

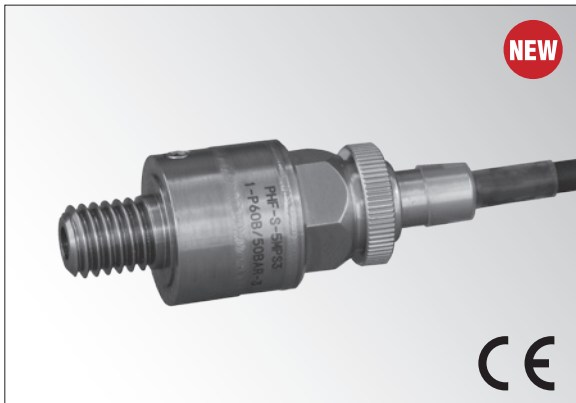
PHF-S-S3 Series

● -40 to 150°C
● 2 to 20 MPa

Small-sized High-temperature Pressure Transducer

2
-98

TRANSDUCERS



Excellent in environmental performance

- Enable to reduce weight effect on measuring objects
- 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

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	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.
Compliance	Directive 2011/65/EU (RoHS)

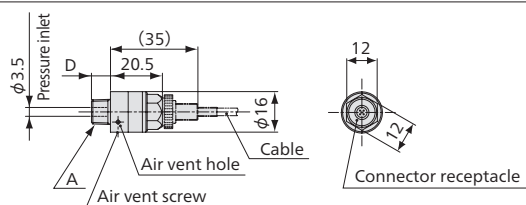
Standard Accessories	Hexagon wrench for air vent screw (Excluding PHF-S-△MPS3E) O-ring AS568-010, fluororubber x 2 (PHF-S-△MPS3E)
Optional Accessories	Standard cable PHF-S-S3-J1

Models	Rated Capacity	Natural Frequencies (Approx.)
● PHF-S- 2MPS3□	2 MPa	45 kHz
● PHF-S- 5MPS3□	5 MPa	60 kHz
● PHF-S-10MPS3□	10 MPa	70 kHz
● PHF-S-20MPS3□	20 MPa	85 kHz

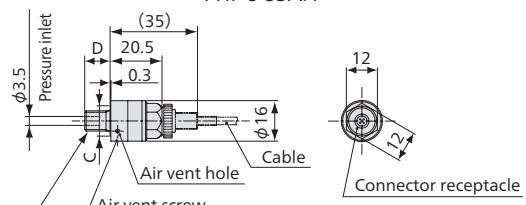
● For delivery date, please contact us.

*The □ comes from A to F stands different screws.

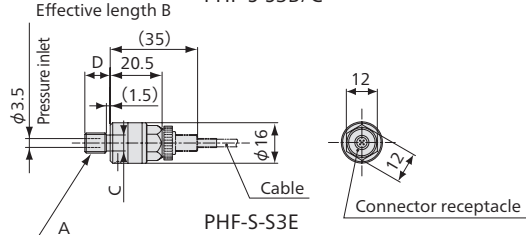
Dimensions



PHF-S-S3A/F



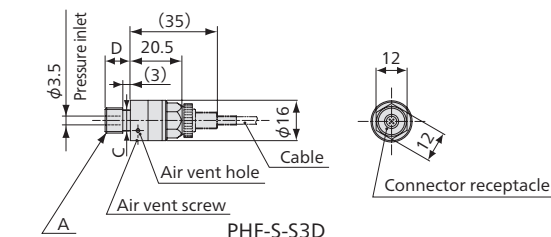
PHF-S-S3B/C



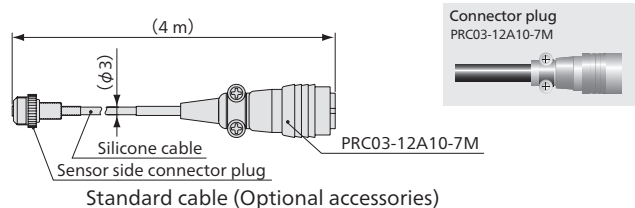
PHF-S-S3E

Models	A	B	C	D
PHF-S-△MPS3A	R1/8	-	-	7.5
PHF-S-△MPS3B	M8x1.25	8	φ12	10
PHF-S-△MPS3C	M10x1.25	10	φ14	12
PHF-S-△MPS3D	M10x1.0	-	φ8.2	10
PHF-S-△MPS3E	5/16-24UNF	-	φ6.3	10
PHF-S-△MPS3F	G1/8	-	-	9

*△ means capacity of each model.



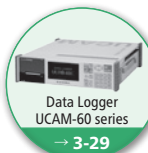
PHF-S-S3D



Standard cable (Optional accessories)

- Physical quantity indication
- Static measurement
- Dynamic measurement

PHF-S-S3 Series
Recommended
products for
combination



Pressure Transducers

Outline

General

High temp.
Low temp.

Absolute pressure
High pressure

Pressure transmitter

Differential pressure

Distributed pressure