

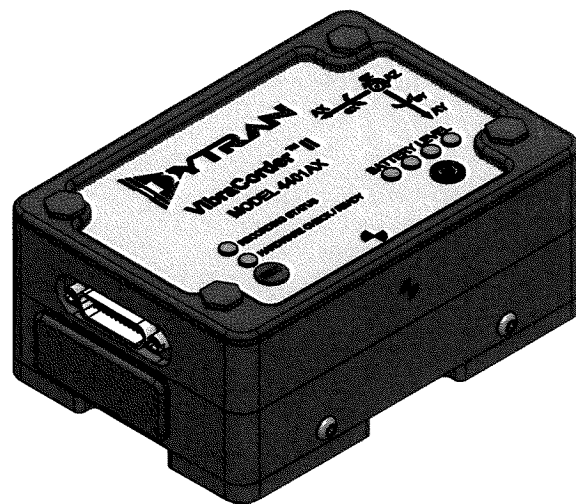
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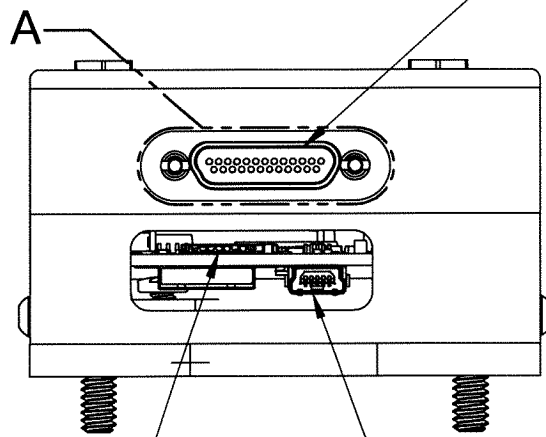
MODEL	RANGE
4401A1	±5g
4401A2	±16g

