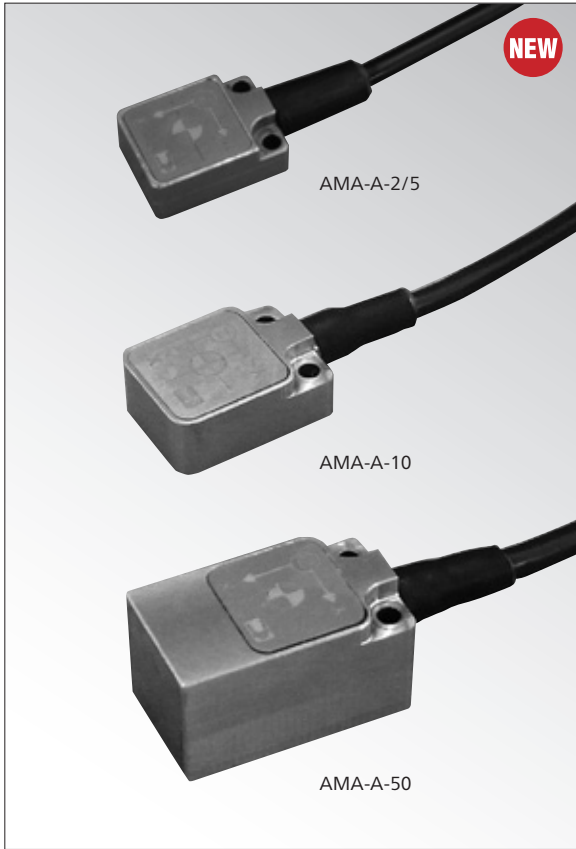


AMA-A

Small-sized Triaxial Accelerometer



●Lightweight ●19.61 to 490.3 m/s²

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1% RO
Rated Output	± 2 V ± 0.2 V

Environmental Characteristics

Compensated Temperature	-10 to 60°C (Non-condensing)
Safe Temperature	-20 to 80°C (Non-condensing)
Temperature Effect on Zero	Within ± 0.5% RO / °C (Ideal value)
Temperature Effect on Output	Within ±1% / °C
Electrostatic withstand voltage	4 kV

Electrical Characteristics

Safe Excitation	Dual supply: ± 7 VDC Single supply: 14 V
Recommended Excitation	Dual supply: ± 2.5 VDC to ± 6 VDC Single supply: 5 to 12 VDC
Consumption Current	AMA-A-2 to 5: 10 mA or less (5 VDC) AMA-A-10 to 50: 20 mA or less (5 VDC)
Cables	Sensor to Relay: D* mm diameter by 5 m long 6-conductor (0.04 mm ²) chloroprene shielded cable. (Shield wire is not connected to the case.) *D:2.5 for AMA-A-2 to 5; 2.9 for AMA-A-10 to 50

Mechanical Properties

Safe Overload	See table below.
Frequency Response	See table below.
Transverse Sensitivity	4% RO or less
Weight	Sensor: See table below.
Dimensions	See table below.

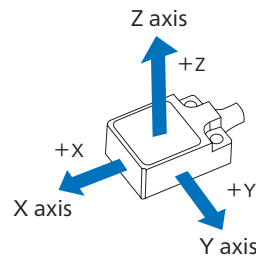
Optional Accessories Battery Box for AMA-A

Note: The acceleration transducer is subject to a constant acceleration in the direction of gravity, therefore measurement is restricted, taking into account this vertical movement (9.807 m/s²).

Compact & lightweight acceleration transducer enduring large overloads

- Compact and Triaxial
- High frequency response (AMA-A-2 to 5: Up to 500 Hz, AMA-A-10 to 50: Up to 200 Hz)
- Durable
- No external power supply unit is necessary. (Using EDX's conditioner card CVM-41A or AD-40AS)
- Fault diagnosis function is available (AMA-A-2, 5)
- Also available battery box for AMA as an optional accessory

