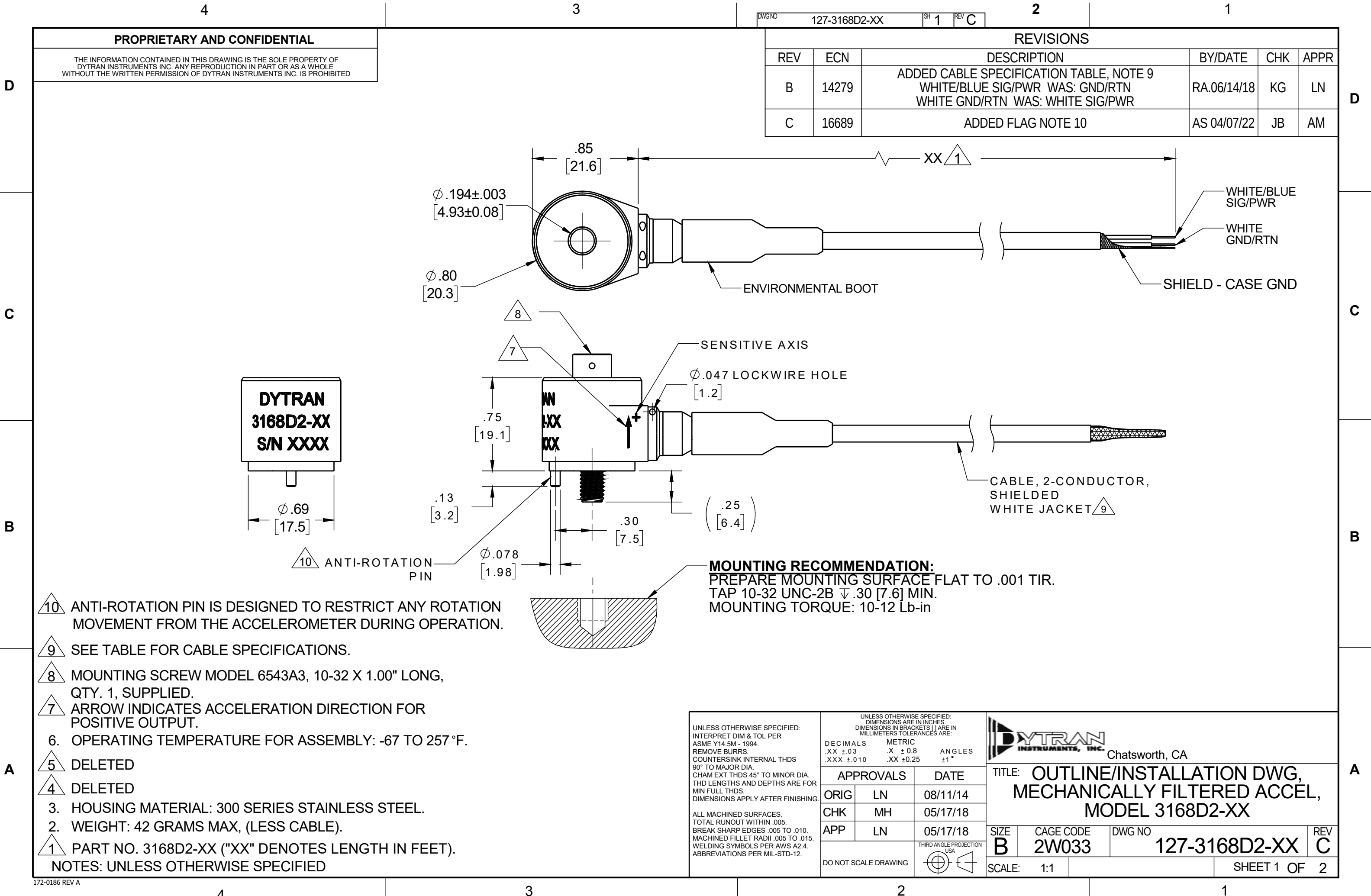




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REVISIONS

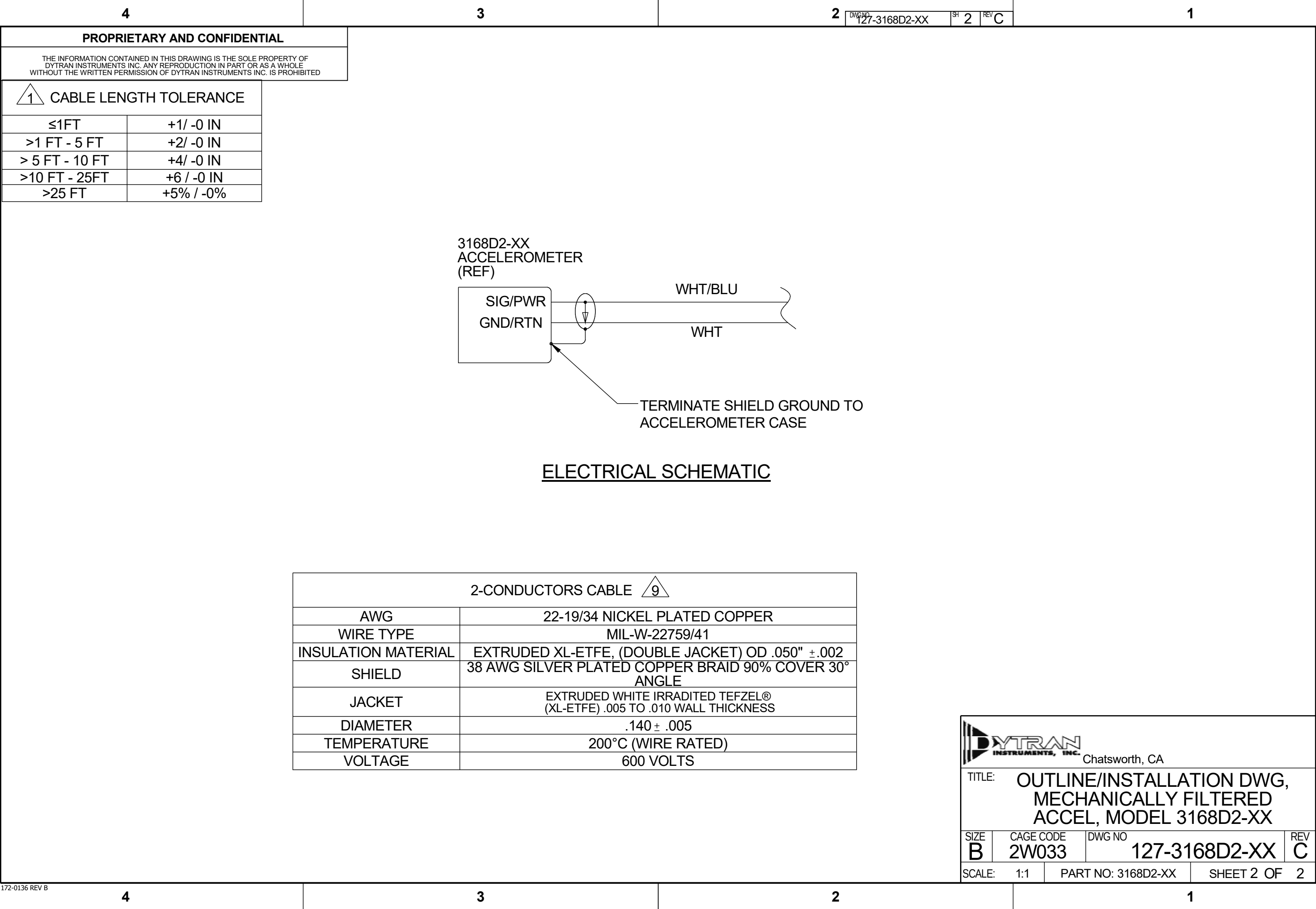
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	14279	ADDED CABLE SPECIFICATION TABLE, NOTE 9 WHITE/BLUE SIG/PWR WAS: GND/RTN WHITE GND/RTN WAS: WHITE SIG/PWR	RA.06/14/18	KG	LN
