Pressure Sensor PSE530 Series



ZSE20 ISE20

ZSE30 ISE30 ZSE40 ISE40

ZSE10 ISF10

ISE70

ZSE80

ISE80

PS

ISA3

ISA2

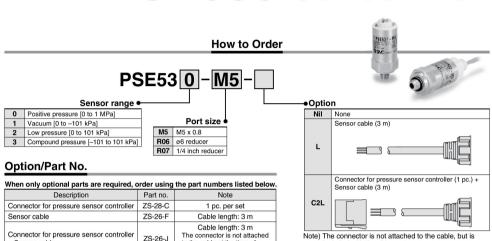
ISE35

PSE

IS

ISG

ZSM1



to the cable at the time of

shipment.

Specifications

+ Sensor cable

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.

included with the shipment.

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Model		PSE530 (Positive pressure)	PSE531 (Vacuum)	PSE532 (Low pressure)	PSE533 (Compound pressure)	
Rated pressure range		0 to 1 MPa	0 to -101 kPa	0 to 101 kPa	-101 to 101 kPa	
Extension analog output range		-0.1 to 0 MPa	10.1 to 0 kPa	-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 (with no load)				
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 kΩ				
Accuracy (Ambient temperature at 25°C)		±2% F.S. (within rated pressure range), ±5% F.S. (within extension analog output range)				
Linearity		±1% F.S.				
Repeatability		±1% F.S.				
Power supply voltage effect		±1% F.S. based on the analog output at 18 V ranging from 12 to 24 VDC				
Ħ	Enclosure	IP40				
Environment	Temperature range	Operating: 0 to 50°C; Stored: -10 to 70°C (No freezing or condensation)				
	Withstand voltage	1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing				
<u>.</u>	Insulation resistance	$5\mathrm{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing				
Temperature characteristics		±2% F.S. (25°C reference)				
Sensor cable/Option		Halogen-free heavy-duty cable, 3 cores, ø2.7, 3 m, Conductor area: 0.15 mm², Insulator O.D.: 0.8 mm				
Standards		CE. RoHS				

Piping Specifications

Model		M5	R06	R07		
Port size		M5 x 0.8 male thread	ø6 reducer type	1/4 inch reducer type		
Materials of parts in contact with fluid		Pressure sensor: Silicon, O-ring: NBR				
		Body: Stainless steel 304	Body: PBT			
Weight	With sensor cable (3 m)	41 g	38 g			
	Without sensor cable	7 g	3.8 g			