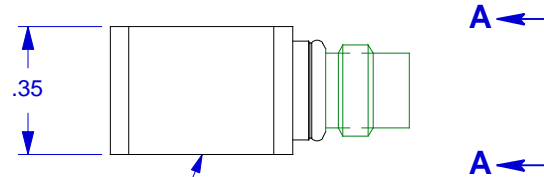
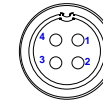


CONNECTOR MATES WITH
DYTRAN CABLE 6430AXX



MOUNTING SURFACE



VIEW A-A LOOKING
INTO CONNECTOR

PINOUT

- PIN #1 SIG/PWR AXIS 1 (X)
- PIN #2 SIG/PWR AXIS 2 (Y)
- PIN #3 SIG/PWR AXIS 3 (Z)
- PIN #4 GND RETURN, COMMON

- 4 WEIGHT: 6.0 GRAMS.
- 3 XX=LENGTH IN FEET.
- 2. + SIGNS INDICATE SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
- 1. HOUSING MATERIAL: TITANIUM ALLOY

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX = ± .005 .XX = ± .01	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
△ THESE DIAS ⊙ TO	T.I.R.
FILLETS -	MAX RAD.

DYTRAN INSTRUMENTS, INC.		CHATSWORTH, CA.	
SCALE 2X	REV -	DATE -	ECN -
DATE 8/11/00	PART NO. MODEL 3053B		
DRAWN N.C.	CHECKED R.A.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON	3053B
TITLE OUTLINE/INSTALLATION DRAWING, MODEL 3053B			DWG NO. 127-3053B
SHEET 1 OF 1			



SPECIFICATIONS, MODEL 3053B TRIAXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
PHYSICAL		
WEIGHT	6.0	GRAMS
SIZE (HEIGHT x WIDTH x DEPTH)	0.35 x .50 x .50	INCHES
MOUNTING [1]	ADHESIVE MOUNT	
CONNECTOR	4-PIN [2]	
MATERIAL, HOUSING/CONNECTOR	TITANIUM ALLOY	
PERFORMANCE		
SENSITIVITY, -10 +15% [3]	10.0	mV/G
RANGE, F.S. (each axis)	+/- 500	G
FREQUENCY RESPONSE, +/- 10%	2 to 5000	Hz
ELEMENT NATURAL FREQUENCY, NOM.	30	kHz
EQUIVALENT ELECTRICAL NOISE	.007	G, RMS
LINEARITY [4]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ETCHED ON HOUSING	
ENVIRONMENTAL		
MAXIMUM VIBRATION	+/- 600	G
MAXIMUM SHOCK	5000	G
TEMPERATURE RANGE	-60 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
ENVIRONMENTAL		
SUPPLY CURRENT RANGE, (each axis) [5]	2-to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis)	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE, NOM.	+10	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	SEC
GROUND ISOLATION	10	MEGOHMS (MIN)

- [1] Case ground isolation is achieved by internal means.
- [2] Connector mates with Dytran cable assy. Model 6430AXX. (XX = length in feet)
- [3] Reference sensitivity measured at 100 Hz, 1 G RMS per ISA RP 37.2
- [4] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.
- [5] 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.