

Model Number 1053V4	PERFORMANCE SPECIFICATION											DOC NO PS1053V4		
		DYNAMIC FORCE S					ENSOR						REV A, ECN 11034, 06/25/14	
						This family a	lso include	s <u>:</u>						
		• COMPRESSIVE & TENSILE LOADINGS • EXCELLENT LINEARITY				Model	Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)	
						1053V1	500	10	200	10	200	50	0.00014	
						1053V2	100	50	1,000	50	200	100	0.0007	
						1053V3	50	100	2,000	100	200	500	0.0014	
						1053V5	5	1,000	15,000	200	200	2,000	0.014	
						1053V6	1	5,000	15,000	200	200	2,000	0.07	
						erformance	specifications of	the products in th	nis family for d	etailed descriptio	n.			
PHYSICAL Weight, Max. Connector Material Sensing Element	Material Mode	ENGLISH 1.0 10-32 Stainless Steel Quartz Compression		SI 28 10-32 Stainless Steel Quartz Compression	grams	Supplied Acc 1) Accredited 2) Model 6213 <u>Notes:</u> [1] Absolute [2] Percent of [3] Do not app [4] In the inter	calibration c calibration c 3 steel impar maximum t full scale or by power to est of consta	ertificate (ISO 17 ct cap, Model 656 ension. Do not ( any lesser range this system witho ant product impro	7025) 32 10-32 mountin exceed in any cr e, Zero based bea out current limting ovement, we rese	g stud <b>ase!</b> st-fit straight lir , 20 mA MAX. rve the right to	ne method. To do so will des o change specific	troy the integr ations without	al IC amplifier notice.	
Sensitivity, ± 10 %		10	mV/lbf	2.2	mV/N		٥		TYPICAL LINEARITY					
Maximum Compression		10.000	lbf	44.5	kN		Rang		Actu	al Output	<u>-</u>	)		
Tension Range		200	lbf	890	N		Ē	are based best-fit straight	line					
Maximum Tension [1]		200	lbf	890	N		1	leio based best-in shaight			1% - ۲			
Resolution		0.007	lbf, rms	0.031	N									
Linearity [2]		±1	% Full Scale	±1	% Full Scale		2 							
Stiffness Force Sensor		11.4	lbf/uin	20	kN/um		Outpu							
							1 1% of Zero Based Best Fit Line Full Scale Output							
Maximum Shock, Unloaded		10,000	g pk	98100	m/s <sup>2</sup>		0							
Maximum Vibration, Unloaded		5,000	g pk	49050	m/s <sup>2</sup>		0		Force (Lb)					
Temperature Range		-100 to +250	°F	-73 to +121	°C									
Thermal Coefficient		0.03	%/°F	0.05	%/°C									
		Ероху	1	Ероху	]				40		10-32 T/ .175 DE	APPED HOLE, EP, TYP BOTH	ENDS	
Output Voltage F.S		±5	V	±5	V			-	.40 -					
Output Impedance		<100	Ω	<100	Ω				, <u> </u>		2	<b></b> ▲		
Bias Voltage		7.5 to 9.5	VDC	7.5 to 9.5	VDC	10-32			r					
Compliance Voltage Range		18 to 30	VDC	18 to 30	VDC	CONN	ECTOR					25		
Supply Current Range [3]		2 to 20	mA	2 to 20	mA							1		
Discharge Time Constant, Nom		2000	Sec	2000	_ Sec									
						Units on the line dr	awing are in incl	nes, units in brackets a	re in millimeters. Refe	to 127-1053V for 1	more information.			



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