

Model Number 356B41	TRIAx ICP® SEAT PAD ACCELEROMETER PER ISO 10326-1	Revision: B ECN #: 38243
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 10 g pk	± 98 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 1000 Hz	0.5 to 1000 Hz	[2]
Resonant Frequency	≥ 27 kHz	≥ 27 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 2000 g pk	± 19,620 m/s ² pk	
Temperature Range	+14 to 122 °F	-10 to 50 °C	
Temperature Response	<0.10 %/°F	<0.17 %/°C	[1]
Electrical			
Excitation Voltage	6.5 to 30 VDC	6.5 to 30 VDC	
Constant Current Excitation	0.3 to 10 mA	0.3 to 10 mA	
Output Impedance	≤ 500 Ohm	≤ 500 Ohm	
Output Bias Voltage	2.8 to 4.5 VDC	2.8 to 4.5 VDC	
Discharge Time Constant	1 to 3 sec	1 to 3 sec	
Settling Time(within 10% of bias)	<20 sec	<20 sec	
Spectral Noise(1 Hz)	50 µg/√Hz	490 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	10 µg/√Hz	98 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	4 µg/√Hz	39 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	2 µg/√Hz	20 (µm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Diameter x Width)	7.87 in x 0.472 in	200 mm x 12 mm	
Weight	9.6 oz	272 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	1/4-28 4-Pin Jack	1/4-28 4-Pin Jack	
Cable Length	5 ft	1.5 m	
Cable Type	010 4-cond Shielded	010 4-cond Shielded	
Mounting Thread	5-40 Female	5-40 Female	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Typical.
 [2] Standard calibration to 100 Hz with sensor in mounting pad. Special calibration above 100 Hz available with sensor outside mounting pad.
 [3] Zero-based, least-squares, straight line method.
 [4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 010G05 Cable (1)
 Model 081A90 Mounting stud, 10-32 to 5-40 (1)
 Model ACS-17 NIST Traceable amplitude and phase response calibration from 0.5 to 100 Hz.

Entered: DMW	Engineer: AJA	Sales: WDC	Approved: BAM	Spec Number:
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All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.

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