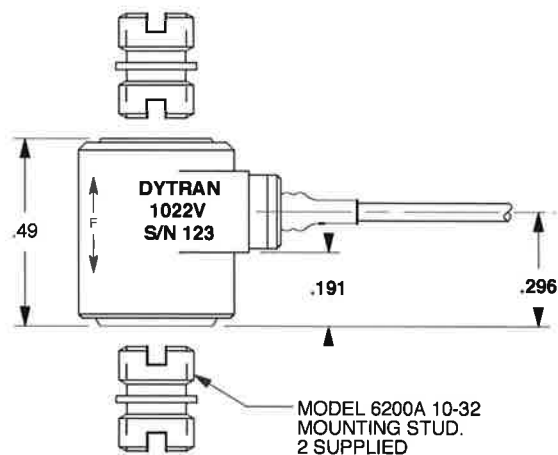
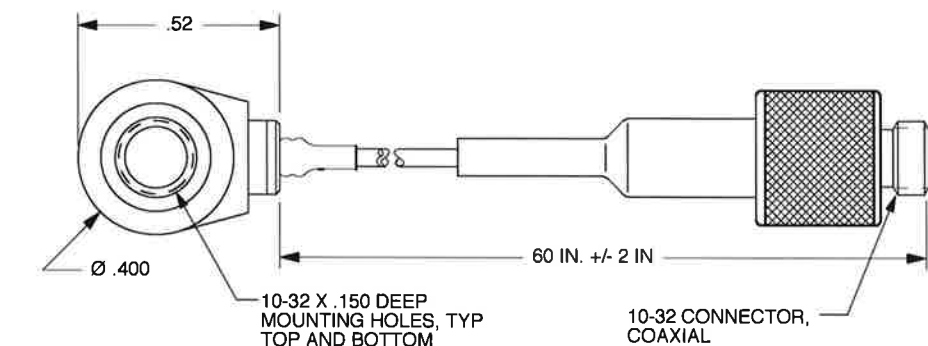
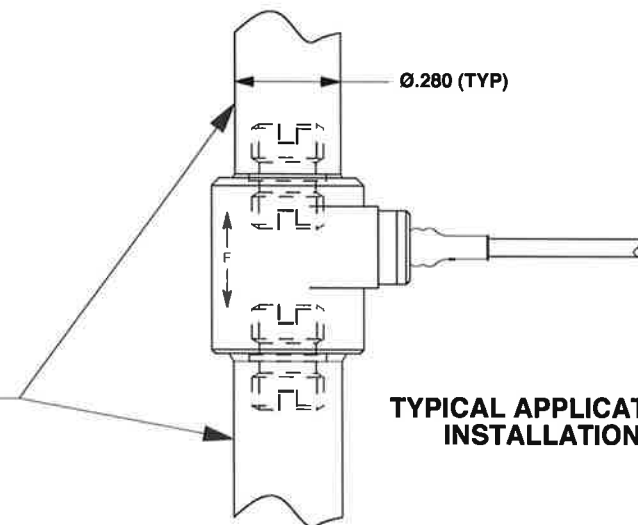


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6092	INITIAL RELEASE	NC/6-30-10	EP	DV
B	11370	REVISED CONNECTOR VIEW	RA/10-21-14	<i>EP</i>	<i>LD</i>



DRIVING RODS (STINGERS)
 TO FORCE EXCITER AND TO
 DRIVEN SPECIMAN



**TYPICAL APPLICATION
 INSTALLATION**

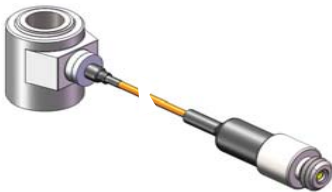
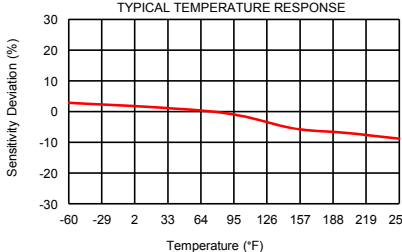
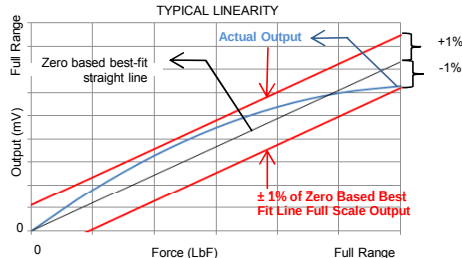
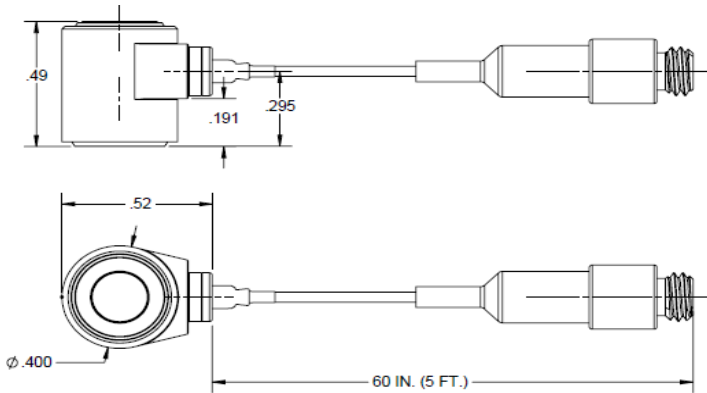


