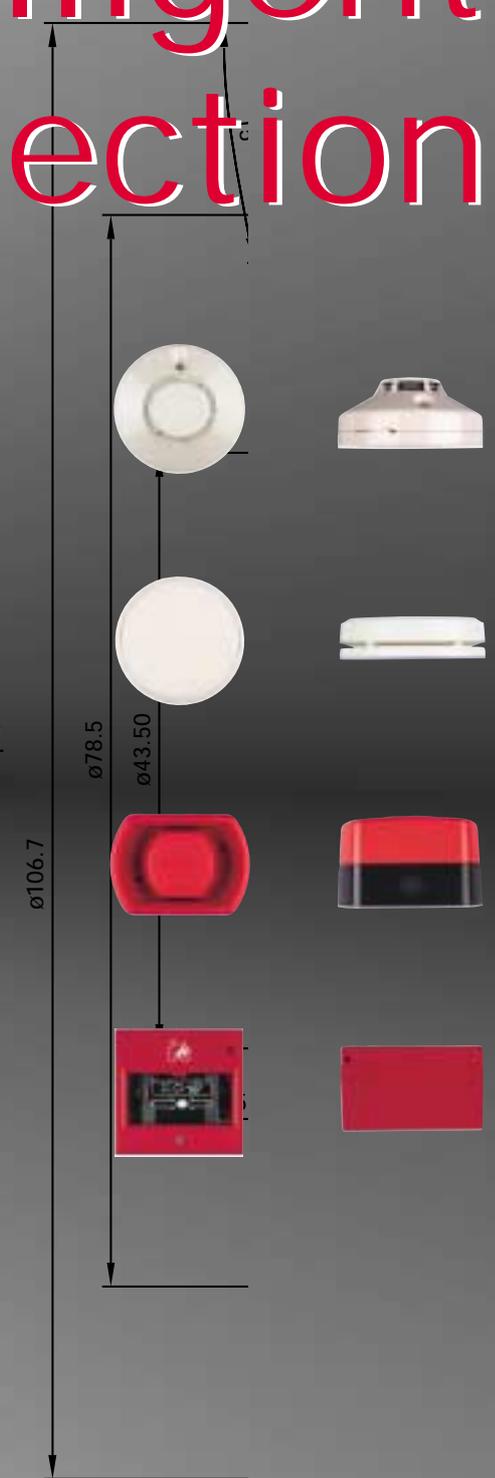
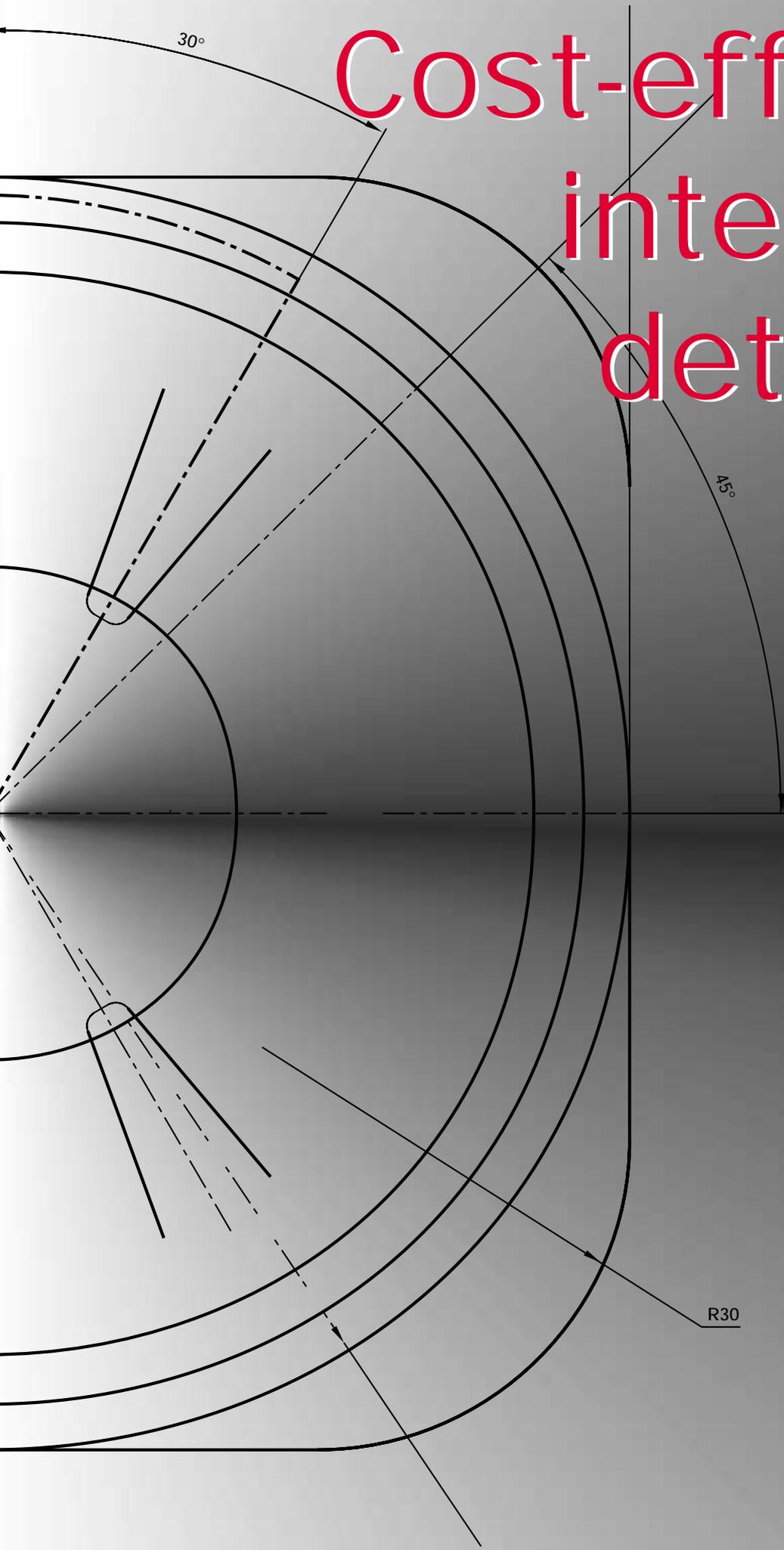


