Compact Pneumatic Pressure Sensor

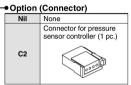
PSE540 Series





How to Order

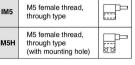
Sensor range						
0	Positive pressure [0 to 1 MPa]		Nil	±2% F.S.	_	
1	Negative pressure [0 to -101 kPa]		Α	±1% F.S.	i I	
3	Compound pressure [-100 to 100 kPa]					
PSE54 1 - M3 -						



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

Port size •

IVIS	IVI3 X U.5		١,
M5	M5 x 0.8	₽	
01	R1/8 (with M5 female thread)		
N01	NPT1/8 (with M5 female thread)		"
R04	ø4 reducer		
B06	ø6 reducer		



Option/Part No.

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

Specifications

Refer to pages 11 and 12 for Pressure Switch Precautions. For details about the Specific Product Precautions, refer to the Operation Manual on the SMC website, http://www.smcworld.com Click here for details.

Model		PSE540	PSE541	PSE543			
Rated pressure range		0 to 1 MPa	0 to -101 kPa	-100 to 100 kPa			
Extension analog output range		-0.1 to 0 MPa	10.1 to 0 kPa	_			
Proof pressure		1.5 MPa	500 kPa				
Applicable fluid		Air/Non-corrosive gas/Non-flammable gas					
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (with reverse connection protection)					
Current consumption		15 mA or less					
Output specifications		Analog output 1 to 5 V (within rated pressure range), 0.6 to 1 V (within extension analog output range), Output impedance: Approx. 1 k Ω					
Accuracy (Ambient temperature		PSE54□: ±2% F.S. (within rated pressure range), ±5% F.S. (within extension analog output range)					
at 25°C)		PSE54□A: ±1% F.S. (within rated pressure range), ±3% F.S. (within extension analog output range)					
Linearity		±0.7% F.S. or less	±0.4%	±0.4% F.S.			
Repeatability		±0.2% F.S.					
Power supply voltage effect		±0.8% F.S.					
Ħ	Enclosure	IP40					
Environment	Operating temperature range	Operating: 0 to 50°C, Stored: -20 to 70°C (No freezing or condensation)					
6	Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)					
2	Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing					
ш	Insulation resistance	$50\mathrm{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing					
Temperature characteristics		±2% F.S. (25°C reference)					
Sensor 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 mm					
Standards		CE, UL/CSA (E216656), RoHS					

Piping Specifications

r iping opcomodions									
	Model	M3	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		se: PBT ess steel 303	Resin ca Fitting: C	ase: PBT 03604BD	PBT		Resin case: PBT Fitting: A6063S-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
	Without sensor cable	2.9 g	3.2 g	9.	.8 g	1.9 g	2.1 g	3.8 g	4.6 g