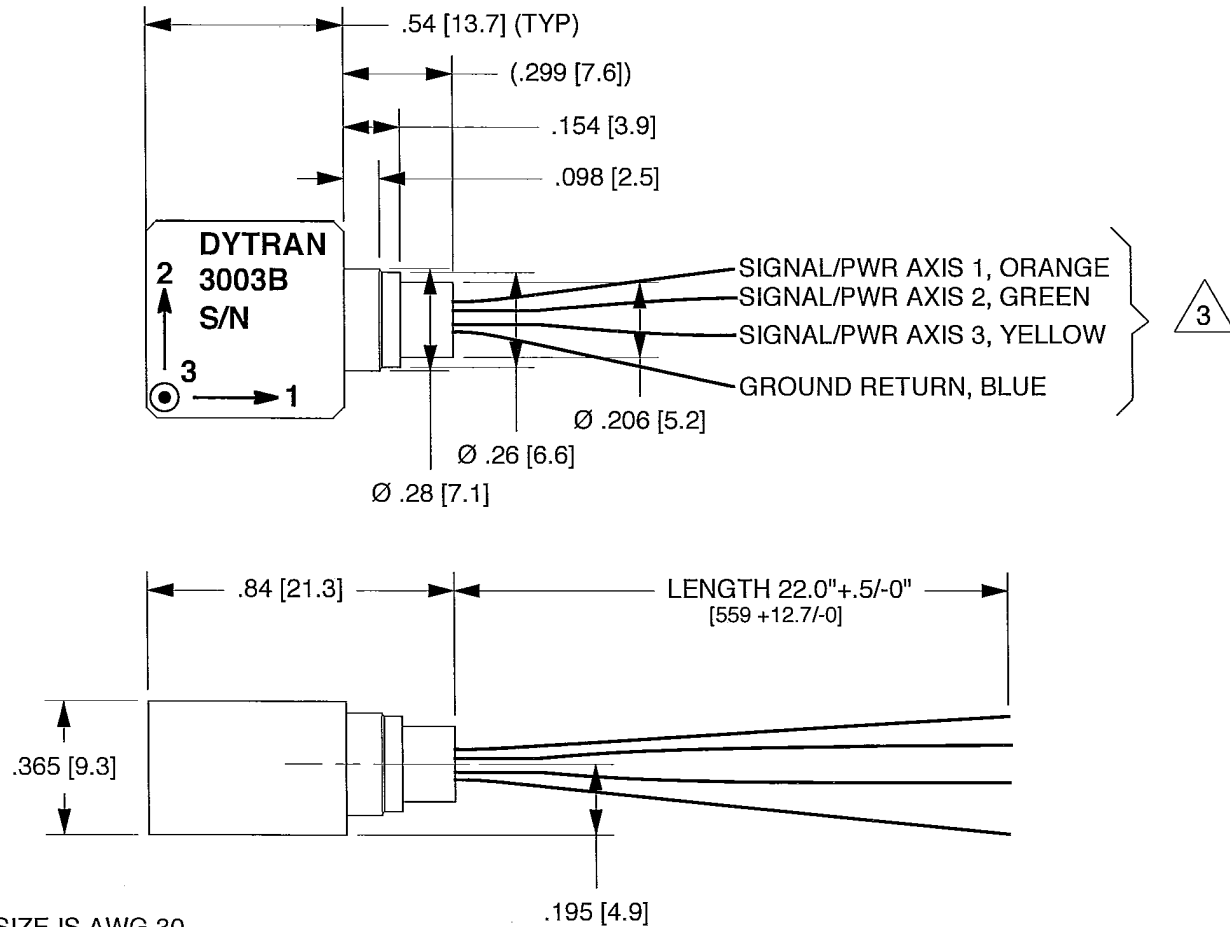


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9105	REVISED AND REDRAWN	RA, 09/10/12	<i>dm</i>	AS



- 3 WIRE SIZE IS AWG 30.
- 2. HOUSING MATERIAL: TITANIUM ALLOY.
- 1. WEIGHT: 6 GRAMS.

NOTES: UNLESS OTHERWISE SPECIFIED

3003M6	USED ON	NEXT ASSY
APPLICATION		
THIRD ANGLE PROJECTION USA		

UNLESS OTHERWISE SPECIFIED:  
 INTERPRET DIM & TOL PER ASME  
 Y14.5M-1994.REMOVE BURRS  
 COUNTERSINKS INTERNAL THDS 90°  
 TO MAJOR DIA CHAM EXT THDS 45°  
 TO MAJOR DIA. THD LENGTHS AND  
 DEPTHS ARE FOR THDS PER MIL-S-  
 7742.  
 DIMENSIONS APPLY AFTER  
 FINISHING.

ALL MACHINED SURFACES <sup>63</sup>/<sub>✓</sub>  
 TOTAL RUNOUT WITHIN .005 BREAK  
 SHARP EDGES .005 TO .010 MACHINE  
 FILLET RADI .005 TO .015. WELDING  
 SYMBOLS PER AWS A2.4  
 ABBREVIATIONS PER MIL-STD-12

CONTRACT NO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [ ] ARE IN MILLIMETERS. TOLERANCES ARE:		
INCHES .XX ±.03 .XXX ±.010	METRIC .X ± 0.8 .XX ± 0.25	ANGLES ± 1°
FINISH		
DO NOT SCALE DRAWING		

		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE 2X	DESIGN NC	DATE 10/03/06	PART NO.	REV A	
DRAWN NC	DATE 10/03/06	CHECKED RA	DATE 01/04/06	MAT'L	
APPROVED NC	DATE 01/04/06	NEXT ASSEMBLY	USED ON	3003B	
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3003B</b>				DWG NO. <b>127-3003B</b>	
				SHEET 1 OF 1	

## SPECIFICATIONS, MODEL 3003B TRIAXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT (NOT INCLUDING PIGTAIL)	6.0	GRAMS
SIZE (HEIGHT x WIDTH x DEPTH)	0.365 x .54 x .54	INCHES
MOUNTING	ADHESIVE MOUNT	
ELECTRICAL CONNECTION PROVISION	4-WIRE PERM ATTACHED CABLE, #30 AWG	22 IN.
MATERIAL, HOUSING/CABLE ADAPTER	TITANIUM ALLOY	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 10\%$ [1]	2.0	mV/G
RANGE, F.S. (each axis)	$\pm 500$	g
FULL SCALE VOLTAGE OUTPUT	$\pm 1$	VOLTS
FREQUENCY RESPONSE, $\pm 10\%$	2 to 5000	Hz
ELEMENT NATURAL FREQUENCY	$>30$	kHz
EQUIVALENT ELECTRICAL NOISE	.01	g, RMS
LINEARITY [2]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ETCHED ON HOUSING	
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	$\pm 600$	g
MAXIMUM SHOCK	5000	g
TEMPERATURE RANGE	-40 to +175	$^{\circ}\text{C}$
ENVIRONMENTAL SEAL	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	$\%/^{\circ}\text{C}$
<b>ELECTRICAL</b>		
SUPPLY CURRENT, (each axis) [3]	4.0	mA
COMPLIANCE (SUPPLY), NOM. (each axis)	+4.5	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE	+1.7 to 3.4	VDC
DISCHARGE TIME CONSTANT	0.25 to .75	SEC
GROUND ISOLATION	NONE CASE IS CONNECTED TO SIG RETURN	

[1] Reference sensitivity measured at 100 Hz, 1 g RMS per ISA RP 37.2

[2] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.

[3] Power only with Dytran LIVM power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be immediately destroyed.