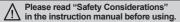
Compact, Non-indicating Pressure Sensors

■ 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

s	s - [V 0	1 \	/ - F	21/8			
					Pressure port	R1/8	Standard	
				Output		V	Voltage (1-5VDC) output	
						А	Current (DC4-20mA) output	
		Pressure range Pressure type				01	100kPa 1,000kPa	
						1		
						No-mark	Standard pressure type	
		FIESS	sure typ	ше туре		V	Negative pressure type	
						С	Compound pressure type	
l	Size					S	Small (W11.8×H29.3×L24.8mm)	
Item						PS PS	Pressure Sensor	

Specifications

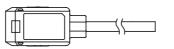
Pressure type		Gauge pressure							
Pressure	е туре	Negative pressure	Standard pressure		Compound pressure				
Model	Voltage output	PSS-V01V-R1/8	PSS-01V-R1/8	PSS-1V-R1/8	PSS-C01V-R1/8				
	Current output	PSS-V01A-R1/8	PSS-01A-R1/8	PSS-1A-R1/8	PSS-C01A-R1/8				
Rated pr	ressure range	0.0 to -101.3kPa	to -101.3kPa 0.0 to 100.0kPa		-101.3 to 100.0kPa				
Analog o	output range	5.0 to -101.3kPa	-5.0 to 110.0kPa	-50 to 1,100kPa	-101.3 to 110.0kPa				
Max. pre	essure range	2 times of rated pressure	2 times of rated pressure	1.5 times of rated pressure	2 times of rated pressure				
Applied 1	fluid	Air, non-corrosive gas							
Power s	upply	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== ±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. cl analog c	haracteristics of output	Max. ±2% F.S. of output voltage/current at 25°C within temperature range 0 to 50°C							
Insulatio	n resistance	Over 50MΩ (at 500VDC megger)							
Dielectri	c strength	2000VAC 50/60Hz for 1 minute							
Vibration	า	1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours							
Environr	Ambient temp.	0 to 50°C, storage: -10 to 60°C							
Ellalloll	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH							
Protection	on 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 sep	parately	Sensor connector wire mount plug (CNE-P04-□) ^{×1}							
Approval		CE CE							
Weight*	2	Approx. 60g (approx. 26g)							

- X1: For more information about sensor connector wire mount plug, refer to 'Connectors' and 'Sockets' chapters.
- X2: The weight includes packaging. The weight in parenthesis is for unit only.
- XF.S.: Rated pressure.
- XEnvironment resistance is rated at no freezing or condensation.

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Compact, Non-indicating Pressure Sensor

Dimensions

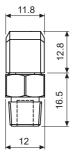


(unit: mm)

CONTROLLERS

MOTION DEVICES

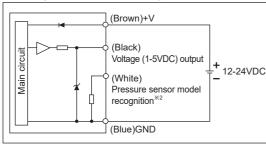
SOFTWARE



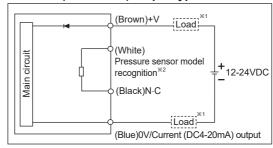
19.8 5 R1/8" Ø3, 3m

Connections

• Voltage (1-5VDC) output type



• Current (DC4-20mA) output type



X1 : Load can be connected any directions.

※2 : Pressure sensor model is automatically recognized only by Autonics PSM Series, Multi-CH Pressure and Sensor indicator.

 \times Allowable load impedance: Max. 100 Ω for 12VDC power, Max. 500 Ω for 24VDC power

※ The product is not equipped with the output short over current protection circuit. If short-circuit the control output terminal or supply current over the rated specification, it may result in product damage.

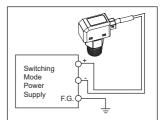
■ Proper Usage

- 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.
- 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







(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

> (F) Proximity Sensors

G) Pressure Sensors

(H) Rotary Encoders

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

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