REVISIONS

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



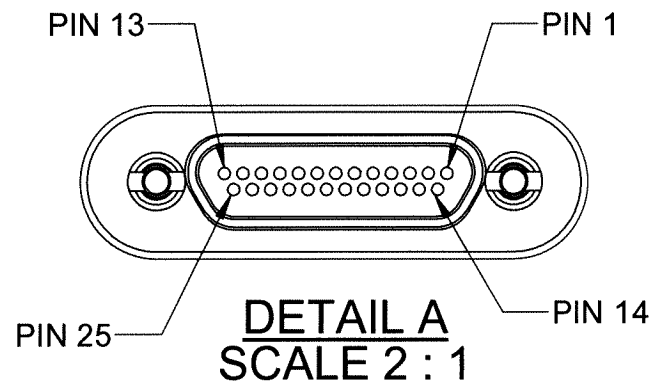
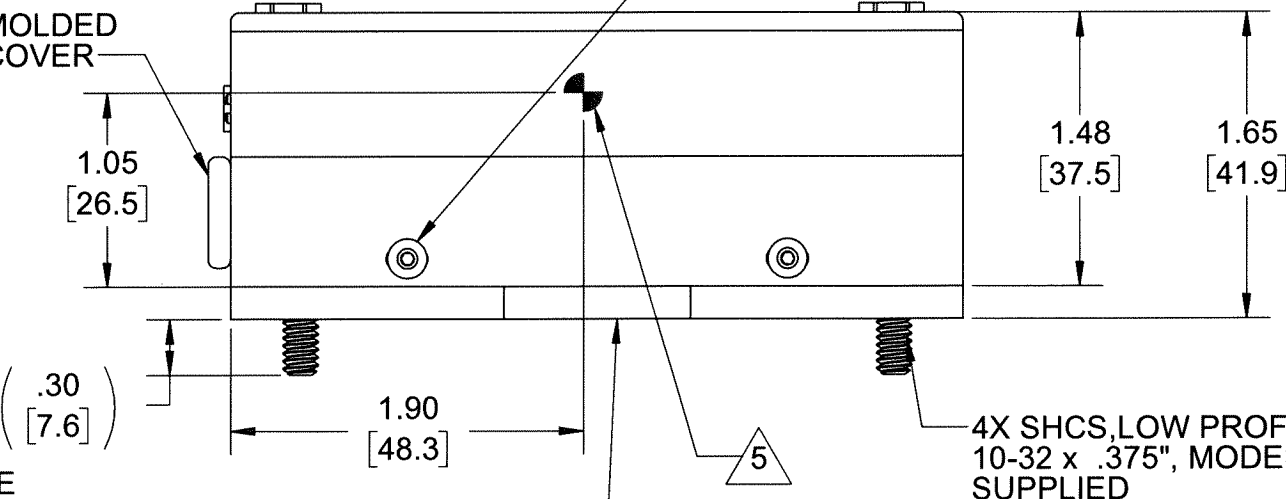
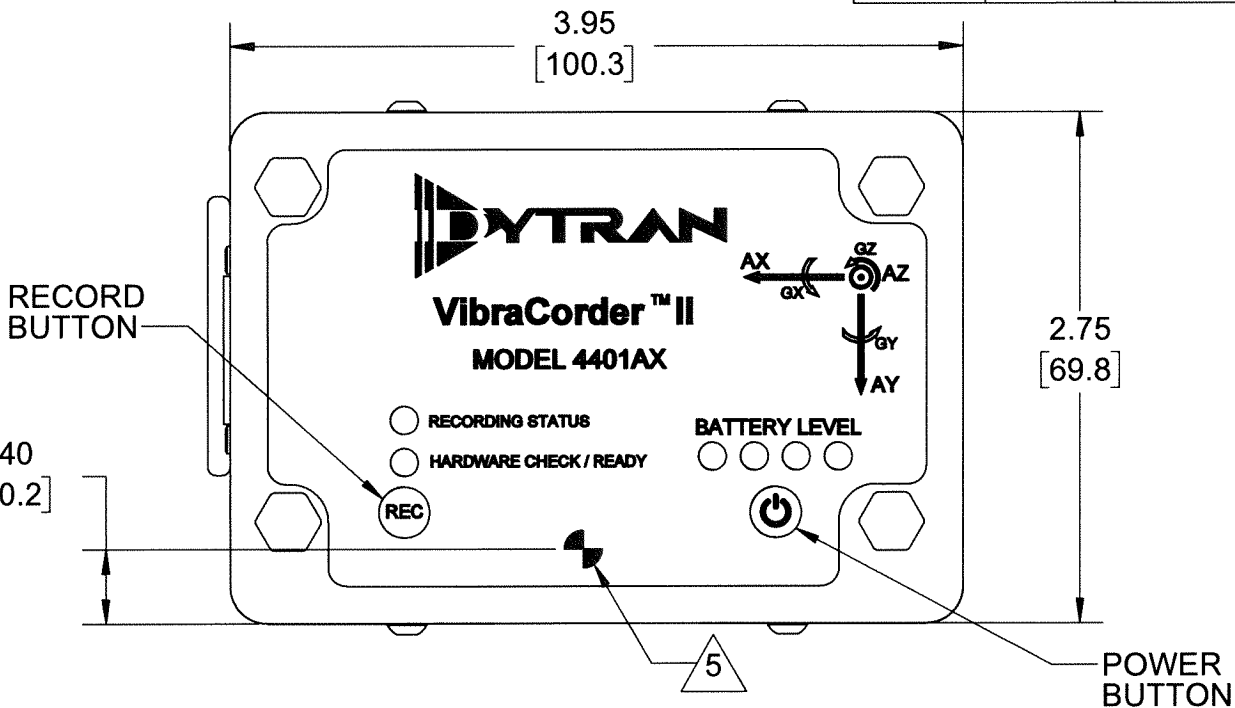
Micro-D RECEPTACLE,
25-SOCKET,
GLENAIR P/N:
GRPM2L-25SCBRR3TN-.110



MicroSD
CARD SLOT

MINI USB
TYPE B
RECEPTACLE

MOLDED FLAP COVER
NOT SHOWN



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 $\triangle 3$
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.

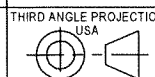
ALL MACHINED SURFACES. $\checkmark$
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

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



MASTER
ONLY IF IN RED

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

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

$\triangle 5$ LOCATION OF SENSING ELEMENT

$\triangle 4$ USE CHARGING CABLE 60068A (SUPPLIED)

