

APPLICATION DATA SHEET

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OLIVER IGD

Control Systems

Transmitters

Sensors

Accessories

MKIII ATEX

'Pellistor' Flammable Gas Detector

Bridge Circuit 3 Wire
Compact Size
Exd Certified
ATEX Certified
Ingress Protection IP66
Stainless Steel Construction
High Power 360mA
Poison Resistant Sensor
Manufactured by Oliver IGD



Better known as the UK's oldest manufacturer of gas monitoring and gas analysis systems, *Oliver-IGD* have produced the MKIII-DCP **flammable** gas measuring sensor for over 45 years.

The MKIII-DCP has the reputation for being the most poison proof pellistor available, with many clients experiencing over 10 years satisfactory service.

Basic Specification

Bridge Supply	360mA±5mA
Electrical Outputs	3 Wire Bridge
Temperature	-30°C to +55°C
Humidity	15 to 90% RH non-condensing
Ingress Protection	IP66
Housing Material	Stainless Steel 316 S16
Explosion Protection	Flameproof
Approval Code	EEx d IIC T6
Dimensions (mm)	33 Diameter x 52 Length
Mounting Thread	M20X1.75
Weight	210 grams



Pellistor Sensor Production

Ex d IIC T6 Gb T6 = -20 C to +40 C
Ex tb IIIC T6 Db IP66
Ex d IIC T5 Gb Ta = -20 C to +55 C
Ex tb IIIC T5 Db IP66

CE 0518

Ex II 2 G D

Sira 02ATEX1270X



International Gas Detectors

CH₄ H₂S CO₂
N₂ SO₂ NO₂ CO



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MKIII & Type B SENSORS & ACCESSORIES

MKIII-DCP Pellistor Flammable Gas Sensor

Sensor Data	
Measuring Range	0 to 100% LEL
Resolution	2% FSD
Warm Up Time	<30 Minutes
Response Time T90	<10 Seconds
Repeatability	± 0.1% LEL
Long Term Drift	± 0.05% LEL/Month
Power	<1.1 Watt
Max Air Velocity Without Additional Protection	6M/s
Weight	210gms
Linearity	Sensibly linear up to 3% Vol Methane



Correction Factors & Calibration Constants

Gas / Vapour	Relative Sensitivity	With 1% Methane In Air Adjust Calibration to Display (in LEL)
Methane	1.00	20
Propane	0.63	35
n-Butane	0.59	35
n-Pentane	0.53	40
n-Hexane	0.42	50
N-Heptane	0.42	50
n-Octane	0.39	55
Hydrogen	0.69	30
Methanol	0.70	30
Ethanol	0.48	40
Iso Propyl Alcohol	0.38	55
Acetone	0.41	50
Methyl Ethyl Ketone	0.41	50
Benzene	0.39	55
Toluene	0.34	60
Di-ethyl Ether	0.52	10
Cyclohexane	0.43	50
Ammonia	1.24	15

Oliver IGD Ltd have a large Library of calibration factors for different flammable target gases relating to the MKIII and Type B Detectors. If the target gas of interest is not indicated in the table, contact Oliver IGD Ltd for further information



