AMAS-A

Small-sized Accelerometer



Compact and robust

- Rated capacity: ±980.7, 1961 m/s²
- Voltage output (2 V)
- High safe overloads (±39227 m/s², AMAS-A-100 [4000%])

Compact and robust sensors (transducers) that use micro electro mechanical systems (MEMS).

Specifications

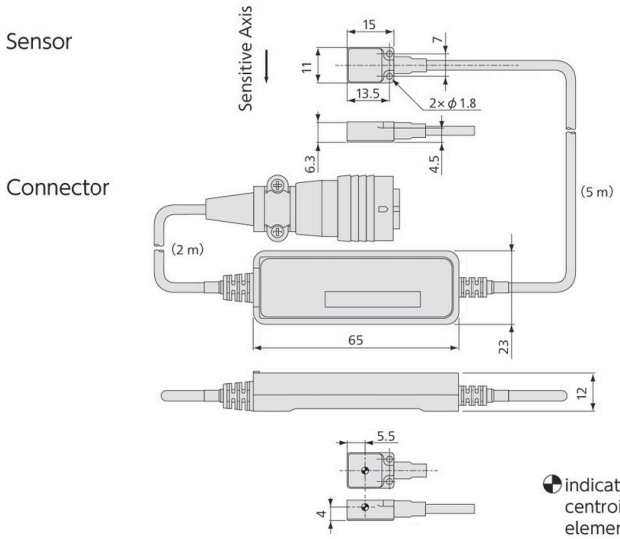
Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±2% RO
Hysteresis	Within ±1% RO
Rated Output	2 V ±20%
Peak-to-peak Sensitivity Error	
	4% RO or less
Environmental Characteristics	
Safe Temperature	-20 to 80°C (Non-condensing)
Compensated Temperature	-10 to 60°C (Non-condensing)
Temperature Effect on Zero	Within ±0.5% RO/°C
Temperature Effect on Output	Within ±1%/°C
Electrostatic Withstand Voltage	
	4 kV
Electrical Characteristics	
Safe Excitation	Dual supply: ±7 VDC
	Single supply: 14 VDC
Recommended Excitation	Dual supply: ±2.5 to ±6 VDC
	Single supply: 5 to 12 VDC
Current Consumption	20 mA or less at 5 VDC
Cable	Sensor to relay
	7-conductor (0.04 mm²) vinyl shielded cable,
	2.4 mm diameter by 5 m long
	Relay to connector
	7-conductor (0.04 mm²) vinyl shielded cable,
	2.4 mm diameter by 2 m long, terminated
	with a connector plug (PRC03-12A10-7M)
	(Shield wire is not connected to the case.)
Mechanical Properties	
Safe Overloads	±39227 m/s²(±4000 G)
Transverse Sensitivity	4% RO or less
Frequency Response	DC to 2000 Hz (Sensitivity deviation: ±10%)
Weight	Approx. 5 g (Excluding cable)

Models

Model	Rated Capacity
AMAS-A-100	±980.7 m/s² (±100 G)
AMAS-A-200	±1961 m/s² (±200 G)

*When using the Conditioner Cards for EDX Series CVM-41A and AD-40AS, an external power supply unit is not required. (For details, see page 2-37.)

Dimensions



indicates the centroid of element.

