



4. WEIGHT: 50 GRAMS.
3. ENVIRONMENTAL SEAL: HERMETIC.
2. MATERIAL: LOAD-BEARING SURFACES:  
HARDENED 17-4 PH STAINLESS STEEL. HOUSING  
AND CONNECTOR: 300 SERIES STAINLESS STEEL.
1. POLARITY: POSITIVE-GOING WITH COMPRESSION.

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



CHATSWORTH, CA.

SCALE 2X		REV -	DATE -	ECN -		
DATE 12/17/01		PART NO. MODEL SERIES 1203V				
DRAWN N.C.	CHECKED R.A.	MAT'L				
APPROVED		NEXT ASSEMBLY			USED ON SERIES 1203V	
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL SERIES 1203V FORCE SENSORS</b>					DWG NO.	
					<b>127-1203V</b>	
					SHEET 1 OF 1	

## SPECIFICATIONS, MODEL SERIES 1203V DYNAMIC FORCE SENSOR

### SPECIFICATIONS BY MODEL

MODEL	SENSITIVITY (mV/Lb)	COMPRESSION RANGE (Lbs)	MAXIMUM COMPRESSION (Lbs)	DISCH. TC (Sec)	RESOLUTION (Lb, RMS)
1203V1	50.0	100	200	90	.00014
1203V2	10.0	500	1000	450	.0007
1203V3	5.0	1000	5000	850	.0014
1203V4	1.0	5000	10,000	1800	.007
1203V5	0.5	10000	15,000	1800	.014

### COMMON SPECIFICATIONS

STIFFNESS	20.0	Lb/μ In
MOUNTED RESONANT FREQUENCY, UNLOADED	75	kHz
LINEARITY [1]	±1	% F.S.
F.S. OUTPUT VOLTAGE, NOM.	5	VOLTS
MAX SHOCK, UNLOADED	10,000	G's
MAX. VIBRATION, UNLOADED	±5,000	G's, PEAK
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TEMPERATURE RANGE	-100 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC WELDED, GLASS-TO-METAL SEAL	
SUPPLY CURRENT / VOLTAGE RANGE [2]	2 to 20 / +18 to +30	mA / VDC
OUTPUT IMPEDANCE	100	OHMS
MATERIAL, LOAD BEARING SURFACES	17-4PH, HARDENED	STAINLESS STEEL
MATERIAL, HOUSING AND CONNECTOR	316L	STAINLESS STEEL
WEIGHT	50	GRAMS
SIZE (O.D. X I.D. X THICKNESS)	Ø1.1 X Ø.400 X .500	INCHES
MOUNTING PROVISION	Ø.400 THRU HOLE AT CENTER	
ELECTRICAL CONNECTOR	RADIALLY MOUNTED, WITH 10-32 MICRO COAX CONNECTOR	

[1] Percent of full scale or of any lesser range, zero based best fit straight line method.

[2] 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.