PC11D(WTP10) Differential Pressure Sensor

- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS Technology
- CE certificate

PC11D(WTP10) differential pressure sensor is a popular DP sensor applied in differential pressure measuring. A high sensitivity piezoresistive silicon pressure chip is employed in the sensor. The sensor inside is filled with oil for pressure transmission.

Caution

We mark "H" in positive pressure end and "L" in negative pressure end on the sensor body. It cannot be connected reversely.

Pressure range			
Pressure range	35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa		
Overpressure	Range	Positive Overpressure	Negative Overpressure
	35kpa	70kpa	35kpa
	70kpa	150kpa	70kpa
	100kpa	200kpa	100kpa
	250kpa	500kpa	250kpa
	400kpa	800kpa	400kpa

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	600kpa	1200kpa	600kpa
	1Mpa	2Mpa	1Mpa
	1.6Mpa	3.2Mpa	1Mpa
	2.5Mpa	5Mpa	1Mpa

Output signal	
Zero output	±2mV
Span output	100mV(typical) | 60mV(<100kPa)

Specification			
Accuracy(linearity, repeatability and hysteresis)	±0.25%F.S. (Typical)		
Excitation	1.5mA (Typical) | 5VDC | 10VDC		
Compensated temp.	0-60º C(typical)		
Operating temp.	-40-125º C		
Storage temp.	-40-125º C		
Insulation resistance	≥200Mohm/250VDC		
Zero temp. coefficient	0.02%F.S. /℃(≥100kPa) | 0.04%F.S. /℃(<100kPa)		
Span temp. coefficient	0.02%F.S. /℃(≥100kPa) | 0.04%F.S. /℃(<100kPa)		
Bridge resistance	Min.	Max.	Unit
	2600	5500	ohm
Long term stability	0.3%F.S./year		
Static pressure	10MPa (Max.)		
Vibration	20g (20-5000HZ)		
Shock	100g, 10ms		
Response time	≤1ms(10% to 90%F.S.)		
Lifetime	$10*10^6$ (cycles)		
Oil filling	Silicon oil (Typical) | Olive oil available for sanitary application		
O-ring	NBR, Viton		
Housing and diaphragm	Stainless steel 316L		
Wire	4 wire (typical) | 5 wire (available) 39×φ0.015, Silicon shielded, 200º C bearing		
Weight	405g(approx)		

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Drawing
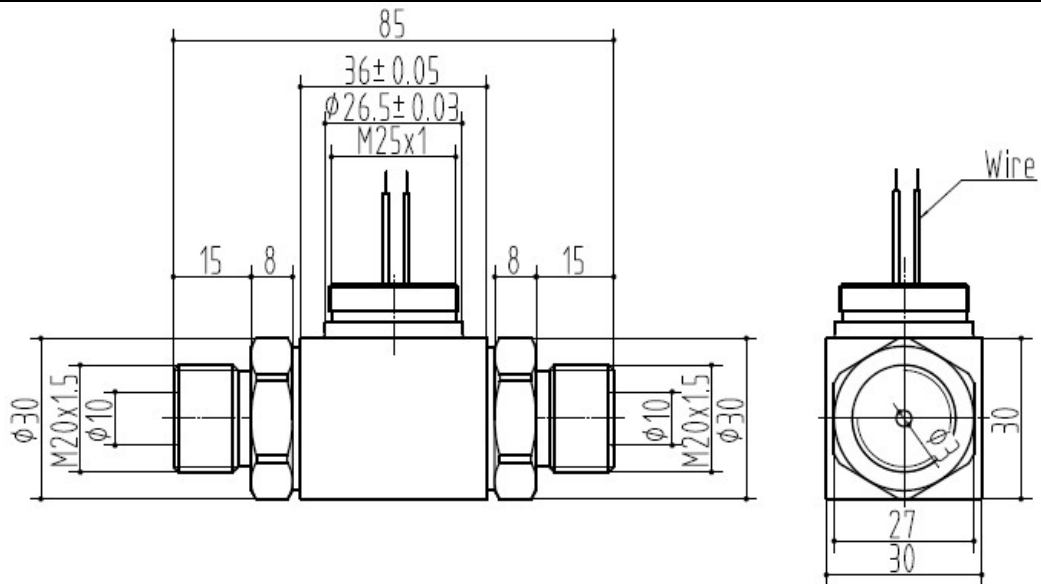
In mm

Wire	Connection
red	excitation+
blue	excitation-
yellow	output+
white	output-

How to order

PC11D(WTP10)　XX————————-XX————————XX————————XX

Pressure range
Please write directly

Excitation
C1: 1.5mA
C2: 10V
C3: 5V

Housing connection
M1:M24*1.5
M2:M25*1
M3: others (please s specify)

Pressure connection
A1: M20*1.5
A2: G1/2
A3: others (please specify)

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