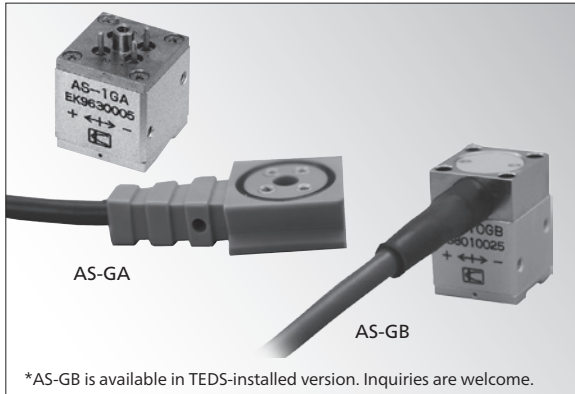


# AS-GA / GB

● 9.807 to 196.1 m/s<sup>2</sup>

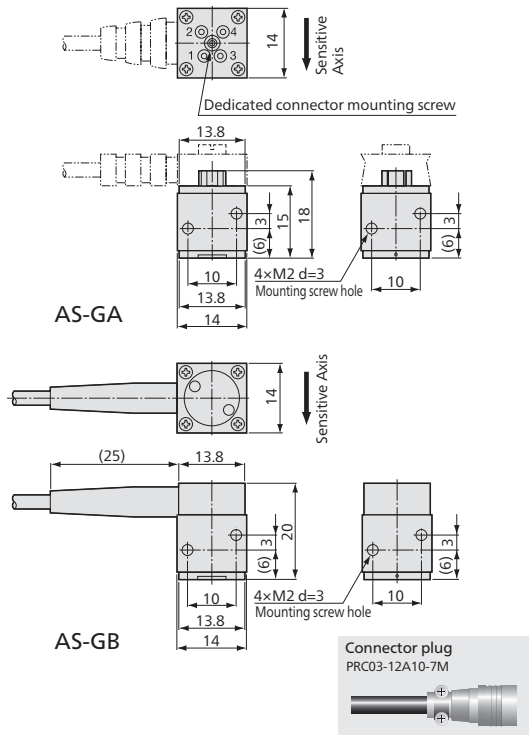
## Small-sized Small-capacity Acceleration Transducer



**Compact & lightweight**  
**Easy to use**  
**Suitable for measurement of vibration of model structures and in the field of human engineering.**

Using a strain gage as the sensing element, AS-GA and AS-GB series acceleration transducers are designed to measure small levels of acceleration. The compact & lightweight design makes them widely used for measurement of vibration in small structures or scale models as well as in the field of human engineering. AS-GA series comes with hermetic terminal and AS-GB series are integrated with cable.

### ■ Dimensions



### Specifications

#### Performance

<b>Rated Capacity</b>	See table below.
<b>Nonlinearity</b>	Within ±1% RO
<b>Hysteresis</b>	Within ±1% RO
<b>Rated Output</b>	0.5 mV/V or more

#### Environmental Characteristics

<b>Safe Temperature</b>	-15 to 65°C
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#### Electrical Characteristics

<b>Safe Excitation</b>	6 V AC or DC
<b>Recommended Excitation</b>	1 to 3 V AC or DC
<b>Input Resistance</b>	121 Ω ±1.7%
<b>Output Resistance</b>	121 Ω ±1.7%
<b>Cable</b>	4-conductor (0.08 mm <sup>2</sup> ) vinyl shielded cable, 3.2 mm diameter by 5 m long
<b>AS-GA</b>	Dedicated cable CB-AS-GA Sensor side: Dedicated connector (removable) Measuring instrument side: PRC03-12A10-7M (Shield wire is not connected to the case.)
<b>AS-GB</b>	Terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

#### Mechanical Properties

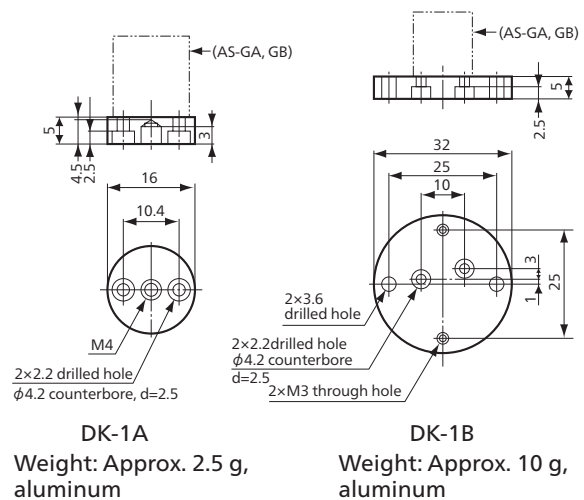
<b>Safe Overloads</b>	300%
<b>Frequency Response</b>	See table below.
<b>Transverse Sensitivity</b>	4% RO or less
<b>Weight</b>	Approx. 15 g (AS-GA) (Excluding cable) Approx. 25 g (AS-GB) (Excluding cable)

Models	Rated Capacity (Reference Value)	Frequency Response (At 23°C)
AS-1GA, GB	±9.807 m/s <sup>2</sup> (±1 G)	DC to 40 Hz ±5%
AS-2GA, GB	±19.61 m/s <sup>2</sup> (±2 G)	DC to 60 Hz ±5%
AS-5GA, GB	±49.03 m/s <sup>2</sup> (±5 G)	DC to 100 Hz ±5%
AS-10GA, GB	±98.07 m/s <sup>2</sup> (±10 G)	DC to 150 Hz ±5%
AS-20GA, GB	±196.1 m/s <sup>2</sup> (±20 G)	DC to 250 Hz ±5%

(Note) To install AS-GB, use CC-33A adhesive or optional mount base (See figures below).

(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/s<sup>2</sup>). For the AS-1GA/1GB, if sensitivity is set in line with the direction of gravity, then the rated capacity will be exceeded. As long as the safe overload rating is not exceeded, there will be no damage, but characteristics will be outside the guaranteed range.

### ■ Mount Base



**DK-1A**  
Weight: Approx. 2.5 g, aluminum

**DK-1B**  
Weight: Approx. 10 g, aluminum

### ● Dynamic measurement

AS-GA/GB  
Recommended products for combination

