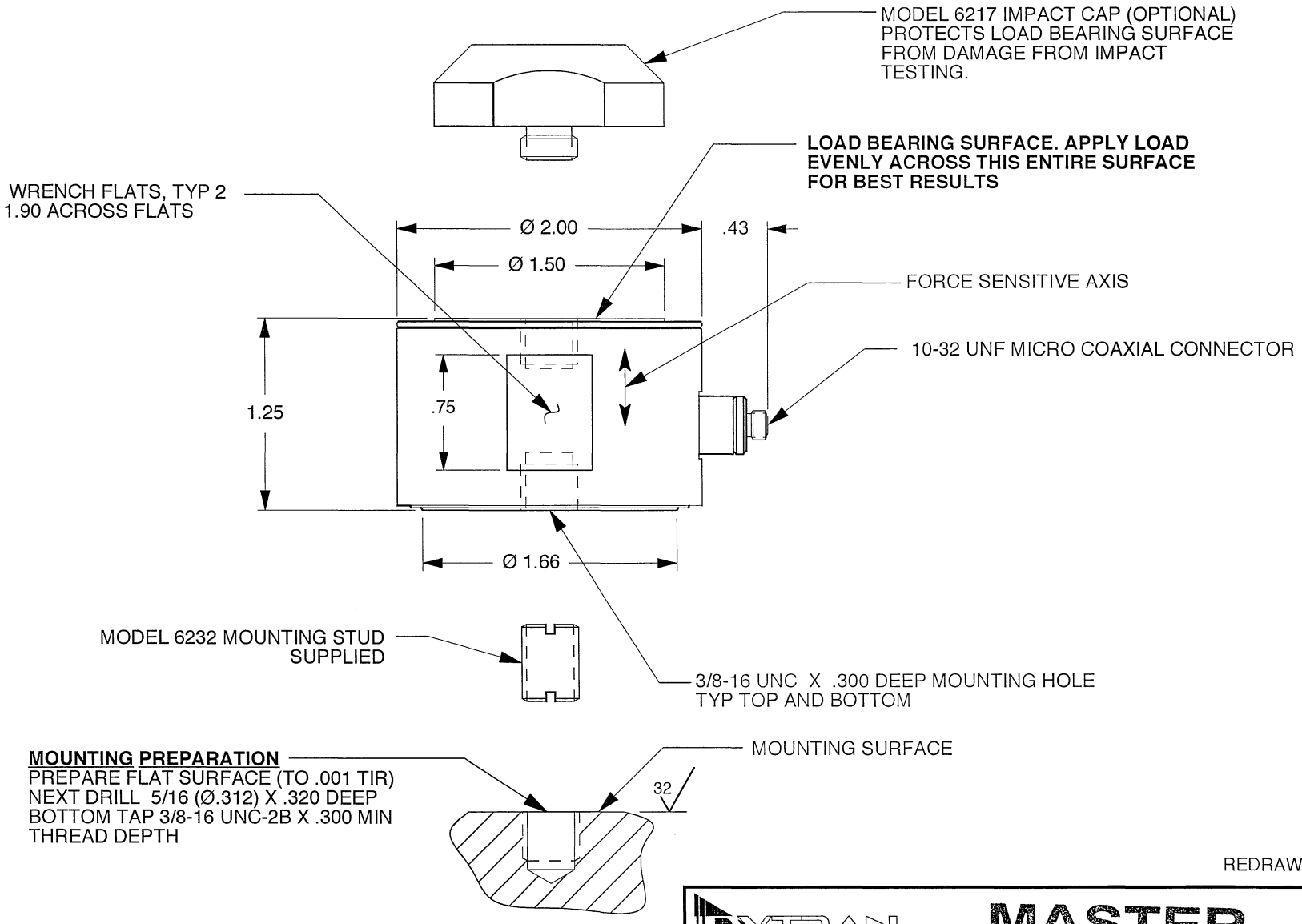


REDRAWN ON CAD 9-9-96

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.
3. TORQUE TO 20-25 LB-FT AT INSTALLATION USING WRENCH ON WRENCH FLATS ONLY.
2. WEIGHT - 420 GRAMS
1. MATERIAL, HOUSING & CONNECTOR HOUSING: 300 SERIES STAINLESS STEEL. TOP AND BOTTOM SURFACES, 17-4 PH ST. STEEL

DYTRAN INSTRUMENTS, INC.

