# ASW-A

### 9.807 to 196.1 m/s²

Usable Underwater or underground

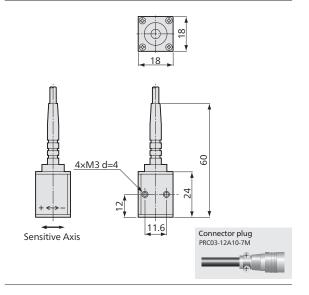
# **Waterproof Acceleration Transducer**



## **Waterproof Structure to Withstand** against Water Pressures up to 490 kPa. Corrosion-Resistant Model with **Stainless Steel**

ASW -A series are waterproof acceleration transducers to withstand against water pressures up to 490 kPa. Even small-sized these acceleration transducers ensure reliable measurements under harsh operating environments. In addition, corrosion-resistant version with stainless steel case is also available.

#### Dimensions



#### **Specifications**

#### Performance

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

#### **Environmental Characteristics**

Safe Temperature -15 to 65°C

#### **Electrical Characteristics**

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Safe Excitation	6 V AC or DC	
Recommended Excitation	1 to 3 V AC or DC	
Input Resistance	122 Ω±1.6%	
Output Resistance	122 Ω±1.6%	
Cable 4-conductor (0.08 mm²) chloroprene shielded cable,		
4 mm diameter by 5 m long, terminated with connector plug		
PRC03-12A10-7M Underwater application possible by		
using Kyowa's cable connection kit JB-200A		
(Shield wire is connected to the case.)		

#### **Mechanical Properties**

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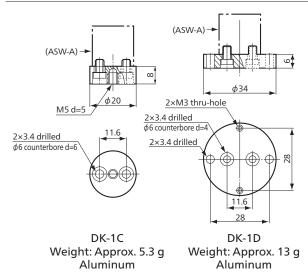
<sup>\*</sup>For installation, use CC-33A adhesive or optional mount base (See below).

Models	Rated Capacity (Reference Value)	Frequency Response (At 23°C)
ASW- 1A	±9.807 m/s <sup>2</sup> (±1 G)	DC to 40 Hz ±5%
ASW- 2A	±19.61 m/s <sup>2</sup> (±2 G)	DC to 60 Hz ±5%
ASW- 5A	±49.03 m/s <sup>2</sup> (±5 G)	DC to 100 Hz ±5%
ASW-10A	±98.07 m/s <sup>2</sup> (±10 G)	DC to 150 Hz ±5%
ASW-20A	±196.1 m/s² (±20 G)	DC to 250 Hz ±5%

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/s²). For the ASW-1A, if sensitivity for vertical acceleration is set in line with the direction of gravity, then the rated capacity will be exceeded in the + direction. 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

















**Acceleration Transducers**