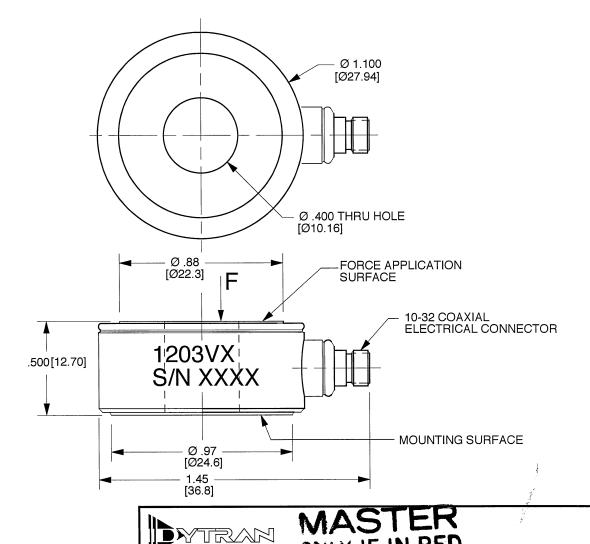
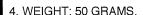
DYTRAN PROPRIETARY AND CONFIDENTIAL				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF				
DYTRAN INSTRUMENTS, INC. AND ANY REPRODUCTION IN PART OR AS A WHOLE OR ANY OTHER DISSEMINATION OF THIS INFORMATION WITHOUT THE				
WRITTEN PERM	ISSION OF DYTRAN INS	TRUMENTS, INC.	IS PROHIBITED.	
MODEL	SENSITIVITY	TC (SEC)	RANGE F.S.	
WODEL	OLIVOITIVITI	10 (010)	TIANGE 1.0.	
1203V1	50 mV/Lb	90	100 Lb	
1203V2	10 mV/Lb	450	500 Lb	
120372	10 IIIV/LD	450	300 Lb	
1203V3	5 mV/Lb	850	1000 Lb	
1203V4	1 mV/Lb	1800	5000 Lb	
1203V5	0.5 mV/Lb	1800	10,000 Lb	

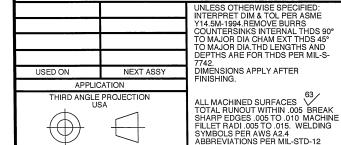
REVECNDESCRIPTIONBY/DATECHKAPPRA8074UPDATED FORMATRA, 11/17/11J5





- 3. ENVIRONMENTAL SEAL: HERMETIC.
- 2. MATERIAL: LOAD-BEARING SURFACES: HARDENED 17-4 PH STAINLESS STEEL. HOUSING AND CONNECTOR: 300 SERIES STAINLESS STEEL.
- 1. POLARITY: POSITIVE-GOING WITH COMPRESSION.

NOTES: UNLESS OTHERWISE SPECIFIED



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES. DIMENSION
IN BRACKETS [] ARE IN MILLIMETERS.
TOLERANCES ARE:
INCHES METRIC ANGLES
.XX ±03 .X ±0.8 ±1°
.XXX ±010 .XX ±0.25

DO NOT SCALE DRAWING

FINISH

| DESIGN | DATE | 10-10-07 | | DATE | 10-10-07 | | DATE | 12/17/01 | PART NO. | MODEL SERIES 1203V | DATE | 12/17/01 | PART NO. | MODEL SERIES 1203V | DATE | 08/01/06 | MAT'L | O8/01/06 | MAT'L | USED ON | N.C. | O8/01/06 | O8/01/0

INSTRUMENTS, INC.

ITLE

ONLY IF IN RED

OUTLINE/INSTALLATION DRAWING, MODEL SERIES 1203V FORCE SENSORS

DWG NO. 127-1203V

SERIES 1203V

Α

CHATSWORTH, CA.

SHEET 1 OF 1

Model Number 1203V2	PERFORMANCE SPECIFICATION	Doc No PS1203V2
	Force Sensors, IEPE	REV C, ECN 15472, 12/13/19



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

-wwx		ENGLIS	Н	SI	
PHYSICAL				L	
Weight, Max.		1.75	oz	50	grams
Connector [1]	Type	10-32		10-32	
	Material	Stainless steel		Stainless steel	
Housing	Material	Stainless steel		Stainless steel	
	Isolation	Case grounded		Case grounded	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression]
PERFORMANCE					
Sensitivity, ± 10 %		10	mV/Lb	2.47	mV/N
Compression Range		500	Lb Force	2.22	kN
Maximum Compression		1,000	Lb Force	4.45	kN
Discharge Time Constant		450	Seconds	450	Seconds
Broadband Resolution		0.00014	Lb, rms	6.23E-07	kN, rms
Maximum Unloaded Shock		10,000	g's	98,100	m/s^2
Maximum Unloaded Vibration		5,000	g's,Peak	49,050	m/s^2 Peak
Linearity [2]		± 1	% Full Scale	± 1	% Full Scale
Resonant Frequency		>75	kHz	>75	kHz
Stiffness		20	Lb/µin	3.46	kN/µm
Preload		2000	Lb Force	8.90	kN
ENVIRONMENTAL					
Coefficient Of Thermal Sensiti	vity	0.03	%/°F	0.05	%/°C
Operating Temperature		-100 to +250	°F	-73 to +121	°C
Environmental Seal		Hermetic		Hermetic]
ELECTRICAL					

2 to 20

18 to 30

5

<100

7.5 to 9.5

mΑ

VDC

Volts

Ω

VDC

2 to 20

18 to 30

5

<100

7.5 to 9.5

		This	family	also	includes:
--	--	------	--------	------	-----------

Model	Sensitivity (mV/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Discharge T.C. (sec)		
1203V1	50	100	200	90		
1203V3	5	1,000	5,000	850		
1203V4	1	5,000	10,000	1800		
1203V5	0.5	10,000	15,000	1800		

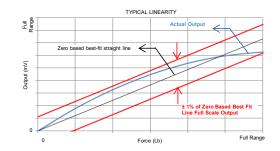
Please refer to the performance specifications of the products in this family for detailed description

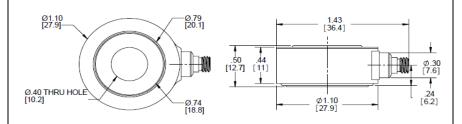
Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes

- [1] Radially mounted with 10-32 receptacle micro coaxial connector
- [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 no 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 127-1203V for more information.



Supply current

Voltage Range [3]

Output Impedence

Bias Voltage

Full Scale Output Voltage

mΑ

VDC

Volts

Ω

VDC