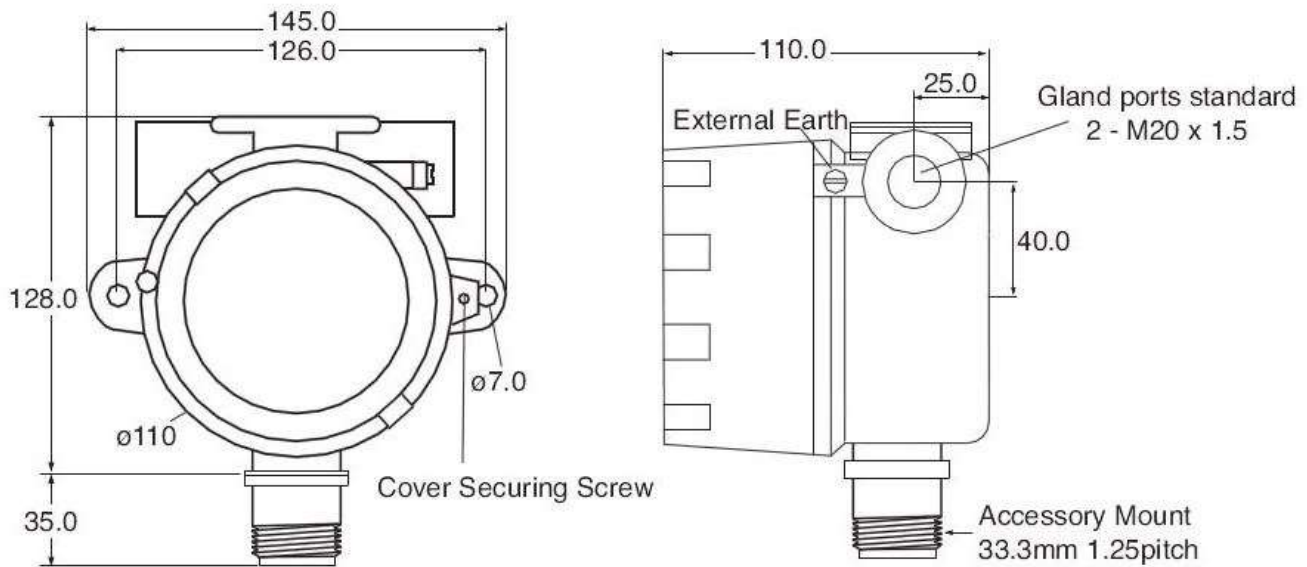


# XDI/XDIwin-F1, F1+, F1+s, R

## HAZARDOUS AREA GAS DETECTOR




### ATEX Certification

<b>Notified Body:</b>	Eurofins CML B.V. Koopvaardijweg 32 4906 CV Oosterhout, Netherlands
<b>Certification No:</b>	CML 23ATEX1232X
<b>QA Notification:</b>	SIRA 00ATEX M071

### UKEX/IECEX Certification

<b>Approved Body:</b>	Eurofins E&E CML Ltd Newport Business Park Newport Road Ellesmere Port CH65 4LZ
<b>Certification No:</b>	CML 23UKEX1092X IECEX CML 23.0086X
<b>QA Notification:</b>	CSAE 21 UKQAN 0024 GB/SIR/QAR06.0040/09

<b>Tested in compliance with:</b>	EN IEC 60079-0:2018 IEC 60079-0:2017	EN 60079-1:2014 IEC 60079-1:2014	EN 60079-31:2014 IEC 60079-31:2013
<b>Marking:</b>		Ex db IIC T6...T4 Gb	Ex tb IIIC T85°C...T135°C Db
<b>Ambient Temperature:</b>	<b>For Temp Class T6/T85°C</b> <u>XDI &amp; XDIwin</u> Tamb: -20°C to +35°C	<b>For Temp Class T5/T100°C</b> <u>XDI &amp; XDIwin</u> Tamb: -20°C to +50°C	<b>For Temp Class T4/T135°C</b> <u>XDIwin</u> Tamb: -20°C to +75°C <u>XDI</u> Tamb: -20°C to +85°C
<b>Special conditions of safe use:</b>	<ul style="list-style-type: none"> <li>For information on the dimensions of the flameproof joints the manufacturer should be contacted</li> </ul>		

<b>Pressure Range:</b>	Atmospheric ±10%	<b>Power Supply:</b>	15 to 30V DC 24V nominal
<b>IP Rating:</b>	IP6X (For more information contact: <a href="mailto:sales@gds-technologies.co.uk">sales@gds-technologies.co.uk</a> )	<b>Weight:</b>	XDI - 1.2Kg XDIwin - 1.5Kg
<b>Entries:</b>	2 - 20mm 1.5 pitch - others available	<b>Fixing:</b>	Two M7 127mm CRS