C	16689	ADDED FLAG NOTE 10	AS 04/07/22	JB	AM

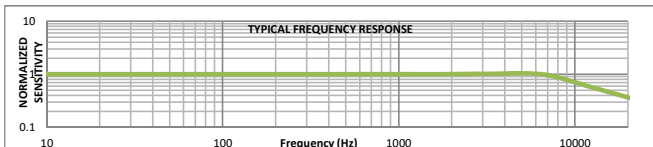
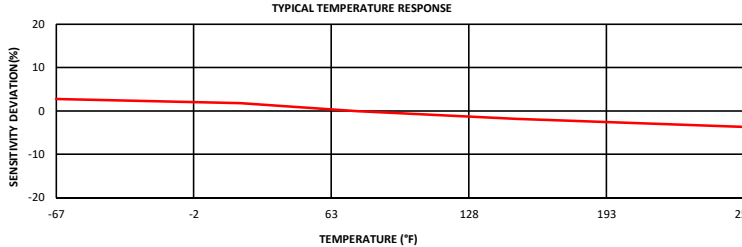
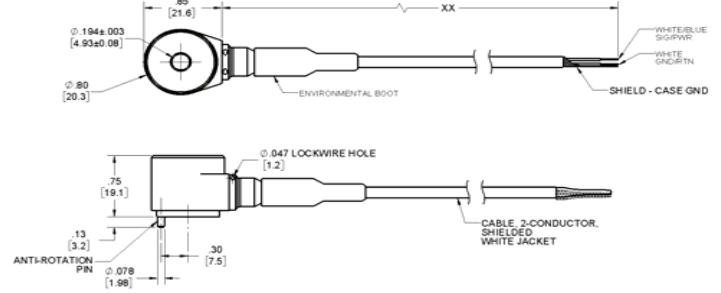
DYTRAN
3168D2-XX
S/N XXXX

MOUNTING RECOMMENDATION:
PREPARE MOUNTING SURFACE FLAT TO .001 TIR.
TAP 10-32 UNC-2B .30 [7.6] MIN.
MOUNTING TORQUE: 10-12 Lb-in