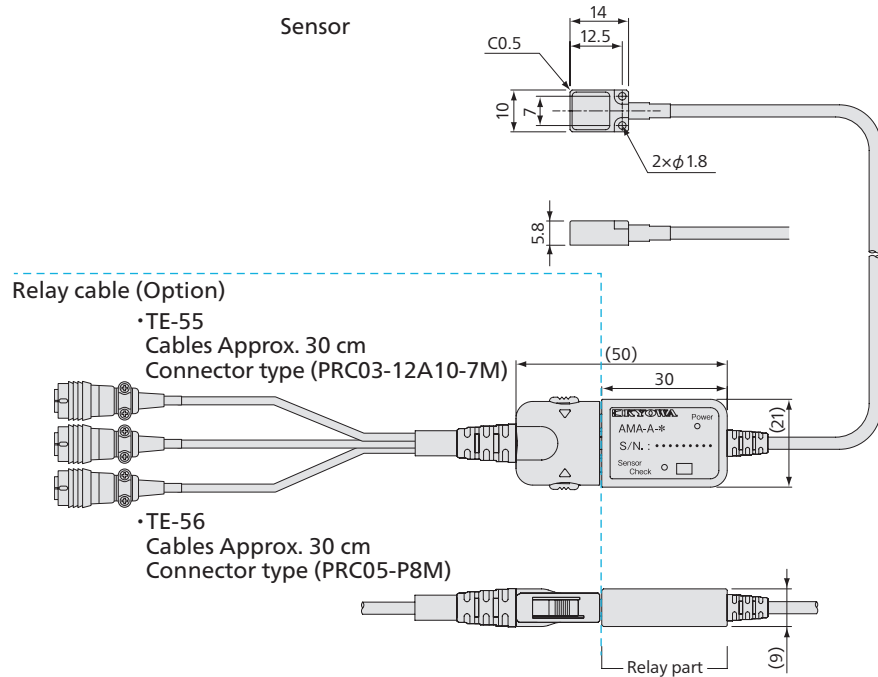
Sensitive Axes



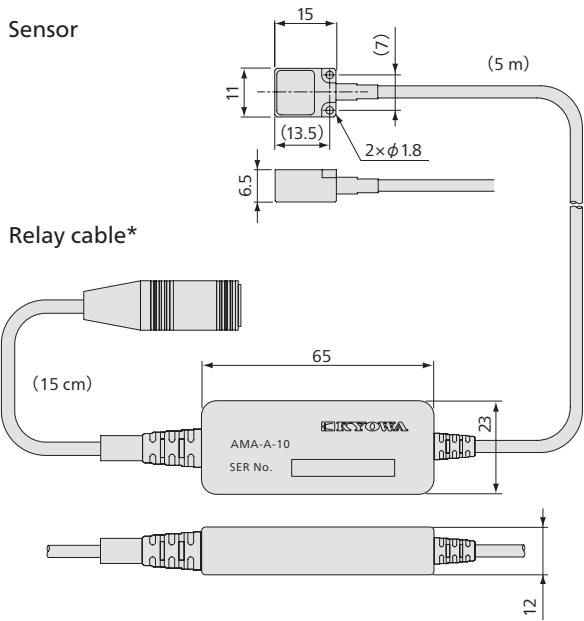
Models	Rated Capacity	Safe overload	Frequency response	Weight (Sensor)	Dimensions	
					Sensor	Relay
AMA-A-2	±19.61 m/s ² (±2 G)	±19613 m/s ² (±2000 G)	DC to 500 Hz	3 g	14 W x 5.8 H x 10 D	30 W x 9 H x 21 D
AMA-A-5	±49.03 m/s ² (±5 G)					
AMA-A-10	±98.07 m/s ² (±10 G)	±9807 m/s ² (±1000 G)	DC to 200 Hz	7 g	15 W x 6.5 H x 11 D	65 W x 12 H x 23 D
AMA-A-50	±490.3 m/s ² (±50 G)					

■ Dimensions

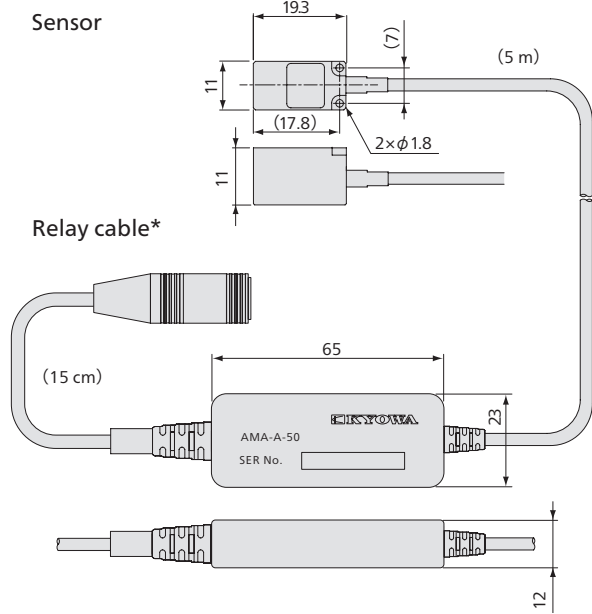
AMA-A-2, 5



AMA-A-10








AMA-A-50



* Relay cable is an optional accessory.

● Dynamic measurement

AMA-A Recommended products for combination

 Conditioner card CVM-41A → 3-74	 AD Converter Card AD-40AS → 3-76	+	 Universal Recorder EDX-200A → 3-55	 Universal Recorder EDX-100A → 3-63	 Memory Recorder/Analyzer EDX-5000A → 3-68
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