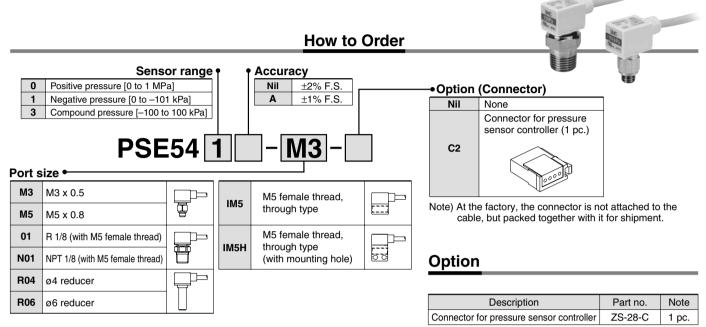
Compact Pneumatic Pressure Sensor

Series PSE540





Specifications

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 power supply polarity protection)				
Current consumption		15 mA or less				
Output specification		Analog output 1 to 5 V (with rated pressure range), 0.6 to 1 V (with extension analog output range), Output impedance: Approx. 1 kΩ				
Accuracy (Ambient temperature		PSE54□: ±2% F.S. or less (with rated pressure range), ±5% F.S. or less (with extension analog output range)				
at 25°C)		PSE54□A: 1% F.S. or less (with rated pressure range), ±3% F.S. or less (with extension analog output range)				
Linearity		±0.7% F.S. or less	±0.4% F.S. or less			
Repeatability		±0.2% F.S. or less				
Power supply voltage effect		±0.8% F.S. or less				
	Enclosure	IP40				
=	Operating temperature range	Operating: 0 to 50°C, Stored: –20 to 70°C (No freezing or condensation)				
e e	Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)				
ıme	Withstand voltage	1000 VAC, 50/60 Hz for 1 minute between live parts and case				
iror sis	Insulation resistance	$50~\text{M}\Omega$ or more between live parts and case (at 500 VDC Mega)				
Environmental resistance	Vibration resistance	10 to 500 Hz at whichever is smaller of 1.5 mm amplitude or 98 m/s ² acceleration,				
	VIDIALIOII TESISLATICE	in X, Y, Z directions, for 2 hours each (De-energized)				
	Impact resistance	980 m/s ² in X, Y, Z directions, 3 times each (De-energized)				
Temperature characteristics		±2% F.S. or less (Based on 25°C)				
Standards		Compliant with CE marking, UL (CSA)				

Piping Specifications

. iping oppositionations									
	Model	M3	M5	01	N01	R04	R06	IM5	IM5H
Port size		M3 x 0.5 M5 x 0.8	M5 x 0.8	R 1/8	NPT 1/8	ø4 reducer	ø6 reducer	M5 female thread,	M5 female thread,
			WIS X 0.0	M5 x 0.8	M5 x 0.8			through type	through type (with mounting hole)
	Case	Resin case: PBT Resin case: PBT		PBT		Resin case: PBT			
Material		Fitting: Stainless steel 303 Fitting: C3604BD				Fitting: A6063S-T5			
	Pressure sensing section	Pressure sensor: Silicon, O-ring: NBR							
Sensor cable		Oil proof 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							
Mass	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

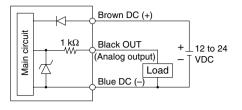


Compact Pressure Sensor for Pneumatics Series PSE540

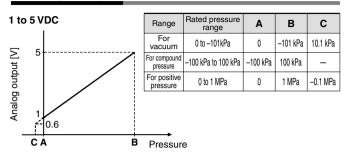
Internal Circuit

PSE54□

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



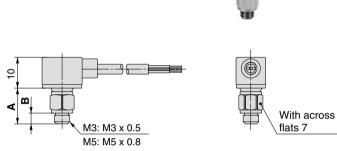
Analog Output



Dimensions

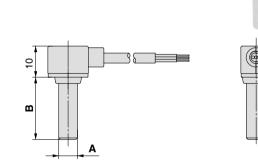






		(mm)
	PSE54□-M3	PSE54□-M5
Α	10.8	11.5
В	3	3.5

PSE54□-R04



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

ZSE ISE

ZSP

PS

ISA

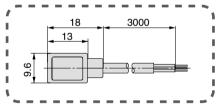
PSE

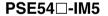
IS

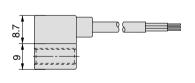
ISG

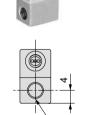
ZSM

Common Dimensions

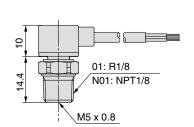




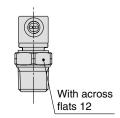




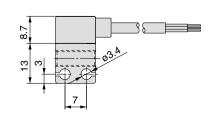
PSE54□-01 N01







PSE54□-IM5H





M5 x 0.8

