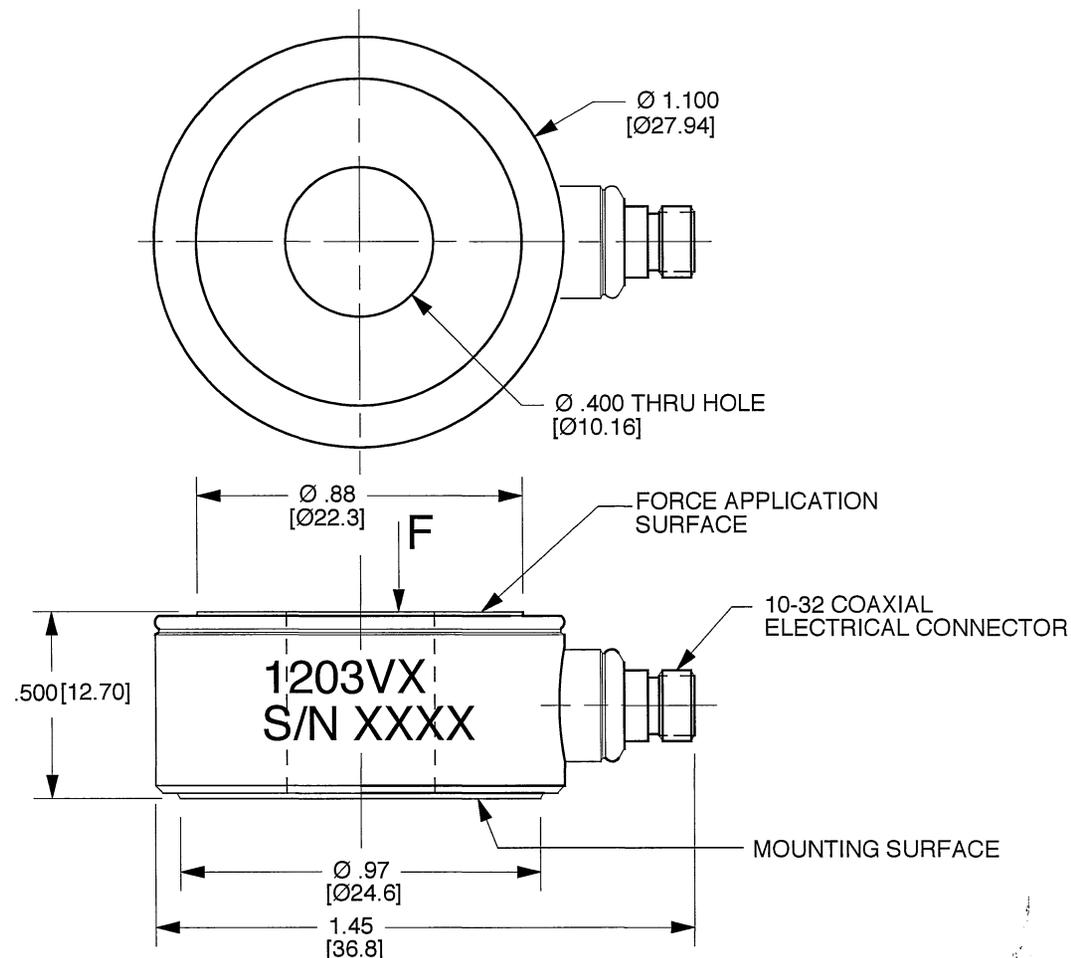


DYTRAN PROPRIETARY AND CONFIDENTIAL			
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MODEL	SENSITIVITY	TC (SEC)	RANGE F.S.
1203V1	50 mV/Lb	90	100 Lb
1203V2	10 mV/Lb	450	500 Lb
1203V3	5 mV/Lb	850	1000 Lb
1203V4	1 mV/Lb	1800	5000 Lb
1203V5	0.5 mV/Lb	1800	10,000 Lb

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	8074	UPDATED FORMAT	RA, 11/17/11	JS	<i>[Signature]</i>



