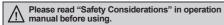
Compact, Non-indicating Pressure Sensors Features

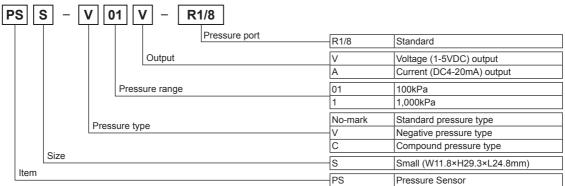
- Rated pressure
- : negative pressure (-101.3 to 0.0kPa) standard pressure (0 to 100.0kPa, 0 to 1,000kPa) compound pressure (-101.3 to 100.0kPa)
- Compact design: W11.8×H29.3×L24.8mm (including pressure port)
- Analog output: Voltage (1-5VDC), current (DC4-20mA)
- Power supply: 12-24VDC ±10%







Ordering Information



Specifications

| Pressure type | | Gauge pressure | | | |
|--|----------------|---|---------------------------|-----------------------------|---------------------------|
| | | Negative pressure | Standard pressure | | Compound pressure |
| Model | Voltage output | PSS-V01V-R1/8 | PSS-01V-R1/8 | PSS-1V-R1/8 | PSS-C01V-R1/8 |
| | Current 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 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 by power supply | | Max. ±0.3% F.S. | | | |
| Protection circuit | | Reverse polarity protection circuit | | | |
| Analog | Voltage output | •Output voltage: 1-5VDC= $\pm 2\%$ F.S. •Linear: Max. $\pm 1\%$ F.S. •Output impedance: $1k\Omega$ | | | |
| output | Current output | •Output current: DC4-20mA ±2% F.S. •Linear: Max. ±1% F.S. | | | |
| Temp. characteristics of analog output | | Max. ±2% F.S. of output voltage/current at 25°C within temperature range 0 to 50°C | | | |
| Insulation resistance | | Over 50MΩ (at 500VDC megger) | | | |
| Dielectric strength | | 2000VAC 50/60Hz for 1 minute | | | |
| Vibration | | 1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours | | | |
| Environn | Ambient temp. | 0 to 50°C, storage: -10 to 60°C | | | |
| | Ambient humi. | 35 to 85%RH, storage: 35 to 85%RH | | | |
| Protection structure | | IP40 (IEC standard) | | | |
| Material | | Front, Rear case: Polycarbonate, Pressure port: Nickel plated brass | | | |
| Cable | | Ø3, 4-wire, 3m (AWG28, Core diameter: 0.08mm, Number of cores: 19, Insulator out diameter: Ø0.88mm) | | | |
| Sold separately | | Sensor connector wire mount plug (CNE-P04-□) ^{×1} | | | |
| Approval | | CE | | | |
| Weight ^{**2} | | Approx. 60g (approx. 26g) | | | |

%1: For more information about sensor connector wire mount plug, refer to '(G) Connector/Socket'.

%2: The weight includes packaging. The weight in parenthesis is for unit only.

%F.S.: Rated pressure.

%Environment resistance is rated at no freezing or condensation.

Dimensions



(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity

(E) Pressure

(F) Rotary Encode

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

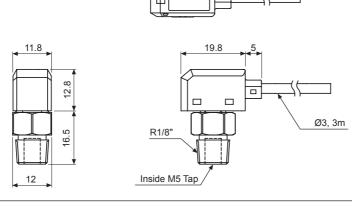
(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

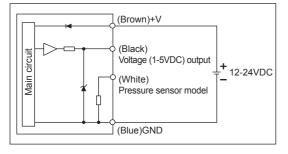
(S) Field Network Devices

(T) Software

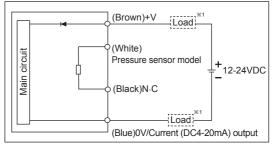


Connections

Voltage (1-5VDC) output type



Current (DC4-20mA) output type

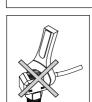


※1 : Load can be connected any directions. * Allowable load impedance: Max. 100Ω for 12VDC power Max. 500Ω for 24VDC power

Proper Usage

- 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.
- This product may be used in the following environments.
 - Indoors
 - Altitude max. 2,000m
 - Pollution degree 3
 - Installation category II





Switching

Mode Power

Supply

F.G