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### **Applications & Features**

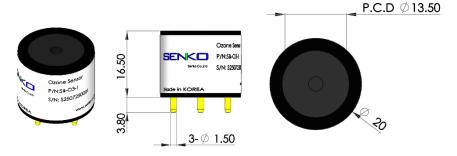
- Portable and fixed gas detectors
- Semiconductor industry
- High sensitivity
- Fast response and recovery



# **Specifications**

Performance Characteristics					
Output Signal	2500 ± 1000 nA / ppm				
Typical Baseline Range (pure air, @ 20 °C)	≤ ±0.03 ppm O <sub>3</sub> equivalent				
Baseline Shift (-20 °C ~50 °C)	≤ ±0.1 ppm Typical				
Response Time (T90)	< 25 seconds				
Measurement Range	0 - 1 ppm				
Maximum Overload	5 ppm				
Linearity	Linear				
Repeatability	< ±5 % of signal				
Recommended Load Resistor	10 ohms				
Resolution (Electronics Dependent)	< 0.02 ppm typical				
Bias Voltage	Not required				
Environmental Environmental					
Temperature Range Continuous	-20 °C to +40 °C				
Pressure Range	800 to 1200 mbar				
Operating Humidity Range	15 % to 90 % RH				
Lifetime					
Long Term Output Drift	< 5 % per annum				
Recommended Storage Temp	0 °C to 20 °C				
Expected Operating Life	> 24 months in air				
Standard Warranty	12 months from date of dispatch				
Intrinsic Safety Data					
Maximum at 10 ppm	35 μΑ				
Maximum o/c Voltage	<1.0 V				
Maximum s/c Current	<0.1 A				

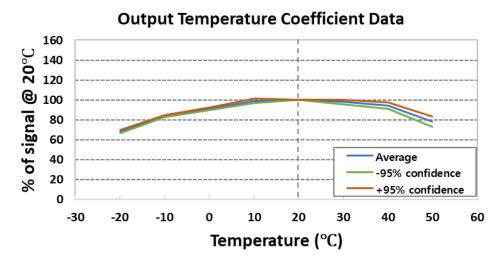
#### **Dimension**



Due to ongoing research and product improvement, specifications are subject to change without notice

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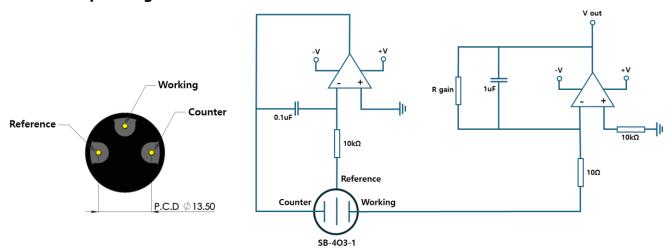
#### **Temperature Effects**



# **Cross Sensitivity**

Gas	Concentration [ppm]	Reading [ppm]	Gas	Concentration [ppm]	Reading [ppm]
Carbon monoxide	100	0.0	Nitric dioxide	10	< 6.2
Hydrogen	500	0.0	Hydrogen cyanide	10	< 0.3
Carbon dioxide	5000	0.0	Nitric oxide	100	0.0
Isopropyl alcohol	20	0.0	Sulfur dioxide	20	0.0
Hydrogen chloride	10	< -5.7	Hydrogen sulfide	50	< -6.1
Chlorine	10	< 0.2	Ammonia	100	0.0
Hydrogen fluoride	10	0.0	Ethanol	200	0.0

## **Standard Operating Circuit**



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