$\triangle 3$ TIE TO DGND

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

NOTES: UNLESS OTHERWISE SPECIFIED

4

3

DWG NO

127-4401A1

SH 2

REV E

2

1

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D

D

C

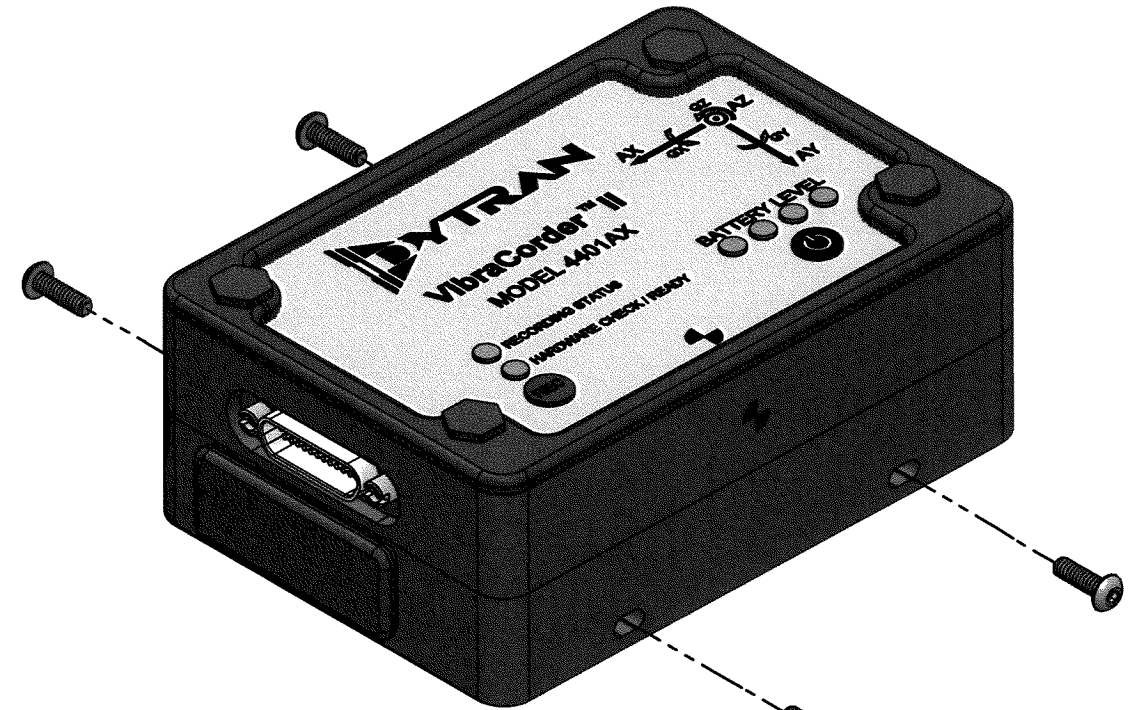
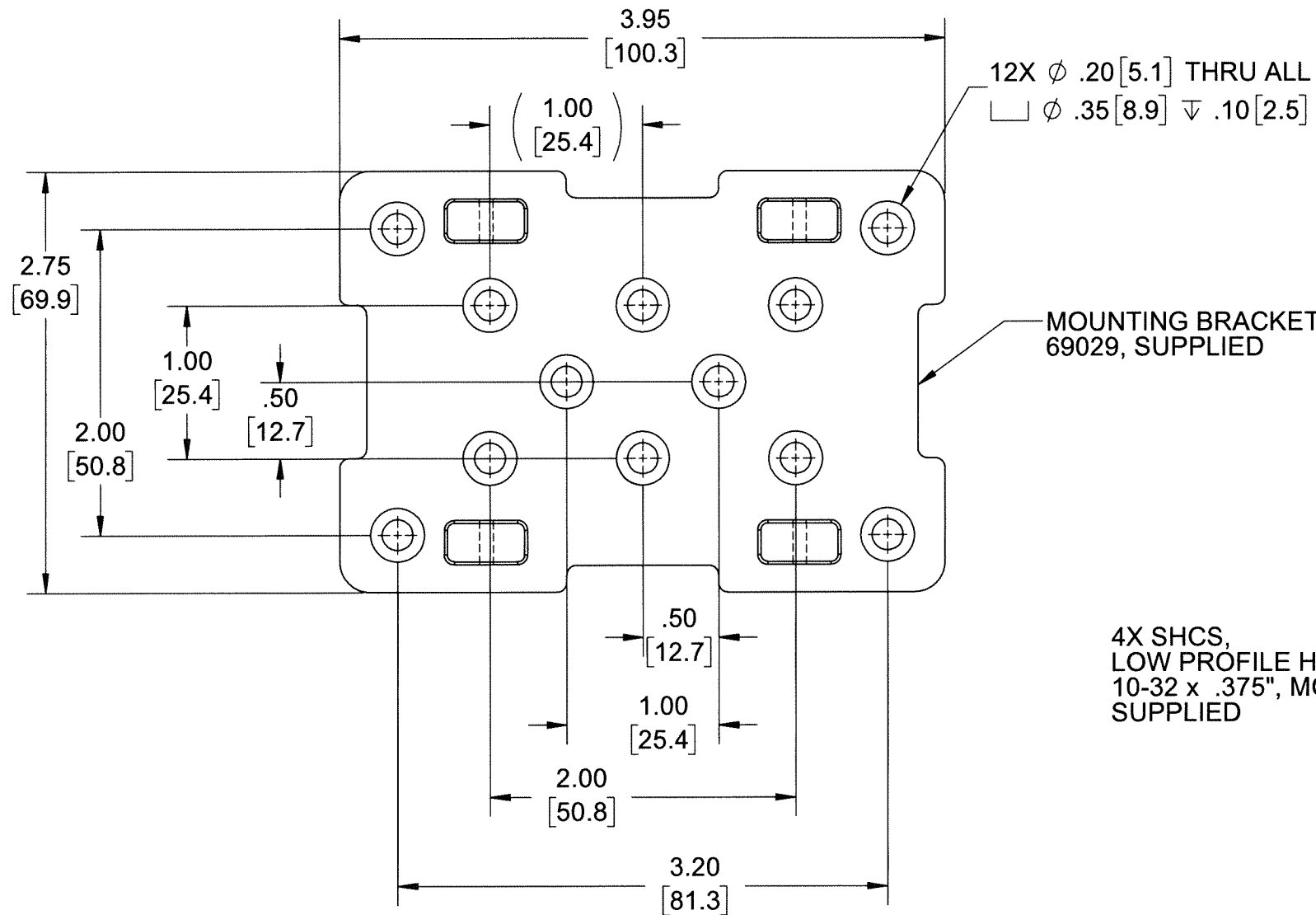
C

