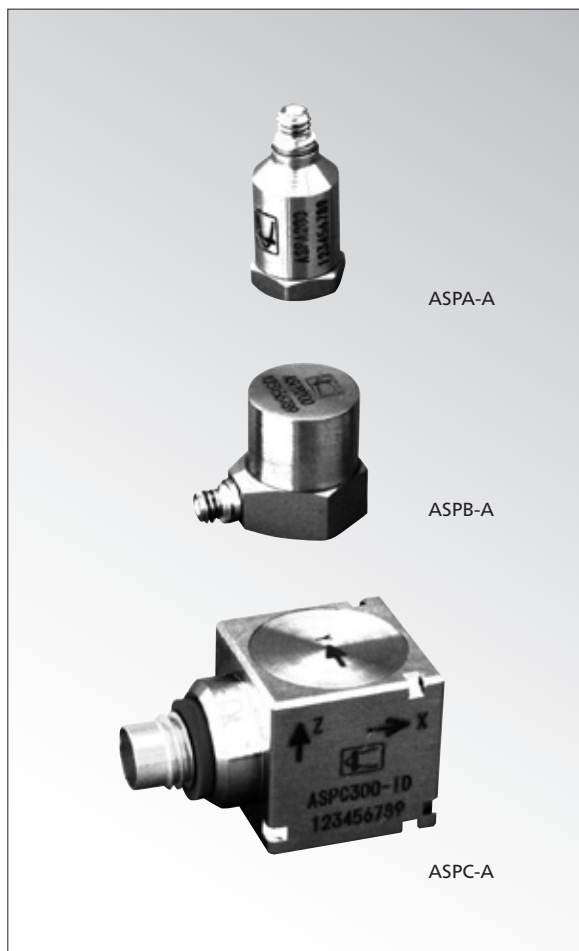


ASPA-A/ASPB-A/ASPC-A

Piezoelectric acceleration transducer (Built-in amplifier)



Specifications

■ASPA-A-200	
Rated Capacity	±2200 m/s ²
Voltage Sensitivity	1.0 mV per m/s ² ±10%
Resonant Frequency	Approx. 45 kHz
Frequency Response (±1 dB)	3 Hz to 12 kHz
Frequency Response (±3 dB)	1.5 Hz to 16 kHz
Impact Resistance	10000 m/s ²
Operating Temperature	-30 to 100°C
Lateral Sensitivity	5% or less
Output Impedance	100 Ω or less
Weight	Approx. 2 g (Excluding cable)
Case Material	Titanium
Mounting Screws	Female screw (M3×0.5 depth 2)
Power Supply	15 to 25 VDC, 0.5 to 5.0 mA
Cable Dedicated cable (Y01D0995) length approx. 2 m	
Tip connector	
· Transducer side - C29-104P	
· Measuring instrument side – miniature connector	
(Shield wire is connected to the case.)	
Standard Accessories	Miniature BNC conversion connector

*Acceleration (m/s²)

= Output voltage from sensor (mV) ÷ Voltage sensitivity (mV per m/s²)

■ASPB-A-200	
Rated Capacity	±2200 m/s ²
Voltage Sensitivity	1.0 mV per m/s ² ±10%
Resonant Frequency	Approx. 45 kHz
Frequency Response (±1 dB)	3 Hz to 12 kHz
Frequency Response (±3 dB)	1.5 Hz to 16 kHz
Impact Resistance	10000 m/s ²
Operating Temperature	-30 to 100°C
Lateral Sensitivity	5% or less
Output Impedance	100 Ω or less
Weight	Approx. 3 g (Excluding cable)
Case Material	Titanium
Mounting Screws	Female screw (M3×0.5 depth 2)
Power Supply	15 to 25 VDC, 0.5 to 5.0 mA
Cable Dedicated cable (Y01D0995) length approx. 2 m	
Tip connector	
· Transducer side - C29-104P	
· Measuring instrument side – miniature connector	
Shield wire is connected to the case	
Standard Accessories	Miniature BNC conversion connector

*Acceleration (m/s²)

= Output voltage from sensor (mV) ÷ Voltage sensitivity (mV per m/s²)

Wide measurement range, capable of measuring slight through to high accelerations.

- High sensitivity, small size
- Capable of measurement of wide band, low to high frequencies
- Provides a wide measurement range, capable of measuring slight to high accelerations
- High mechanical strength
- Environmentally-resistant



