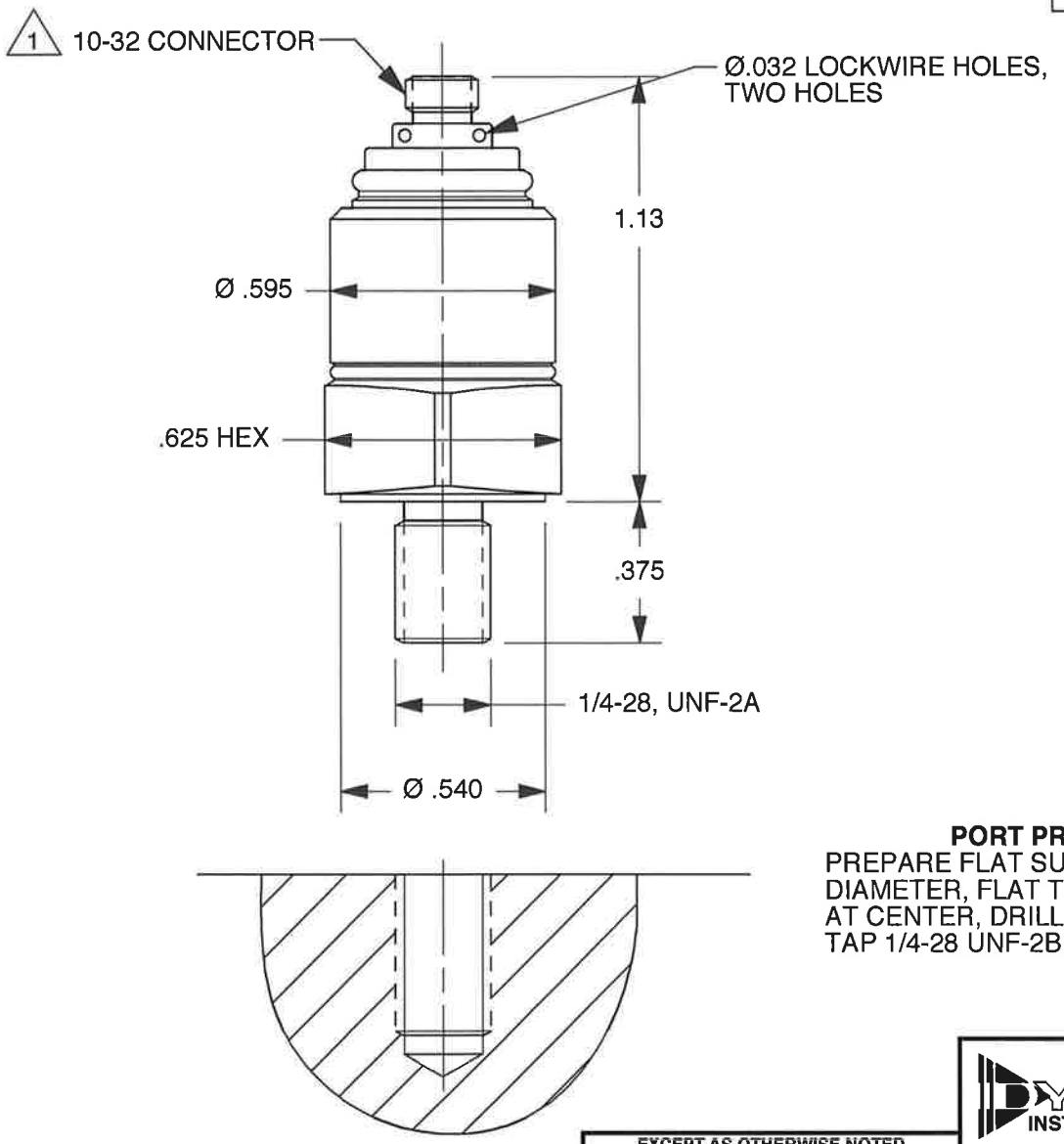
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
-	-	INITIAL RELEASE-	NC/5-13-99	MP	



AGT Absolute Gauge Technologies™
Presented by: Absolute Gauge Technologies
sales@absolutegauge.com; www.absolutegauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008

PORT PREPARATION:
PREPARE FLAT SURFACE OVER .560 MIN.
DIAMETER, FLAT TO .0005 TIR.
AT CENTER, DRILL #3 (Ø.213) X .475 DEEP, MIN.
TAP 1/4-28 UNF-2B X .425 DEEP, MIN.

1 THE CONNECTOR SHELL (SIG/PWR GROUND) IS ISOLATED FROM THE BODY OF THE ACCELEROMETER BY > 10 MEGOHMS.

EXCEPT AS OTHERWISE NOTED
ALL DIMENSIONS IN INCHES
TOLERANCE: .XXX = ± .005 .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.

MASTER
ONLY IF IN RED

SCALE 2X	DESIGN N.C.	DATE 5/13/99	-	-		
DRAWN N.C.	DATE 5/13/99	PART NO. MODEL 3045A				
CHECKED R.A.	DATE 5/13/99	MAT'L				REV -
APPROVED	DATE	NEXT ASSEMBLY	USED ON 3045A			

TITLE
OUTLINE/INSTALLATION DRAWING, MODEL 3045A

DWG NO. **127-3045A**

SHEET 1 OF 1

SPECIFICATIONS
MODEL 3045A LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	20	Grams
SIZE, HEX x HEIGHT	.625 x 1.2	Inches
MOUNTING PROVISION	1/4-28 UNF-2A X .375 long, integral stud	
CONNECTOR, AXIALLY MOUNTED	10-32	Coaxial
MATERIAL, BASE, CAP & CONNECTOR	300 Series	Stainless Steel
PERFORMANCE		
SENSITIVITY, ±5% [1]	5	mV/G
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 1000	G's
FREQUENCY RANGE, ± 3db	1.6 to 2500	Hz
FILTER ROLLOFF RATE	12	db/OCTAVE
FILTER CORNER FREQUENCY	2500	Hz
RESONANT FREQUENCY	>35	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.007	G's RMS
LINEARITY [2]	± 1%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.002	G's/με @ 250 με
ENVIRONMENTAL		
MAXIMUM VIBRATION/SHOCK	1000/2000	± G's/G's PEAK
TEMPERATURE RANGE	-320 to +300	^{o}F
SEAL, HERMETIC	Glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/^{o}F
LOOSE PARTICLE DETECTION, VIBRATION/SHOCK	5 to 10/200	G's/G's Peak
ELECTRICAL		
SUPPLY CURRENT/COMPLIANCE VOLTAGE [3]	2 to 4/+28	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE	+7.5 to +9.5	VDC
DISCHARGE TIME CONSTANT	0.1 – 1.0	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Gigohms, min.

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.
[2] Measured using zero-based best straight line method, %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.