E: [sales@gds-technologies.co.uk](mailto:sales@gds-technologies.co.uk) T: +44 (0)113 286 0166

# XDI/XDIwin-F1, F1+, F1+s, R

## HAZARDOUS AREA GAS DETECTOR

- CAUTION:** The installation of this product must be carried out by suitably trained and qualified personnel only. We will not accept responsibility for any damage, injury or any form of loss due to products not being installed or used in strict accordance with these instructions. If in doubt, please contact GDS Technologies Ltd, Technical department [admin@gds-technologies.co.uk](mailto:admin@gds-technologies.co.uk)
- Installation:** The enclosure must be fixed into position using the external fixing lugs provided. Under no circumstances must the enclosure be supported by way of any cable entry device. It is important that the cover is securely fitted to the body of the enclosure. The cover locking screw must be fully tightened down.
- T Ratings:** The ambient temperature into which the equipment is being installed must comply with the marking on the label.
- Earth Connection:** The enclosure is fitted with an M5 external earth connection; a suitable ring type terminal lug must be used to secure the earth conductor. The F1, F1+, F1+s sensor body mounting thread must be fully engaged into the junction box.
- Maintenance:** Periodic inspection of this equipment is necessary; refer to BS EN 60079-17 for guidance. Inspect the sinter disc at 6 monthly intervals to ensure it is clear and dust free. For further equipment maintenance please contact GDS Technologies Ltd, Field Service department [field.service@gds-technologies.co.uk](mailto:field.service@gds-technologies.co.uk)
- The equipment is intended for use under normal industrial conditions and must not be installed in an area where extreme vibration may occur.
- This apparatus has been produced for use in a potentially explosive atmosphere. Before it is installed you must be aware of the requirements of BS EN IEC 60079-0, BS EN 60079-1 and BS EN 60079-31.
- Sensor Type:** Infra-Red, Electrochemical, Catalytic, Semiconductor, PID.
- Gas Type / Range:** Flammable - LEL/%Vol, Toxic - ppm/ppb, Oxygen %Vol.
- All unused terminals must be fully tightened down prior to making live.
- Do not open the Junction Box or remove the F1, F1+, F1+s sensor sleeve or end cap when a hazardous gas atmosphere is present.
- Before removing the Sleeve and/or the end cap of the F1, F1+, F1+s sensor, disconnect the power to the apparatus and wait 3 minutes to allow the sensor elements to cool.
- The sensor sleeve and end cap must be fully screwed into the body and the lock screws firmly tightened.
- All cable entries should be made using suitably certified glands (See notes 1 & 2). Maximum of one thread adaptor per cable gland entry.  
**Note 1: For XDIwin; T4 rating when the ambient temperature TA=75°C the cable gland entry point is 80°C and the branching point is 89°C.**  
**Note 2: For XDI; T4 rating when the ambient temperature TA=85°C the cable gland entry point is 90°C and the branching point is 99°C.**
- All unused gland ports should be sealed using appropriate certified blanking plugs. Do not use thread adaptors with blanking plugs.
- To maintain the certification, only manufacturers supplied spare parts should be used. Sensor insert replacement by GDS tool [009-112] or long nosed pliers.
- Accessories**

003-010	Collector Cone & Universal Fitting
003-020	Universal fitting (Test Gas Applicator/ Spray Deflector)
003-035	Water Shield - Stainless Steel
008-311	Flow Block – Nylatron
008-310	Flow Block - Stainless Steel
003-090	Duct Mount Kit
003-083	Detector Head Weather Shield
003-130	Thermal Jacket
- Sensors**

001-375	CAT165	2.2v/165mA
001-301	CAT300A	2.0v/300mA
001-171	CAT170A	2.0v/175mA
001-011	SEM-1	4.0v/170mA
001-611	PRIME IR	4.0v/70mA
001-031	CAT335C	2.5v/335mA
001-061	THE300A	2.0v/300mA
001-801	SS10	2.0v/175mA
001-231	CAT335A	2.5v/335mA
001-411	CAT100A	2.0v/100mA

Contact GDS Technologies Sales department for tool and accessory prices [sales@gds-technologies.co.uk](mailto:sales@gds-technologies.co.uk)

GDS Technologies Ltd declares under our sole responsibility that the product conforms to the relevant provisions of directive 2014/34/EU and UKSI/2016/1107

THIS IS A CERTIFIED PRODUCT – NO MODIFICATIONS OR CHANGES TO THIS PRODUCT ARE ALLOWED

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