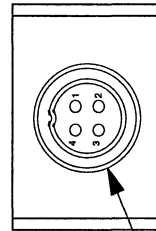
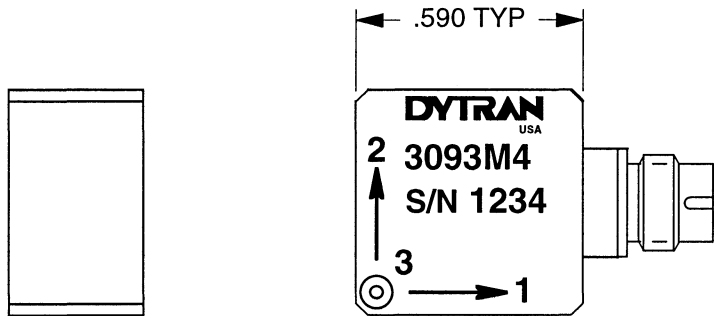
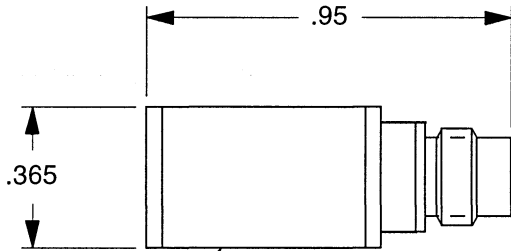


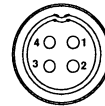
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5867	REVISED PINOUT TO MATCH FINAL ASSY DWG ADDED NOTE 5	RLA 03/24/09	98	DV



5



MOUNTING SURFACE



VIEW 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

5 CABLE SERIES 6430AXX (XX IS LENGTH IN FEET) MUST BE USED TO CONNECT MODEL 3093M4 TO POWER UNIT 4114B1.

- 4. MATERIAL, HOUSING AND CONNECTOR SHELL: TITANIUM ALLOY.
- 3. WEIGHT: 9.5 GMS.
- 2. SIG/PWR GROUND IS ISOLATED FROM CASE, 10 MEGOHMS, MIN.
- 1. ENVIRONMENTAL SEAL: HERMETIC.

		<h1>MASTER ONLY IF IN RED</h1>		CHATSWORTH, CA.	
SCALE	2X	REV	DATE	ECN	
			SEE REV BLK	-	
DATE	10/31/02	PART NO.	MODEL 3093M4		
DRAWN	N.C.	CHECKED	MAT'L		
		J5			
APPROVED	DV 3/31/09		NEXT ASSEMBLY	USED ON	3093M4
TITLE	OUTLINE/INSTALLATION DRAWING, MODEL 3093M4 (SEE NOTE #5)				DWG NO.
					127-3093M4
SHEET 1 OF 1					



SPECIFICATIONS, MODEL 3093M4 TRIAXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
PHYSICAL		
WEIGHT	9.5	GRAMS
SIZE (HEIGHT x WIDTH x DEPTH)	0.37 x .59 x .59	INCHES
MOUNTING	ADHESIVE MOUNT	
CONNECTOR [1]	4-PIN	
MATERIAL, HOUSING/CONNECTOR	TITANIUM ALLOY	
PERFORMANCE		
SENSITIVITY, +15 -10% [2]	50	mV/G
RANGE, F.S. (each axis)	± 50	g's
FREQUENCY RESPONSE, ± 10%	.5 to 5000	Hz
ELEMENT NATURAL FREQUENCY, NOM.	30	kHz
EQUIVALENT ELECTRICAL NOISE	.0007	g's, RMS
LINEARITY [3]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX.,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ETCHED ON HOUSING	
ENVIRONMENTAL		
MAXIMUM VIBRATION	± 100	G
MAXIMUM SHOCK	500	G
TEMPERATURE RANGE	-60 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
ELECTRICAL		
SUPPLY CURRENT RANGE, (each axis) [4]	2 to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis)	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE	+11 to + 13	VDC
DISCHARGE TIME CONSTANT	0.5 to 1	SEC
GROUND ISOLATION [5]	10, MIN.	MEGOHMS

NOTES:

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