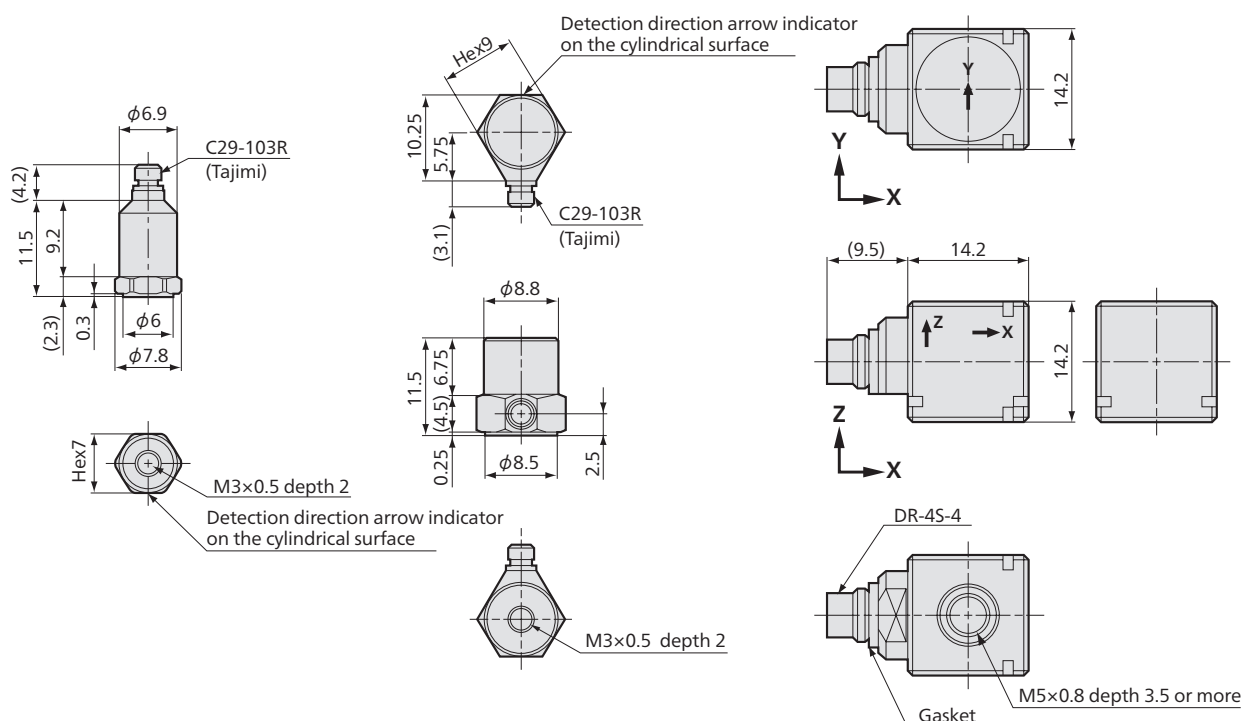
■ ASPC-A-30/ASPC-A-300/ASPC-A-30-ID/ASPC-A-300-ID

Rated Capacity	ASPC-A-30: $\pm 400 \text{ m/s}^2$
	ASPC-A-300: $\pm 4000 \text{ m/s}^2$
	ASPC-A-30-ID: $\pm 360 \text{ m/s}^2$
	ASPC-A-300-ID: $\pm 3600 \text{ m/s}^2$
Sensitivity	ASPC-A-30: 10 mV per $\text{m/s}^2 \pm 10\%$
	ASPC-A-300: 1.0 mV per $\text{m/s}^2 \pm 10\%$
	ASPC-A-30-ID: 10 mV per $\text{m/s}^2 \pm 10\%$
	ASPC-A-300-ID: 1.0 mV per $\text{m/s}^2 \pm 10\%$
Resonant Frequency	Approx. 35 kHz
Frequency Response ($\pm 1 \text{ dB}$)	1 Hz to 5 kHz
Frequency Response ($\pm 3 \text{ dB}$)	1 Hz to 8 kHz
Impact Resistance	30000 m/s^2
Operating Temperature	
ASPC-A-30 / ASPC-A-300	
-50 to 110°C (With operating power supply 0.5 mA to 5 mA)	
-50 to 70°C (With operating power supply 0.5 mA to 10 mA)	
However, the measurement side connector is -20°C to 60°C	
ASPC-A-30-ID / ASPC-A-300-ID	
-40 to 85°C (With operating power supply 0.5 mA to 5 mA)	
-40 to 70°C (With operating power supply 0.5 mA to 10 mA)	
However, the measurement side connector is -20°C to 60°C	

Lateral Sensitivity	5% or less
Output Impedance	1000 Ω or less
Weight	Approx. 11 g (Excluding cable)
Case Material	Titanium
Mounting Screws	Female screw (M5×0.8 depth 3.5)
Power Supply	21 to 24 VDC, 0.5 to 10 mA
Cable	Dedicated cable (Y01D0898) length approx. 3.3 m
	Tip connector transducer side DR-4S-1
	Measurement side BNC connector (BNC163)
Shield wire is connected to the case.	
Sensor ID	TEDS (IEEE1451.4)
(ASPC-A-30 -ID / ASPC-A-300 -ID only)	
Other	For 3 axes (X, Y, Z)

*Acceleration (m/s^2)= Output voltage from sensor (mV) $\div$ Voltage sensitivity (mV per m/s^2)

■ Dimensions



● Dynamic measurement