International Gas Detectors

CH₄ H₂S CO₂
NO₂ NO SO₂



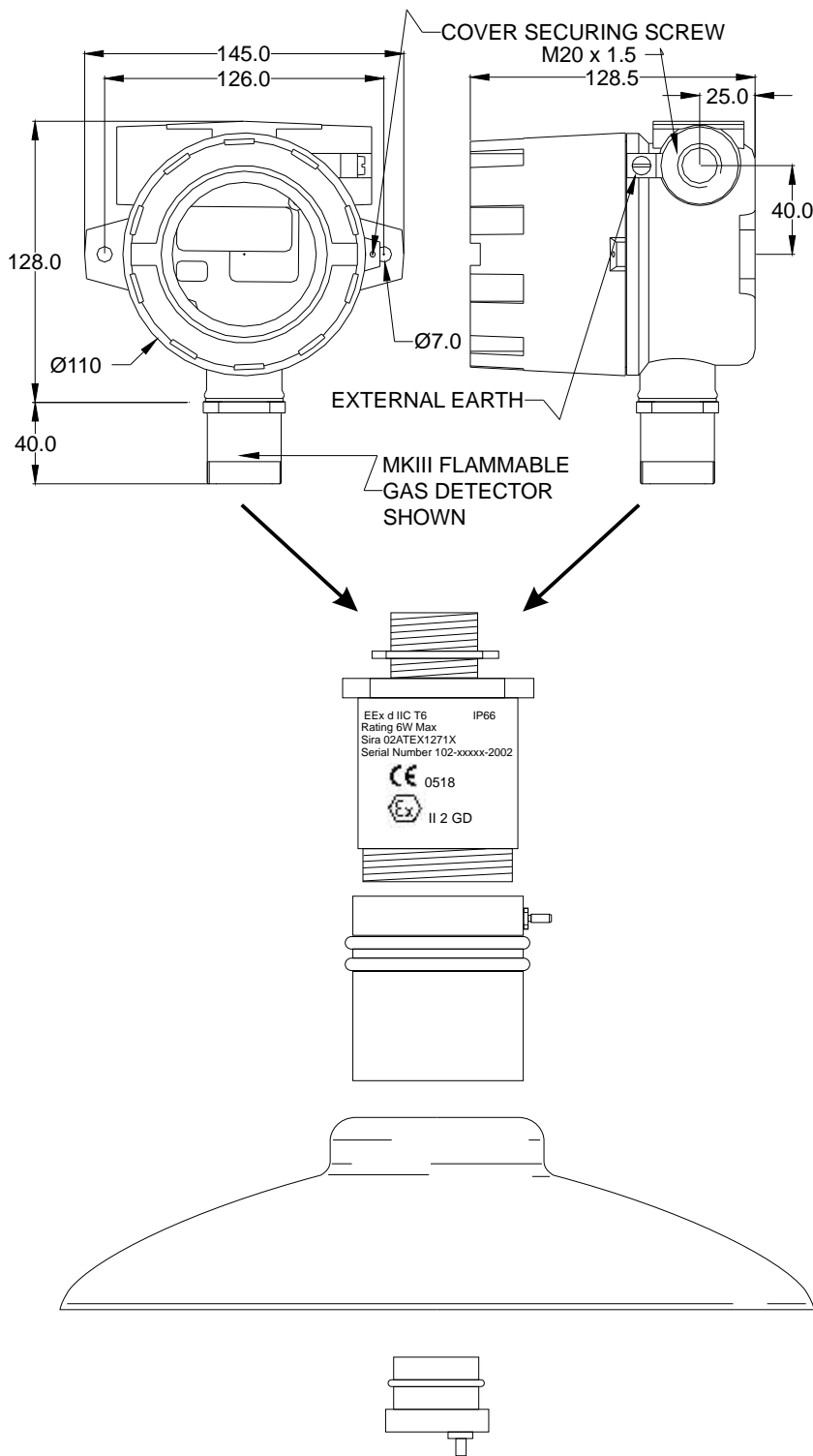
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MKIII & Type B SENSORS & ACCESSORIES



Ordering Note:

For a complete MK3 detector head, JB3 Junction box with electronics for both 4-20mA or Addressable operation see part number: 5131401ATEX (previously 5108601) listed as a Tocsin 102 Series Gas Detector.

Standard MK3 Accessories

Standard Junction Box P/N 5045802

MKIII Flammable Gas Detector P/N 501001

Type B Flammable Gas Detector P/N 501051

Weather Protection Assembly And Test Gas Applicator P/N 401451

Collector Cone P/N 401061

Test Gas applicator P/N 401101A

Optional Applicator Locking Ring P/N 401101D



International Gas Detectors

CH₄ H₂S CO₂
NO NO₂ SO₂



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