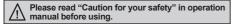
### **Small Pressure Sensor**

### Features

- Measurement pressure range
  - : Negative pressure (-101.3 to 0.0kPa) Standard pressure (0 to 100.0kPa, 0 to 1,000kPa) Compound pressure (-101.3 to 100.0kPa)
- Compact size: W11.8×H29.3×L24.8mm (including pressure port)
- Output type: Voltage (1-5VDC) output/Current (DC4-20mA) output
- Power supply: 12-24VDC ±10%







## Ordering Information

PSS - V	01 V - R1/8 Pressure port	R1/8	Standard	
	Output	V	Voltage (1-5VDC) output	
		А	Current (DC4-20mA) output	
	Pressure range	01	100kPa	
		1	1,000kPa	
Dro	Pressure type		Standard pressure type	
	зите туре	V	Negative pressure type	
0:	ize		Compound pressure type	
			Small (W11.8mm×H12.8mm×L19.8mm)	
Item		PS	Pressure Sensor	

## Specifications

Pressure type		Gauge pressure					
		Negative pressure	Standard pressure		Compound pressure		
Model	Voltage (1-5VDC) output	PSS-V01V-R1/8	PSS-01V-R1/8	PSS-1V-R1/8	PSS-C01V-R1/8		
	Current (DC4-20mA) output	PSS-V01A-R1/8	PSS-01A-R1/8	PSS-1A-R1/8	PSS-C01A-R1/8		
Rated pressure range		0.0 to -101.3kPa	0.0 to 100.0kPa	0 to 1,000kPa	-101.3 to 100.0kPa		
Analog output range		5.0 to -101.3kPa	-5.0 to 110.0kPa	-50 to 1,100kPa	-101.3 to 110.0kPa		
Max. pressure range		2 times of rated pressure	2 times of rated pressure	1.5 times of rated pressure	2 times of rated pressure		
Applied	Applied fluid Air, non-corrosive gas						
Power	supply	12-24VDC ±10% (ripple P-P: Max. 10%)					
Current	consumption	Voltage output type: Max. 15mA, Current output type: —					
Effect b	y power supply	Max. ±0.3% F.S.					
Protect	ion circuit	Reverse polarity protection circuit					
Analog	Voltage output	•Output voltage: 1-5VDC ±2% F.S. •Linear: Max. ±1% F.S. •Output impedance: 1kΩ					
output	Current output	•Output current: DC4-20mA ±2% F.S. •Linear: Max. ±1% F.S.					
Temp. o	characteristics of output	Max. ±2% F.S. of output voltage/current at 25°C within temperature range 0 to 50°C					
Insulati	Insulation resistance Over. 50№ (at 500VDC megger)						
Dielectr	ielectric strength 2000VAC 50/60Hz for 1 minute						
Vibratio	bration 1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours						
Environ	1- Ambient temperature	0 to 50°C, storage: -10 to 6					
ment	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH					
Protect	ection structure IP40 (IEC standards)						
Materia	ıl	Front case: PC, Rear case: PC, Pressure port: Nickel plated brass					
Cable	Oable Ø3, 4-wire, Length 3m (AWG28, Core diameter: 0.08mm, Number of cores: 19, Insulator out diameter: Ø0.88mm)						
Sold separately Sensor connector wire mount plug (CNE-P04-YG) <sup>x1</sup>							
Approval C€							
Weight	Weight <sup>x2</sup> Approx. 60g (approx. 26g)						

 $<sup>\</sup>frak{\%}1$ : For more information about sensor connector wire mount plug, refer to ' (G) Connector/Socket'.

<sup>\*2:</sup> The weight includes packaging. The weight in parenthesis is for unit only.

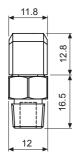
<sup>%</sup> Full scale is the rated pressure. 

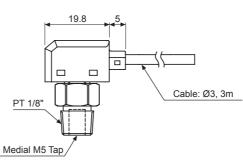
% Environment resistance is rated at no freezing or condensation.

# **Small Pressure Sensor**

Dimensions

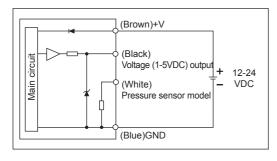
19.8



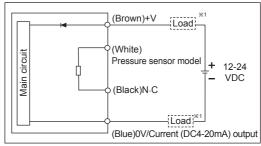


### Connections

#### • Voltage (1-5VDC) output type



### • Current (DC4-20mA) output type

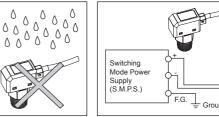


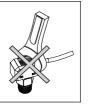
Allowable load impedance: Max. 100Ω for 12VDC power Max.  $500\Omega$  for 24VDC power

# Cautions During Use

- Do not insert any sharp or pointed object into pressure port. Failure to follow this instruction may result in malfunction and damage the sensor.
- Be sure that this unit must avoid direct touch with water, oil, thinner etc.
- It is ready to operate 3 sec. after it is turned ON. Be sure not to use the product within 3 sec.
- When using switching mode power supply, frame ground (F.G.) terminal of power supply should be grounded.
- To avoid inductive noise, keep the wiring away from power line, high voltage line. Failure to follow this instruction may result in malfunction.
- When moving this unit from warm place to cold place, please remove the humidity on the cover then use it.
- Do not use spanner to mounting this unit. Tightening torque for one touch fitting should be below 10N·m.
- Do not apply a tensile strength in excess of 30N to the cables or connector.
- Allowable installation environment
- · It shall be used indoor.
- Altitude Max. 2.000m
- Pollution degree 3
- · Installation Category II

X1: Load can be connected any directions.





(A) Photoelectric Sensors

(unit: mm)

(C) Door/Area Sensors

(D) Proximity

(F) Rotary Encode

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(M) Tacho / Speed / Pulse Meters

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors

& Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

F-27 **Autonics**