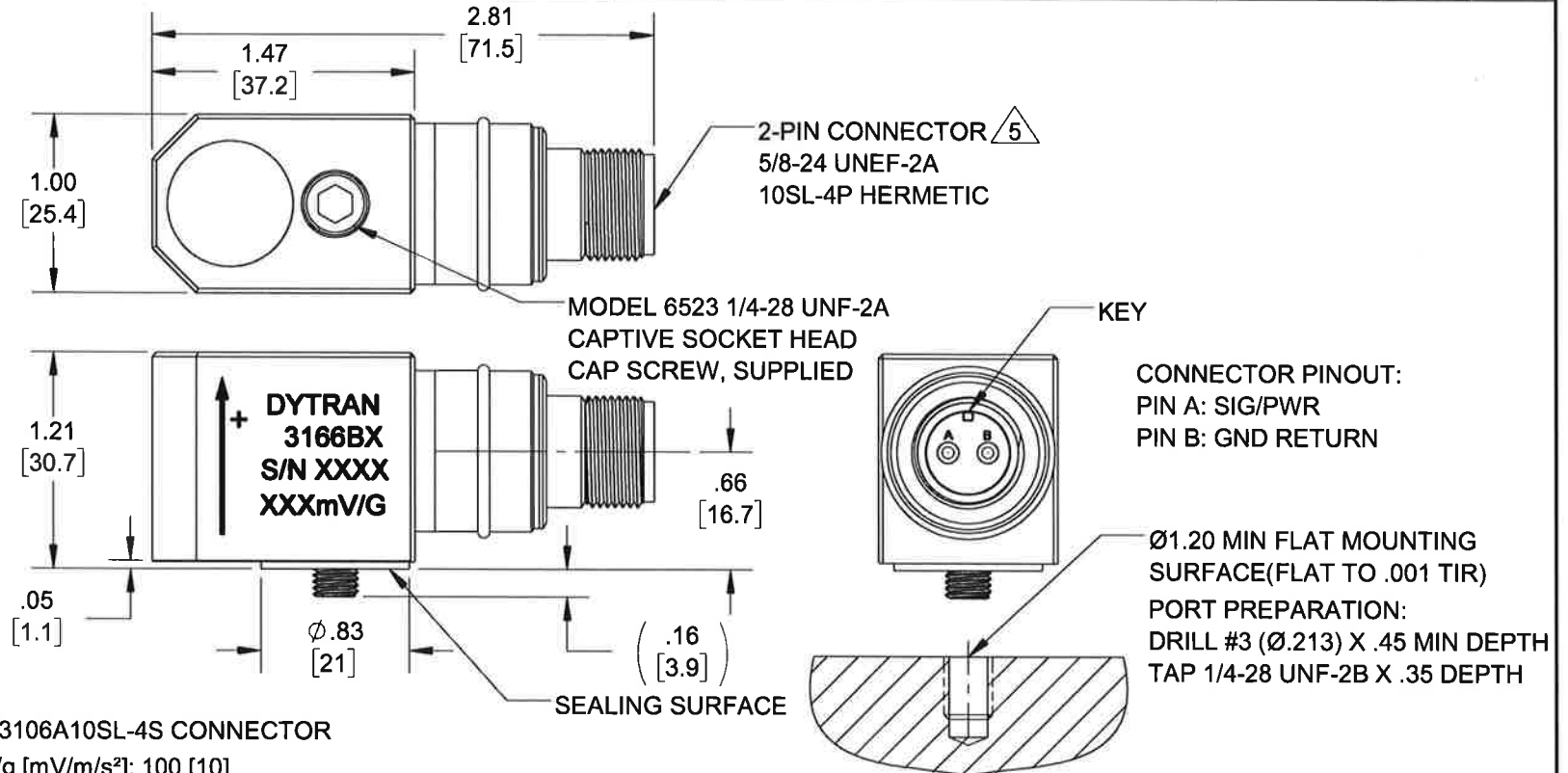


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	13143	REDRAWN ON SOLIDWORKS WITH CHANGES	RA, 11/30/16	MH	LA



5. MATES WITH MS3106A10SL-4S CONNECTOR

- SENSITIVITY mV/g [mV/m/s²]: 100 [10]
- WEIGHT: 8 OZ [228 GRAMS] MAX
- SEAL: HERMETIC
- POWER GROUND IS INSULATED FROM CASE BY >10 MEGOHMS.

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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	
3166B	
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
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:		
INCHES	METRIC	ANGLES
.XX ± .03	X ± 0.8	± 1°
.XXX ± .010	.XX ± 0.25	
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.




MASTER
ONLY IF IN RED

TITLE:

OUTLINE/INSTALLATION
DRAWING, 3166B SERIES

APPROVALS		DATE
ORIG	NC	07/29/02
CHK	RA	07/29/02
APP	ANS	07/29/02
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3166B	B
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

Model Number 3166B		PERFORMANCE SPECIFICATIONS				DOC NO PS3166B	
		IEPE SINGLE AXIS ACCELEROMETER				REV A, ECN 15647, 03/19/20	
		<ul style="list-style-type: none">• ELECTRICALLY ISOLATED• HERMETICALLY SEALED					
PHYSICAL		ENGLISH		SI		This family also includes:	
Type		8	oz	228	grams	Model	
Weight, Max		2 -PIN, MIL-C-5015-10SL-4P		2 -PIN, MIL-C-5015-10SL-4P		Sensitivity (V/g)	
Connector		CAPTIVE 1/4-28 SCREW		CAPTIVE 1/4-28 SCREW		Frequency Response (Hz)	
Mounting Provision		300 SERIES SS		300 SERIES SS		Time Constant (Sec)	
Material, Housing/Connector		Ceramic		Ceramic		Operating Temp (°F)	
Sensing Element		Planar Shear		Planar Shear			
Element Style							
PERFORMANCE							
Sensitivity, ±5% [1]		100	mV/g	10	mV/m/s ²		
Range for ± 5 Volts Output		50	g peak	491	m/s ²		
Frequency Response, ±10%		0.3 to 5000	Hz	0.3 to 5000	Hz		
Resonant Frequency		> 21	kHz	> 21	kHz		
Equivalent Electrical Noise Floor		0.0005	Grms	0.005	m/s ² rms		
Linearity [2]		± 2	% F.S.	± 2	% F.S.		
Maximum Transverse sensitivity		5	%	5	%		
Strain Sensitivity @ 250µε		0.0001	g/µε	0.001	m/s ² /µε		
ENVIRONMENTAL							
Maximum Vibration		350	g peak	3434	m/s ² peak		
Maximum Shock		3000	g peak	29430	m/s ² peak		
Operating Temperature Range		-60 to +250	°F	-51 to 121	°C		
Seal		Hermetic		Hermetic			
ELECTRICAL							
Supply Current Range [3]		2 to 20	mA	2 to 20	mA		
Compliance Voltage Range		+20 to +30	Volts	+20 to +30	Volts		
Output Impedence, Typ		200	Ω	200	Ω		
Bias Voltage		+11 to +13	VDC	+11 to +13	VDC		
Discharge Time Constant		0.9 to 2.0	Sec	0.9 to 2.0	Sec		
Electrical Isolation (Pwr/Signal Ground to Case Isolation)		10	GΩ,min	10	GΩ,min		
Output Signal Polarity for Acceleration Toward Top		Positive		Positive			

