



HT15 Piezoresistive Silicon Pressure Sensor

Description

HT15 is piezoresistive silicon pressure sensor, the main element is a diffused silicon with high stability. It utilizes silicon oil to transfer pressure from 316L stainless steel diaphragm to sensing element. It is widely used to air compressor and refrigeration system.

Features

- ✧ Measurement Range: 0~350KPa~60Mpa
- ✧ Piezoresistive silicon sensing element
- ✧ High reliability and stability
- ✧ Pressure port can be customized
- ✧ Full 316L S S

Application

- ✧ Measurement pressure of gas and liquid
- ✧ Process control system
- ✧ HVAC system
- ✧ Pressure transmitter
- ✧ Refrigeration system
- ✧ Air compressor

Electrical Data

Supply : 1.5mAD

Input impedance: 3K Ω ~6K Ω

Output impedance: 2.5K Ω ~6K Ω

Insulation resistance: $\geq 100\text{M}\Omega/50\text{VDC}$

Insulation voltage: 500VAC between the housing and electrical connection will not damage

Medium compatible: liquid, gas compatible with 316L stainless steel

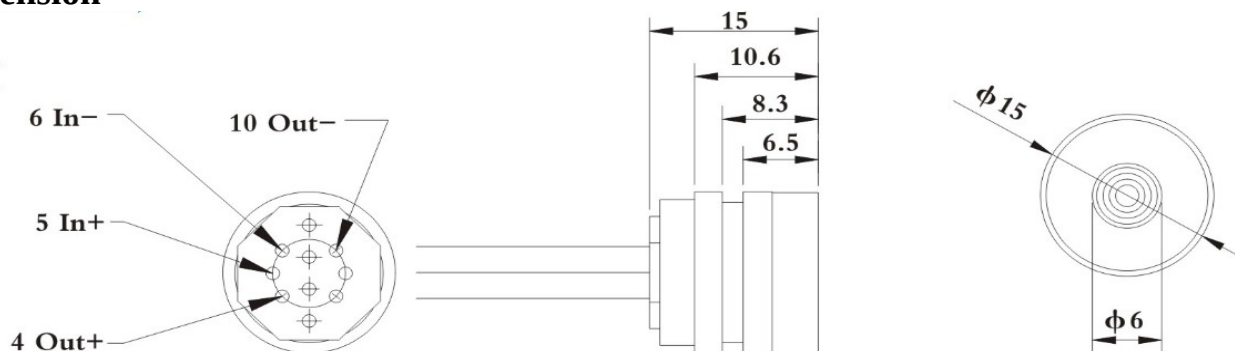
Performance Specification

Parameters	Range: 0~350KPa、700KPa、1000KPa、2000KPa、		
	Typical	Max.	Units
Pressure Non-linearity	± 0.15	± 0.3	%F.S
Pressure Repeatability and Hysteresis	0.02	0.05	%F.S
Zero Output	0 ± 1	0 ± 2	mV
Span Output	100 ± 10	100 ± 30	mV
Temperature Error-Zero	± 0.5	± 1	%F.S
Temperature Error-Span	± 0.5	± 1	%F.S
Proof Pressure	3X Rated range or 100MPa, Whichever is less		-----
Operating Temperature Range	-20~80		$^{\circ}\text{C}$
Compensated Temperature Range	0~70		$^{\circ}\text{C}$
Storage Temperature Range	-40~125		$^{\circ}\text{C}$

Note :Above parameter under condition: Supply: 1.5mA Temperature:25

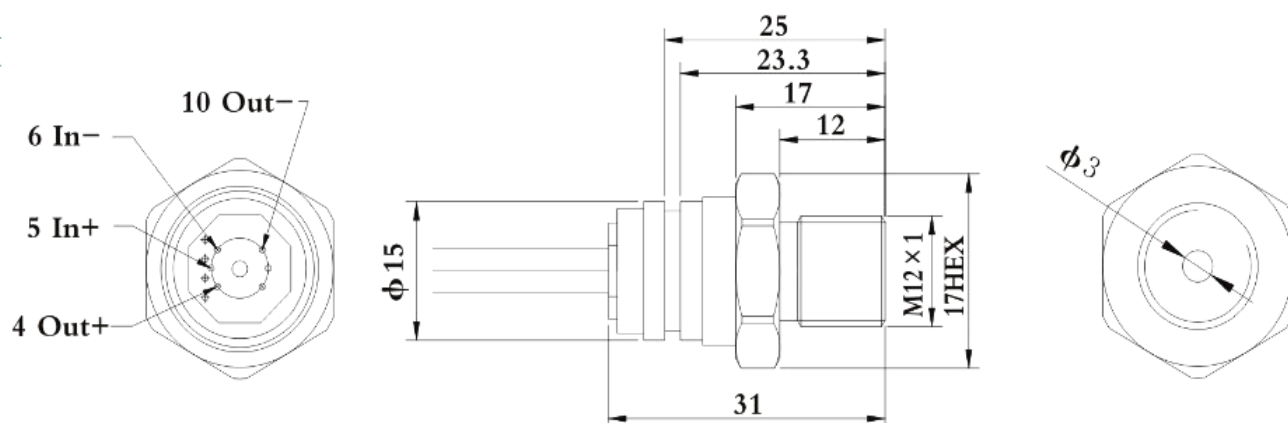
Dimension

Type I

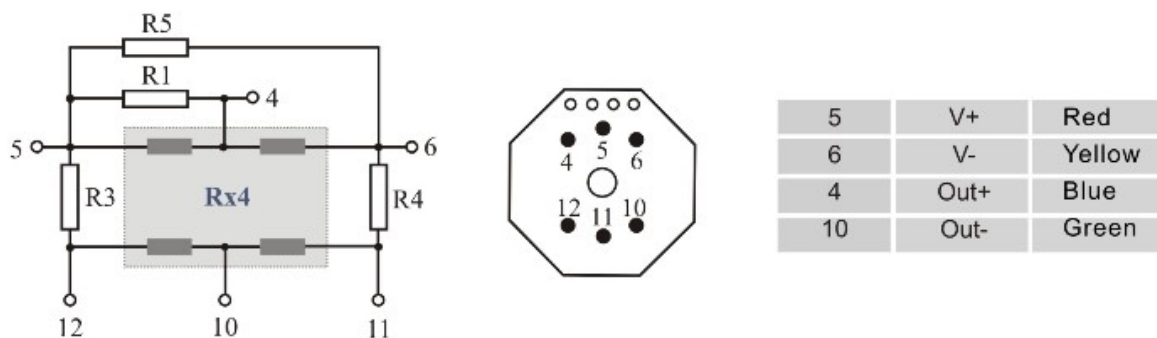




Type II



Electrical Connection and Circuitous Philosophy



Ordering Information

HT15 0010 K G 1 01

Electrical: 01= Gold-plated kovar 6 pin

02= Flexible silicon cable

Pressure Port: 1= Cell

2= M20X1.5

3= M12X1

4= G1/2

5= 1/4-18NPT sale

6= 7/16-20UNF

Pressure type: G=Gauge, A=Absolute, S=Sealed gauge

Unite :K=KPa, M=MPa, B=bar, P=Psi

Pressure Range

Model