



MOUNTING PREPARATION
 PREPARE FLAT SURFACE (TO .001 TIR)
 NEXT DRILL 5/16 (Ø.312) X .320 DEEP
 BOTTOM TAP 3/8-18 UNF-2B X .300 MIN
 THREAD DEPTH

REDRAWN ON CAD 9-9-96



CHATSWORTH, CA.

EXCEPTAS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES	
TOLERANCE: .XXX = ±	.XX = ±
SURFACE FINISH	✓
EXCEPTAS NOTED	
BREAKEDGES TO DEBURR	
RADIUSOR CHAMFER	
△ THESE DIAS	⊙ TO T.I.R.
FILLETS -	MAX RAD.

SCALE	1X	REV	DATE	ECN
DATE	12/19/85	PART NO.	1061V	
DRAWN	N.C.	CHECKED	MATL	
APPROVED	N.C.	NEXT ASSEMBLY	USEDON	

1. WEIGHT - 420 GRAMS

TITLE	OUTLINE/INSTALLATION DRAWING FORCE SENSOR, SERIES 1061V	DWG NO.	127-1061V
		SHEET	1 OF 1

SPECIFICATIONS MODEL SERIES 1060V &1061V DYNAMIC FORCE SENSORS

SPECIFICATIONS BY MODEL

MODEL	SENSITIVITY (mV/Lb)	COMPRESSION RANGE (Lbs)	MAXIMUM COMP. (Lbs)	TENSION RANGE (Lbs) (1060V ONLY)	MAXIMUM TENSION (Lbs) [1] (1060V ONLY)	DISCH. TC (Sec)	RESOLUTION (Lb RMS)
1060V1 1061V1	10	500	10,000	500	1000	150	0.007
1060V2 1061V2	5	1000	20,000	1000	1000	300	0.014
1060V3 1061V3	1	5000	30,000	1000	1000	1500	0.07
1060V4 1061V4	0.5	10,000	40,000	1000	1000	2000	0.14
1060V5 1061V5	0.2	25,000	50,000	1000	1000	2000	0.35
1060V6 1061V6	0.1	50,000	60,000	1000	1000	2000	0.70

SPECIFICATION	VALUE	UNITS
STIFFNESS	50	Lb/μ In
MOUNTED RESONANT FREQUENCY, UNLOADED	75	kHz
LINEARITY [2]	+/- 1	%F.S.
F.S.OUTPUT VOLTAGE, NOM.	5	VOLTS
MAX SHOCK, UNLOADED	5,000	G's
MAX. VIBRATION, UNLOADED	+/- 3,000	G's
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TEMPERATURE RANGE	-100 to +250	°F
ENVIRONMENTAL SEAL	EPOXY	
SUPPLY CURRENT / VOLTAGE RANGE [3]	2 to 20 / +18 to +30	mA / VDC
OUTPUT IMPEDANCE	100	OHMS
MATERIAL	STAINLESS STEEL	
WEIGHT 1060V/1061V	460/452	GRAMS

MOUNTING PROV.: **1060V** 11/16-12 INTEG. STEM AT BOTTOM, 3/8-16 x .400 DP. TAPPED HOLE, TOP
MOUNTING PROV.: **1061V** 3/8-16 x .250 DP. TAPPED HOLE, TOP AND BOTTOM.

ELECTRICAL CONNECTOR: **1060V** AXIAL, MOUNTED AT END OF THREADED STEM 10-32 COAXIAL
ELECTRICAL CONNECTOR: **1061V** RADIAL 10-32 COAXIAL

ACCESSORIES SUPPLIED: (2) MOD 6232 MOUNTING STUDS, MODEL 1061V, (1) 6232 MOUNTING STUD, MODEL 1060V.

- [1] **Absolute maximum tension. Do not exceed in any case!**
- [2] Percent of full scale or of any lesser range, zero based best fit straight line method.
- [3] Power these instruments **only** with constant current type power units. **Do not** connect to a source of voltage without current limiting. This **will destroy** the integral IC amplifier.