

PHF-S-SA2 High-Temp. Small-Sized Pressure Transducers

● Vibration Resistance 490.3 m/s² ● 2 to 20 MPa



Specifications

Performance

Rated Capacity: Refer to table below.

Nonlinearity:

Within ±0.4% RO (PHF-S-2MPSA2)

Within ±0.3% RO (PHF-S-5 to 20MPSA2)

Hysteresis: Within ±0.2% RO

Rated Output: 2 mV/V (4000 μm/m)

Environmental Characteristics

Safe Temperature Range: -40 to 170°C

Compensated Temperature Range: -40 to 150°C

Temperature Effect on Zero: Within ±0.008% RO/°C

Temperature Effect on Output: Within ±0.01%/°C

Electrical Characteristics

Safe Excitation Voltage: 10 VAC or DC

Recommended Excitation Voltage: 1 to 5 VAC or DC

Input Resistance: 350 Ω ±2%

Output Resistance: 350 Ω ±2%

Cable: 4-conductor (0.09 mm²) fluoroplastic shielded cable, 3 mm diameter by 4 m long, terminated with NDIS connector plug

Mechanical Properties

Safe Overload Rating: 150%

Natural Frequency: Refer to table below.

Material: Liquid-contact part SUS630

Weight: Approx. 50 g

Mounting Screw: R1/8 male

Standard Accessories

Air vent screw with slot

Hexagon wrench for M3 air vent screw

Model	Rated Capacity	Natural Frequency (Approx.)
PHF-S-2MPSA2	2 MPa	25 kHz
PHF-S-5MPSA2	5 MPa	50 kHz
PHF-S-10MPSA2	10 MPa	70 kHz
PHF-S-20MPSA2	20 MPa	100 kHz

Features

- Compact and lightweight
- Usable at high temperatures up to 150°C
- High vibration resistance 490.3 m/s² (50 G)
- Highly stable

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AUTOMOTIVE TEST EQUIPMENT

Dimensions

