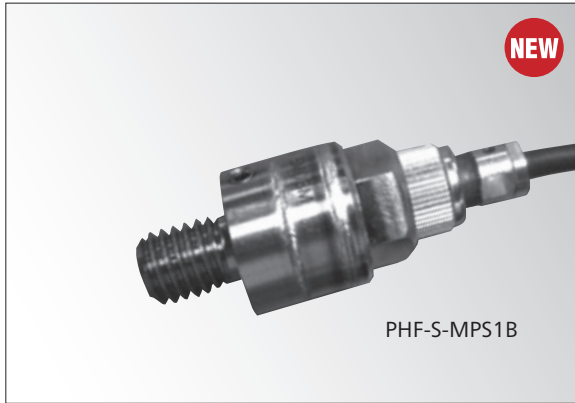


PHF-S-S1 Series

● -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 objects
- After removing the connector, enables to install in a limited space by a socket wrench

Specifications

Performance

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

Environmental Characteristics

Safe Temperature	-40 to 160°C
Compensated Temperature	-40 to 150°C
Temperature Effect on Zero	Within $\pm 0.008\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.01\%$ /°C

Electrical Characteristics

Safe Excitation	5 V AC or DC
Recommended Excitation	1 to 2 V AC or DC
Input Resistance	350 $\Omega \pm 5\%$
Output Resistance	350 $\Omega \pm 5\%$
Cable	4-conductor (0.08 mm ²) silicon cable, terminated with connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

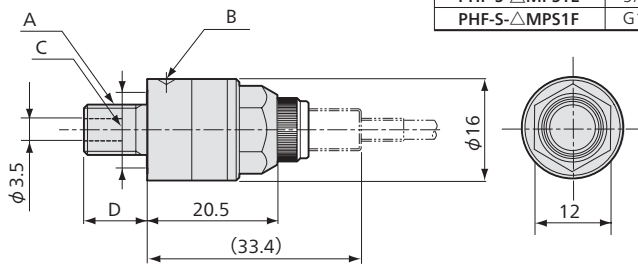
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Liquid-contact part: SUS 630
Weight	Approx. 20 g (Excluding cable)
Degree of Protection	IP45 (IEC 60529)
Mounting Screw	See table below.

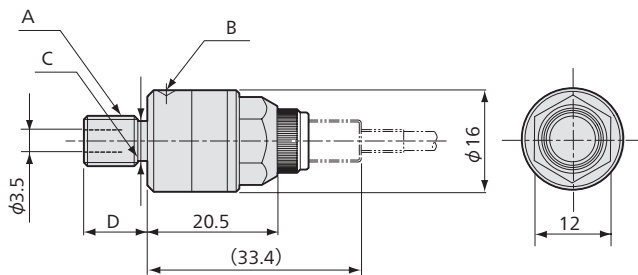
Models	Rated Capacity	Natural frequencies
PHF-S- 2MPS1□	2 MPa	≈ 45 kHz
PHF-S- 5MPS1□	5 MPa	≈ 60 kHz
PHF-S- 10MPS1□	10 MPa	≈ 70 kHz
PHF-S-20MPS1□	20 MPa	≈ 85 kHz

Dimensions

The suffix comes from A to F stands different screws and cable length.



PHF-S-MPS1A/B/C/F



PHF-S-MPS1D/E

Models	A	B	C	D	Cable Length
PHF-S-△MPS1A	R1/8	Air-vent screw	-	7.5	4 m
PHF-S-△MPS1B	M8×1.25	Air-vent screw	φ12	10	4 m
PHF-S-△MPS1C	M10×1.25	Air-vent screw	φ14	12	4 m
PHF-S-△MPS1D	M10×1.0	Air-vent screw	φ8.2	10	5 m
PHF-S-△MPS1E	5/16-24UNF	-	φ6.3	10	4.5 m
PHF-S-△MPS1F	G1/8	Air-vent screw	-	9	4 m

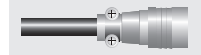
*△ means capacity of each model

Note:

These models are designed for measuring oil pressure. It is necessary to mount protection covers around the transducer for measuring air pressure.

Connector plug

PRC03-12A10-7M



Note:

UNF and G type screws are available from size 8 to 12 mm.

- Physical quantity indication
- Static measurement
- Dynamic measurement

PHF-S-S1 Series
Recommended
products for
combination

