

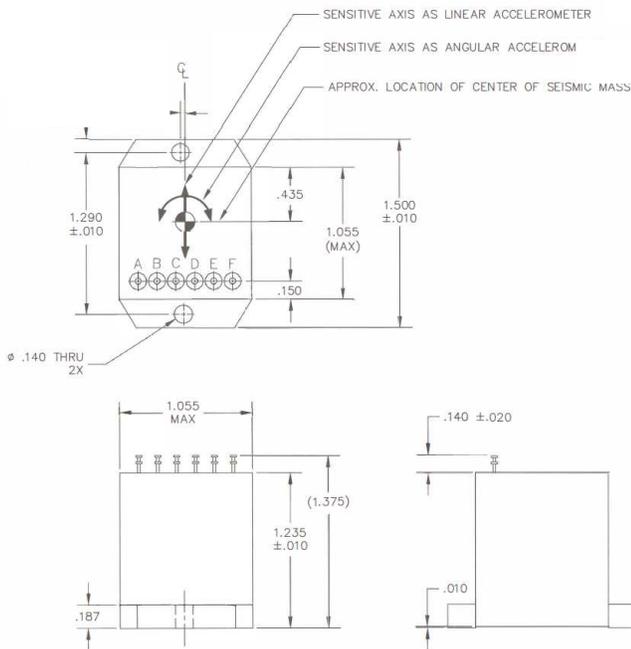
ASMP

Angular Accelerometer

The Jewell ASM Series Angular Accelerometer are configured specifically to yield a combination of miniaturization, high accuracy, and ruggedness. The ASM Series has been designed to minimize thermal errors associated with outdoor applications. The Jewell ASM Series is the highest accuracy sensor of it's class in the world today.

FEATURES:

- Bandwidths to 200 Hz
- 1.05" Cube Housing Size
- ± 15 Standard Input Voltage
- Aerospace Quality and Reliability



Dimensions: in [mm]



APPLICATIONS:

- Fatigue Monitoring
- Oil Well Drilling
- Flight Control Systems
- Automotive Angular Accelerometer Testing
- Antenna Stabilization
- Autopilot System Testing
- Optical System Stabilization
- Missile Orientation
- Fire Control

PIN OUTS

A	+ POWER (+15VDC)	EXT. CONN.
B	COMMON (SIG LOW)	
C	- POWER (-15VDC)	
D	OUTPUT (SIG HIGH)	
E	CURRENT OUTPUT	
F	SELF TEST	



PERFORMANCE SPECIFICATIONS

PERFORMANCE

INPUT RANGE (rad/sec²)¹	±200	±500	±1000
FULL RANGE OUTPUT (FRO V± 1.0%)	±5.0		
NON LINEARITY (%FRO max)²	0.50	0.20	0.10
SCALE FACTOR (Volts/rad/sec², nominal)	0.025	0.010	0.005
SCALE FACTOR TEMP. SENSOR (PPM/°C, max)	180		
BIAS (rad/sec², max)	1.0	4.0	4.0
BIAS TEMPERATURE (rad/sec²/°C, max)	0.40		
BANDWIDTH (-3db, Hz, nom)	70	100	120
INPUT-AXIS MISALIGNMENT (° max)	1.0		
RESOLUTION & THRESHOLD (rad/sec², max)	0.004	0.010	0.020

ELECTRICAL

INPUT VOLTAGE RANGE (VDC, nominal)	±12 to ±18		
INPUT CURRENT (mA, nom)	10.0		
OUTPUT IMPEDANCE (Ohms, nom)	10,000	4,000	5,000
NOISE (mV, rms max)	5.0		

ENVIRONMENTAL

OPERATING TEMPERATURE RANGE	-55° to +95°C
SURVIVAL TEMPERATURE RANGE	-65° to +105°C
VIBRATION	100 grms
SEAL	MIL-STD 202, Method 112. IP 65
WEIGHT. oz (grams)	2 oz (57g)

Notes:

1. Full range is defined as “from negative full input acceleration to positive full input acceleration.”
2. Nonlinearity is specified as deviation of output referenced to a best fit straight line, independent of misalignment.
3. Output phase angle = -90°.
4. Unit Power connections can be easily adapted for operation from single-ended, floating power supplies of 24 to 36 Volts DC

HOW TO ORDER

	MODEL #	PART #
±200	ASB-200	02550279-001
±500	ASB-500	02550279-002
±1000	ASB-1000	02550279-003

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