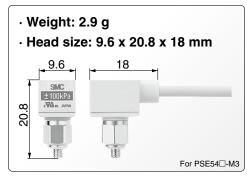


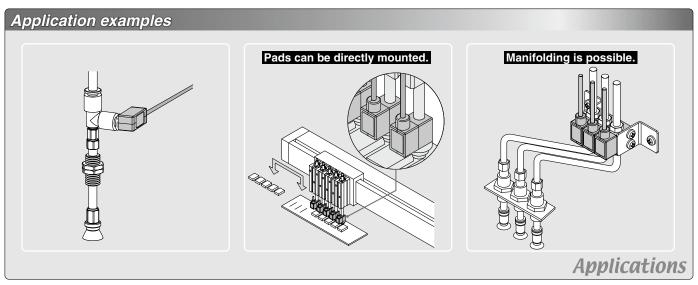
Series PSE540





Series		Rated pressure range				
	−100 kPa	0	100 kPa	500 kPa	1 MPa	
PSE540		0	\$	<u> </u>	1 MPa	
PSE541	-101 kPa	0				
PSE543	-100 kPa		100 kPa	 		





Compact Pneumatic Pressure Sensor

Series PSE540





How to Order

	Sensor range •	•	Accura	ісу	_
0	Positive pressure [0 to 1 MPa]		Nil	±2% F.S.	_
1	Negative pressure [0 to -101 kPa]		Α	±1% F.S.	
3	Compound pressure [-100 to 100 kPa]	- 1			`
	DCE5/1			M2 _	

Port size ● M3 x 0.5 М3 M5 female thread, IM5 through type М5 M5 x 0.8 01 R1/8 (with M5 female thread) M5 female thread, IM5H through type N01 NPT1/8 (with M5 female thread) (with mounting hole)

Option (Connector)				
Nil	None			
	Connector for pressure sensor controller (1 pc.)			
C2				

Note) The connector is not attached to the cable, but is included with the shipment.

Option/Part No.

Description	Part no.	Note
Connector for pressure sensor controller	ZS-28-C	1 pc.

Specifications

ø4 reducer ø6 reducer

R04

For Pressure Switch Precautions and Specific Product Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website.

	Model	PSE540	PSE541	PSE543	
Rate	d pressure range	0 to 1 MPa	0 to -101 kPa	-100 to 100 kPa	
Exte	nsion analog output range	-0.1 to 0 MPa	10.1 to 0 kPa	_	
Proof pressure		1.5 MPa	500 kPa		
Appl	licable fluid	А	ir/Non-corrosive gas/Non-flammable ga	ıs	
Pow	er supply voltage	12 to 24 VDC ±10%,	Ripple (p-p) 10% or less (with reverse of	connection protection)	
Curr	ent consumption		15 mA or less		
Outp	out specifications	Analog output 1 to 5 V (within rated pressure	range), 0.6 to 1 V (within extension analog ou	tput range), Output impedance: Approx. 1 $k\Omega$	
Accı	uracy (Ambient temperature	ure PSE54□: ±2% F.S. (within rated pressure range), ±5% F.S. (within extension analog output range)			
at 25	5°C)	PSE54□A: ±1% F.S. (within rated pressure range), ±3% F.S. (within extension analog output rang			
Line	arity	±0.7% F.S. or less ±0.4% F.S.			
Repe	eatability	±0.2% F.S.			
Pow	er supply voltage effect	±0.8% F.S.			
Ħ	Enclosure		IP40		
Environment	Operating temperature range	Operating: 0 to 5	50°C, Stored: –20 to 70°C (No freezing	or condensation)	
E	Operating humidity range	Opera	ting/Stored: 35 to 85% RH (No condens	sation)	
- Ē	Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing			
ш	Insulation resistance	$50~\text{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing			
Tem	perature characteristics		±2% F.S. (25°C reference)		
Sens	sor cable	Oilproof heavy-duty vinyl cable (ellipse), 3 cores, 2.7 x 3.2, 3 m, Conductor area: 0.15 mm², Insulator O.D.: 0.9			
Stan	dards	CE, UL/CSA (E216656), RoHS			

Piping Specifications

riping .	pecifications								
	Model	М3	M5	01	N01	R04	R06	IM5	IM5H
Port size		M3 x 0.5	M5 x 0.8	R1/8 M5 x 0.8	NPT1/8 M5 x 0.8	ø4 reducer	ø6 reducer	M5 female thread, through type	M5 female thread, through type (with mounting hole)
Material	Case	Resin ca Fitting: Stainl	se: PBT ess steel 303	Resin ca Fitting: C	ase: PBT 3604BD	PRT Resin o		Resin ca	ase: PBT 6063S-T5
Pressure sensing section Pressure sensor: Silicon, O-ring: NBR									
Weight	With sensor cable	42.4 g	42.7 g	49.	3 g	41.4 g	41.6 g	43.3 g	44.1 g
weight	Without sensor cable	2.9 g	3.2 g	9.	8 g	1.9 g	2.1 g	3.8 g	4.6 g



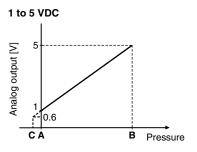
Internal Circuit and Wiring Example

PSE54□

Voltage output type 1 to 5 V Output impedance Approx. 1 $k\Omega$



Analog Output

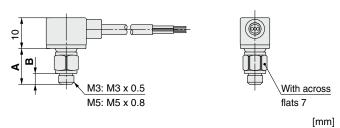


Range	Rated pressure range	Α	В	С
For vacuum	0 to -101 kPa	0	-101 kPa	10.1 kPa
For compound pressure	-100 kPa to 100 kPa	-100 kPa	100 kPa	_
For positive pressure	0 to 1 MPa	0	1 MPa	-0.1 MPa

Dimensions

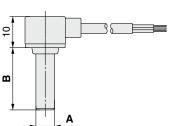


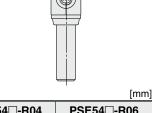




	PSE54□-M3	PSE54□-M5
Α	10.8	11.5
В	3	3.5

PSE54□-R04

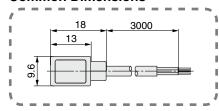




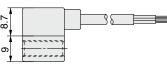
	PSE54□-R04	PSE54□-R06
Α	ø4	ø6
В	18	20

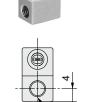
Common Dimensions

PSE54□-01 N01



PSE54□-IM5







PSE54□-IM5H



M5 x 0.8