B

B

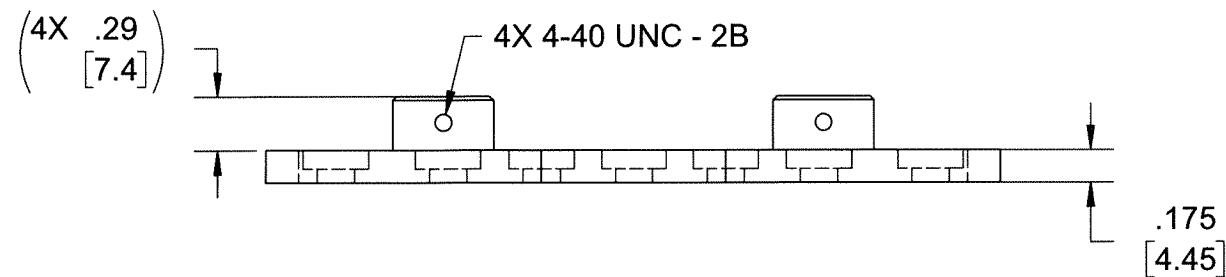
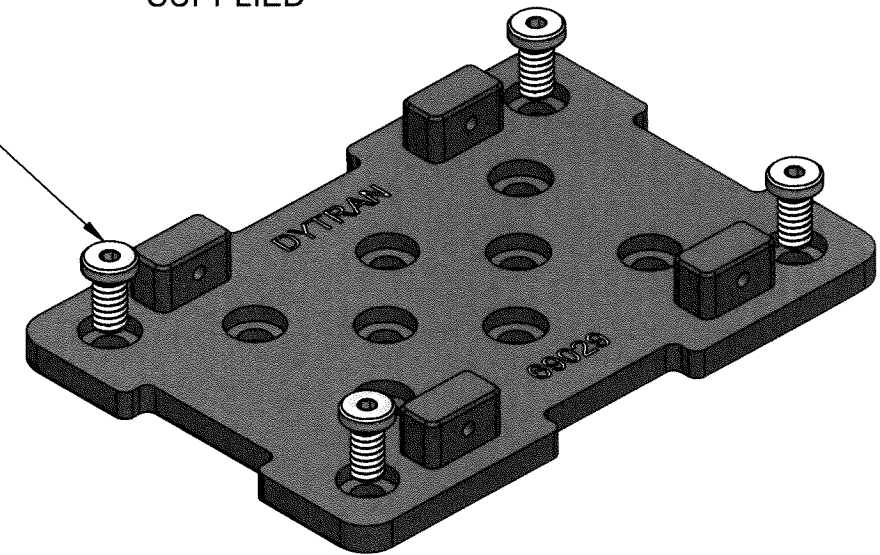
A