- 10 ANTI-ROTATION PIN IS DESIGNED TO RESTRICT ANY ROTATION
MOVEMENT FROM THE ACCELEROMETER DURING OPERATION.
- 9 SEE TABLE FOR CABLE SPECIFICATIONS.
- 8 MOUNTING SCREW MODEL 6543A3, 10-32 X 1.00" LONG,
QTY. 1, SUPPLIED.
- 7 ARROW INDICATES ACCELERATION DIRECTION FOR
POSITIVE OUTPUT.
6. OPERATING TEMPERATURE FOR ASSEMBLY: -67 TO 257 °F.
- 5 DELETED
- 4 DELETED
3. HOUSING MATERIAL: 300 SERIES STAINLESS STEEL.
2. WEIGHT: 42 GRAMS MAX, (LESS CABLE).
- 1 PART NO. 3168D2-XX ("XX" DENOTES LENGTH IN FEET).
- 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. 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:		 Chatsworth, CA			
		DECIMALS .XX ±.03 .XXX ±.010 METRIC .X ±0.8 .XX ±0.25 ANGLES ±1°					
		APPROVALS				DATE	
		ORIG LN 08/11/14 CHK MH 05/17/18 APP LN 05/17/18				DO NOT SCALE DRAWING	
		THIRD ANGLE PROJECTION USA		TITLE: OUTLINE/INSTALLATION DWG, MECHANICALLY FILTERED ACCEL, MODEL 3168D2-XX			
		SIZE B		CAGE CODE 2W033	DWG NO 127-3168D2-XX	REV C	
		SCALE: 1:1		SHEET 1 OF 2			



MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO.											
3168D2-XX						PS3168D2-XX											
		ACCELEROMETER, IEPE,SINGLE AXIS				REV C, ECN 15075, 05/15/19											
		• RUGGED, LIGHTWEIGHT • MECHANICALLY AND ELECTRICALLY FILTERED • THROUGH HOLE MOUNT • CASE ISOLATED • HERMETICALLY SEALED				This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Oper. Temp(°F)</th><th>Cable Length (FT)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Oper. Temp(°F)	Cable Length (FT)					
Model	Sensitivity (mV/g)	Range (Gpeak)	Oper. Temp(°F)	Cable Length (FT)													
Refer to the performance specifications of the products in this family for detailed description.																	
Supplied Accessories: 1) Accredited Calibration Certificate (ISO 17025) 2) Mounting screw, 10-32 x 1.0" long, Model 6543A3, Qty. 1																	
Notes: [1] Measured at 100 Hz, 1 G rms 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] 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.																	
PHYSICAL Weight, Max. (Less Cable) Housing		ENGLISH		SI													
Material Isolation		1.5 oz 300 Series S.S Case Isolated	42 grams 300 Series S.S Case Isolated														
PERFORMANCE Sensitivity +/- 5% [1] Range F.S. For ± 5 Volts Output Frequency Range, ± 3dB Resonant Frequency Mechanical Filter Resonance Linearity [2] Transverse Sensitivity, Max. Equivalent Electrical Noise Floor, Max. Spectral Noise, Typ		10 mV/g 500 g pk 1 to 10000 Hz > 40 kHz > 13 kHz ± 1 %F.S 5% 0.007 grms 0.0008 g/sqr(Hz) 0.0002 g/sqr(Hz) 0.00008 g/sqr(Hz) 0.00009 g/sqr(Hz) 0.00002 g/sqr(Hz)	1.02 mV/ m/s ² 4903 m/s ² pk 1 to 10000 Hz > 40 kHz > 13 kHz ± 1 %F.S 5% 0.07 m/s ² rms 0.00785 m/s ² /sqr(Hz) 0.00196 m/s ² /sqr(Hz) 0.00078 m/s ² /sqr(Hz) 0.00088 m/s ² /sqr(Hz) 0.00020 m/s ² /sqr(Hz)														
ENVIRONMENTAL Maximum Vibration Maximum Shock Temperature Range (Operational) Seal Base Strain Sensitivity Magnetic sensitivity, Typ		600 ±gpk 5000 ±gpk -67 to 257 °F Hermetic 0.0003 g/με 0.00035 g/Gauss	5884 ± m/s ² pk 49033 ± m/s ² pk -55 to 125 °C Hermetic 0.00294 m/s ² / με 0.00004 m/s ² /Gauss														
ELECTRICAL Supply Current [3] Compliance Voltage Range Output Impedance, Typ Bias Voltage Discharge Time Constant Warm up Time Overload Recovery Sensitivity Change Vs.Current Electrical Isolation, Min Electrical Filter Corner Frequency (2 pole)		2 to 10 mA 18 to 30 VDC 100 Ω 7.5 to 13.0 VDC 0.5 to 1.0 sec <4 sec <50 μsec <1 % 10 GΩ 10 kHz	2 to 10 mA 18 to 30 VDC 100 Ω 7.5 to 13.0 VDC 0.5 to 1.0 sec <4 sec <50 μsec <1 % 10 GΩ 10 kHz														
																	
																	
																	
				Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3168D2-XX for more information.													
		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															