

PHF-S-SA4

● -40 to 150°C ● 2 to 10 MPa

Small-sized High-temperature Pressure Transducer



Compact & Lightweight Usable at up to 150°C

As an upgraded version of PHF-S-SA2 series, PHF-S-SA4 series is designed to be more compact and lightweight and applicable up to 150°C.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.3\%$ RO
Hysteresis	Within $\pm 0.2\%$ RO
Rated Output	Approx. 0.5 mV/V

Environmental Characteristics

Safe Temperature	-40 to 170°C (Excl. connector)
Compensated Temperature	-40 to 150°C (Excl. connector)
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.05\%$ /°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 (0.09 mm ²) fluoroplastic shielded cable, 3.1 mm diameter by 50 cm long, terminated with R04-P5M connector plug (Shield wire is not connected to the case.)

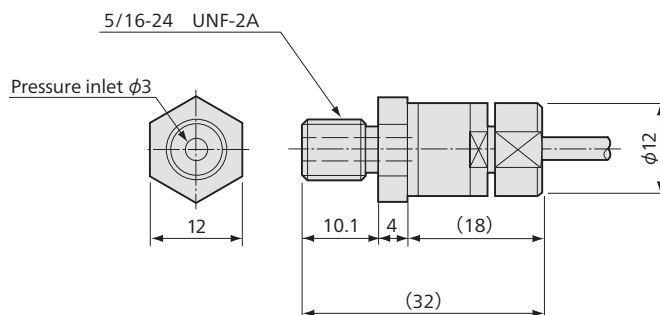
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Material	Metallic finish
Degree of Protection	IP63 (IEC 60529)
Weight	Approx. 20 g (Excluding cable)
Mounting Screw	5/16-24UNF, male
RoHS Directive	EN50581

Standard Accessories Extension cable: 4-conductor (0.09 mm²) fluoroplastic shielded cable, 3.1 mm diameter by 4 m long, terminated with R04-J5F to the sensor and PRC03-12A10-7M to measuring instruments.
O-ring: AS568 010

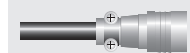
Models	Rated Capacity	Natural Frequencies
PHF-S-2MPSA4	2 MPa	≈ 110 kHz
PHF-S-5MPSA4	5 MPa	≈ 120 kHz
PHF-S-10MPSA4	10 MPa	≈ 170 kHz

Dimensions



Extension cable

Connector plug
PRC03-12A10-7M



● Physical quantity indication ● Static measurement ● Dynamic measurement

PHF-S-SA4
Recommended
products for
combination

