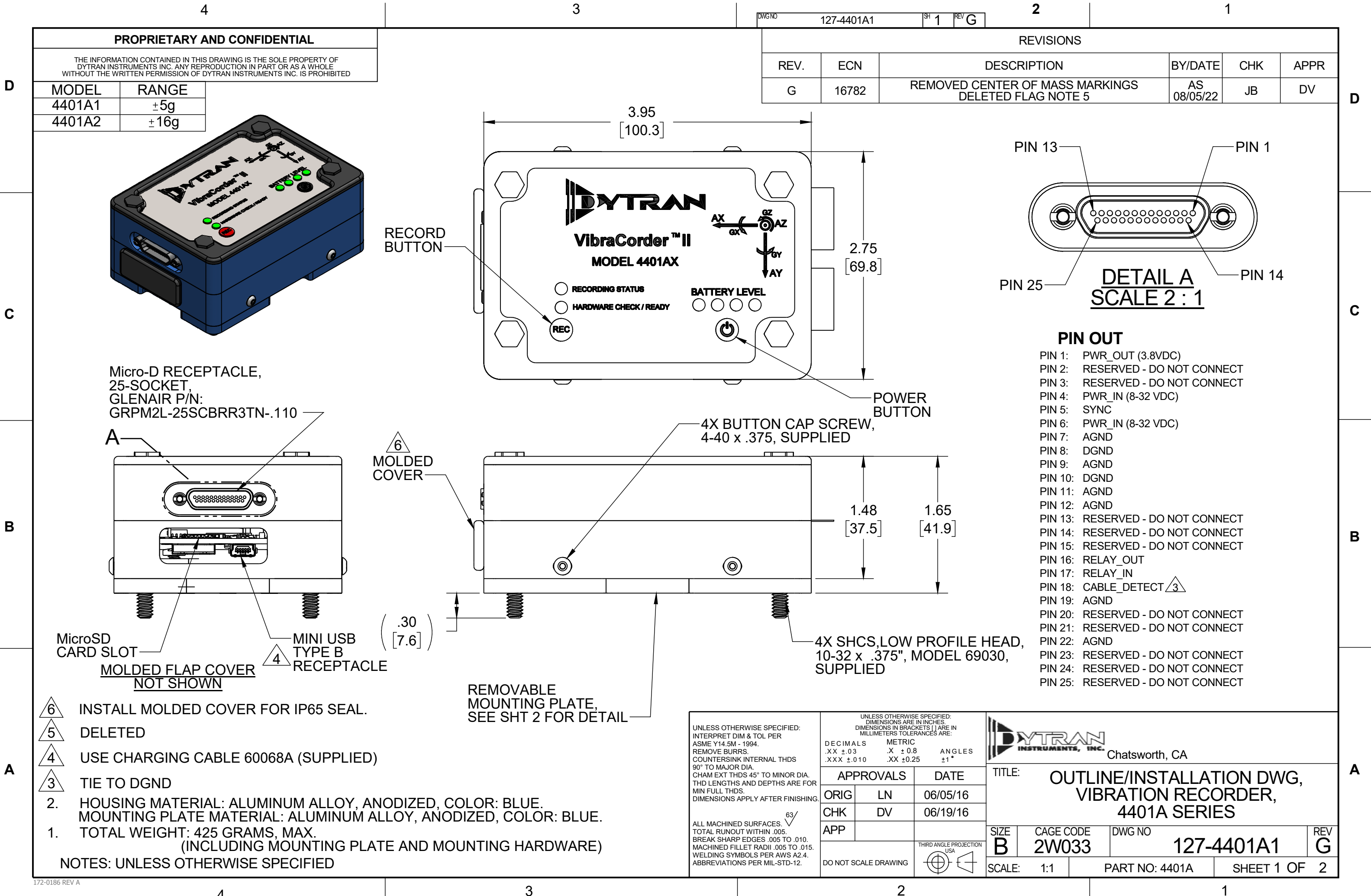




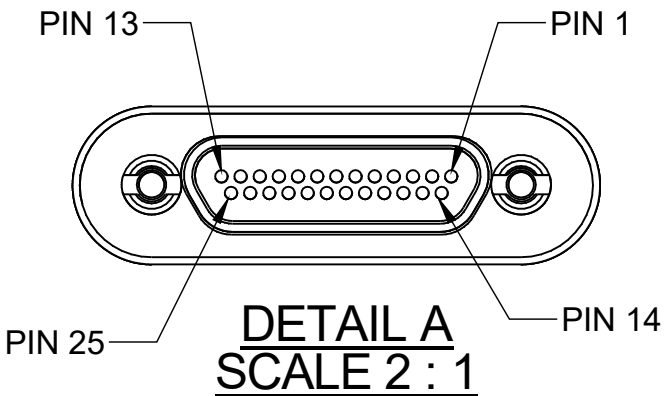
PROPRIETARY AND CONFIDENTIAL

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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

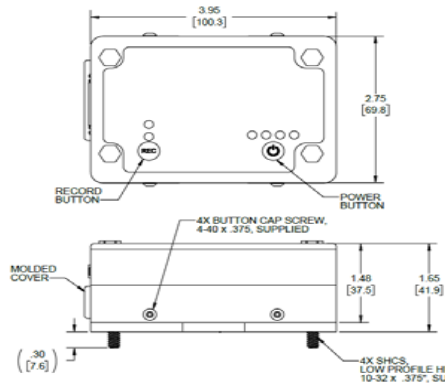
UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER
ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS
90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR
MIN FULL THDS.
DIMENSIONS APPLY AFTER FINISHING.

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 ±.08	±1°
.XXX ±.010	.XX ±.025	
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 B	CAGE CODE 2W033	DWG NO 127-4401A1	REV C
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

MODEL NUMBER 4401A2		PERFORMANCE SPECIFICATIONS				DOC NO. PS4401A2	
		DATA RECORDER, MULTI-AXIS			REV G, ECN 16655, 03/08/22		
		• 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		Aluminum, Anodized				
INTERNAL SENSOR PERFORMANCE							
Acceleration Range (X, Y, Z Directions) ±5%	±16	g pk	±157	m/s ² pk			
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.	0.025	g RMS	0.25	m/s ² RMS			
RELAY							
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							
Operating temperature, Discharging	-4 to +131	°F	-20 to +55	°C			
Operating temperature, Charging	32 to +104	°F	0 to +40	°C			
Seal [3]	IP65		IP65				
Max shock	500	g pk	4905	m/s ² pk			
POWER SPECIFICATIONS							
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				
		This family also includes:					
		Model		Internal Accelerometers Range (g pk)		Noise (g RMS)	
		4401A1		±5		.08	
		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.					
		[3] install molded cover to maintain IP65 seal.					
							
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4401A1 for more information.					
		21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com					