ACCESS MENUS

ECO2003 INTELLIGENT SELF-ADDRESSING PHOTOELECTRIC SMOKE SENSOR

FEATURES

- Low profile design
- Detector addressing automatically allocated by the ECO2000 Fire Control Panel
- Auto addressing system, making commissioning simpler and faster
- Can be connected to the same 2 wire circuit as sounders, reducing wiring and installation costs
- Digital signal processing for improved false alarm immunity
- Automatic Drift Compensation
- Removable/replaceable chamber for easy maintenance
- Automatic Zoning
- Integral short circuit isolator
- Tamper Resistant
- Remote LED option
- Wide operating temperature range
- Conforms to EN54 part 7 (2000)

LPCB 118f/01

VdS G200127

DESCRIPTION

The ECO2003 smoke sensor belongs to the ECO2000 family of intelligent devices. Using the latest in design development and digital technology, ECO2000 provides a highly cost effective system that extends the benefits of intelligent detection to smaller and less complex installations.

The ECO2003 smoke sensor combines a photoelectric chamber with the latest in microprocessor technology and is as easy to install as a traditional conventional smoke detector. This is because there is no requirement for addressing the ECO2003 sensor once it has been connected to the loop circuit. When incorporated on to an ECO2000 system the address for the ECO2003 sensor is automatically allocated when the system is powered. This facility therefore reduces the time required to commission the system, as there is no requirement to individually address each sensor. The ECO2003 sensor can also be connected to the same loop circuit as loop powered sounders, which reduces installation and wiring costs.

The ECO2003 sensor incorporates the advanced features of 'Digital Signal Processing' and 'Automatic Drift Compensation'. 'Digital Signal Processing' is a technique, which filters out signals that might otherwise cause nuisance alarms, thus enabling the ECO2003 sensor to make an intelligent alarm decision. 'Automatic Drift Compensation' uses special algorithms, which automatically compensate for contamination in the sensor, maintaining a consistent level of sensitivity and providing an increased immunity to unwanted alarms. If the ECO2003 sensor becomes heavily contaminated, then the cover of the sensor can be removed for cleaning or replacement. Both features combine to provide an immensely stable sensor that has high immunity to false alarms while maintaining a high level of protection.

Automatic zoning on an ECO2000 system is easily achieved by simply adding a resistor in the last device within each particular zone.

Each ECO2003 sensor contains an integral short circuit isolator, allowing the system to remain fully operational in the event of a single short circuit.

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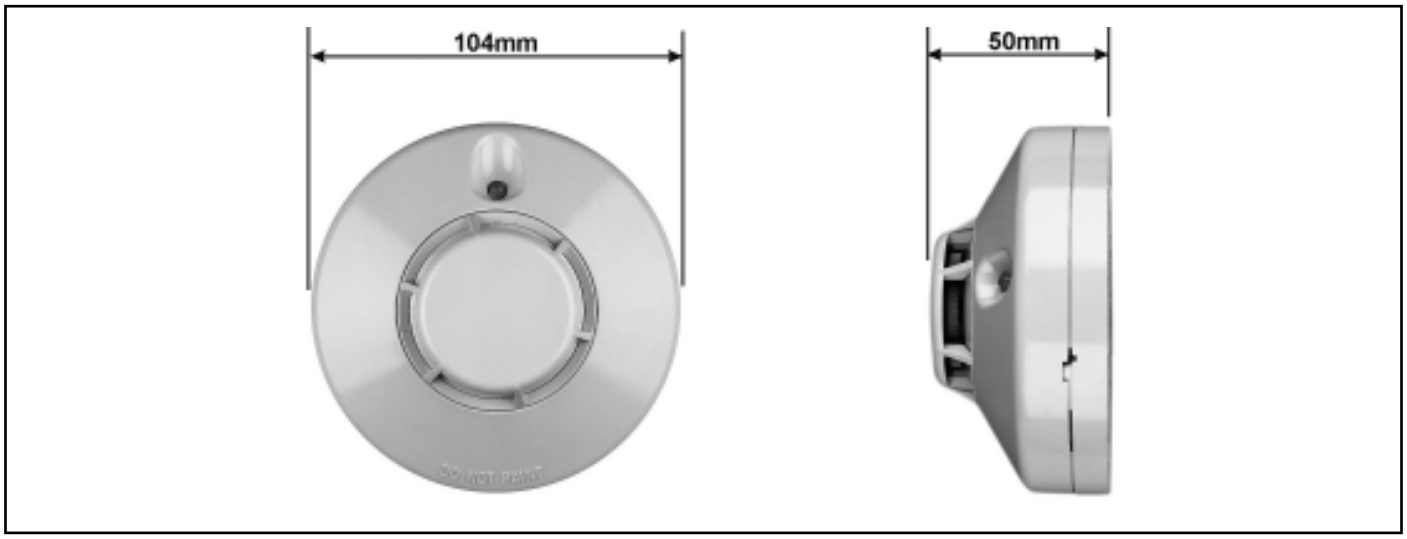

All sensor bases are provided with a locking mechanism to prevent unauthorised removal. Removal is only achieved with the use of a special tool. The base also incorporates a shorting spring that closes when the sensor is removed, thus ensuring that the rest of the addressable loop remains in tact and unaffected by the removal.

The ECO2003 sensor incorporates a red LED indicator, which is used for visible alarm indication. This LED can be pulsed in normal operation to indicate the presence of the sensor. There is also a special address-flashing mode, which allows the sensor's address to be read by observation. A remote LED indicator capability is also available.

All System Sensor products are covered by our extended 3 year warranty.

SPECIFICATIONS

Electrical	
Operating Voltage Range	15 to 30VDC
Maximum Standby Current	360µA @ 24VDC (LED flashing with communications every 5 secs)
Maximum Alarm Current (LED on)	6.5mA @ 24VDC
Environmental	
Operating Temperature Range	-20°C to +60°C
Humidity	5% to 95% Relative Humidity (non-condensing)
Mechanical	
Height	50mm installed in ECO2000B base
Diameter	104mm installed in ECO2000B base
Weight	104g
Max Wire Gauge for Terminals	2.5mm^2
Colour	Pantone Warm Grey 1C
Material	Bayblend FR110
Product Range	
ECO2005	Fixed Temperature/Rate of Rise Thermal Sensor
ECO2000M	Input Module
ECO2001	Manual Callpoint
ECO2000B	Sensor Base
EM24ALW/R (white/red) *	Wall Mounted Loop Powered Sounder
DBS24ALW/LR (lid white/lid white) *	Loop Powered Detector Base Sounder

* Products available through KAC Alarm Company Limited.

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