A



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

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



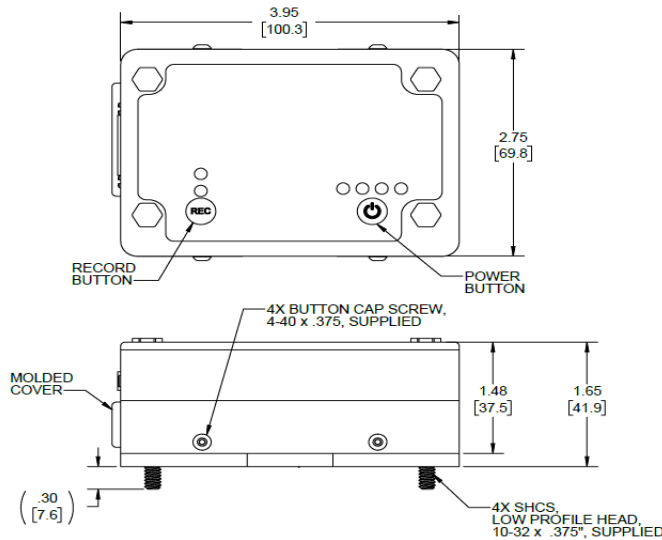
 DYTRAN INSTRUMENTS, INC.		Chatsworth, CA	MASTER ONLY IF IN RED	
TITLE: OUTLINE/INSTALLATION DWG, VIBRATION RECORDER, 4401A SERIES				
SIZE B	CAGE CODE 2W033	DWG NO 127-4401A1	REV E	
SCALE: 1:1		PART NO: 4401A	SHEET 2 OF 2	

4

3

2

1

MODEL NUMBER 4401A2		PERFORMANCE SPECIFICATIONS				DOC NO. PS4401A2							
		DATA RECORDER, MULTI-AXIS				REV E, ECN 14896, 02/14/19							
		• RECORDS MULTIPLE DATA CHANNELS FOR SEVERAL DAYS • MicroSDHC CARD COMPATIBLE • OPTION FOR EXTERNAL POWER • SOFTWARE TRIGGERED RELAY				Model	Internal Accelerometers Range (Gpeak)	Noise (Grms)					
						4401A1	±5	.08					
		Refer to the performance specifications of the products in this family for detailed description											
PHYSICAL Weight, Max. Mounting Housing Material		ENGLISH		SI		DATA CONVERSION Sampling rates Resolution Synchronization		250, 1200, 4280		Samples/sec bit			
		15.8 oz		450 grams				14					
		4x 10-32 Screws		4x 10-32 Screws				See notes					
		Aluminum, Anodized		Aluminum, Anodized									
INTERNAL SENSOR PERFORMANCE Acceleration Range (X, Y, Z Directions) Frequency Range (Acceleration), -3dB Angular Rate Range (X, Y, Z Directions) Frequency Range (Gyro), -3dB Transverse Sensitivity, Max Noise, Accelerometers.		±16 Gpeak		±157 m/s ² peak		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.							
		0 to 1200 Hz		0 to 1200 Hz									
		±1000 °/sec		±1000 °/sec									
		0-140 Hz		0-140 Hz									
		5 %		5 %									
		0.025 Grms		0.25 m/s ² rms									
RELAY Max switching voltage Maximum current Insulation resistance Contact resistance Rated power Max operation time		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									
ENVIRONMENTAL SPECIFICATIONS Operating temperature, Discharging Operating temperature, Charging Seal Max vibration Max shock		-4 to +131 °F		-20 to +55 °C									
		32 to +104 °F		0 to +40 °C									
		IP65		IP65									
		200 g		1962 m/s ²									
		500 g		4905 m/s ²									
POWER SPECIFICATIONS Battery, Capacity External power USB power Charge Time Charge current Charge indicator		LiPo, 2000mAh		LiPo, 2000mAh									
		8 - 32 VDC		8 - 32 VDC									
		5 VDC		5 VDC									
		8 hours		8 hours									
		250 mA		250 mA									
		Yes		Yes									



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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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