

DETECTORS - IRIS LINE

Conventional fire detectors

Iris series detectors maintain the ease-of-use of conventional detectors, yet are capable of providing a series of technical solutions that until today were provided by only the most sophisticated addressable analogue systems.

As a result of advanced technologies based on new-generation microprocessors, these detectors implement a set of sophisticated algorithms capable of ensuring unequalled reliability and a high immunity to false alarms.

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The ground-breaking Versa++ technology incorporated in IRIS series detectors allows you to configure individual detectors to suit their specific environments and, when used in conjunction with the EITK1000 kit, to connect directly to the detector line for a complete diagnosis of each detector and thus test its operating capacity, verify its real-time values, view the contamination level in the optical smoke chamber and change its sensitivity and operating mode.

Each detector has a non-volatile memory which allows you to view the smoke and temperature levels measured in the period prior to the last alarm detected.

These detectors have passed - with flying colours - all the tests taken at the LPCB test facility, the prestigious English certification service.

Main Features

- Newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen
- Bicolour LED: Red for alarm; Green slow flash for standby (optional) and fast flash for trouble (fault or high level of contamination in the optical smoke chamber)
- Drift compensation for sensor drift caused by dust in the chamber
- Sensitivity selection for smoke and heat (by means of EDRV1000 driver)

- Operating mode selection (by means of EDRV1000 driver for ID300 version): Only smoke; Only Heat; AND mode; OR mode; Plus mode
 - Complete Diagnostics: view the contamination level in the optical chamber and verify real-time values (by means of EDRV1000)
 - Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm detected
 - Vast range of options (selected by means of EDRV1000 driver)
 - Bypass plate on base guarantees continuity in the event of removal of the detector from the line
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ID100

Optical smoke detector

The ID100 optical smoke detector is based on the Tyndall effect (diffusion of light) and provides first-rate early warning in the event of fire. It offers wide-spectrum detection of smoke particles generated by the majority of fires.

The newly designed optical chamber with sealed upper-part and 500 µm holes diameter mesh insect screen ensure high immunity to false alarms.

The sensitivity can be configured to suit a wide range of applications (sensitivity configurable as: 0.08dB/m; 0.10dB/m; 0.12dB/m; 0.15dB/m).

Black plastic enclosures available.



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Parameter	ID100	ID200	ID300
Operating voltage	10-30 Vdc		
Consumption during standby	90 uA	70 uA	90 uA
Consumption during alarm	Max 40 mA		
Sensitivity	0.08 - 0.10 - 0.12 - 0.15 dB/m	A1R (58°C + RoR) - B (72°C) - BR(72°C + RoR) - A2S (58°C)	0.08 - 0.10 - 0.12 - 0.15 dB/m ----- A1R (58°C + RoR) - B (72°C) - BR(72°C + RoR) - A2S (58°C) ----- Modalità AND - OR - PLUS
Operating temperature	-5°C + 40°C		
Height including base	46mm	54mm	
Diameter	110mm		
Weight (with base)	160g		
Weight (without base)	90g		

ID200

Heat detector

The response characteristics of the ID200 heat detector have been carefully set in A1R mode (fixed threshold at 58°C with thermovelocimetric detection). However, it can be set (by means of EDRV1000 driver) to operate in B mode (fixed threshold at 72°C); in A2S mode (fixed threshold at 58°C); in BR mode (fixed threshold at 72°C with thermovelocimetric detection).

As a result of such flexibility, this detector is useful in places where the environment is dusty or smoky and the risk of false alarms is high.

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ID300

Smoke and Heat detector

The ID300 smoke and heat detector has new smoke and temperature sensing technologies. As a result, this improved –reliability detector responds well to all types of fires (especially to fast burning blazing fires involving inflammable liquids, which produce a limited amount of smoke) and is highly immune to false alarms.

The ID300 can be set to the sensitivity mode which best suits the application (by means of EDRV1000 driver).choosing from the following: follows in the ID300 table below

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- Operating mode selection (by means of EDRV1000 driver for ID300 version): Only smoke; Only Heat; AND mode; OR mode; Plus mode
- Complete Diagnostics: view the contamination level in the optical chamber and verify real-time values (by means of EDRV1000)
- Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm detected
- Vast range of options (selected by means of EDRV1000 driver)
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The ID300 can be set to the sensitivity mode which best suits the application (by means of EDRV1000 driver).choosing from the following: follows in the ID300 table below

- Plus Mode (set at factory): the detector will trigger an alarm when the measured values exceed the set smoke threshold (configurable as per the ID100), or when the measured values exceed the set heat threshold (configurable as per the ID200). Furthermore, in the event of a rise in temperature, the smoke detection sensitivity will be taken to the maximum value. This operating mode, characterized by high sensitivity allows detection of fast burning blazing fires (for example, fires involving inflammable liquids such as alcohol).
- OR Mode: the detector will trigger an alarm when the measured values exceed the set smoke threshold (configurable as per the ID100), or when the measured values exceed the set heat threshold (configurable as per the ID200). This operating mode, characterized by discrete sensitivity analysis, allows the detector to sense fires with a high emission of smoke and low heat output (for example, smouldering fires) and also fires with low emission of smoke and high heat output (for example, burning chemicals).
- AND Mode: the detector will trigger an alarm only when the set smoke and heat thresholds (configurable as per the ID100 and ID200) are exceeded at the same time. Given the reduced response, it is necessary to evaluate the risk factor before selecting this operating mode.
- SMOKE Mode: the detector will operate as per the ID100.
- HEAT Mode: the detector will operate as per the ID200.

