

Waterproof Acceleration Transducer



Waterproof types

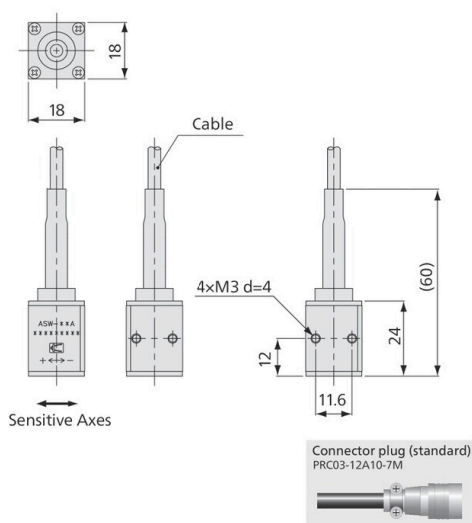
- Rated capacity: ± 9.807 to 196.1 m/s^2
- Waterproof
(water pressure resistance: 490.3 kPa)

Oil damped type waterproof transducers. Compact yet highly reliable design for highly accurate measurement even under harsh usage conditions.

To Ensure Proper Usage

For ASW-1A, if set with the sensing direction of acceleration in line with the vertical direction, the rated capacity will be exceeded on the positive side of 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.

■ 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 -15 to 65°C

Electrical Characteristics

Safe Excitation	6 V AC or DC
Recommended Excitation	1 to 3 V AC or DC
Input Resistance	122 $\Omega \pm 1.6\%$
Output Resistance	122 $\Omega \pm 1.6\%$
Cable	4-conductor (0.08 mm ²) chloroprene shielded cable, 4 mm diameter by 5 m long. Terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

Mechanical Properties

Mechanical Properties	
Safe Overloads	300%
Frequency Response	See table below.
Transverse Sensitivity	4% RO or less
Weight	Approx. 40 g (Excluding cable)
Material	Case: Corrosion-resistant aluminum anode oxidized coated
Water Pressure Resistance	
	490.3 kPa

■ **Optional Accessories** Mount base DK-1C/D

Models

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

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

*Corrosion-resistant model with stainless steel are available. Please contact us.

*For installation, use CC-33A adhesive or optional mount base.
(See below.)

■ Mount Base DK-1C/D