MASTER
ONLY IF IN RED CHATSWORTH, CA.

SCALE 1X		REV	DATE	ECN		
DATE 12/19/85		PART NO. 1061V				
DRAWN N.C.	CHECKED N.C.	MAT'L				
APPROVED N.C. 05/17/05		NEXT ASSEMBLY		USED ON		

TITLE
OUTLINE/INSTALLATION DRAWING
FORCE SENSOR, SERIES 1061V

DWG NO. **127-1061V**

SHEET 1 OF 1

Model Number 1061V5	PERFORMANCE SPECIFICATION	Doc No PS1061V5
	Force Sensors, IEPE	REV B, ECN 15074, 05/13/19

- **DYNAMIC FORCE SENSOR**
- **VOLTAGE MODE**
- **EXCELLENT LINEARITY**

This family also includes:

Model	Sensitivity (mV/Lb)	Range (LbsF) Compressive, Tensile	Max Force (LbsF) Compressive, Tensile	Discharge Time Constant (Sec)
1061V1	10	500, 500	10000, 1000	150
1061V2	5	1000, 1000	20000, 1000	300
1061V3	1	5000, 1000	30000, 1000	1500
1061V4	0.5	10000, 1000	40000, 1000	2000
1061V6	0.1	50000, 1000	60000, 1000	2000

		ENGLISH		SI	
PHYSICAL					
Weight, Max.		15.82	oz	452	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, +/-10%		0.2	mV/Lb	0.04	mV/N
Compression Range		25000	Lbs.Force	111200	N
Maximum Compression , +/-5%		50000	Lbs.Force	222400	N
Tension Range		1000	Lbs.Force	4448	N
Maximum Tension [1], +/-5%		1000	Lbs.Force	4448	N
Resolution		.35	Lb. RMS	1.55680	N RMS
Linearity [2]		± 1	% Full Scale	± 1	% Full Scale
Mounted Resonance (Unloaded)		≥ 75	kHz	≥ 75	kHz
Stiffness		50	Lb/µin	8.66	kN/µm
ENVIRONMENTAL					
Coefficient Of Thermal Sensitivity		0.03	%/°F	0.05	%/°C
Operating Temperature		-100 to +250	°F	-73 to +121	°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		Epoxy		Epoxy	
ELECTRICAL					
Supply Current [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage		18 to 30	VDC	18 to 30	VDC
Discharge Time Constant, Min.		2000	Seconds	2000	Seconds
F.S. Output Voltage		5	Volts	5	Volts
Output Impedance		100	Ω	100	Ω
Bias Voltage		7.5 to 9.5	VDC	7.5 to 9.5	VDC

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

Supplied Accessories:

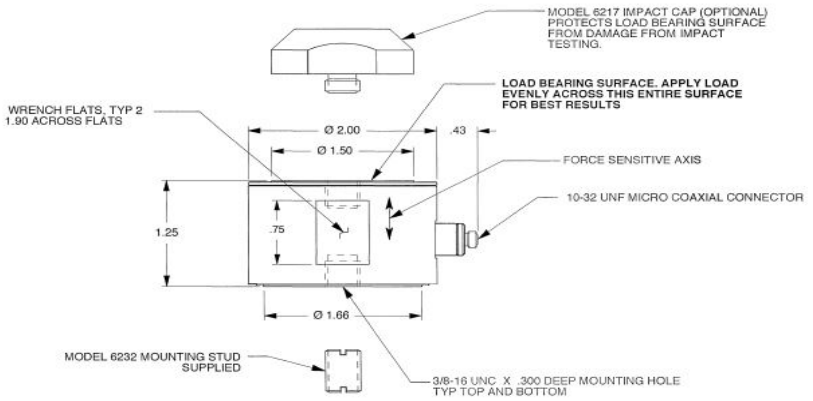
1) Accredited Calibration Certificate (ISO 17025)
2) MOD 6232 MOUNTING STUDS (2)

Available Accessories:

1) MOD 6217 STAINLESS STEEL IMPACT CAP

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.
[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.
[4] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1061V for more information.

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