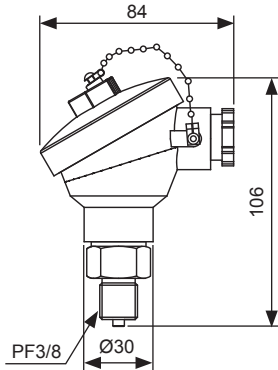


Pressure Transmitter

Dimensions

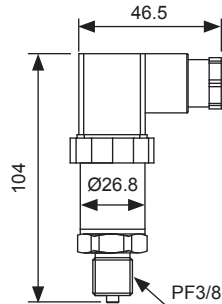
(unit:mm)

• Head type



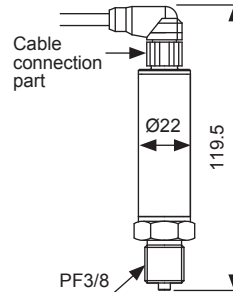
※ The standard pressure port for above is PF 3/8.

• DIN connector type

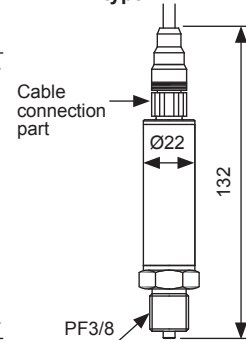


• Connector cable type

• L type

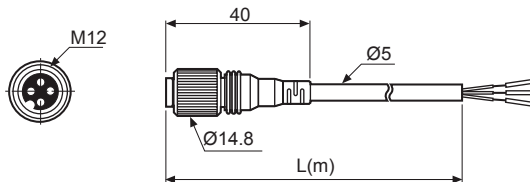


• I type



Cable(sold seperately)

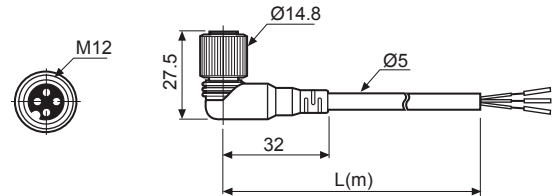
• CID3-2 / CID3-5



Model	L(m)	Material
CID3-2	2	PVC
CID3-5	5	

• CLD3-2 / CLD3-5

(unit: mm)

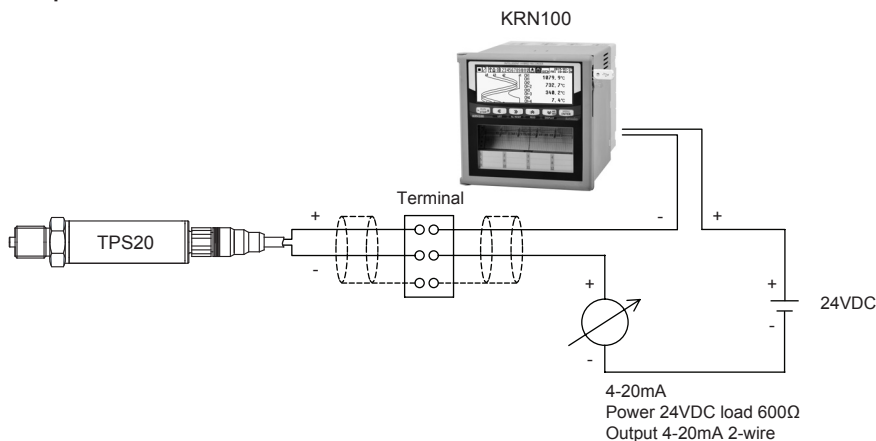


Model	L(m)	Material
CLD3-2	2	PVC
CLD3-5	5	

Connections

Head type		DIN connector type			Connector cable type		
	Pin		Pin	Function		Pin	Function
	+		1	+		1	+
	-		2	-		2	N·C
			3	N·C		3	F.G.
			⊕	F.G.		4	-

• Example of external connections



A. Recorders

B. Indicators

C. Converters

D. Controllers

E. Thyristor units

F. Pressure transmitters

G. Temperature transmitters

H. Accessories

TPS20

KT-302H

PTF30

TPS20 Series

Specifications

Series	TPS20	
Measured materials	Vapor, Liquid, Fluid (except corrosive environment of SUS316)	
Measurement range	-760mmHg to 0 to 30kg/cm ² (compound pressure) 0 to 0.2 to 350kg/cm ² (gauge pressure) 0 to 1.0 to 35kg/cm ² (absolute pressure)	
Allowable over pressure	300% of max. span	
Electrical characteristics	Power	15-35VDC
	Output	4-20mA
	Load resistance	Max. 600Ω
	Power consumption	0.5W
Accuracy	Linearity	±0.3% F.S. (-10 to 50°C) ±0.5% F.S. (50 to 70°C)
	Hysteresis	±0.3% F.S.
Temperature characteristics	ZERO	±0.03% F.S.
	SPAN	±0.03% F.S. (at 25°C)
Response time	Max. 100ms	
Pressure port	PF 3/8(standard), PT 3/8, PT 1/2	
Environment	Ambient temperature	-10 to 70°C
	Ambient humidity	5 to 95% RH
Materials	Sealing : SUS316, O-ring : fluoro rubber, Diaphragm : SUS316, Connection : SUS316	
Case structure	Drip-proof structure	
Approval	CE	
Unit weight	Approx. 320g (based on head type)	

※ F.S.(Full Scale): It is rated pressure range.

※ Environment resistance is rated at no freezing or condensation.

Troubleshooting

Error	Troubleshooting
No outputs	Do you supply the power? Do you wire (+, -) it correctly? Is the connection part poor?
Abnormally fluctuating output	Is power supplied properly? Is pressure supplied correctly? Is there error in pressure line?
Out of zero point output value	Is power supplied properly? Is the load resistive value of a receiver over 600Ω? Is the measuring point and transmission distance proper? Is line resistance big? (max. 600Ω)

Proper usage

- Do not use the unit outdoors. Failure to follow this instruction may result in shortening the life cycle of the unit or malfunction of the unit.
- When installing this unit on pipe line, use the hexagon part of connections not to turn this unit with a pipe wrench. Do not use this unit with strong vibrations.
- This unit is manufactured with precisely. If you drop or shock this unit, it may lose the function. Please treat this unit carefully.
- Store this unit at the place without moisture, dust, and vibration.
- This product which does not have drive part at sensing part does not need to repair it. Even though inside of pressure pipe is normally clean, it needs to take maintenance once a year as follows.
 - ① Check the broken status of outside.
 - ② Check the pressure slot, cleanliness inside, and corrosion state.
 - ③ Short each terminal and check the insulation resistance between the case and power. (at 100VDC, over 10MΩ)
 - ④ Check zero, span adjustment and linearity by pressure standards.
- When removing a sensor for maintenance, follow the belows.
 - ① Replace an O-ring which is used once.
 - ② Be sure that diaphragm part is not damaged.
- In case of head type for connecting the power, use a crimp terminal(M3.5, Max. 7.2mm).
- The connection of this unit should be separated from the power line and high voltage line in order to prevent inductive noise.
- Do not use this unit near the high frequency instruments (high frequency welding machine & sewing machine, large capacity SCR controller).
- This unit cannot be repaired due to disassembled structure.
- This unit is fixed with bolt and nut at the both sides of case. Do not press excessive load (approx. 300kg/cm²), or it may cause damage to this unit.
- Tighten the cable connection part firmly not to enter water to the cable.
- Installation environment
 - ① Indoor / Outdoor
 - ② Altitude max. 2,000m
 - ③ Pollution Degree 2
 - ④ Installation Category II

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