

ASH-A

● High Frequency Response ● 980.7 to 9807 m/s²

Small-Sized, High Frequency Response Acceleration Transducers



Compact and Lightweight Design Resulting in Slight Effects on Vibration Mode

Compact and lightweight design of ASH-A series acceleration transducers do not disturb vibration mode of objects by installing these transducers. In addition, it is easy to install ASH-A acceleration transducers by adhesives like CC-33A.

Specifications

Performance

Rated Capacity:	See table below.
Nonlinearity:	Within ±1% RO
Hysteresis:	Within ±1% RO
Rated Output:	0.5 mV/V (1000 μm/m) ±20%

Environmental Characteristics

Safe Temperature Range:	-15 to 65°C
Compensated Temperature Range:	5~40°C
Temperature Effect on Zero Balance:	Within ±1%RO/°C
Temperature Effect on Output:	Within ±1%/°C

Electrical Characteristics

Safe Excitation Voltage:	6V AC or DC
Recommended Excitation Voltage:	1 to 3V AC or DC
Input Resistance:	120Ω±8.3%
Output Resistance:	120Ω±8.3%
Cable:	4-conductor (0.08 mm ²) vinyl shielded cable, 3.2 mm diameter by 5 m long, terminated with connector plug (Shield wire is connected to mainframe.)

Mechanical Properties

Safe Overload Rating:	300%
Frequency Response Range:	See table below.
Transverse Sensitivity:	less than ±2%
Weight:	Approx. 6.5g (not including cable)

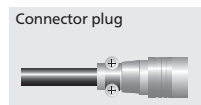
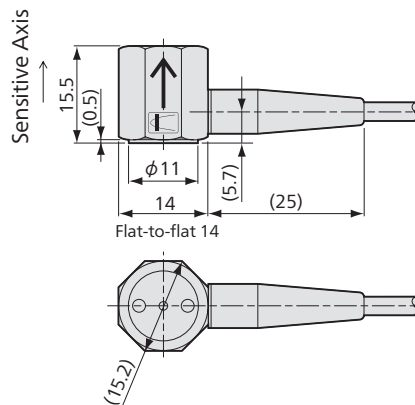
Model	Rated Capacity (Reference Value)	Frequency Response (at 23°C)
ASH-A-100	±980.7m/s ² (±100G)	DC~2kHz ±5%
ASH-A-200	±1961m/s ² (±200G)	DC~3.5kHz ±5%
ASH-A-500	±4903m/s ² (±500G)	DC~5kHz ±10%
ASH-A-1K	±9807m/s ² (±1000G)	DC~7kHz ±10%

Acceleration Direction

[↑] (Arrow head to one side direction mark of mainframe)

Acceleration condition	Acceleration	impact	rotation	The mark of mainframe corresponds to the direction of acceleration
Polarity of output	(+)	(+)	(+)	

Dimensions



● Static measurement

AS-HA Recommended products for combination

- Strain Amplifiers DPM-900 Series → 3-5
- Compact Recorder EDS-400A → 3-57
- Universal Recorders EDX-100A → 3-65
- Memory Recorder/Analyzers EDX-3000A → 3-79

Field to recommend

