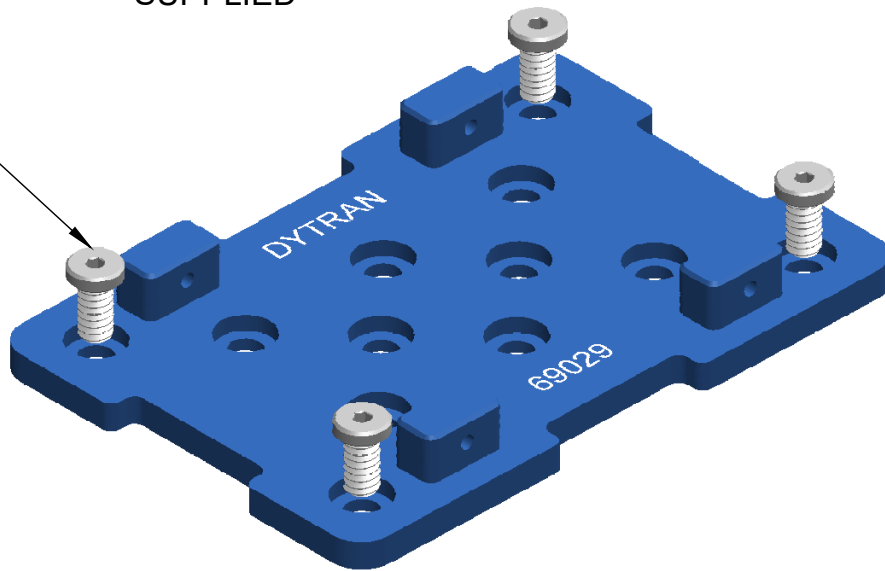
4X SHCS,
LOW PROFILE HEAD,
10-32 x .375", MODEL 69030,
SUPPLIED




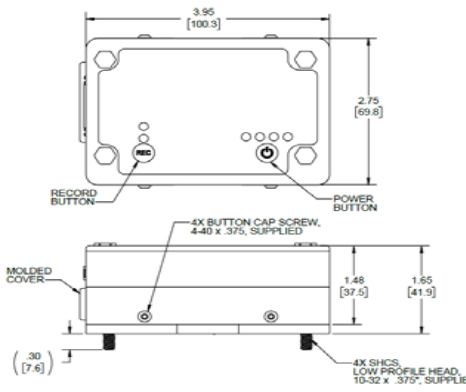

4X 4-40 UNC - 2B



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



 Chatsworth, CA			
TITLE: OUTLINE/INSTALLATION DWG, VIBRATION RECORDER, 4401A SERIES			
SIZE B	CAGE CODE 2W033	DWG NO 127-4401A1	REV G
SCALE: 1:1	PART NO: 4401A	SHEET 2 OF 2	

