

Series 10-PSE550

Low differential pressure sensor

How to Order



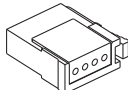
10—PSE550—□—□—□

• Clean series

Output specifications

Nil	1 to 5V voltage output type
28	4 to 20mA current output type

•Option 2 (Connector)

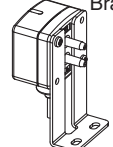
Nil	Without connector
C2	Connector for PSE300, pressure sensor monitor: 1 pc. 

Note 1) The current output type cannot be connected to series PSE300.
Note 2) Connector is packed together without being connected to the cable.

Option/Part no.

Description	Part no.	Note
Bracket	10-ZS-30-A	With M3 x 5L (2 pcs.)
Connector for PSE300 pressure sensor monitor	10-ZS-28-C	1 pc.

•Option 1 (Bracket)

Nil	Without bracket
A	Bracket 

Note) Brackets are packed together without being assembled.

Specifications

Model	10-PSE550	10-PSE550-28
Rated differential pressure range	0 to 2kPa	
Operating pressure range	-50 to 50 kPa ^{Note)}	
Proof pressure	65kPa	
Fluid	Air, non-corrosive gas, non-flammable gas	
Power supply voltage	12 to 24VDC, Ripple (p-p) 10% or less (with power supply polarity protection)	
Current consumption	15 mA or less	—
Output specification	Analog output 1 to 5VDC (Within the rated differential pressure range) Output impedance: Approx. 1kΩ	Analog output 4 to 20 mADC (Within the rated differential pressure range) Allowable load impedance: 500Ω or less (at 24VDC) 100Ω or less (at 12VDC)
Accuracy (Operating temperature 25°C)	±1%F.S. or less	
Linearity	±0.5%F.S. or less	
Repeatability	±0.3%F.S. or less	
Indicator light	Orange (ON when energized)	
Environmental resistance	Enclosure	IP40
	Operating temperature range	Operating: 0 to 50°C, Stored: -20 to 70°C (with no condensation or freezing)
	Operating humidity range	Operating and stored: 35 to 85% RH (with no condensation)
	Withstand voltage	1000VAC, 50/60Hz, for 1 min, between live parts and case
	Insulation resistance	50 MW or more(measured by 500VDC mega meter) between live parts and case
	Vibration resistance	10 to 150Hz, at whichever smaller of 1.5mm amplitude or 100m/s ² acceleration, in X, Y and Z directions, for 2 hours each (de-energized)
Impact resistance	300m/s ² , 3 times each for X, Y and Z directions (de-energized)	
Temperature characteristics	±3%F.S. or less (based on 25°C)	
Port size	ø4.8 (ø4.4 in the end) resin piping (Applicable to ø4 air tubing)	
Wetted part material	Resin pipe: Nylon, Pressure sensor: Silicon	
Sensor cable	3-wire oval cable (0.15mm ²)	2-wire oval cable (0.15mm ²)
Weight	With sensor cable	75g
	Without sensor cable	35g
Particle generation grade (Refer to front matters 13 to 22 for details.)	Grade 2	

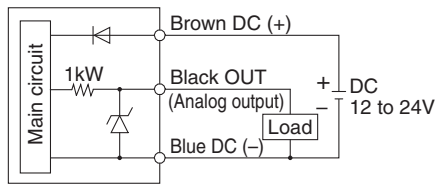
Note) The differential pressure of 0 to 2kPa can be detected within the range of -50 to 50kPa.

⚠ Caution

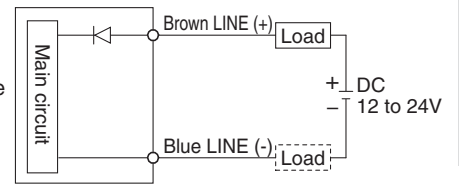
This product is blown with air and double packed in a Class M3.5 (ISO Class 5) cleanroom.

