



1. WEIGHT-48 GRAMS

<b>IDYTRAN</b> INSTRUMENTS, INC.		CHATSWORTH, CA.		
SCALE	2X	REV	DATE	ECN
DATE	5/9/05	PART NO.	MOD 3148E	
DRAWN	N.C.	CHECKED	D.Z.	
APPROVED	NEXT ASSEMBLY		USED ON	3148E
TITLE			DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3148E			127-3148E	
SHEET 1 OF 1				



## SPECIFICATIONS

### MODEL 3148E INDUSTRIAL ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	48	GRAMS
SIZE (HEX x HEIGHT)	.625 X 1.44	INCHES
MOUNTING PROVISION	10/32 TAPPED HOLE AT BOTTOM	
CONNECTOR, COAXIAL, RADIALLY MOUNTED	BNC	10SL-4P
CASE /CONNECTOR MATERIAL	316L STAINLESS STEEL	
ELEMENT TYPE	PIEZOCERAMIC PLANAR SHEAR	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 2\%$ mV/G	100	
RANGE F.S. FOR $\pm 5$ VOLTS OUT	$\pm 50$	G's
FREQUENCY RESPONSE, $\pm 5\%$	0.5 to 5000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	26	kHz
EQUIVALENT ELECTRICAL NOISE (RESOLUTION)	.0007	G, RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/ $\mu$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	600	G's, RMS
MAXIMUM SHOCK	3000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ F
ENVIRONMENTAL SEAL	HERMETIC	
<b>ELECTRICAL</b>		
EXCITATION (COMPLIANCE) VOLTAGE RANGE	+18 to +30	VDC
EXCITATION CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	150	OHMS
OUTPUT BIAS VOLTAGE, $\pm 1$ VOLT	11	VDC
DISCHARGE TIME CONSTANT, MIN.	1	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	
CASE GROUND ISOLATION	10 MEGOHMS	

**SUPPLIED ACCESSORIES:**

- (1) MODEL 6200 10-32 BERYLLIUM COPPER MOUNTING STUD

[1] MEASURED AT 100Hz, 1 g RMS LEVEL BY BACK-TO-BACK COMPARISON PER ISA RP37.2.  
 [2] EACH UNIT SUPPLIED WITH NIST TRACEABLE CALIBRATION CERTIFICATE