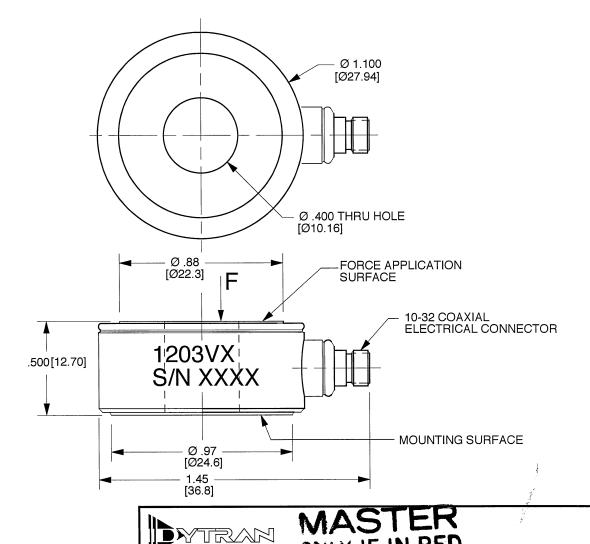
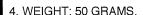
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MODEL	SENSITIVITY	TC (SEC)	RANGE F.S.	
WODEL	OLIVOITIVITI	10 (020)	TIANGE 1.0.	
1203V1	50 mV/Lb	90	100 Lb	
1203V2	10 mV/Lb	450	500 Lb	
120372	10 IIIV/LD	450	300 Lb	
1203V3	5 mV/Lb	850	1000 Lb	
1203V4	1 mV/Lb	1800	5000 Lb	
1203V5	0.5 mV/Lb	1800	10,000 Lb	

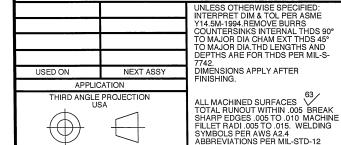
REVECNDESCRIPTIONBY/DATECHKAPPRA8074UPDATED FORMATRA, 11/17/11J5





- 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 1203V5	PERFORMANCE SPECIFICATION	
	Force Sensors, IEPE	REV C, ECN 15472, 12/13/19



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

8/N: XXXX	
PHYSICAL	
Weight, Max.	
Connector [1]	Type
	Material
Housing	Material
	Isolation
Sensing Element	Material

Mode

ENGLISH	l
	1
1.75	OZ
10-32	
Stainless steel	
Stainless steel	
Case grounded	
Quartz	
Compression	
	Stainless steel Stainless steel Case grounded Quartz

SI	
50	grams
10-32	
Stainless steel	
Stainless steel	
Case grounded	
Quartz	
Compression	

PERFORMANCE

Sensitivity, ± 10 %
Compression Range
Maximum Compression
Discharge Time Constant
Broadband Resolution Maximum Unloaded Shock Maximum Unloaded Vibration Linearity [2] Resonant Frequency
Stiffness Preload

0.5	IIIV/LD
10,000	Lb Force
15,000	Lb Force
1,800	Seconds
0.00014	Lb, rms
10,000	g's
5,000	g's,Peak
± 1	% Full Scal
>75	kHz
20	Lb/µin
2000	Lb Force
•	

0.12	mV/N
44.48	kN
66.72	kN
1800	Seconds
6.23E-07	kN, rms
98,100	m/s^2
49,050	m/s^2 Peak
± 1	% Full Scale
>75	kHz
3.46	kN/μm
8.90	kN
•	

ENVIRONMENTAL

Coefficient Of Thermal Sensitivity
Operating Temperature
Environmental Seal

0.03	%/°F
-100 to +250	°F
Hermetic	

0.05
-73 to +121
Hermetic

ELECT	RICAL
VlaguS	current

Voltage Range [3]
Full Scale Output Voltage
Output Impedence
Bias Voltage

2 to 20	mA
18 to 30	VDC
5	Volts
<100	Ω
7.5 to 9.5	VDC

2 to 20	mA
18 to 30	VDC
5	Volts
<100	Ω
7.5 to 9.5	VDC
	_

This family also includes:

Model	Sensitivity (mV/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Discharge T.C. (sec)
1203V1	50	100	200	90
1203V2	10	500	1,000	450
1203V3	5	1,000	5,000	850
1203V4	1.0	5,000	10,000	1800

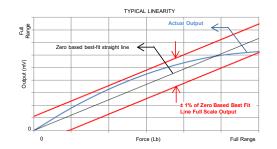
Please refer to the performance specifications of the products in this family for detailed description

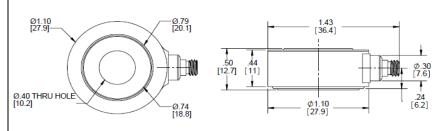
Supplied Accessories:

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



%/°C