



HRV • HRI



Features 1.Compact 2.For medium and high pressure

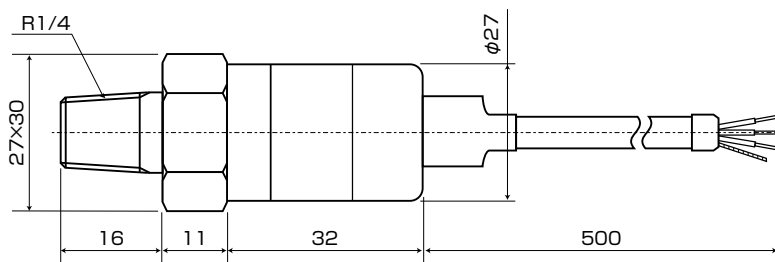
- Medium and high pressure sensor with a stainless steel diaphragm structure
- Support of a wide range of pressure media such as water and oil
- High accuracy and excellent durability
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit
- Pressure connection port R1/4 type

Specifications

Model	HRV • HRI		
	-003MP	-005MP	-010MP
Rated pressure	0 to 3MPa	0 to 5MPa	0 to 10MPa
Pressure type	Shield gauge pressure		
Overpressure	HRV : 200% of the rated pressure / HRI : 150% of the rated pressure		
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316 O-ring : Fluororubber (standard)		
Sealing liquid	Silicone oil		
Applicable media	Gas and fluid (media not damaging the wetted part material)		
Power supply	12 to 28VDC		
Output	HRV : 1 to 5VDC / HRI : 4 to 20mADC		
Current consumption	HRV : 6mA or less		
Load resistance	HRV : 1k Ω以上 / HRI : 600 Ω or less (at power of 24 VDC)		
Responsiveness	5msec or less		
Accuracy (linearity)	± 0.5% F.S. or less * 1 (± 0.3% F.S. or less)		
Temperature characteristics	± 0.05% F.S. / °C or less (0 to 60°C)		
Compensated temperature range	0 to 60°C		
Operating temperature range	- 20 to 80°C (no freezing allowed)		
Operating humidity range	35 to 85% RH (no dew condensation allowed)		
Pressure connection port	R1/4		
Cable	φ 6 vinyl : 500mm / 2000mm (standard) Shield cable		
Structure	IP65		
Insulation resistance	100M Ω or more / 500VDC		
Withstand voltage	500VAC, 1 minute		
Vibration resistance	98.1m / s ² , 2 hours (X, Y, and Z directions)		
Weight	Approx 200g		

* 1. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

Dimensions (Units : mm)



Cables / wires

	HRV	HRI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—

Model

H	R	V	-	0	0	5	M	P	-	0	2	-	V
Type				Pressure range			Unit of pressure			Cable length			O-ring
	Output mode						MP : MPa			Space : 0.5m			V : Fluororubber
	V : Voltage									02 : 2m			N : NBR
	I : Current									05 : 5m			X : Other
										10 : 10m			