Outline

General

High temp.

Low temp

Absolute pressure

High pressure

Pressure transmitter

Differential

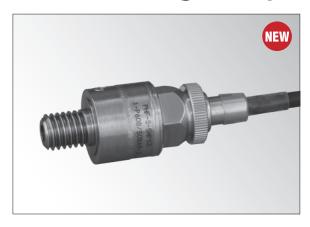
pressure

Distributed

PHF-S-S3 Series

-40 to 150°C 2 to 20 MPa

Small-sized High-temperature Pressure Transducer



Excellent in environmental performance

- Enable to reduce weight effect on measuring
- After removing the connector, enables to install in a limited space by a socket wrench

To Ensure Safe Usage

These models are designed for measuring oil pressure.

It is necessary to mount protection covers around the transducer for measuring air pressure.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.3% RO
Hysteresis	Within ±0.2% RO
Rated Output	Approx. 1.75 mV/V

Environmental Characteristics

Safe Temperature	-40 to 160°C (Connector plug: -25 to 85°C)
Compensated Temperature	-40 to 150°C (Connector plug: -25 to 85°C)
Temperature Effect on Zero	Within ±0.008% RO/°C
Temperature Effect on Output	Within ±0.01%/°C

Electrical Characteristics

Erectificat characteristics				
Safe Excitation	5 V AC or DC			
Recommended Excitation	1 to 2 V AC or DC			
Input Resistance	350 Ω ±5%			
Output Resistance	350 Ω ±5%			
Insulation Resistance	sistance 500 MΩ (25 VDC) or more			
Standard Cable	4-conductor (0.09 mm ²) silicone shielded			
(Optional Accessory)	cable, 3 mm diameter by 4 m long			
	Sensor side: Special connector			
	Measuring instrument side: PRC03-12A10-7M			
	(Shield wire is not connected to the case.)			

Mechanical Properties

Safe Overloads	150%	
Natural Frequencies	See table below.	
Material	Liquid-contacting part: SUS 630	
Weight	Approx. 20 g (Excluding cable)	
Degree of Protection	IP45 (IEC 60529)	
Mounting Screw	See table below.	
Standard Accessories Hexagon wrench for air vent screw		
	Excluding PHF-S-\(\text{MPS3F}\)	

O-ring A5568-010, fluororubber x 2 (PHF-S-\(\triangle MPS3E\)

Optional Accessories

Standard cable PHF-S-S3-J1

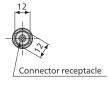
2 MPa	45 kHz
5 MPa	60 kHz
10 MPa	70 kHz
20 MPa	85 kHz
	5 MPa 10 MPa

^{*}The \square comes from A to F stands different screws

φ3.5 Pressure inlet	(35) D 20.5	910

\Air vent hole

Dimensions



Models	Α
PHF-S-△MPS3A	R1/8
PHF-S-△MPS3B	M8×1.25
PHF-S-△MPS3C	M10×1.25
PHF-S-△MPS3D	M10×1.0
PHF-S-△MPS3E	5/16-24UNF
PHF-S-△MPS3F	G1/8

*△ means capacity of each model.

Connector receptacle

10

c

φ14

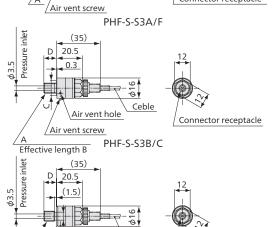
φ8.2

φ6.3

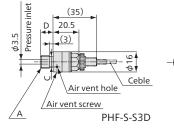
D 10

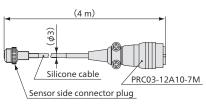
12 10

10



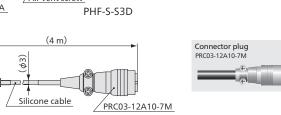
PHF-S-S3E







Standard cable (Optional accessories)





/c1

/ A

Connector receptacle