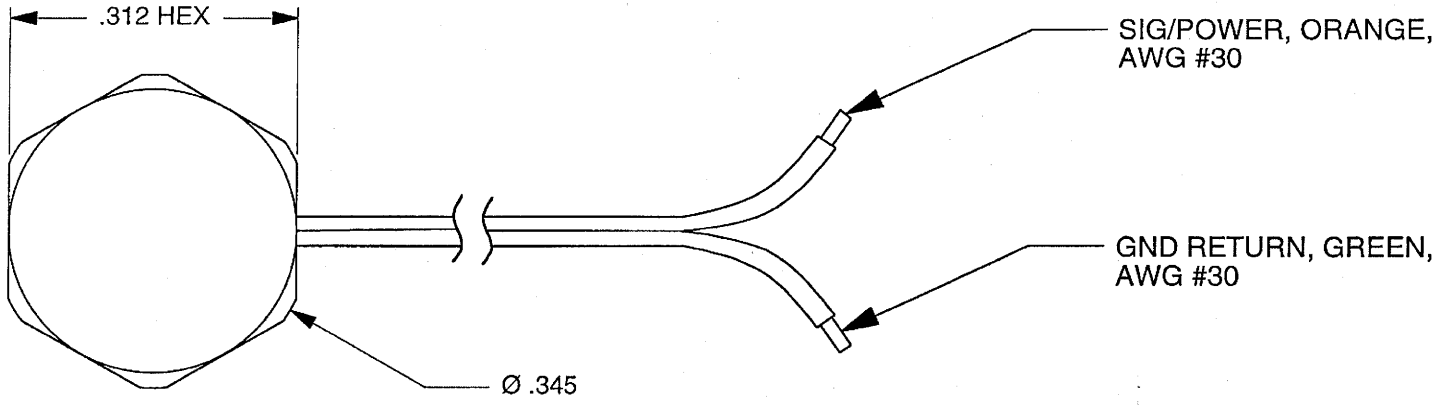

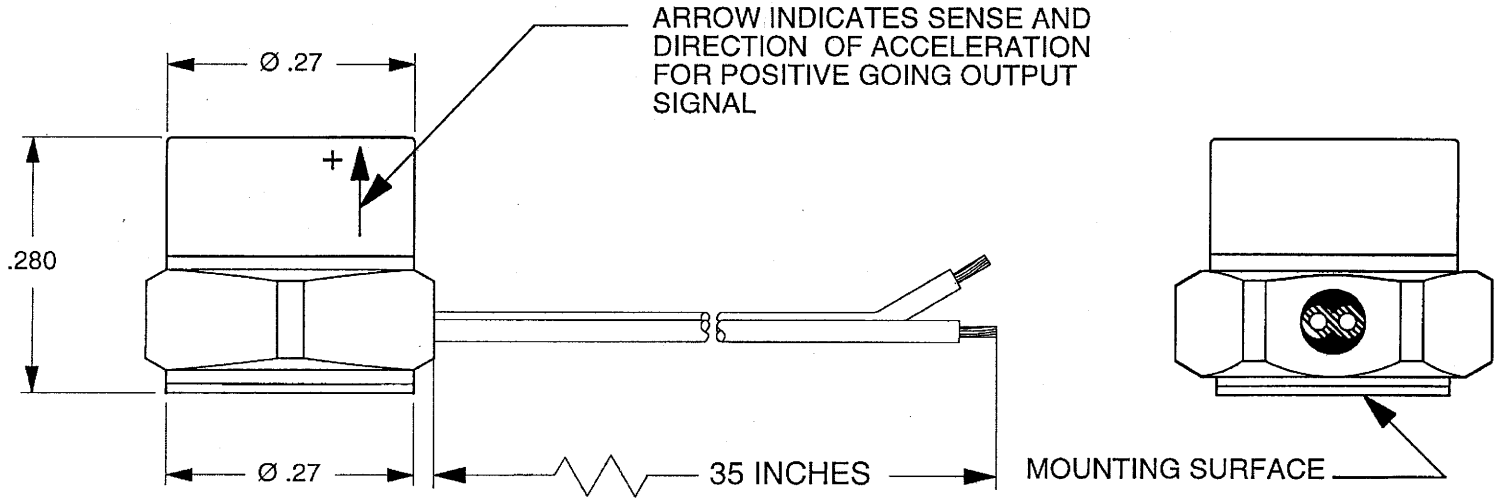

DYTRAN INSTRUMENTS, INC.

MASTER
ONLY IF IN RED

CHATSWORTH, CA.

SCALE	5X	REV -	DATE -	ECN -			
DATE	1/03/06	PART NO.	MODEL 3205B				
DRAWN N.C.	CHECKED R.A.	MAT'L	-				
APPROVED 1-4-06		NEXT ASSEMBLY	-	USED ON	3205B		

TITLE

OUTLINE/INSTALLATION DRAWING, MODEL 3205B

DWG NO. **127-3205B**

SHEET 1 OF 1

2. HOUSING MATERIAL: TITANIUM ALLOY.
1. WEIGHT: 2.0 GRAMS.

DYTRAN INSTRUMENTS, INC. USA

SPECIFICATIONS

MODEL 3205B LOW BIAS, HIGH TEMPERATURE LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT (NOT INCLUDING PIGTAIL)	2.5	GRAMS
SIZE (HEX x HEIGHT) MODEL	.31 x .28	INCHES
MOUNTING PROVISION	ADHESIVE MOUNT	
ELECTRICAL CONNECTION	INTEGRAL PIGTAIL, AWG 30	35 INCHES
CASE /CAP MATERIAL	TITANIUM ALLOY	
PERFORMANCE		
SENSITIVITY, ±10% [1]	2.0	mV/G
RANGE F.S. FOR ± 1 VOLTS OUT	± 500	G's
FREQUENCY RESPONSE, ± 3db [2]	0.5 to 5,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	30	kHz
EQUIVALENT ELECTRICAL NOISE (RESOLUTION)	.007	G, RMS
AMPLITUDE NON-LINEARITY (SEE NOTE [3])	1.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/μσ
ENVIRONMENTAL		
MAXIMUM VIBRATION	±600	G's
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-40 TO +175	°C
THERMAL COEFFICIENT OF SENSITIVITY	0.03	%/°C
SEAL	EPOXY/WELDED	
ELECTRICAL		
EXCITATION (COMPLIANCE) VOLTAGE, NOM. [4]	+4.5	VDC
EXCITATION CURRENT, NOM.	4 .0	mA
OUTPUT IMPEDANCE, NOM.	100	OHMS
OUTPUT BIAS VOLTAGE,. (2.5 NOM.)	1.7 to 3.4	VDC
DISCHARGE TIME CONSTANT,	0.32	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		POSITIVE GOING
GROUND ISOLATION	NONE (CASE IS CONNECTED TO SIGNAL RETURN)	

[1] Measured at **100**Hz, 1G RMS, @ **4mA** supply current, per ISA RP 37.2 (with back-to-back standard traceable to NIST). A one-point calibration certificate traceable to **NIST** is supplied with each instrument.

[2] Adhesive used in installation may affect upper frequency response.

[3] Best fit zero based straight line method.

[4] Unit must be powered with Dytran LIVM power unit or other compatible current source power unit for proper operation. **Do not** connect unit to a source of DC power **without current limiting** (such as a battery or other DC voltage source. To do so **will immediately destroy** the integral IC amplifier.