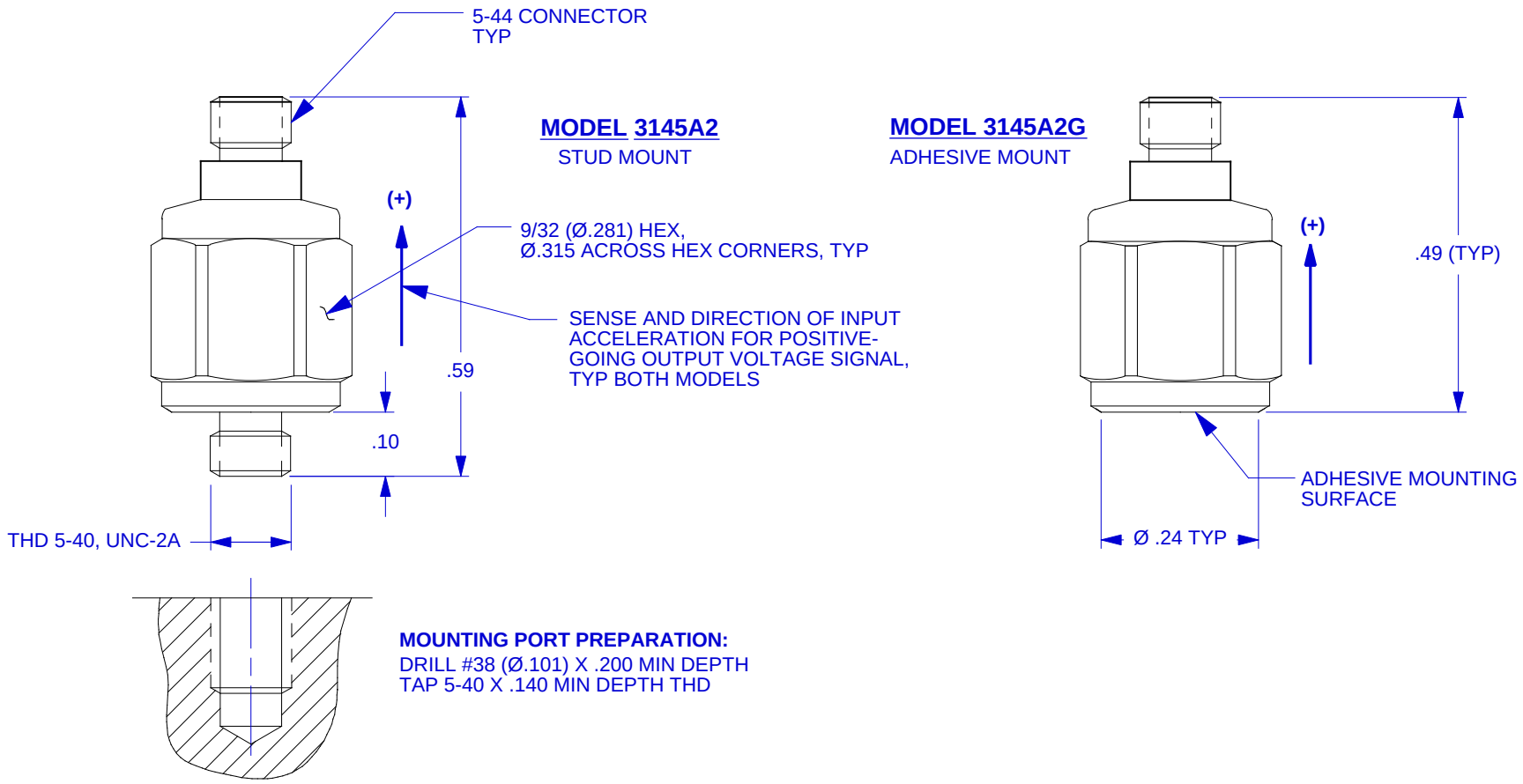

MOUNTING PORT PREPARATION:
DRILL #38 (Ø.101) X .200 MIN DEPTH
TAP 5-40 X .140 MIN DEPTH THD

5. SUGGESTED ADHESIVE TYPE FOR MODEL 3145A2G-CYANOACRYLATE "INSTANT" BOND.
4. TO INSTALL MOD 3145A2, TORQUE IN PLACE WITH 10 OZ.-INCHES.
3. WEIGHT-MOD 3145A2-2.3 GRAMS., MOD 3145A2G-2.1 GRAMS
2. SEAL-HERMETIC, ALL WELDED.
1. MATERIAL: TITANIUM ALLOY.

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
TOLERANCE: .XXX = ± .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 4X	REV -	DATE -	ECN -			
DATE 3/24/03	PART NO.					
DRAWN N.C.	CHECKED R.A.	MAT'L				
APPROVED	NEXT ASSEMBLY	USED ON 3145A2 & 3145A2G				

TITLE
OUTLINE/INSTALLATION DRAWING
MODELS 3145A2 & 3145A2G

DWG NO. **127-3145A2**

SHEET 1 OF 1

SPECIFICATIONS
MODELS 3145A2 & 3145A2G ACCELEROMETERS

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT (Model 3145A2/3145A2G)	2.3/2.1	Grams
SIZE, HEX x HEIGHT (Height does not include mtg. stud)	.281 (9/32) x .49	Inches
MOUNTING PROVISION (Model 3145A2/3145A2G)	5-40 integral stud/adhesive mount	
CONNECTOR, TOP MOUNTED	5-44	Coaxial
MATERIAL, HOUSING AND CONNECTOR	300 Series Stainless Steel	
ELEMENT STYLE	Quartz planar shear	
PERFORMANCE		
SENSITIVITY, ± 10% [1]	5.0	mV/G
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 1000	G's
FREQUENCY RANGE, ± 5%	0.5 to 10k	Hz
RESONANT FREQUENCY, NOM.	45	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.07	G's RMS
LINEARITY [2]	± 1%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.001	G's/μσ @ 250 μσ
ENVIRONMENTAL		
MAXIMUM VIBRATION/SHOCK	1000/3000	± G's/G's PEAK
TEMPERATURE RANGE	-60 to +300	^{o}F
SEAL, HERMETIC	Glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.04	%/^{o}F
ELECTRICAL		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +9 VOLTS NOM.	+8 to +10	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
CASE GROUNDING	Case is grounded to electrical power ground	

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.
[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.
[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.