ID300

EN 54-5
EN 54-7

S36176

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0051
0051-CPR-1873

CONVENTIONAL SMOKE AND HEAT DETECTOR

ID300 detectors come from the **IRIS** series of the Inim Electronics.

Each device from the IRIS series is identified by a unique factory-assigned serial number. Therefore, these devices do not require the use of an address programmer. The serial number is located on the device label and on two stickers which can be positioned on the system layout and on the mounting base.

Versa++ technology allows these detectors to be configured in accordance with the required detection method. This allows the detectors to adapt perfectly to external conditions and provide prompt, effective detection of events.
The following parameters are available:

- Operating mode selection (flashing on LED, flashing on remote indicator)
- Optical chamber sensitivity adjustment
- Manual activation of the LED
- Fault report enquiry
- Complete diagnostics

MAIN FEATURES

- 500 μm hole-diameter mesh insect screen
- Bicolour LED: red for alarm; green flash (optional) for identification after manual activation from the programmer
- Versa++ Technology
- Supervised remote output configurable from the control panel
- Automatic recognition of remote signaller connection
- 4 different smoke detection thresholds
- 4 different operating mode for the thermistor (A1R, A2S, BR, B)
- 5 different operating modes:
  - "PLUS" Mode: the detector will trigger an alarm when the measured values exceed the set smoke threshold, or when the measured values exceed the set heat threshold. Furthermore, in the event of a rise in temperature, the smoke detection sensitivity will be taken to 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 sensed values exceed the programmed smoke and temperature thresholds. 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, smoldering 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 sensed values exceed the set smoke and temperature thresholds at the same time. This operating mode lowers the false alarm rate. However, given the reduced response, it is necessary to evaluate the risk factor before selecting this mode.
  - "SMOKE" mode: the detector will trigger an alarm when the sensed value exceeds the set smoke threshold (0.08 – 0.10 – 0.12 – 0.15 dB/m).
  - "HEAT" mode: the detector will trigger an alarm when the sensed value exceeds the set temperature threshold (A2S - A1R - B - BR).
- Complete diagnostics, contamination level reading and values measured in real-time
- Non-resettable alarm counter
- Memory of the smoke and temperature levels measured in the five-minute period prior to the last alarm
- Setting options via manual programmer

ID300

TECHNICAL SPECIFICATIONS

- Certifications: CPR EN54/pt5-pt7
- Detection principle: heat and light diffusion (Tyndall effect)
- Alarm transmission type: polling independent
- Identification of contamination or fault on detector
- Sampling: depends on the selected operating mode
- Power voltage: 10-30Vdc
- Current draw during standby: 90µA
- Current draw during alarm: max 40mA
- Sensitivity:
  - Thermistor: A2S (fixed threshold at 58°C)
    AIR (fixed threshold at 58°C and rate-of-rise)
    B (fixed threshold at 72°C)
    BR (fixed threshold at 72°C and rate-of-rise)
  - Optical smoke chamber: 0.08 – 0.10 – 0.12 – 0.15 dB/m
- Operating modes: AND / OR / PLUS / HEAT / SMOKE

- Base fitting: bayonet coupling
- Degree of protection: IP40
- Height with EB0010 base: 54mm
- Height with EB0030 deep base: 88mm
- Diameter: 110mm
- Weight (base included)
- Operating temperature: from -5°C to +40°C

DIMENSIONS
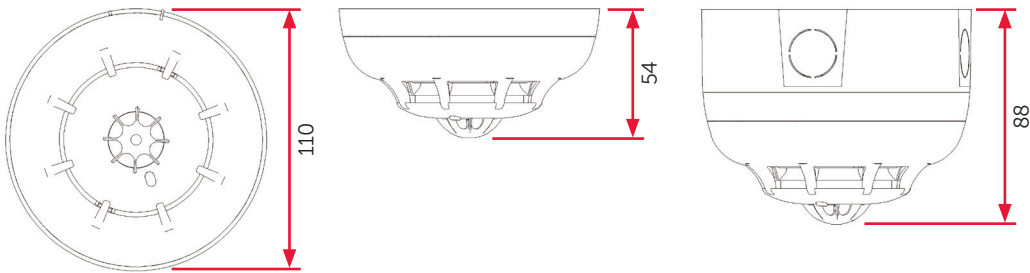
WIRING DIAGRAMS TABLES

ITD002 Iris Detectors Wiring Diagram
ITI004 Enea and Iris Detectors Installation

ITD007 ESB010 Sounder Base Wiring diagram
ITD008 ESB020 Sounder Beacon Base Wiring diagram
ITD009 EB020 Relay Base Wiring diagram

ORDER CODES

ID100 Conventional smoke detector
ID200 Conventional heat detector
ID300 Conventional smoke and heat detector
IL100 Remote indicator

EB0010 Mounting base for ENEA and IRIS detectors
EB0020 Relay base for ENEA and IRIS detectors
EB0030 Deep base
EB0040 Base protected against dripping water
EB0050 Spacer for EB0010 mounting base
EB0060 Base with integrate buzzer

Inim distributor's stamp
and signature