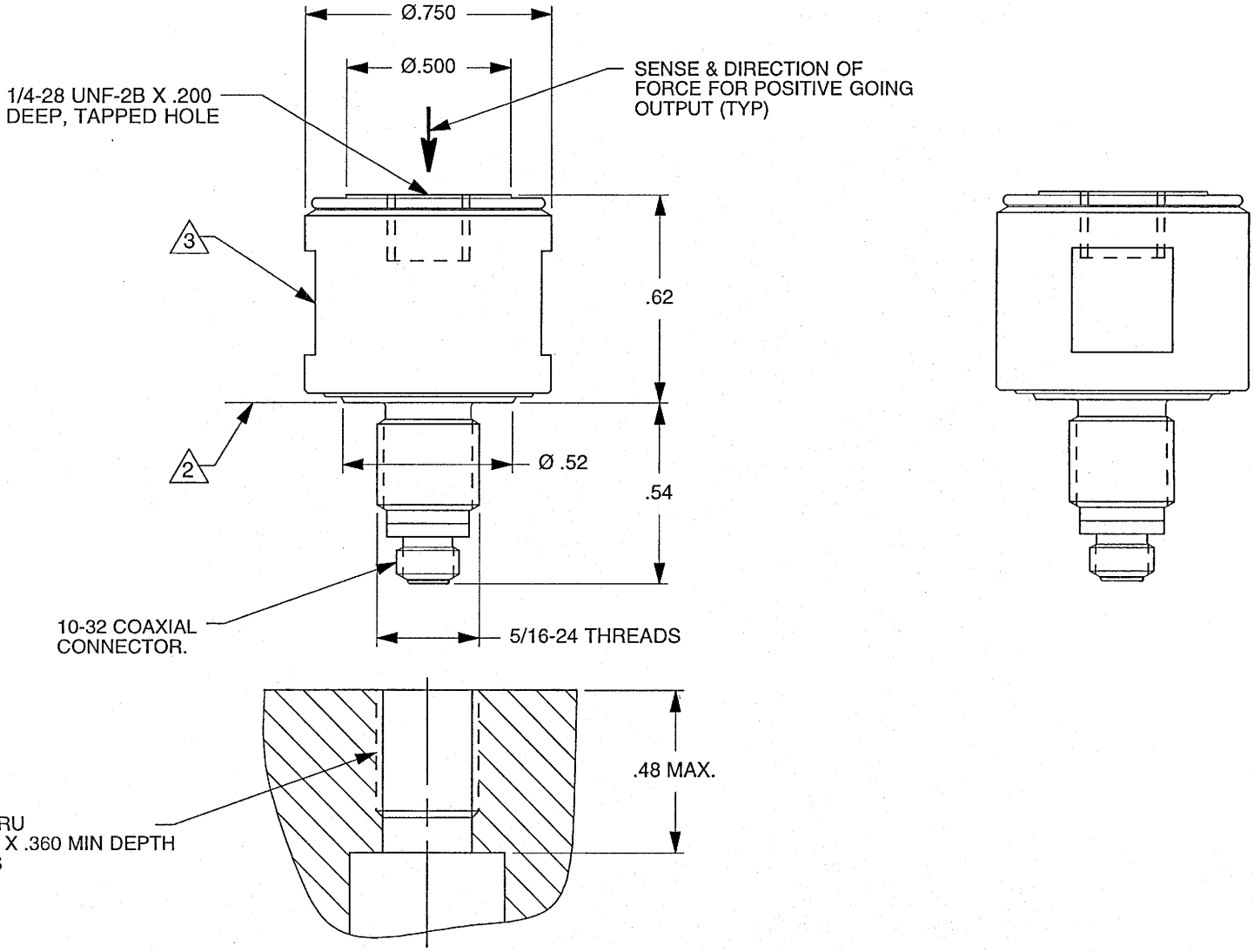

REDRAWN ON CAD 10/16/98

3 WRENCH FLATS: 11/16 (.687) ACROSS FLATS X .31 HIGH.

2 IT IS IMPORTANT THAT BOTTOM SURFACE OF SENSOR BE IN INTIMATE CONTACT. INSPECT FOR BURRS, ETC.

1 PREPARE FLAT SURFACE OVER Ø.62 MINIMUM AREA BY GRINDING, SPOTFACING, LAPPING ETC. THIS AREA MUST BE FLAT WITHIS .001 TIR, TYP BOTH MODELS.

Presented by: Absolute Gauge Technologies

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES	
TOLERANCE: .XXX = ±	.XX= ±
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 B	DATE 11-22-05	ECN -			
DATE 1/30/82	PART NO. -					
DRAWN N.C.	CHECKED N.C.	MAT'L -				
APPROVED 11-22-05	NEXT ASSEMBLY	USED ON 1050V				

TITLE

OUTLINE/INSTALLATION DRAWING, MODEL 1050V FORCE SENSOR

DWG NO. **127-1050V**

SHEET 1 OF 1

SPECIFICATIONS MODEL SERIES 1050V DYNAMIC FORCE SENSORS

SPECIFICATIONS BY MODEL

MODEL	SENSITIVITY RESOLUTION (mV/Lb)	COMPRESSION RANGE (Lbs)	MAXIMUM COMP. (Lbs)	TENSION RANGE (Lbs)	MAXIMUM TENSION (Lbs) [1]	DISCH. TC (Sec)	(Lb RMS)
1050V1	500	10	200	10	200	50	.00014
1050V2	100	50	1000	50	1000	100	.0007
1050V3	50	100	2000	100	1000	500	.0014
1050V4	10	500	10,000	500	1000	2000	.007
1050V5	5	1000	15,000	500	1000	2000	.014
1050V6	1	5000	15,000	500	1000	2000	.07

COMMON SPECIFICATIONS

SPECIFICATION	VALUE	UNITS
STIFFNESS	11.4	Lb/µ In
MOUNTED RESONANT FREQUENCY, UNLOADED	75	kHz
LINEARITY [2]	+/- 1	%F.S.
F.S.OUTPUT VOLTAGE, NOM.	5	VOLTS
MAX SHOCK, UNLOADED	10,000	G's
MAX. VIBRATION, UNLOADED	+/- 5,000	G's
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/^{o}F
TEMPERATURE RANGE	-100 to +250	^{o}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	32	GRAMS

MOUNTING PROVISION 5/16-24 INTEG. STEM AT BOTTOM, 1/4-28 x .175 DP. TAPPED HOLE AT TOP

ELECTRICAL CONNECTOR, AXIAL, MOUNTED AT END OF THREADED STEM 10-32 COAXIAL

ACCESSORIES SUPPLIED: (1) MOD 6210 STEEL IMPACT CAP, (2) MOD 6204 1/4-28 MOUNTING STUD

[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.