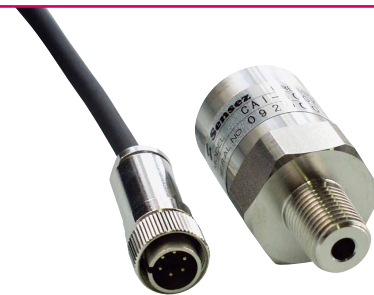




CAV • CAI

Features 1.Connector type 2.For absolute pressure

- Connector type of the "HA series" absolute pressure sensor
- Easy to handle and highly maintainable
- Capable of high-accuracy vacuum region measurement without being affected by atmospheric fluctuations
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit

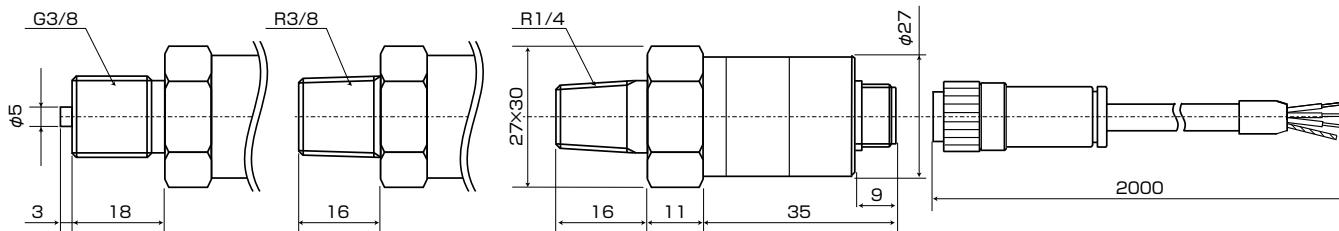


Specifications

Model	CAV • CAI			
	-050KP	-100KP	-300KP	-600KP
Rated pressure	0 to 50kPa abs	0 to 100kPa abs	0 to 300kPa abs	0 to 600kPa abs
Pressure type	Absolute pressure			
Overpressure	CAV : 200% of the rated pressure / CAI : 150% of the rated pressure			
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316 O-ring : Fluororubber (standard)			
Sealing liquid	Silicone oil			
Applicable media	Gas and fluid (media not damaging the wetted part material)			
Power supply	12 to 28VDC			
Output	1 to 5VDC only	CAV : 1 to 5VDC / CAI : 4 to 20mADC		
Current consumption	CAV : 6mA or less			
Load resistance	CAV : 1k Ω or more / CAI : 600 Ω or less (at power of 24 VDC)			
Responsiveness	5msec or less			
Accuracy (linearity)	± 0.5% F.S. or less * 1 (± 0.3% F.S. or less)			
Temperature characteristics	± 0.05% F.S. / °C or less (0 to 60°C)			
Compensated temperature range	0 to 60°C			
Operating temperature range	- 10 to 80°C (no freezing allowed)			
Operating humidity range	35 to 85% RH (no dew condensation allowed)			
Pressure connection port	R1/4 (standard) • R3/8 • G3/8			
Cable	φ 6 vinyl : (with connector) / 2000mm (standard) Shield cable			
Structure	IP66			
Insulation resistance	100M Ω or more / 500VDC			
Withstand voltage	500VAC, 1 minute			
Vibration resistance	98.1m / s ² , 2 hours (X, Y, and Z directions)			
Weight	Approx 230g			
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.3% F.S.	+ 0.1% F.S.		

* 1. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

Dimensions (Units : mm)



Cables / wires

	CAV	CAI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—

Model

CAI - 100 KP - 02 - V - R3

Type	Pressure range	Unit of pressure	Cable length	O-ring	Pressure connection port
Output mode	KP : kPa	02 : 2m (standard)	V : Fluororubber	Space : R1/4 (standard)	
V : Voltage		05 : 5m	N : NBR	R3 : R3/8	
I : Current		10 : 10m	X : Other	G3 : G3/8	