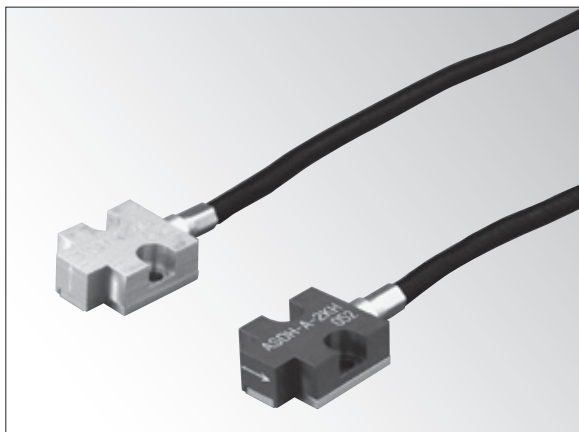


ASDH-A

●For Crash Tests ●9807m/s²,19613m/s²

Acceleration Transducer for Crash Test



Mountable to dummies and car bodies for crash test

- Transverse sensitivity is 1% RO much less than conversional models.
- 2 models are available for selection of the sensitive axis, vertical or horizontal to the mounting surface.
- Centroid is set at the tip of mainframe for triaxial configuration of acceleration transducers

The ASDH-A is a compact and lightweight undamped acceleration transducer adopting a sputter strain gage for the sensing element. It is suitable for measurement of acceleration given to a car body or dummy in automotive crash tests.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	1.2 mV/V or more
Peak-to-Peak Sensitivity Error	1%RO or less

Environmental Characteristics

Safe Temperature	-20 to 60°C
Compensated Temperature	5 to 40°C
Temperature Effect on Zero	Within $\pm 0.5\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.1\%$ /°C

Electrical Characteristics

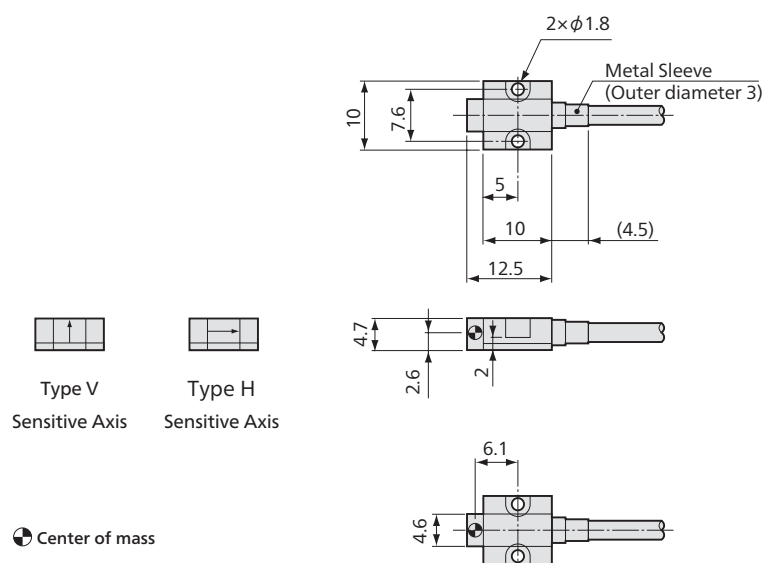
Safe Excitation	12 V AC or DC
Recommended Excitation	2 to 10 V AC or DC
Input Resistance	0.5 to 1.0 kΩ
Output Resistance	0.5 to 1.0 kΩ
Cable	4-conductor (0.05 mm ²) vinyl shielded cable, 7 m long, 2.6 mm, terminated with connector plug (R05-PB5M) (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	200%
Frequency Response	DC to 4 kHz at 23°C (Sensitivity deviation $\pm 5\%$)
Installation Resonance Frequency	See table below.
Transverse Sensitivity	1% RO or less
Weight	Approx. 1.4 g

Models	Measuring Direction	Rated Capacity (Reference)	Installation Resonance Frequency
ASDH-A-1KV	Vertical	$\pm 9807 \text{ m/s}^2$ ($\pm 1000 \text{ G}$)	23 kHz or more
ASDH-A-1KH	Horizontal	$\pm 9807 \text{ m/s}^2$ ($\pm 1000 \text{ G}$)	23 kHz or more
ASDH-A-2KV	Vertical	$\pm 19613 \text{ m/s}^2$ ($\pm 2000 \text{ G}$)	26 kHz or more
ASDH-A-2KH	Horizontal	$\pm 19613 \text{ m/s}^2$ ($\pm 2000 \text{ G}$)	26 kHz or more

Dimensions



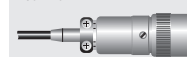
Type V
Sensitive Axis



Type H
Sensitive Axis

Center of mass

Connector plug
R05-PB5M



ASDH-A
Recommended
products for
combination



DIS-5010A
→ 5-40



DIS-7000 Series
→ 5-38



DIS-618A/632A
→ 5-46



DIS-5210A
→ 5-47

It requires change of the conversion cable or plug.

