

AS-TG

Small-sized Triaxial Acceleration Transducer

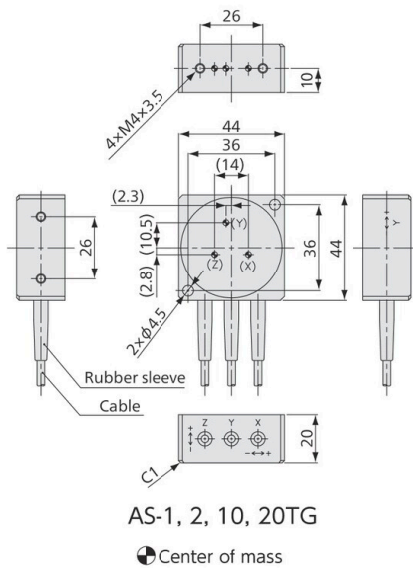
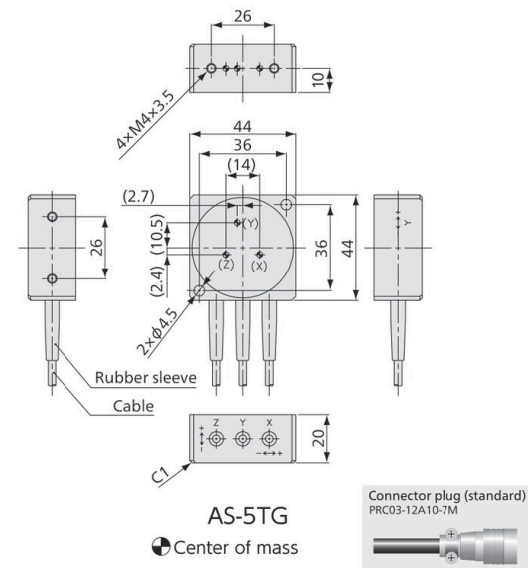


Small-capacity types compatible with overloads 10 times rated capacity

- Rated capacity: ± 9.807 to 196.1 m/s^2
- Simultaneous measurement in X, Y, Z directions
- Overload stopper built-in (Overload limit: 1000%)

Triaxial transducers with three compact and lightweight acceleration transducers integrated in the same case, to simultaneously measure acceleration in the X, Y, and Z directions.

■ Dimensions



Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 1\%$ RO

Hysteresis Within $\pm 1\%$ RO

Rated Output 0.5 mV/V or more

Environmental Characteristics

Safe Temperature -10 to 60°C

Electrical Characteristics

Safe Excitation 6 V AC or DC

Recommended Excitation 1 to 3 V AC or DC

Input Resistance $121 \Omega \pm 1.7\%$

Output Resistance $121 \Omega \pm 1.7\%$

Cable 4-conductor (0.08 mm²) vinyl shielded cable, 3.2 mm diameter
by 5 m long, terminated with a connector plug PRC03-12A10-7M,
3 cables (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads 300%

Overload Limit 1000 % (With a stopper)

Frequency Response See table below.

Transverse Sensitivity 4% RO or less

Weight Approx. 110 g (Excluding cable)

■ Models

Model	Rated Capacity (Reference Value)	Frequency Response (At 23°C)
AS-1TG	$\pm 9.807 \text{ m/s}^2 (\pm 1 \text{ G})$	DC to 40 Hz (Sensitivity deviation $\pm 5\%$)
AS-2TG	$\pm 19.61 \text{ m/s}^2 (\pm 2 \text{ G})$	DC to 60 Hz (Sensitivity deviation $\pm 5\%$)
AS-5TG	$\pm 49.03 \text{ m/s}^2 (\pm 5 \text{ G})$	DC to 100 Hz (Sensitivity deviation $\pm 5\%$)
AS-10TG	$\pm 98.07 \text{ m/s}^2 (\pm 10 \text{ G})$	DC to 150 Hz (Sensitivity deviation $\pm 5\%$)
AS-20TG	$\pm 196.1 \text{ m/s}^2 (\pm 20 \text{ G})$	DC to 250 Hz (Sensitivity deviation $\pm 5\%$)

*TEDS-installed models are available. Please contact us.

To Ensure Proper Usage

For AS-1TG, the rated capacity will be exceeded on the positive side toward the direction of gravity. As long as the safe overloads is not exceeded, there will be no damage, but characteristics will be outside the guaranteed range.

1
-150

Sensor



Strain Gauge

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor