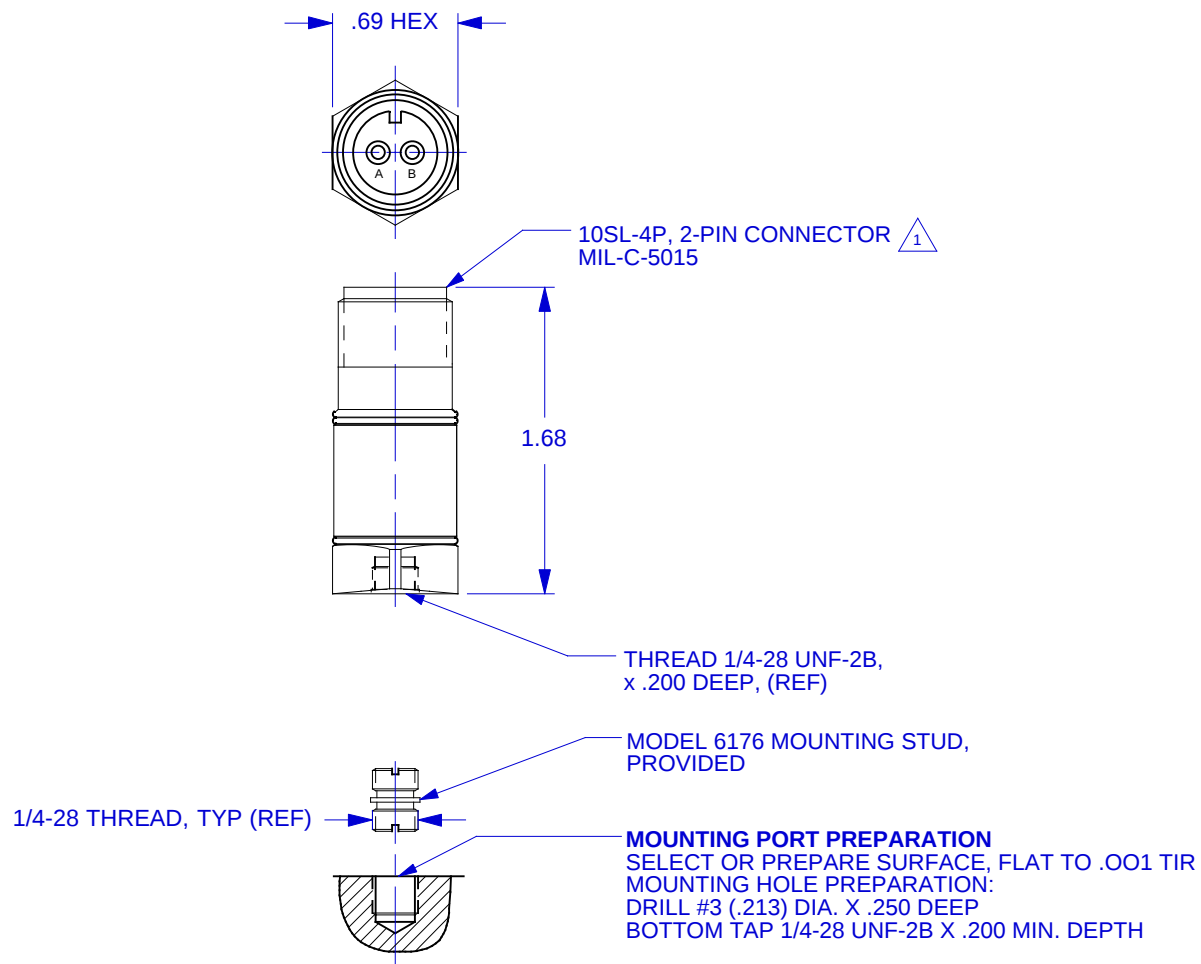




 PINOUT: A- SIGNAL
B- GROUND RETURN

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX = ± .XX = ±	
SURFACE FINISH EXCEPT AS NOTED	
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
 THESE DIAS  TO T.I.R.	
FILLETS -	MAX RAD.



CHATSWORTH, CA.

SCALE	1X	REV	-	DATE	-	ECN	-		
DATE	6-4-02	PART NO.	MODEL 3176B1						
DRAWN	N.C.	CHECKED	R.A.	MAT'L					
APPROVED		NEXT ASSEMBLY		USED ON					
TITLE								DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3176B1								127-3176B1	
								SHEET 1 OF 1	



SPECIFICATIONS

MODELS 3176B & 3176B1 LIVM ACCELEROMETERS

SPECIFICATION (Common to both models)	VALUE	UNITS
PHYSICAL		
WEIGHT	44	GRAMS
SIZE, HEX x HEIGHT	.69 x 1.66	IN
MOUNTING PROVISION (Model 3176B)	TAPPED HOLE AT CENTER	10-32
(Model 3176B1)	TAPPED HOLE AT CENTER	1/4-28
ELECTRICAL CONNECTOR, AXIAL	2-PIN MILITARY Mil-C-5015, HERMETIC	
MATERIAL CASE/CONNECTOR	300 SERIES	ST. STEEL
ELEMENT TYPE	PIEZOCERAMIC, PLANAR SHEAR	
PERFORMANCE		
SENSITIVITY, $\pm 5\%$ [1]	100	mV/G
RANGE FOR ± 5 VOLTS OUT	± 50	G
FREQUENCY RESPONSE, $\pm 10\%$	0.3 to 10,000	Hz
MOUNTED RESONANT FREQUENCY, TYP.	27	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR, (RESOLUTION)	.00002	G RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.0001	G's PER MICROSTRAIN @ 250/ms
ENVIRONMENTAL		
MAXIMUM VIBRATION	500	G's, RMS
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ F
ENVIRONMENTAL SEAL	GLASS TO METAL/WELDED,HERMETIC	
ELECTRICAL		
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2]	+20 to +30	VDC
EXCITATION CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	200	OHMS
OUTPUT BIAS VOLTAGE, ± 1 . VOLTS	13	VDC
DISCHARGE TIME CONSTANT, MIN.	.5	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	
POWER/SIGNAL GROUND to CASE ISOLATION, MIN.	10	MEGOHMS

ACCESSORIES PROVIDED

MODEL 3176B [1] MODEL 6200S MOUNTING STUD
 MODEL 3176B1 [1] MODEL 6176 MOUNTING STUD

NOTES

- [1] MEASURED AT 100 Hz, 1 G RMS. A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** IS SUPPLIED WITH EACH INSTRUMENT.
- [2] THE USE OF DYTRAN LIVM CURRENT SOURCE POWER UNITS IS RECOMMENDED. **DO NOT CONNECT THIS INSTRUMENT TO A SOURCE OF DC VOLTAGE WITHOUT CURRENT LIMITING PROTECTION, 20 mA MAX.** TO DO SO WILL DESTROY THE INTERNAL AMPLIFIER AND VOID THE WARRANTY.