DYTRAN 6742

MODEL 6742
 INSTALLATION/REMOVAL
 TOOL, SUPPLIED

- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND FEET.
- WEIGHT: LESS CABLE, 4.2 GRAMS.
- NOMINAL SENSITIVITY: 100 mV/Lb. COMPRESSION PRODUCES POSITIVE-GOING OUTPUT VOLTAGE.
- HOUSING AND LOAD BEARING SURFACES ARE Ti 6Al-4V TITANIUM ALLOY.

DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSORTH, CA.	
SCALE 2X	DESIGN N.C.	DATE 7-22-09			
DRAWN N.C.	DATE 7-22-09	PART NO. MODEL 1022V			
CHECKED E.P.	DATE 10-29-10	MAT'L SEE NOTES	REV B		
APPROVED D.V.	DATE 11-1-10	NEXT ASSEMBLY	USED ON 1022V		
TITLE OUTLINE/INSTALLATION DRAWING, MODEL 1022V IEPE FORCE SENSOR			DWG NO. 127-1022V		
SHEET 1 OF 1					

Model Number 1022V		PERFORMANCE SPECIFICATION				Doc No PS1022V																					
		MINIATURE LOW MASS IEPE FORCE SENSORS				REV C, ECN 11370 , 10/20/14																					
		• MINIATURE DYNAMIC FORCE SENSOR • LOW MASS • EXCELLENT LINEARITY																									
		ENGLISH		SI																							
PHYSICAL																											
Weight (less cable)		0.16	oz	4.50	grams																						
Size Height X Diameter		0.49 x 0.40	Inches	12.44 x 10.16	mm																						
Connector [1]	Type	10-32		10-32																							
Housing	Material	Ti 6Al-4V		Ti 6Al-4V																							
	Material Isolation	Ti 6Al-4V		Ti 6Al-4V																							
Mounting Provision		Case grounded		Case grounded																							
Sensing Element	Material	[2]		[2]																							
	Mode	Quartz		Quartz																							
		Compression		Compression																							
PERFORMANCE																											
Sensitivity, ± 10 %		100	mV/LbF	22.5	mV/N																						
Range, Full Scale		± 50	LbF	± 222	N																						
Stiffness		26	Lb/μin	2039	kN/μm																						
Linearity [3]		± 1	% Full Scale	± 1	% Full Scale																						
Max Shock, Unloaded		5000	g's	5000	g's																						
Max Vibration, Unloaded		± 2500	g's	± 2500	g's																						
Mounted Resonant Frequency, Unloaded		50	kHz	50	kHz																						
Noise Resolution		0.0004	LbF rms	0.0018	N rms																						
Strain Sensitivity @250/μs		0.006	LbF/μs	0.027	N/μs																						
Transverse Sensitivity, Max		5	%	5	%																						
ELECTRICAL																											
Supply Current Range [4]		2 to 20	mA	2 to 20	mA																						
Compliance Voltage Range		18 to 30	Volts	18 to 30	Volts																						
Output Impedence, Typ		150	Ω	150	Ω																						
Bias Voltage		+7.5 to +9.5	VDC	+7.5 to +9.5	VDC																						
Discharge Time Constant		>100	Sec	>100	Sec																						
F.S.Output Voltage, Nom		5	Volts, peak	5	Volts, peak																						
Output Signal Polarity	Compression	Positive		Positive																							
	Tension	Negative		Negative																							
ENVIRONMENTAL																											
Operating Temperature		-100 to +250	°F	-73 to +121	°C																						
Environmental Seal		Welded/Epoxy		Welded/Epoxy																							
		This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/LbF)</th><th>Range (LbF)</th><th>Linearity (% Full Scale)</th><th>Oper. Temp(°F)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>						Model	Sensitivity (mV/LbF)	Range (LbF)	Linearity (% Full Scale)	Oper. Temp(°F)															
Model	Sensitivity (mV/LbF)	Range (LbF)	Linearity (% Full Scale)	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) Model # 6200 Be Cu Mounting Stud (2) 3) 6742 Removal tool Notes: [1] Connector mounted at end of 5 FT integral cable [2] 10-32 tapered hole at top and bottom [3] Percent of full scale or of any lesser range, zero based best fit straight line method. [4] Do not apply power to this unit without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier. [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.																									
		TYPICAL TEMPERATURE RESPONSE  TYPICAL LINEARITY 																									
																											
		Units on the line drawing are in inches, Refer to 127-1022V for more information.																									



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com
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