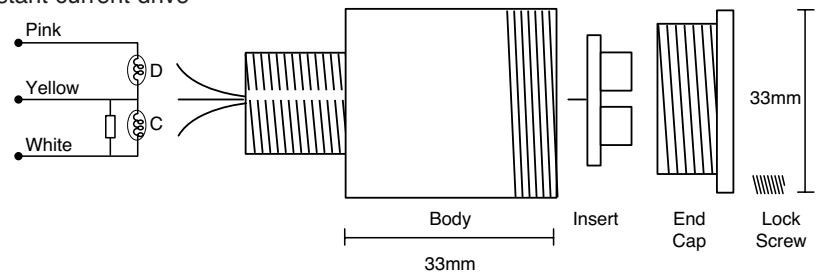


## TECHNICAL SPECIFICATION

<b>Application</b>	Combustible gas detection
<b>Operating range</b>	0 -100% L.E.L. for gases and vapours
<b>Sensing Principle</b>	Catalytic Combustion - continuous diffusion - poison resistant
<b>Classification</b>	EExd IIC T6 (T3, T4, T5 options) 112GD SCS Cert. No. 03ATEX1176X CSA-US-Class 1 Group A B C & D Cert No LR1158631 IECEX SIR 06.0016x
<b>Housing Material</b>	Stainless Steel 316-S16
<b>Dimensions</b>	Body Length 33mm. Diameter 33mm
<b>Weight</b>	165 gms
<b>Cable Exit Mounting Thread</b>	20mm 1.5 pitch standard 25mm 1.5 pitch option, 3/4 NPT-14, 3/4 NPT-14 option
<b>Lock Screw</b>	3mm – 1mm key
<b>Housing Components</b>	Body Ref. 001-002 End Cap Ref. 001-003
<b>Ingress Protection</b>	IP53 + spray deflector IP64
<b>Operating Current</b>	335mA ± 5mA - constant current drive
<b>Voltage</b>	2.5V DC
<b>Power Consumption</b>	1W max.
<b>UK Design Patent</b>	No. 2025396



## PERFORMANCE DATA

<b>Warm Up Time</b>	1% L.E.L. within 10 seconds
<b>Sensitivity</b>	15mV > per % Methane
<b>Response Time - 1% Methane + Weather Cone</b>	T90 – 10 secs T90 – 14 secs
<b>Operating Temperature</b>	-20°C to 80°C
<b>High Temperature Version</b>	-20°C to 150°C
<b>Storage Temperature</b>	-20°C to 40°C
<b>Linearity</b>	Better than ± 4% fsd.
<b>Zero Stability</b>	< ± 8% fsd/year
<b>Repeatability</b>	Better than ± 4% fsd.
<b>Humidity Effects</b>	Continuous 20-90rh Intermittent 0-100% rh (non-condensing)
<b>Pressure Effects</b>	The deviation of the indication from that at 1013 mbar over the range 950 to 1100 mbar is less than 3% L.E.L. or 10% of reading, whichever is greater.
<b>Vibration Test</b>	4g 96hrs 20-330Hz/2min
<b>Air Speed Effect</b>	The variation of the indication over a range of air speeds from 0m/s to 6m/s is less than 3% L.E.L. or 10% of reading, whichever is the greater. With weather cone fitted- 1.25% L.E.L. or 4.5% of reading.
<b>Temperature Coefficient</b>	0.2% L.E.L. per 1°C change
<b>Operating Life (Typical)</b>	> 5 years clean environment
<b>Storage Life</b>	> 4 years in container
<b>Recommended Recalibration Period</b>	6 monthly

## GDS Technologies Ltd

Fusion Point, Ash Lane  
Garforth, Leeds LS25 2GA  
Tel +44 (0)113 286 0166  
Fax +44 (0)113 287 8178  
sales@gds-technologies.co.uk  
www.gds-technologies.co.uk