4. WEIGHT: 50 GRAMS.
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

USED ON	NEXT ASSY	UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M-1984 REMOVE BURRS COUNTERSINKS INTERNAL THDS 90° TO MAJOR DIA CHAM EXT THDS 45° TO MAJOR DIA THD LENGTHS AND DEPTHS ARE FOR THDS PER MIL-S- 7742. DIMENSIONS APPLY AFTER FINISHING.
APPLICATION		
THIRD ANGLE PROJECTION USA		ALL MACHINED SURFACES <input checked="" type="checkbox"/> TOTAL RUNOUT WITHIN .005 BREAK SHARP EDGES .005 TO .010 MACHINE FILLET RADI .005 TO .015 WELDING SYMBOLS PER AWS A2.4 ABBREVIATIONS PER MIL-STD-12

CONTRACT NO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [] ARE IN MILLIMETERS. TOLERANCES ARE:		
INCHES .XX ± .03 .XXX ± .010	METRIC .X ± 0.8 .XX ± 0.25	ANGLES ± 1°
FINISH		
DO NOT SCALE DRAWING		

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE 2X	DESIGN NC	DATE 10-10-07			
DRAWN NC	DATE 12/17/01	PART NO. MODEL SERIES 1203V			
CHECKED R.A.	DATE 08/01/06	MAT'L -			REV A
APPROVED N.C.	DATE 08/01/06	NEXT ASSEMBLY -	USED ON SERIES 1203V		
TITLE OUTLINE/INSTALLATION DRAWING, MODEL SERIES 1203V FORCE SENSORS				DWG NO. 127-1203V	
				SHEET 1 OF 1	



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

PHYSICAL

Weight, Max. Connector [1]
 Housing
 Sensing Element

Type
 Material
 Material
 Isolation
 Material
 Mode

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

PERFORMANCE

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

50	mV/Lb	12.36	mV/N
100	Lb Force	0.44	kN
200	Lb Force	0.89	kN
90	Seconds	90	Seconds
0.00014	Lb, rms	6.23E-07	kN, rms
10,000	g's	98,100	m/s ²
5,000	g's, Peak	49,050	m/s ² Peak
± 1	% Full Scale	± 1	% Full Scale
>75	kHz	>75	kHz
20	Lb/μin	3.46	kN/μm

ENVIRONMENTAL

Coefficient Of Thermal Sensitivity
 Operating Temperature
 Environmental Seal

0.03	%/°F	0.05	%/°C
-100 to +250	°F	-73 to +121	°C
Hermetic		Hermetic	

ELECTRICAL

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

2 to 20	mA	2 to 20	mA
18 to 30	VDC	18 to 30	VDC
5	Volts	5	Volts
<100	Ω	<100	Ω
7.5 to 9.5	VDC	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)
1203V2	10	500	1,000	450
1203V3	5	1,000	5,000	850
1203V4	1	5,000	10,000	1800
1203V5	0.5	10,000	15,000	1800

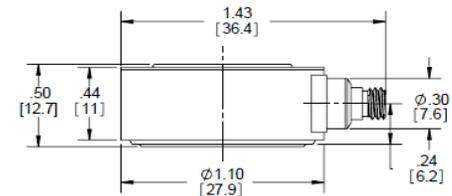
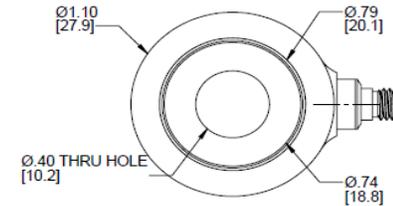
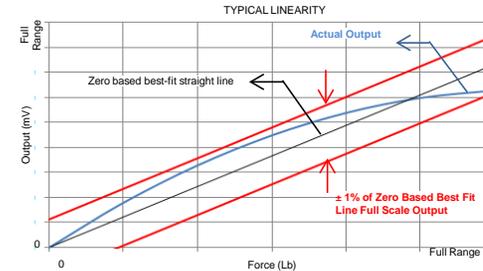
Please refer to the performance specifications of the products in this family for detailed description

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 straight 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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1203V for more information.