MODEL NUMBER 4401A1		PERFORMANCE SPECIFICATIONS				DOC NO. PS4401A1																									
		DATA RECORDER, MULTI-AXIS			REV C, ECN 16655, 03/08/22																										
		<ul style="list-style-type: none">RECORDS MULTIPLE DATA CHANNELS FOR SEVERAL DAYSMICROSDHC CARD COMPATIBLEOPTION FOR EXTERNAL POWERSOFTWARE TRIGGERED RELAY				<div>This family also includes:</div> <table><tr><th>Model</th><th>Internal Accelerometers Range (g pk)</th><th>Noise (g RMS)</th></tr><tr><td>4401A2</td><td>±16</td><td>0.025</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> <p>Refer to the performance specifications of the products in this family for detailed description</p>		Model	Internal Accelerometers Range (g pk)	Noise (g RMS)	4401A2	±16	0.025																		
Model	Internal Accelerometers Range (g pk)	Noise (g RMS)																													
4401A2	±16	0.025																													
PHYSICAL Weight, Max. Mounting Housing		<table><tr><th>ENGLISH</th><th></th><th>SI</th><th></th></tr><tr><td>15.8</td><td>oz</td><td>450</td><td>grams</td></tr><tr><td>4x 10-32 Screws</td><td></td><td>4x 10-32 Screws</td><td></td></tr><tr><td>Aluminum, Anodized</td><td></td><td>Aluminum, Anodized</td><td></td></tr></table>		ENGLISH		SI		15.8	oz	450	grams	4x 10-32 Screws		4x 10-32 Screws		Aluminum, Anodized		Aluminum, Anodized		DATA CONVERSION Sampling rates Resolution Synchronization		<table><tr><td>250, 1200, 4280</td><td>Samples/sec</td></tr><tr><td>14</td><td>bit</td></tr><tr><td>See notes</td><td></td></tr></table>		250, 1200, 4280	Samples/sec	14	bit	See notes			
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INTERNAL SENSOR PERFORMANCE Acceleration Range (X, Y, Z Directions) ±5% Frequency Range (Acceleration), -3dB Angular Rate Range (X, Y, Z Directions) ±10% Frequency Range (Gyro), -3dB Transverse Sensitivity, Max Noise, Accelerometers.		<table><tr><td>±5</td><td>g pk</td><td>±49.05</td><td>m/s² pk</td></tr><tr><td>0 to 1200</td><td>Hz</td><td>0 to 1200</td><td>Hz</td></tr><tr><td>±1000</td><td>°/sec</td><td>±1000</td><td>°/sec</td></tr><tr><td>0-140</td><td>Hz</td><td>0-140</td><td>Hz</td></tr><tr><td>5</td><td>%</td><td>5</td><td>%</td></tr><tr><td>0.08</td><td>g RMS</td><td>0.78</td><td>m/s² RMS</td></tr></table>		±5	g pk	±49.05	m/s ² pk	0 to 1200	Hz	0 to 1200	Hz	±1000	°/sec	±1000	°/sec	0-140	Hz	0-140	Hz	5	%	5	%	0.08	g RMS	0.78	m/s ² RMS	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. [3] Install molded cover to maintain IP65 seal.	
±5	g pk	±49.05	m/s ² pk																												
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5	%	5	%																												
0.08	g RMS	0.78	m/s ² RMS																												
RELAY Max switching voltage Maximum current Insulation resistance Contact resistance Rated power Max operation time		<table><tr><td>200</td><td>VDC</td><td>200</td><td>VDC</td></tr><tr><td>0.5</td><td>A</td><td>0.5</td><td>A</td></tr><tr><td>>10</td><td>GΩ</td><td>>10</td><td>GΩ</td></tr><tr><td>100</td><td>mΩ</td><td>100</td><td>mΩ</td></tr><tr><td>10</td><td>W</td><td>10</td><td>W</td></tr><tr><td>0.5</td><td>msec.</td><td>0.5</td><td>msec</td></tr></table>		200	VDC	200	VDC	0.5	A	0.5	A	>10	GΩ	>10	GΩ	100	mΩ	100	mΩ	10	W	10	W	0.5	msec.	0.5	msec				
200	VDC	200	VDC																												
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>10	GΩ	>10	GΩ																												
100	mΩ	100	mΩ																												
10	W	10	W																												
0.5	msec.	0.5	msec																												
ENVIRONMENTAL SPECIFICATIONS Operating temperature, Discharging Operating temperature, Charging Seal [3] Max shock		<table><tr><td>-4 to +131</td><td>°F</td><td>-20 to +55</td><td>°C</td></tr><tr><td>32 to +104</td><td>°F</td><td>0 to +40</td><td>°C</td></tr><tr><td>IP65</td><td></td><td>IP65</td><td></td></tr><tr><td>500</td><td>g pk</td><td>4905</td><td>m/s² pk</td></tr></table>		-4 to +131	°F	-20 to +55	°C	32 to +104	°F	0 to +40	°C	IP65		IP65		500	g pk	4905	m/s ² pk												
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500	g pk	4905	m/s ² pk																												
POWER SPECIFICATIONS Battery, Capacity External power USB power Charge Time Charge current Charge indicator		<table><tr><td>LiPo, 2000mAh</td><td></td><td>LiPo, 2000mAh</td><td></td></tr><tr><td>8 - 32</td><td>VDC</td><td>8 - 32</td><td>VDC</td></tr><tr><td>5</td><td>VDC</td><td>5</td><td>VDC</td></tr><tr><td>8</td><td>hours</td><td>8</td><td>hours</td></tr><tr><td>250</td><td>mA</td><td>250</td><td>mA</td></tr><tr><td>Yes</td><td></td><td>Yes</td><td></td></tr></table>		LiPo, 2000mAh		LiPo, 2000mAh		8 - 32	VDC	8 - 32	VDC	5	VDC	5	VDC	8	hours	8	hours	250	mA	250	mA	Yes		Yes				Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4401A1 for more information.	
LiPo, 2000mAh		LiPo, 2000mAh																													
8 - 32	VDC	8 - 32	VDC																												
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Yes		Yes																													
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