SSN-GOI-SF6

Infrared SF6 Sensor

PRODUCTS FEATURES

- The product is designed with low power consumption and small size, which is convenient for integration and project development.

- Intrinsically safe circuit design, high safety and reliability, high accuracy and high stability are ensured.

- Precise calibration at the factory, no need to calibrate when in use.

- It comes with a long use interval under different temperature and humidity conditions, which can be automatically adjusted to the typical environmental influences.

- A combination of several gas modules and interference coefficient compensation algorithm is used.

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1. Technical parameter

Table 1. Characteristics

Parameter	Condition
Detection gas	Sulfur hexoxide SF6
Detection range	See table 2
Accuracy	±2%F.S.
Repeatability	±1%F.S.
Storage temperature	-10°C~30°C
Operating temperature	-30°C~50°C
Long-Term drift	±1%F.S./year
Humidity range	10%~95%RH
Warm-up time	<30s
Working pressure	86-110kPa
Installation method	6-angle plug-in type
Working current	< 30mA
Detection method	Diffusion type/pump suction type
Response type	<15s
Working voltage	5V/12V/24V (optional)
Shell size	33.5*31mm/33.5*38.5mm pump suction type
Signal output	RS485/TTL/4-20mA/0.4-2V/0-3V/0-5V/0-10V

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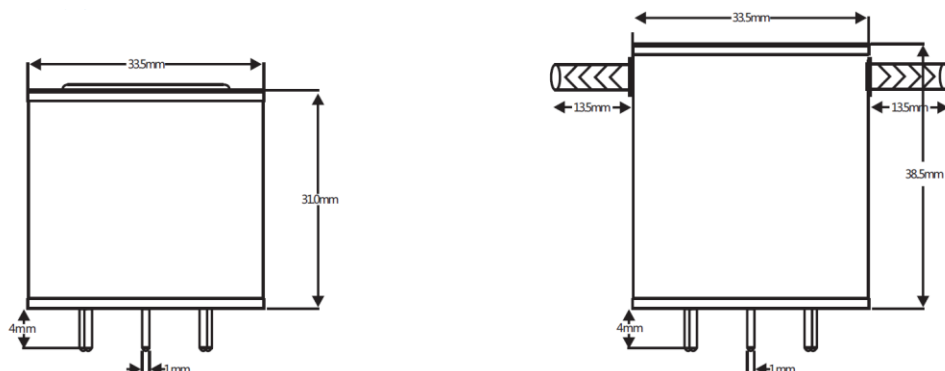
2. Mechanical Dimension

Figure 2.1. Mechanical dimension sensor in mm
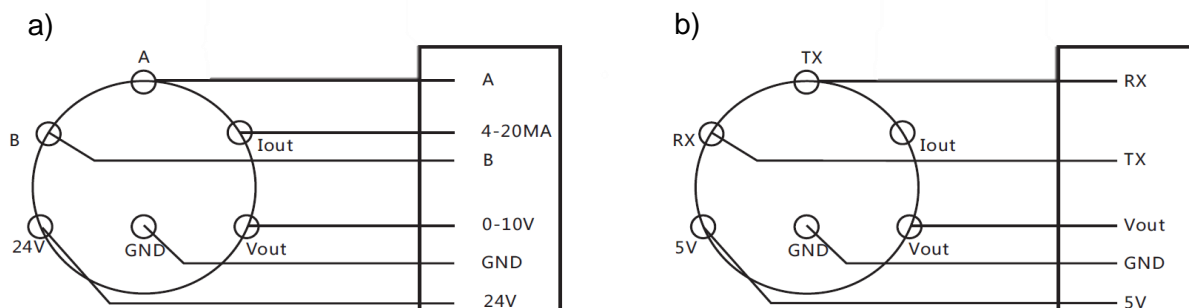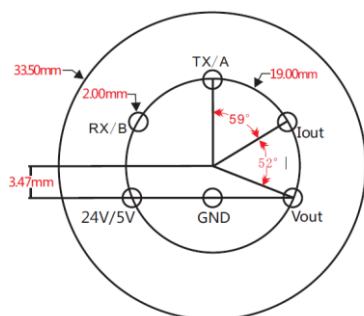
3. Wiring diagram

a)

b)

Figure 3.1. Wiring diagram a) PLC wiring (485 serial port or voltage/current acquisition) b) MCU wiring (TTL serial port or voltage acquisition)

4. Pin definition

Number	Pin	Condition
1	GND	Ground
2	Vout	Output voltage
3	Iout	Output current
4	TX/A	Serial port RS485A
5	RX/B	Serial port RS485B
6	24/5V	Voltage power

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5. Model

Table 2. Part number and condition

Part number	Detection range	Sensitivity
SSN-GOI-SF6-500	0-500 PPM	1 PPM
SSN-GOI-SF6-1000	0-1000 PPM	1 PPM
SSN-GOI-SF6-1500	0-1500 PPM	1 PPM
SSN-GOI-SF6-2000	0-2000 PPM	1 PPM
SSN-GOI-SF6-3000	0-3000 PPM	1 PPM