GDS DEFENDER – SENSOR

FLAMMABLE / TOXIC / OXYGEN / REFRIGERANT - GAS SENSOR

- Sensors pre-set and tested
- Sensor types: toxic/flammable/oxygen/ refrigerant/carbon dioxide
- Three pre-set alarm levels (timed ON/OFF option)
- Audible visual alarms & relays
- Designed for ease of installation
- AC mains version

Sensors for use in commercial and light industrial applications, such as laboratories, workshops, hotels, offices, boiler plant rooms, etc. are available for monitoring toxic, flammable, oxygen or refrigerant gases. The gas sensor continuously monitors the atmosphere for hazardous conditions. On detection of gas the sensor will indicate the gas level status A1, A2, A3 by LED indication and sounder. Further actions can be initiated by the alarm relays.

For multi sensor systems the DEFENDER 4 zone alarm panel (part No, 204-000) data sheet C1667 may be used to provide centralised alarm functions.
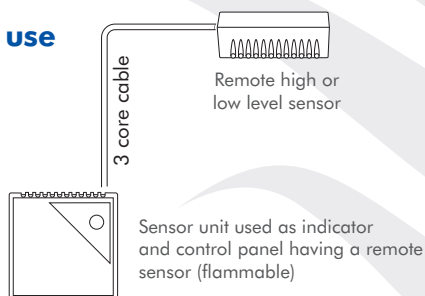
Specification

Not for use in hazardous zone areas

Sensor Type	FLAMMABLE – catalytic TOXIC, OXYGEN – electrochemical REFRIGERANT – semiconductor CO_2 – infrared
Power Supply	18 to 30vDC optional 90~260vAC
Consumption	1.2 W
Alarm Relays	Signal Relay: 1 SPCO volt free contact 3A @ 230vAC Global A1/A2/A3 A2/A3 only option latched/unlatched – selectable N/E – N/D
	Mains Relay: A2 (mains option only) Permanent mains N/E – N/C Off/on alarm (solonoid valve control)
Indicators	Power (Green LED) Gas alarm – Green LED to Red
Alarm 1	– slow flash + intermittent sounder
Alarm 2	– rapid flash + high rate sounder
Alarm 3	– constant + constant sounder Fault – Amber + constant sounder
Sounder	85dB @ 10cm Permanent mute option
Reset	Sounder latched alarm – when clear
Ambient Temp	Operation: -5 to +50°C Storage: +5 to +55°C
Protection	Standard Sensor – IP42 Weatherproof – IP64
Dimensions	Standard L 83mm x H 83mm x D 36mm
	Weatherproof L 145mm x H 145mm x D 60mm
	Defender Sensor Mains Kit (Type 1) Surface Mount L 85mm x H 85mm x D 68mm
	Defender Sensor Mains Kit (Type 2) Dry Lining Box L 85mm x H 85mm x D 74mm
Options	Duct Sensor Probe L27mm x 28mm diameter

Options

24vDC surface or dry lining box mount

Defender Sensor Mains Kit:
Type 1 – Surface Mount

Defender Sensor Mains Kit:
Type 2 – Dry Lining Box

Surface Mount with Duct Probe

Surface Mount Sensor – Weatherproof

Duct Mount (Probe) – Weatherproof

Remote Sensor (Flammable Gases)

Din Rail Mount

Sensor Stand Alone Power Supply

Defender 4 Zone Alarm Panel

Alternative use

3 core cable

Remote high or low level sensor

Sensor unit used as indicator and control panel having a remote sensor (flammable)

CE
C1516

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