Ø 2.00

3/8-16 UNC X .300 DEEP MOUNTING HOLE

1.90 ACROSS FLATS (REF)

WRENCH FLATS, TYP 2
1.90 ACROSS FLATS

Ø 1.50

1.25

.75

.58

MOUNTING STEM
THREADED 9/16-12 UNC-2A

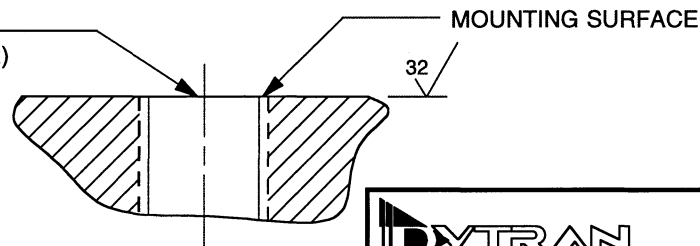10-32 UNF COAXIAL CONNECTOR

Ø 1.66

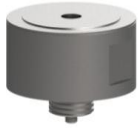MOUNTING SURFACE

MOUNTING PREPARATION
PREPARE FLAT SURFACE (TO .001 TIR)
NEXT DRILL 39/64 (Ø.609) THRU
TAP 9/16-12 UNC-2B X THRU

32

1. MATERIAL, HOUSING & CONNECTOR HOUSING:
300 SERIES STAINLESS STEEL. TOP AND
BOTTOM SURFACES, 17-4 PH ST. STEEL
2. WEIGHT - 460 GRAMS
3. TORQUE TO 25 LB-FT AT INSTALLATION USING
WRENCH ON WRENCH FLATS ONLY.
4. DO NOT APPLY IMPACT LOADS TO FORCE
SENSOR WITHOUT IMPACT CAP, MODEL 6217
OR EQUIVALENT. CONSULT FACTORY FOR
SPECIAL IMPACT CAPS FOR YOUR
PARTICULAR APPLICATION.

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	1X	REV	DATE	ECN		
DATE	1/25/02	PART NO.	MODEL 1060C			
DRAWN	CHECKED	MAT'L				
N.C.	R.A.					
APPROVED	1-25-0	NEXT ASSEMBLY		USED ON		

TITLE
**OUTLINE/INSTALLATION DRAWING
FORCE SENSOR, MODEL 1060C**

DWG NO.
127-1060C

SHEET   1   OF   1

Model Number 1060C	PERFORMANCE SPECIFICATION	Doc No PS1060C
	Force Sensors, Charge Mode	REV A, ECN 12920, 08/23/16

• **DYNAMIC FORCE SENSOR**
• **CHARGE MODE**
• **EXCELLENT LINEARITY**

This family also includes:

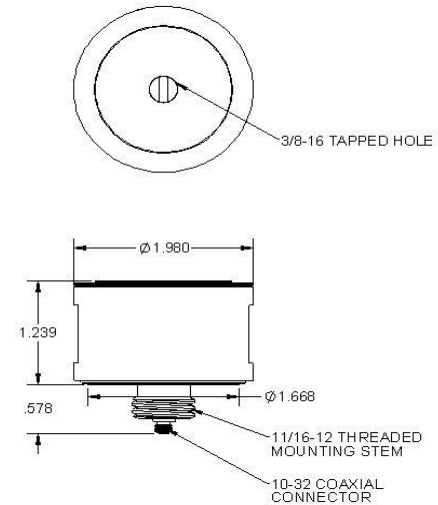| Model	Sensitivity (mV/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)

Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:
1) Accredited Calibration Certificate (ISO 17025)
2) MOD 6232 3/8-16 MOUNTING STUD

Notes:
[1] **Absolute maximum tension. Do not exceed in any case!**
[2] Percent of full scale or any lesser range, zero based best-fit sraight line method.

		ENGLISH		SI	
PHYSICAL					
Weight, Max.		16.10	oz	460	grams
Connector	Type	Coaxial		Coaxial	
	Thread	10-32		10-32	
Housing	Material	Stainless steel		Stainless steel	
	Isolation	Case grounded		Case grounded	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression	
PERFORMANCE					
Sensitivity, +/-15%		-9	pC/Lb F	-2.02	pC/N
Working Compression Range		25000	Lbs.Force	111200	N
Maximum Compression		60000	Lbs.Force	266880	N
Working Tension Range		500	Lbs.Force	2224	N
Maximum Tension [1]		1000	Lbs.Force	4448	N
Linearity [2]		± 1	% F.S.	± 1	% F.S.
Mounted Resonance (Unloaded)		75	kHz	75	kHz
Stiffness		50	Lb/µin	8.66	kN/µm
ENVIRONMENTAL					
Coefficient Of Thermal Sensitivity		0.01	%/°F	0.02	%/°C
Operating Temperature		-100 to +500	°F	-73 to +260	°C
Maximum Vibration		± 3000	g's,Peak	± 29400	m/s^2 Peak
Maximum Shock		5,000	g's,Peak	49,000	m/s^2 Peak
Environmental Seal		Welded/Epoxy		Welded/Epoxy	
ELECTRICAL					
Capacitance, Nom		250	pF	250	pF
Insulation Resistance		1.00E+12	Ω	1.00E+12	Ω

3/8-16 TAPPED HOLE

Ø1.980
1.239
.578
Ø1.668
11/16-12 THREADED MOUNTING STEM
10-32 COAXIAL CONNECTOR

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1060C for more information.