



1. MOUNTING TORQUE ON 5/8 HEX: 20 TO 25 LB-INCHES. DO NOT OVERTORQUE.
2. CASE MATERIAL-300 SERIES STAINLESS STEEL.
3. WEIGHT-58 GRAMS.

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.

FILLET - MAX RAD.

IDYTRAN
INSTRUMENTS, INC.

CHATSWORTH, CA.

SCALE	2X	REV	-	DATE	-	ECN	
DATE	1/10/98	PART NO.					
DRAWN	N.C.	CHECKED	R.A.	MATERIAL			
APPROVED		NEXT ASSEMBLY			USED ON		
TITLE						DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3100D24						127-3100D24	
						SHEET 1 OF 1	

SPECIFICATIONS

MODEL 3100D24 LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
RANGE F.S. FOR +/- 5 VOLTS OUTPUT	+/- 5	G's
SENSITIVITY, +/- 5% [1]	1000	mV/G
EQUIVALENT ELECTRICAL NOISE FLOOR	.0004	G's RMS
FREQUENCY RANGE, +/- 5%	1 to 1000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	26	kHz
LINEARITY [2]	+/- 2%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +11 VOLTS NOM.	+9 to +12	VDC
DISCHARGE TIME CONSTANT, NOM.	1	SEC
TEMPERATURE RANGE	-60 to +250	°F
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
MAXIMUM VIBRATION/SHOCK	100/200	+/- G's/G's PEAK
SIZE, HEX x HEIGHT	.625 x 1.30	Inches
WEIGHT	55	Grams
CONNECTOR, RADially MOUNTED	10-32	Coaxial
MATERIAL, BASE, CAP & CONNECTOR	300 Series	Stainless Steel
SEAL, HERMETIC	Glass-to-metal and TIG welded	
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Megohms, min.
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts

Accessories supplied: (1) Model 6200 mounting stud.
 (1) Model 6215 thermal boot.

[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.