# PHF-S-SA2

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

### **Small-sized High-temperature Pressure Transducer**



## Compact & Lightweight, Usable at up to 150°C

- ●High vibration resistance: 490.3 m/s² (50 G)
- Highly stable

PHF-S-SA2 series are small-sized strain-gage type pressure transducers which are usable in 150°C environment.

#### **Specifications**

#### Performance

Rated Capacity	See table below.	
Nonlinearity	Within ±0.4% RO for 2 MPa	
	Within ±0.3% RO for 5 to 20 MPa	
Hysteresis	Within ±0.2% RO	
Rated Output	2 mV/V	

#### **Environmental Characteristics**

Safe Temperature -40 to 170°C				
(Connector plug: -25 to 80°C)				
Compensated Temperature	-40 to 150°C			
	(Connector plug: -25 to 80°C)			
Temperature Effect on Zero	Within ±0.008% RO/°C			
Temperature Effect on Output	Within ±0.01%/°C			

#### **Electrical Characteristics**

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Safe Excitation	10 V AC or DC			
Recommended Excitation	1 to 5 V AC or DC			
Input Resistance 350 Ω±2%				
Output Resistance	350 Ω±2%			
Cable 4-conductor (0.09 mm²) fluoroplastic shielded cable,				
3.1 mm diameter by 4 m long, terminated with connector plug				
PRC03-12A10-7M				

#### **Mechanical Properties**

Safe Overloads	150%	
<b>Natural Frequencies</b>	See table below.	
Material	Liquid-contacting part: SUS 630	
Weight	Approx. 50 g (Excluding cable)	
Mounting Screw	R1/8, male	
RoHS Directive	EN50581	

Standard Accessories Hexagon wrench for air vent screw (M3)

Models	Rated Capacity	Natural Frequencies
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

#### Dimensions