Cost-effective intelligent detection





A major advance in fire detection technology

ECO2000 is a major advance in fire detection technology. Sophisticated design developments provide the key features of an intelligent system, implementing leading edge digital technology.

As simple to install as a traditional conventional detector, the new range will help spread the use of intelligent fire systems into areas previously considered limited to conventional detector technology.

Key Features

- Simple, cost-effective analogue intelligent detector system
- "Plug and Play" set up and auto-configuration
- Easy to install, simple to operate
- Cable-share design for sounders and detectors
- Digital signal processing for false alarm immunity
- Automatic compensation for detector contamination

The new ECO2000 range is a highly cost-effective family of intelligent analogue detectors and associated products, extending the benefits of intelligent detection to smaller and less complex installations. Until now, a conventional system was preferred in this area owing to the incremental cost of an intelligent system.

ECO2000 reduces wiring and installation costs, gives higher detector performance and lower false alarm rates, providing increased security and protection for people and property. The range consists of an optical smoke detector, fixed temperature detector, call point, loop powered sounder and micro input module. Two sounders are available - a wall-mounted version or a discreet detector base sounder which can be mounted beneath the optical or thermal detector and base.

To encourage the replacement of conventional detectors with intelligent systems, the ECO2000 installation and setup has been made as easy as possible. Up to 64 devices can be connected to a single loop, and "Plug and Play" auto-configuration eliminates the time required to address each device manually. With ECO2000, each detector, call point or module is automatically assigned an address on initial power-up.

Automatic zoning is achieved by simply adding resistors to the bases to indicate the last detector in each zone. Standard two wire unshielded cable may be used and all detectors and modules have short circuit isolation to give tolerance to wiring faults.

Loop-powered sounders are allocated a group by means of easy-to-use decade switches on the back of the sounder. In most systems, sounders are activated simultaneously, so a common address of "00" can be used. Grouping sounders onto a common address simplifies system configuration even when a staged evacuation is required.

The optical detector incorporates digital signal processing for optimum system performance. A microprocessor analyses the detector signal to eliminate spikes produced by dust particles and compensates for changes in detector sensitivity caused by dust contamination. This reduces the need for maintenance and increases the stability of the detector. If however, the detector chamber needs cleaning or replacement, a maintenance signal shows at the panel.



OUTLINE TECHNICAL SPECIFICATION

General

Operating voltage: Wide tolerance 15—30VDC
nominal 24VDC

Detector height: 43mm

Detector diameter: 104mm

- Single multi-function LED indicator detectors, modules and call points feature auto-addressing
- All detectors, modules and call points can be designated as “end-of-zone” with an additional resistor in the base.
- Sounders feature decade address switches for sounder group allocation

ECO2003 optical detector

Nominal standby current: 140µA
Alarm current: 6.5mA
Maximum air velocity: 20m/s
Maximum humidity: 95% RH
Operating temperature: -20 to + 65°C
Weight: 102g
Meets prEN54 part 7

ECO2005 fixed temperature heat sensor

Operating point: 58°C
Nominal standby current: 140µA
Alarm current: 6.5mA
Maximum air velocity: 20m/s
Maximum humidity: 95% RH
Installation temperature: -30 to + 65°C maximum
Operating temperature: -30 to + 100°C
Weight: 102g
Meets prEN54 part 5, Class A1S

ECO2000M input module

Monitors the external input connections for open circuit, short circuit and alarm

Nominal standby current: 300µA
Alarm current: 6.5mA
Maximum humidity: 95% RH
Operating temperature: -30 to + 70°C
Weight: 40g

ECO2001 manual call point

Nominal standby current: 255µA
Alarm current: 6.5mA
Maximum humidity: 95% RH
Operating temperature: -30 to + 70°C
Weight: 130g

Wall-mounted loop powered sounder

Sound Pressure level:
Maximum Volume: 100± 3dB(A)
Medium Volume: 93± 3dB(A)
Minimum Volume: 87± 3dB(A)
Nominal standby current: 600µA
Alarm current:
Maximum Volume: 13mA
Medium Volume: 5mA
Minimum Volume: 2.75mA
Maximum humidity: 93% RH
Operating temperature: -20 to + 70°C
Weight: 180g

Loop powered Detector Base sounder

Sound Pressure level:
Maximum Volume: 90± 3dB(A)
Medium Volume: 85± 3dB(A)
Minimum Volume: 80± 3dB(A)
Nominal standby current: 600µA
Alarm current:
Maximum Volume: 13mA
Medium Volume: 9mA
Minimum Volume: 4mA
Maximum humidity: 93% RH
Operating temperature: -20 to + 70°C
Weight: 200g



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