

Model Number 3120BK	PERFORMANCE SPECIFICATION								DOC NO PS3120BK
	IEPE ACCELEROMETER BACK-TO-BACK CALIBRATION SYSTEM							REV B , ECN 15133, 06/20/19	
			•		This family also inclu		•		
ALL DO NOT	• SYSTEM FOR BACK-T • EXCELLENT LINEARII		ALIBRATION		Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
	ENGLISH		SI						
HYSICAL (SENSOR)	ENGLISH		51		Refer to the performan	ce specifications of the pro	ducts in this family for detailed	I description.	
/eight, Max (Accelerometer)	3.0	oz	85	grams					
onnector	10-32 Coaxial		10-32 Coaxial		Supplied Accessories	<u>s:</u>			
Iounting Provision Top and Bottom Tapped Holes Iaterial (Non-magnetic) Housing and Connector Iement Style	10-32 300 Series Stainless Steel Planar Shear		10-32 300 Series Stainless Steel Planar Shear		1) Accredited calibration certificate (ISO 17025) 2) Model 6200 Mounting Studs, qty 2 3) Model 6201 Mounting Stud, qty 1 4) Model 6213 Adhesive Mounting Base, qty 1				
HYSICAL SPECIFICATIONS (AMPLIFIER/POWER UNIT	Γ)				4) WIDDEI 62 13 AUTIESI	e Mounting Base, qty 1			
/eight, Max (Amplifier / Power Unit)	32	oz	900	grams	Notes:				
ensor/Output Connector	BNC/BNC Coaxial		BNC/BNC Coaxial		[1] Measured at 100 H	z, 1 Grms per ISA RP 37.2	2		
ower cord	6FT 3-Wire w/ Chassis GND		6FT 3-Wire w/ Chassis GND		[2] Measured using zer	o-based straight line meth	nod, % of F.S. or any lesser rar	ge.	
ize (H x W x D) [6]	5.5 x 1.6 x 8.0	inches	140 x 41 x 203	mm	[3] Do not apply power	to this system without cur	rrent limiting, 20 mA MAX. To d	o so will destroy the	
emperature Range	0 to +120	°F	-18 to 48	°C	IC charge amplifier.				
					[4] System calibrated at factory with NIST traceable transfer standard accelerometer weighing 19 grams.				
YSTEM SPECIFICATIONS						er supplied with each syst			
ystem Sensitivity, ± 5% @ 100 Hz [4]	10	mV/G	1.02	mV/m/s ²		= product of weight of test			
equency Response, ±2% [4]	10 to 10,000	Hz	10 to 10,000	Hz	[6] Mounts in available	Model 4200 19-inch wide	equipment rack. Up to 10 units	fit in one rack.	
nearity	±1	% F.S.	±1	% F.S.	[7] In the interest of cor	nstant product improveme	nt, we reserve the right to char	ge specifications without	notice.
ange F.S. for 5V Out	±500	G	±4905	m/s ²	It is the customer's res	ponsibility to validate that	a particular product with the pro-	operties described in the p	product specification
perating Force Range [5]	±40	Force-lb	±178	N	is suitable for use in a	particular application. Para	ameters provided in datasheets	and / or specifications m	ay vary in different
quivalent Electrical Noise, (Broadband)	0.02	Grms	0.20	m/s ² rms	applications and perfor	mance may vary overtime	e. All operating parameters, incl	uding typical parameters,	must be validated
utput Impedance	2	Ohms	2	Ohms	for each customer appl	lication by the customer's	technical experts.		
put Voltage, Power Unit/Sensor	115 / 2.4	Vac / VA	115 / 2.4	Vac / VA	10	TYPICAL LOW FREQUENCY RESPONS	SE	TYPICAL TEMPERATURE RI	ESPONSE
ilter, Low Pass, Active	12	dB/octave	12	dB/octave	s ii		15		
ensor Supply Voltage	+20	VDC	+20	VDC					
ensor Supply Current	2 to 5	mA	2 to 5	mA	≚⊛ -10		IIIII ă °		
					5 1 1 1 1	1111	10 0 0 0 0 0 0 0 0 0 0 0 0 0		
CCELEROMETER MODEL 3120B SPECIFICATIONS	<u> </u>	1	r	2	S S		LUN 15 -15		
ensitivity, ±5% [1]	10	mV/g	1.02	mV/m/s ²	-30 - 1	¹ FREQUENCY (HZ) ¹⁰	100 ⁻²⁰	-8 44 TEMPERATURE	96 148 200
ischarge Time Constant	0.5 to 1.5	Sec	0.5 to 1.5	Sec		FREQUENCY (HZ)		LINFLICATORE	····
oefficent of Thermal Sensitivity	0.03	%/°F	0.05	%/°C		[140.1]	• 7.00 [177.7]	•	
ange F.S	50	g	491	m/s ²			1	len,	
requency Response, ±6%	0.4 to 10,000	Hz	0.4 to 10,000	Hz				C OUTPU	ff JACK,
esonant Frequency	>40	kHz	>40	kHz		SEINSON BIAS VCC DC VOLTMETER MONTONS SEINSON		C SENSO	SR (SNPUT)
quivalent Electrical Noise Floor, Max	0.003	Grms	0.03	m/s ² rms		MONITORIS SENSOR BIAS VOLTAGE		e T me	
ransverse Sensitivity, Max	3	%	3	%	[140.1] 5.52				
train Sensitivity @ 250με	0.002	g/με	0.02	m/s²/με					
utput Impedance	<100	Ohms	<100	Ohms				FU	SE HOLDER
NVIRONMENTAL (SENSOR)						õ Õ	-1		
hock Max	3000	G pk	29430	m/s²					
ibration Max	1000	Ġ	9810	m/s ²	*		THIS VIEW IS WITH OUTER CASE SECTIONED	LINE CORD, 617	SA
emperature Range	-60 to +200	°F	-51 to +93	°C	41	19B POWER UNIT		LINE CORD, 6 FT	$\langle \rangle \rangle$
eal	Ероху	J	Ероху			p017.8] G			\swarrow
LECTRICAL (SENSOR)						[27.31 5.47	,		\sim
upply Current Range [3]	2 to 20	mA	2 to 20	mA					
ompliance Voltage Range	+ 18 to +20	VDC	+ 18 to +20	VDC		3120B STANDARD	MCOEL 4200 10-32 MCOUNTING STUD, 2 PHOVIDED		
ias Voltage	7.5 to 9.5	VDC	7.5 to 9.5	VDC		ACCELEROMETE	R		
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