

# F1+ GAS SENSOR

## HAZARDOUS AREA

Remote fixed detector for Flammable Oxygen and Toxic Gases

Data Sheet ref C1901A

- Explosion Proof
- Engineered for ease of maintenance and reduced running costs
- Wide range of sensor cell types
- Catalytic
- Electrochemical
- Thermal Conductivity
- Semiconductor
- Infrared
- PID
- In situ replaceable plug in sensors
- Low cost stock holding
- Reduced replacement costs
- Replaceable sintered disc - end cap
- Harsh environmental use
- Robust corrosion resistant stainless steel housing
- High temperature operation
- F1/F1+/F1+S interchangeable sensor cells and accessory fittings



Extremely high quality and cost effective sensor providing a wide choice of sensor elements. Compact innovative design ensures fast response to gas with high accuracy measurement. Designed to operate in a full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing. A range of accessories is available enabling the sensor to be used in diverse applications such as HVAC ducting, flowline systems or freestanding open air marine applications.

### Certification

**ATEX** 21 CML 11260X

**IECEX** CML 21.0144X

**UKEX** 21 CML 11261X

II 2 GD

Exdb IIC T6 Gb -20°C ≤ Ta ≤ +35°C

Extb IIIC T85°C Db

Exdb IIC T5 Gb -20°C ≤ Ta ≤ +50°C

Extb IIIC T100°C Db

Exdb IIC T4 Gb -20°C ≤ Ta ≤ +85°C

Extb IIIC T135°C Db

Exdb IIC T3 Gb -20°C ≤ Ta ≤ +120°C

Extb IIIC T200°C Db

### UK Design

No. 6227160

### Housing Material

Stainless Steel 316

### Dimensions

Body length 39mm dia 33mm

### Weight

220gms

### Body Style

Cylindrical with hexagonal section

### Cable Exit Mounting Thread (A)

20mm 1.5 pitch – options available 25mm, ¾ NPT

### Accessory Mounting Thread (B)

33.3mm 1.25 pitch

### Lock Screws

3mm – 1.5mm Allen key

### Ingress Protection

IP63 with universal fitting IP64

with water shield IP65

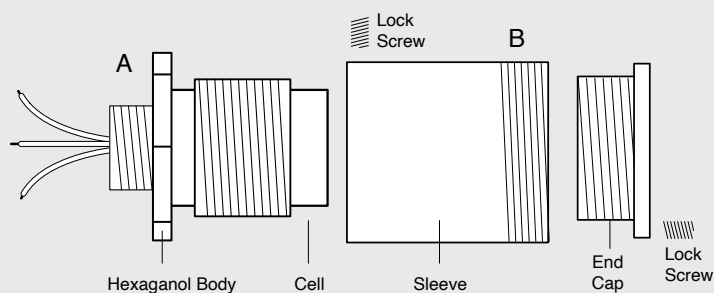
with hydrophobic screen IP66

### Operating Temperature

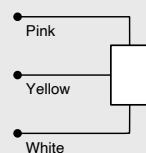
High temperature operation – see Ex rating  
limited by sensor cell specification

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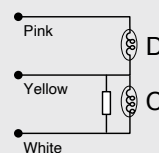
HAZARDOUS AREA



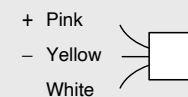
## Prime IR Cell



## Pellister Cell



## Oxygen / Toxic Cell 2/3 Pin



## DETECTOR HEADS



XDI win



XDI



15/30J



15/30J win



## SENSOR ACCESSORIES



1



2



3



4



5



6



7



8



9

1. 003-010 Collector Cone & Universal Fitting
2. 003-020 Universal Fitting (test gas applicator/spray deflector)
3. 003-035 Water Shield – Stainless Steel
4. 008-310 Flow Block – Stainless Steel
5. 003-141 Mounting Boss – Stainless Steel – Screw In

6. 003-140 Mounting Boss – Steel – Weld On
7. 003-090 Duct Mounting Kit
8. 003-083 Detector Head Weather Shield
9. 003-130 Thermal Jacket

This document is not contractual and the equipment specification may be modified at any time without prior notice.

