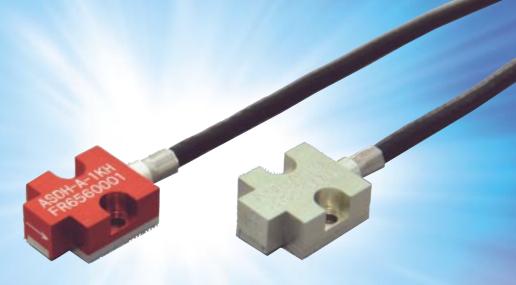




# **Small Acceleration Transducers**

For Automotive Crash Safety Tests





# ASDH-A-1KV/H

- ◆ Transverse sensitivity of 1% ensures considerably higher accuracy than KYOWA forerunners.
- lacktriangle Undamped design ensures minimal influence to the frequency response and phase characteristic.
- ◆ 2 models are available for selection of the sensitive axis, vertical or horizontal to the mounting surface.
- ◆ With applications for triaxial measurement in mind, the centroid of each transducer is put at the top.
- ◆ Rated capacity as high as ±9807 m/s² (±1000 G).
- Rated output as high as 1.2 mV/V (2400 μm/m) or more.

## **Specifications**

### **Sensitive Axis**

ASDH-A-1KV: Vertical ASDH-A-1KH: Horizontal

### **Performance**

Rated Capacity: ±9807 m/s<sup>2</sup> (±1000 G) Nonlinearity: Within ±0.5% RO Hysteresis: Within ±0.5% RO

Rated Output: 1.2 mV/V (±2400 µm/m) or more Peak-to-Peak Sensitivity Deviation: 1% RO or less

### **Environmental Capability**

Safe Temperature Range: -20° to 60°C Compensated Temperature Range: 5° to 40°C

Temperature Effect on Zero Balance: Within ±0.5% RO/°C

Temperature Effect on Output: Within ±0.1%/°C

### **Electrical Characteristics**

Safe Excitation Voltage: 12 V AC or DC

Recommended Excitation Voltage: 2 to 10 V AC or DC

Input Resistance: 0.5 to 1.0 k $\Omega$  Output Resistance: 0.5 to 1.0 k $\Omega$ 

Cable: 4-conductor (0.05 mm<sup>2</sup>) vinyl shielded cable, 7 m long, 2.6 mm $\phi$ , terminated with connector plug R05-

PB5M

### **Mechanical Properties**

Safe Overload Rating: 200%

Frequency Response Range at 23°C: DC to 4 kHz

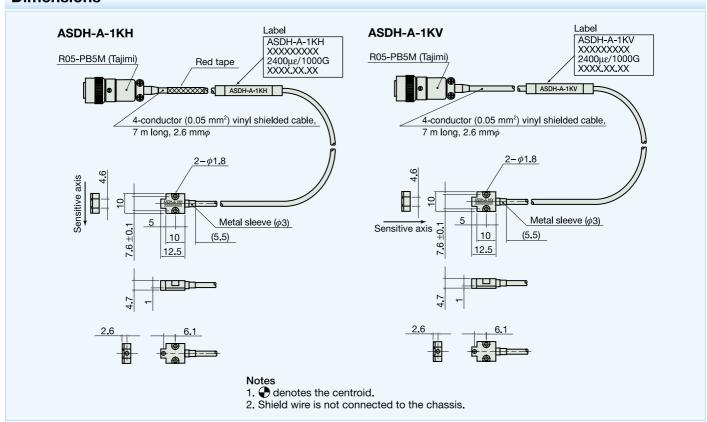
(sensitivity deviation ±5%)

Mounted Resonant Frequency: 23 kHz or more

Transverse Sensitivity: 1% or less

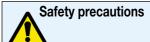
Weight: Approx. 85 g (Mainframe: Approx. 1.4 g)

### **Dimensions**





JQA-0821 JQA-EM4824 Specifications are subject to change without notice for improvement.



Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

# Reliability through integration



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