



Oxygen Sensor - SL

Operating Performance

Operating Principle	2-electrode cell	
Gas Detected	Oxygen	
Measurement Range	0-25% v/v	
Maximum Overload	30% v/v	
Expected Operating Life	18 months in air	
Output Signal	0.42 <u>+</u> 0.06mA in air	
Temperature Range	-20°C to +50°C	
Pressure Range	1atm <u>+</u> 10%	
Humidity Range (non-condensing)	Continuous: 15-90% RH	
	Intermittent: 0-99% RH	
Response Time (T ⁵ 90)	<10 seconds	
Pressure Co-Efficient	<±0.003% of signal per mBar	
Temperature Co-Efficient	< <u>+</u> 0.2% of signal per °C	
Long Term Output Drift	< <u>+</u> 2% of signal per month	
Repeatability	< <u>+</u> 1% of signal	
Linearity	Non-Linear	
	1.7818*(ln(1/(1-(%0 ₂ /100)	
Recommended Load Resistor	47Ω	
Bias Voltage	Not required	



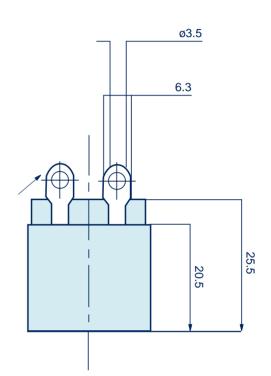
Maximum at 100% v/v Oxygen	6.4mA
Maximum o/c Voltage	0.9V
Maximum s/c Current	500mA

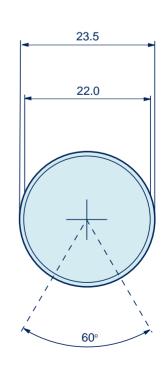
Physical Specification

Weight	TBA	
Storage Life	6 months in sealed container	
Storage Conditions	10-20°C, 45-75% RH in clean air	
Orientation	Any	
Warranty Period	12 months from date of despatch	

Ordering Details

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Part Number	2112B4530
Order From	Sixth Sense
	4 Stinsford Road, Poole, Dorset,
	England BH17 0RZ
	Tel: (44) 01202 645770
	Fax: (44) 01202 665331
	e.mail: sensors@sixth-sense.com
Code date: 08/03	www.sixth-sense.com



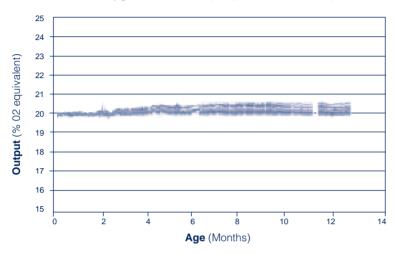




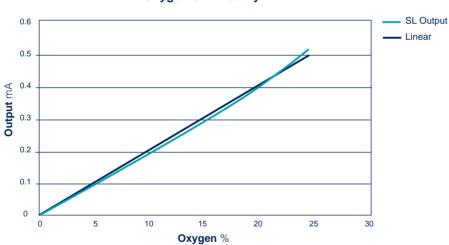
Additional Information

Innovation, Quality and Expertise for Gas Detection.

Oxygen SL Lifetest (temperature corrected)







Cross Sensitivity Data		
Gas	Concentration	Typical 0 ₂ Equivalent
Hydrogen	100%	-9%
Methane	100%	0
Nitrogen Dioxide	25ppm	0

In the interest of product improvement Sixth Sense reserve the right to alter design features and specifications without notice.

^{*}Note: High concentrations of acid gases (eg.C0₂, S0₂, N0₂) will enhance sensitivity to oxygen. Signal will increase by approximately 0.3% per 1.0% acid gas present.