



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

ASPC-A



Piezoelectric Acceleration Transducer (Built-in Amplifier)



High-sensitivity compact triaxial models

- Rated capacity: ± 360 to 4000 m/s^2
- Simultaneous measurement in X, Y, and Z directions
- Detachable cable for easy installation

Piezoelectric (IEPE) transducers with a built-in amplifier and wide measuring range, capable of measuring from slight vibration to large acceleration.

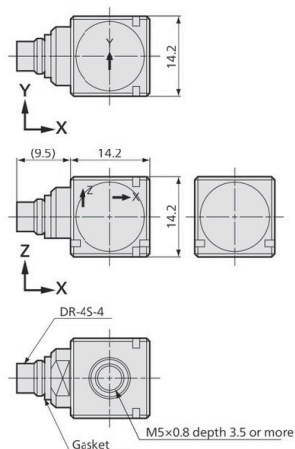
Models

Model	Rated Capacity	Voltage Sensitivity ($\pm 10\%$)	Operating Temperature*1	Sensor ID
ASPC-A-30-ID	$\pm 360 \text{ m/s}^2$	10 mV/m/s ²	-40 to 85°C (With operating power supply: 0.5 to 5 mA)	TEDS (IEEE1451.4)
ASPC-A-30	$\pm 400 \text{ m/s}^2$		-40 to 70°C (With operating power supply: 0.5 to 10 mA)	
ASPC-A-300-ID	$\pm 3600 \text{ m/s}^2$		-50 to 110°C (With operating power supply: 0.5 to 5 mA)	
ASPC-A-300	$\pm 4000 \text{ m/s}^2$	1.0 mV/m/s ²	-50 to 70°C (With operating power supply: 0.5 to 10 mA)	TEDS (IEEE1451.4)
			-40 to 85°C (With operating power supply: 0.5 to 5 mA)	
			-40 to 70°C (With operating power supply: 0.5 to 10 mA)	

*1 Measuring instrument side's operating temperature: -20 to 60°C

*Acceleration (m/s^2) = Output: voltage from sensor (mV) ÷ Voltage sensitivity (mV/m/s^2)

Dimensions



To Ensure Proper Usage

Before measuring using CCA-40A or CCA-40A-F, insulate the mounting surface between the transducer and measuring object.

BNC connector (standard)



Specifications

Performance

Rated Capacity See table below.

Voltage Sensitivity See table below.

Sensor ID See table below.

Environmental Characteristics

Operating Temperature See table below.

Electrical Characteristics

Recommended Excitation 21 to 24 V DC, 0.5 to 10 mA

Output Impedance 1000 Ω or less

Cable Dedicated cable (SA12ZSC-01B), length approx. 3.3 m

Sensor side: DR-4S-1

Measuring instrument side: BNC connector (BNC163)

(Shield wire is connected to the case.)

Mechanical Properties

Impact Resistant 30000 m/s²

Frequency Response ($\pm 1 \text{ dB}$) 1 to 5000 Hz

Frequency Response ($\pm 3 \text{ dB}$) 1 to 8000 Hz

Resonant Frequency Approx. 35 kHz

Transverse Sensitivity 5% or less

Case Material Titanium

Mounting Screw Female screw (M5 $\times$ 0.8 $\times$ 3.5)

Weight Approx. 11 g (Excluding cable)

■ Standard Accessories Dedicated cable SA12ZSC-01B

■ Optional Accessories Mount base SA12ZSC-02