

LuminOxO₂Sensors LuminOx Fluorescent Oxygen Transmitter Luminescence-based Optical Flow-Through Series

Fluorine oxygen belt airway series

Characteristic

- Fluorescence oxygen technology, non-electrochemical
- No harmful substances; comply with RoHS & REACH
- Directly connected to the microprocessor, without any additional circuits
- Factory calibration
- High precision, fast response
- Free repairs



Package 	Service Voltage 	Working Temperature 	numeric output 	Response Time
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superiority

- Low power consumption, long life (due to non-consumptive sensing principle)
- Low cost

input value

0—25%O₂
0-300mbar ppO₂ (oxygen bias) T90<10s (typical)

technical specifications

service voltage (Vs) 4.5—5.5VDC **Power supply current** O₂
(IS) <7.5mA (one sample per second), resolution <20mA peak ppO₂

Output type 3.3V TTL level USART

Strong temperature and pressure temperature O₂

Work exists as a store of -30°C to +60°C **life span**
0-99% relative humidity (no condensation)

humidity
Maximum flow rate 500-1200mbar 1.0
over atmospheric pressure range litres per minute

The <2%FS (full scale) is only indicated as ±5mbar
It is determined by PPO₂ oxygen bias and pressure accuracy

0.1mbar
0.1°C
mbar
0.01%
> 5 years

Need Help? Find an Expert

0755-83680810
Ask "technical support"



pay attention to

- The sensor housing can be cleaned with a damp cloth. Do not soak the sensor in any cleaning agent.
- All performance parameters are measured under ambient conditions through STP, unless otherwise specified. Re-calibration may be required in the event of extreme temperature fluctuations.

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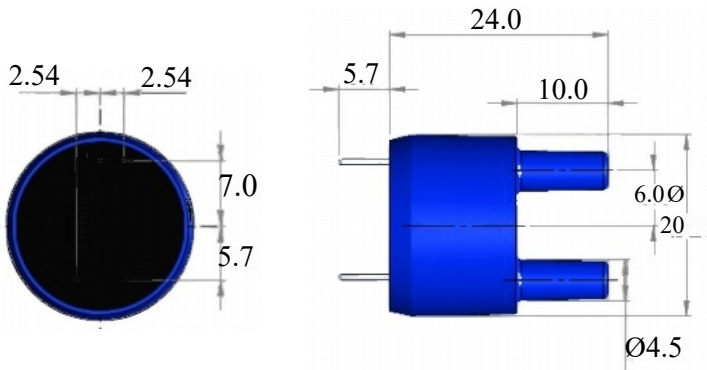
Fax: 0755-83952401

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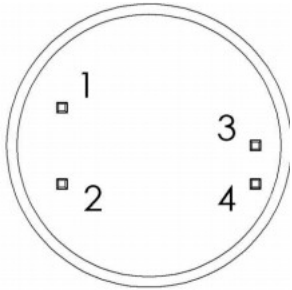
design drawing

All 3D views are in mm. Error = ± 0.5mm.



pay attention to : Push-in installation pipe connector with 4.5mm diameter.

电气连接



pin	nominate
1	V _S (+5V)
2	GND (0V)
3	3.3V USART Sensor transmission end Tx
4	3.3V USART sensor receiver Rx

linkage : The four gold-plated pins (0.64mm²) on the 2.54 mm grid can be used for PCB installation, which can be installed by base or manual soldering without cleaning flux.

pay attention to : Do not wash the sensor with a current through the PCB.

pay attention to : Before attempting to communicate through pins 3 and 4, keep the sensor powered on at pins 1 and 2.

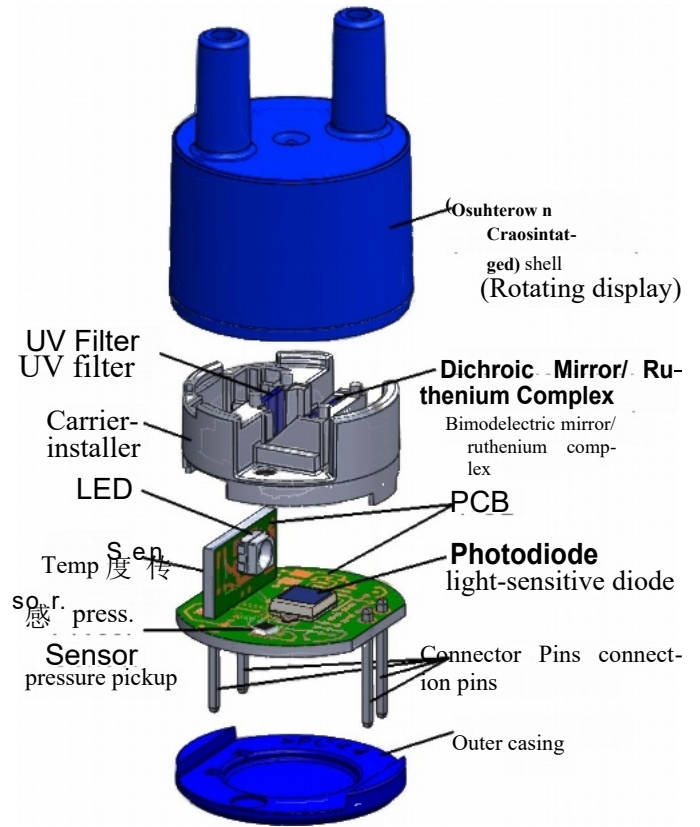
Sensors should be treated as electrical components and proper ESD (electrostatic breakdown) precautions should be used.

! take care

Do not exceed the maximum range and ensure that the sensor is operated as required.
 Pay attention to all wiring instructions. Incorrect wiring may cause permanent damage to the equipment.
 Do not use any chemical cleaning agents.

Failure to follow these instructions may result in damage to the product.

Sensor configuration



Sensors should be treated as electrical components and proper ESD (electrostatic breakdown) precautions should be used.

Order information

Specify the following material numbers when ordering:

L 0 X - 0 2 - F

Information

Due to the uncontrollable actual application scenarios of users, it is impossible to cover all of them. The information provided in this document is for reference only and does not restrict any legal liability. Users should first test the application to be used to ensure the applicability of the device.