Introduction   The DceL H2S is a low profile premium industrial H$_2$S sensor, ideal for portable and fixed gas detectors.

Key Features: high stability, fast response and recovery, robust environment performance, low cross sensitivity to methanol.
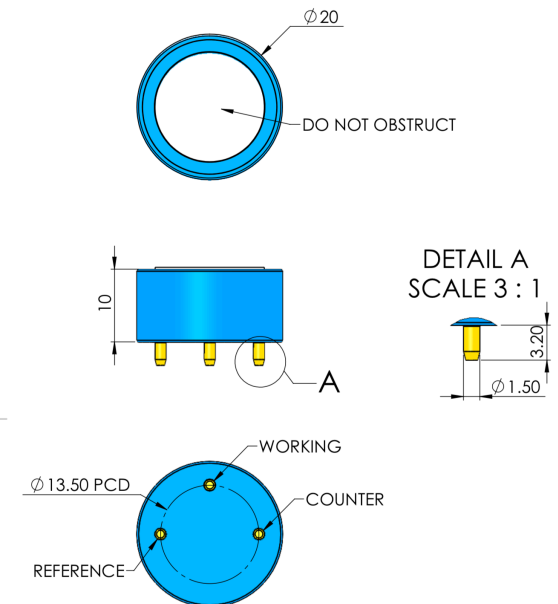
Performance Characteristics	
Output signal	140 ± 30 nA / ppm
Typical Baseline Range (pure air)	±2 ppm H2S equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 100 ppm
Maximum Overload	200 ppm
Linearity	Linear
Repeatability	< ±2% H2S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.1 ppm typical

Environmental Details	
Temperature Range Continuous	-30°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH

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WORKING

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COUNTER

REFERENCE

ALL TOLERANCES UNLESS STATED: ±0.15mm

Product Dimensions in mm

Important Note:
All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.

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Lifetime Details

Long Term Output Drift	< 15% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch

Cross - Sensitivity Data

GAS	CONC.	GS+4H2S
Carbon Monoxide	100 ppm	<2 ppm
Sulphur dioxide	20 ppm	0 ppm
Nitrogen Dioxide	5 ppm	<0.5 ppm
Nitric Oxide	50 ppm	<0.5 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	0 ppm
Ethylene	100 ppm	0 ppm
Carbon Dioxide	5000 ppm	0 ppm

Poisoning:
DD Scientific sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instrument and operation.
When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when

Intrinsic Safety Data

Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A

WARNING: By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

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