

Model Number
1212V1

PERFORMANCE SPECIFICATION

PS1212V1

Force Sensor, Voltage Mode

REV C, ECN 11664, 01/20/15

grams



• RING STYLE FORCE SENSOR

- LOW PROFILE
- EXCELLENT LINEARITY

ENGLISH

PHYSICAL

Weight, Max (less cable)
Connector [1] Ty
Housing Misser Iso
Sensing Element Misser Iso

Type Material Isolation Material Mode

0.28
BNC
Stainless Steel
Case grounded
Quartz
Compression

OZ	8.0
	BNC
	Stainless Ste
	Case ground
	Quartz
	Compressio

PERFORMANCE

Sensitivity, ± 15 %
Range, Full Scale
Maximum Force
Maximum Unloaded Vibration
Linearity [2]
Resonant Frequency., No Load
Stiffness
Output Polarity for Compression Force
Preload

2.5	mV/LbF
2,000	LbF
3,000	LbF
2,000	g's,Peak
± 1	% Full Scale
75	kHz
160	Lb/µin
Positive	
5000	LbF

%/°F

0.62	mV/N
8.90	kN
13.34	kN
19,600	m/s ² Peak
±1	% Full Scal
75	kHz
27.72	kN/µm
Positive	
22.24	kN

SI

ENVIRONMENTAL

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal

0.03
-60 to +250
Epoxy

0.06	%/°C
-51 to +121	°C
Epoxy	

ELECTRICAL Discharge TC Full Scale Output

Supply Current
Compliance Voltage
Bias Voltage
Output Impdeance
Resolution

>2000	sec
5.0	Volts
2-20	mA
18-30	VDC
7.5-11.5	VDC
<100	Ω
0.012	Lb

>2000	sec
5.0	Volts
2-20	mA
18-30	VDC
7.5-11.5	VDC
<100	Ω
0.031	N

This family also includes:

	Model	Sensitivity (mV/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
	1212V3	1.0	5,000	6,000	-60 to +250
	1212V4	10	500	3,000	-60 to +250

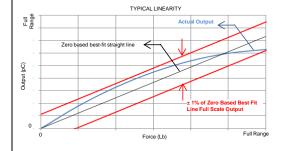
Please, refer to the performance specifications of the products in this family for detailed description

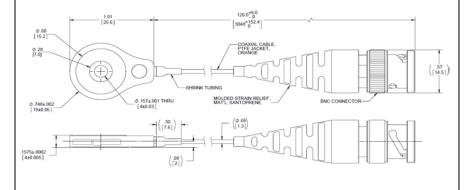
Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes

- [1] Integral cable to the sensor, 10 foot long with BNC connector
- [2] Percent of full scale or any lesser range, Zero based best-fit sraight line method.





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1212V1 for more information.

