



CZLV • CZLI



Features 1.Connector type 2.Titanium

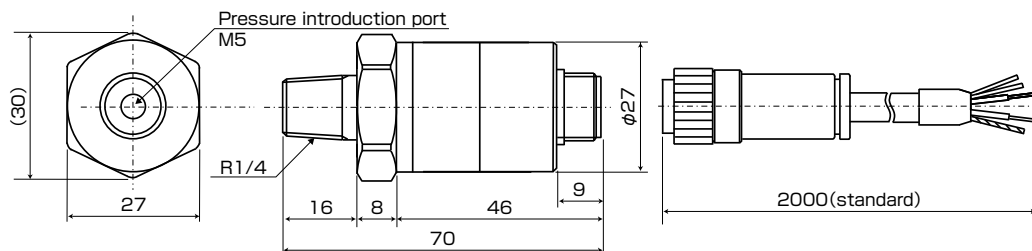
- Connector type of the “ZL series” gauge pressure sensor
- Easy to handle and highly maintainable
- The wetted part is entirely made of titanium that has high corrosion resistance.
- Gauge pressure sensor with a welded structure that does not use an O-ring in the wetted part
- Support of a wide range of pressure media such as seawater, gas, and medicinal solution

Specifications

Model	CZLV • CZLI						
	N-100KP	-020KP	-050KP	-100KP	-300KP	-500KP	-001MP
Rated pressure ※ 1	0 to -100kPa	0 to 20kPa	0 to 50kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 1MPa
Pressure type	Gauge pressure ※ 2						
Overpressure	CZLV : 200% of the rated pressure / CZLI : 150% of the rated pressure						
Wetted part material	Diaphragm : Titanium Pressure port : Titanium						
Sealing liquid	Silicone oil						
Applicable media	Gas and fluid (media not damaging the wetted part material)						
Power supply	12 to 28VDC						
Output	CZLV : 1 to 5VDC / CZLI : 4 to 20mADC						
Current consumption	CZLV : 6mA or less						
Load resistance	CZLV : 1k Ω or more / CZLI : 600 Ω or less (at power of 24 VDC)						
Responsiveness	5msec or less						
Accuracy (linearity)	± 0.5% F.S. or less ※ 3 (± 0.3% F.S. or less)						
Temperature characteristics	± 0.05% F.S. / °C以下 (0 to 60°C)						
Compensated temperature range	0 to 60°C						
Operating temperature range (Measurement medium temperature)	- 20 to 80°C (no freezing allowed) - 20 to 100°C (no freezing allowed)						
Operating humidity range	35 to 85% RH (no dew condensation allowed)						
Pressure connection port	R1/4						
Cable	φ 6 vinyl (with connector) : 2000mm (standard) Shield cable + atmospheric relief pipe						
Structure	IP66						
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						
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.1% F.S.	+ 0.5% F.S.	+ 0.3% F.S.	+ 0.1% F.S.			

※ 1.We also manufacture compound pressure sensors (gauge pressure of 500 kPa or less).
 ※ 2.Make sure that the operating vacuum pressure is 10 kPa abs or more. (Operating temperature range: 0 - 60°C)
 ※ 3.We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

Dimensions (Units : mm)



Cables / wires

	CZLV	CZLI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Yes	Yes

Model

