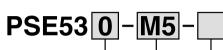
Pressure Sensor

Series PSE530







Sensor range •

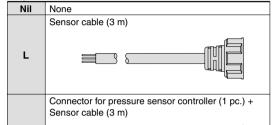
0	Positive pressure [0 to 1 MPa]		
1	Vacuum [0 to -101 kPa]		
2	Low pressure [0 to 101 kPa]		
3	Compound pressure [-101 to 101 kPa]		

Port size

IVIO	IVIO X 0.0
R06	ø6 reducer
R07	1/4 inch reducer

Option

C2L



Note) At the factory, the connector is not attached to the cable, but packed together with it for shipment.

Option

When only optional parts are required, order using the part numbers listed below.

Description	Part no.	Note
Connector for pressure sensor controller	ZS-28-C	1 pc. per set
Sensor cable	ZS-26-F	Cable length: 3 m
Connector for pressure sensor controller + Sensor cable	ZS-26-J	Cable length: 3 m The connector is not attached to the cable at the time of shipment.

Specifications

					DOTTO (2	
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			
Applica	ble 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 (with no load)				
Output specification Analog output 1 to 5 V (with rated pressure range), 0.6 to 1 V (with extension analog output range), Output impedance			Output impedance: Approx. 1 k Ω			
Accuracy (Ambient temperature at 25°C)		±2% F.S. or less (with rated pressure range), ±5% F.S. or less (with extension analog output range)				
Linearity		±1% F.S. or less				
Repeatability		±1% F.S. or less				
Power supply voltage effect ±1%		±1% F.S.	±1% F.S. or less based on the analog output at 18 V ranging from 12 to 24 VDC			
_	Enclosure	IP40				
Se au	Temperature range	Operating: 0 to 50°C; Stored: -10 to 70°C (No freezing or condensation)			sation)	
tan	Withstand voltage	1000 VAC, 50/60Hz for 1 minute between live parts and case				
iror	Insulation resistance	$5~\text{M}\Omega$ or more between live parts and case (at 500 VDC Mega)				
Environmental resistance	Vibration resistance 10 to 500 Hz 1.5 mm amplitude or 98 m/s² acceleration, X, Y, Z directions for 2 hours each (De-energize			rs each (De-energized)		
ш	Impact resistance	980 m/s² in X, Y, Z directions, 3 times each (De-energized)				
Temperature characteristics		±2% F.S. or less (Based on 25°C)				
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			sulator O.D.: 0.8 mm	
Standards		Compliant with CE marking				

Piping Specifications

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

ZSE ISE

ZSP

PS

ISA

PSE

IS

ISG ZSM