Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor

PHF-S-S3 Series

CE

Small-sized High-temperature Pressure Transducer



Compact, for high temperatures

- **Rated capacity: 2 to 20 MPa**
- **High temp (compensated: -40 to 150°C)**
- **Easily installed with a socket wrench by removing the connector**

Pressure transducers with easy cable routing and replacement during installation. Mounting screws can be made to fit UNF, pipes, etc. if within a size from 8 to 12 mm in diameter.

To Ensure Proper Usage

This product is for measuring oil pressure. Install a protective cover if measuring a gas.

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℃ (Connector plug: -25 to 85℃)
Compensated Temperature	-40 to 150℃ (Connector plug: -25 to 85℃)
Temperature Effect on Zero	Within ±0.008% RO/℃
Temperature Effect on Output	Within ±0.01%/℃
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 cable,
(Optional Accessory)	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: SUS630
Weight	Approx. 20 g (Excluding cable)
Degree of Protection	IP45 (JIS C 0920/IEC 60529)
Mounting Screw	See table below.
Compliance	Directive 2011/65/EU,(EU)2015/863(10 restricted substances) (RoHS)

*Specifications and appearance subject to change without prior notice.

*Please contact us for information on product warranties.

■Standard Accessories Hexagon wrench for air vent screw (Excluding PHF-S-△MPS3E)
O-ring AS568-010, fluoro rubber × 2 (PHF-S-△MPS3E)

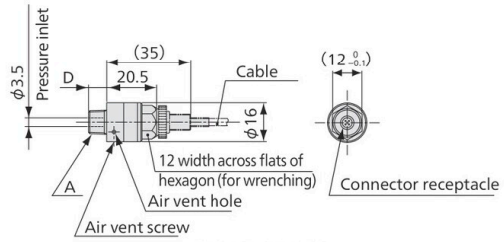
■Optional Accessories Standard cable PHF-S-S3-J1

■Models

Model*	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

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

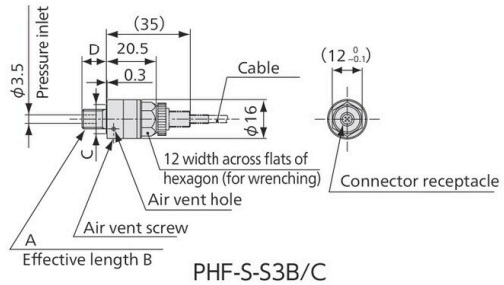
Dimensions



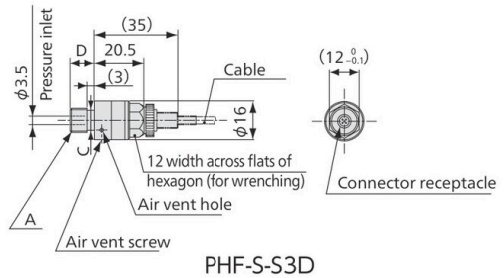
PHF-S-S3A/F

Model	A	B	C	D
PHF-S-△MPS3A	R1/8	—	—	7.5
PHF-S-△MPS3B	M8×1.25	8	ϕ12	10
PHF-S-△MPS3C	M10×1.25	10	ϕ14	12
PHF-S-△MPS3D	M10×1.0	—	ϕ8.2	10
PHF-S-△MPS3E	5/16-24UNF	—	ϕ6.3	
PHF-S-△MPS3F	G1/8	—	—	9

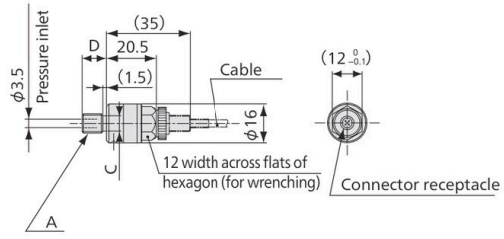
*△ means capacity of each model.



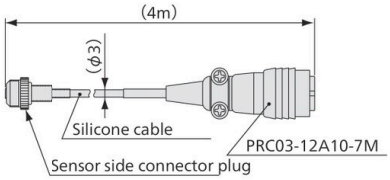
PHF-S-S3B/C



PHF-S-S3D



PHF-S-S3E



Standard cable
(Optional accessories)

