
PC13III Sensor for Fireman



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- CE certificate
- Sensor diameter: 12.6mm

PC13III industrial pressure sensor is a standard and most popular sensor applied in air and liquid pressure measuring. A high sensitivity silicon pressure chip is employed in the sensor. The housing is filled with oil for pressure transmission. The most important specification for industry application is long term stability. PC13III sensor is designed for industry application with perfect long term stability.

Diaphragm and pressure range

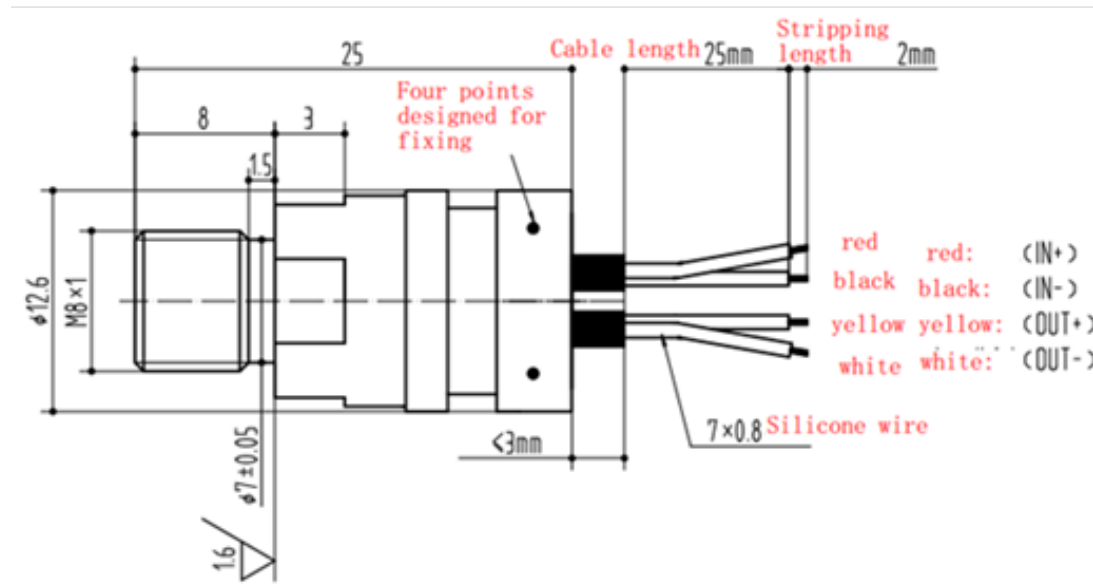
The diaphragm diameter has tight relation with pressure measured. Low pressure requires large diameter and high pressure needs small diameter. This is caused by oil expansion during temperature changing. It creates internal pressure due to the resistance of the diaphragm. The smaller diaphragm will create large internal pressure, and it is difficult to make zero compensation.

Caution

Please do not touch the diaphragm by finger and other hard objects, or it may be damaged.

| Pressure range | | | |
|-----------------------|---|------|------|
| Pressure range | 40MPa | | |
| Pressure reference | Absolute pressure | | |
| Overpressure | 150%F.S | | |
| Output signal | | | |
| Zero output | ± 1mV (@ -30°C~70°C) | | |
| Span output | ≥ 14mV/V | | |
| Specification | | | |
| Temperature drift | ± 0.8%F.S. (@ -30°C~70°C) | | |
| Excitation | 2~5VDC | | |
| Operating temp. | -40-80°C | | |
| Insulation resistance | > 200Mohm/250VDC | | |
| Bridge resistance | Min. | Max. | Unit |
| | 2600 | 5500 | ohm |
| Long term stability | ≤ 0.2%F.S.S/year | | |
| Vibration | 20g (20--5000HZ) | | |
| Oil filling | Silicon oil (Typical) Olive oil available for sanitary application | | |
| O-ring | NBR, Viton | | |
| Housing and diaphragm | Stainless steel 316L | | |
| Wire connection | 4 wire (typical) 5 wire (available) 39×φ0.015, Silicon shielded, 200°C bearing | | |
| Pin connection | Kovar pin (0.6um Gold plated) | | |

Drawing



In mm

How to order

PC13III XX-XX-XX-XX-XX

Pressure range

Please write directly

Pressure reference

A: absolute pressure

Excitation

2~5VDC

Diaphragm material

D1: stainless steel 316L

D2: hastelloy

Electrical Connection

W: wire connection

P: pin connection