Internal circuit

10-PSE550
Voltage output type
1 to 5V
Output impedance
Approx. 1kΩ

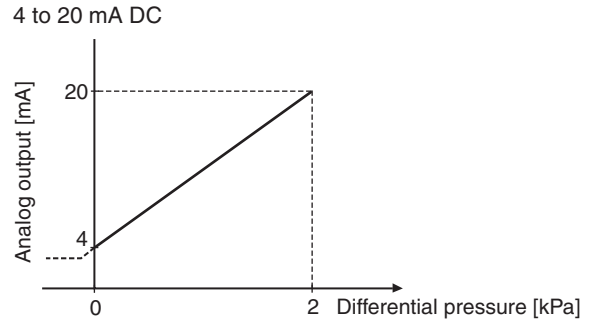
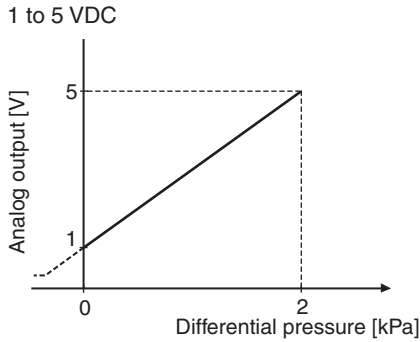


10-PSE550-28
Current output type
4 to 20mA
Allowable load impedance
500Ω or less (at 24VDC)
100Ω or less (at 12VDC)

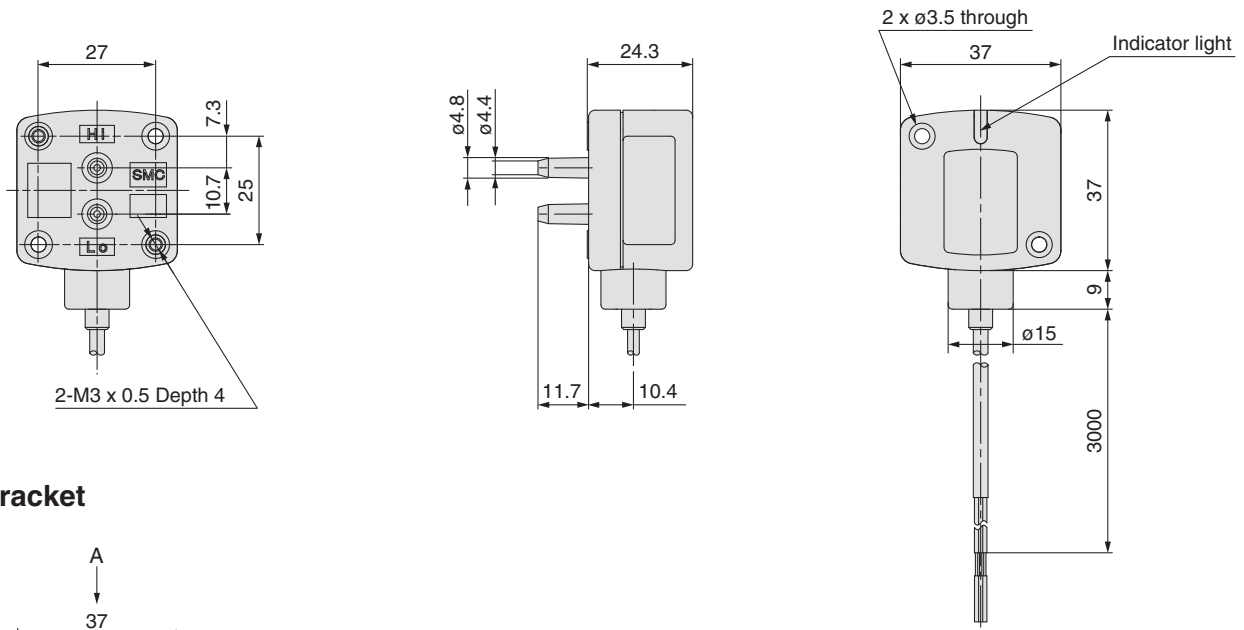


Install the load either on the LINE (+) or LINE (-) side.

Analog output



Dimensions



With bracket

