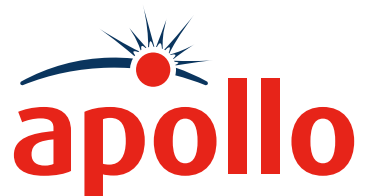


# orbis<sup>®</sup>

## INTRINSICALLY SAFE CONVENTIONAL DETECTORS

- TimeSaver Base<sup>®</sup>
- Patented FasTest<sup>®</sup> enabling functional testing in 4 seconds
- DirtAlert<sup>®</sup> indicates limit of drift compensation
- Tolerates extreme operating conditions
- False alarms reduction
- Flashing LED option
- ATEX & IECEx certified





# orbis®

## INTRINSICALLY SAFE CONVENTIONAL DETECTORS

Orbis® Intrinsically Safe (I.S.) is a product range of conventional detectors which has been developed from the standard range of Orbis optical smoke and heat detectors.

The Orbis I.S. has modern styling and a TimeSaver I.S. base. It is electrically compatible with Apollo Series 60 I.S. conventional detectors.

Orbis I.S. is a demonstration of Apollo's commitment to the market for high quality conventional detectors for use in small to medium size installations. In developing this range Apollo has put ease of installation and reliability in daily operation at the forefront of considerations.

### Feature packed:

- TimeSaver Base® is a proven design that provides installers with an open working area and single quadrant wiring terminals.
- StartUp™ uses a flashing red LED to confirm that the devices are wired in the correct polarity.
- Continuity Link enables voltage testing of zone wiring prior to commissioning.
- Wide Angle Optics respond well to a wide range of fires.
- DustDefy™ system prevents dust ingress while maintaining airflow.
- Transient Rejection uses algorithms to filter out temporary abnormal readings, helping to reduce false alarms.
- Drift Compensation maintains calibrated sensitivity levels even if the detector is contaminated.
- DirtAlert® uses a flashing yellow LED to show that the drift compensation limit has been reached.
- SensAlert® is a yellow flashing LED switched on in the unlikely event of incorrect detector operation.
- FasTest® maintenance procedure takes just four seconds to test and confirm that smoke and heat detectors are functioning correctly.
- E-Z Fit Slots allow base to be fixed in position without removing mounting screws, using a simple sliding action.
- 360° Visibility of status LEDs.

There are many places where an explosive mixture of air and gas or vapour is or may be present continuously, intermittently or as a result of an accident. These are defined as hazardous areas and are common in petroleum and chemical engineering plants and in factories processing and storing gases, solvents, paints and other volatile substances.

Electrical equipment for use in these areas needs to be designed so that it cannot ignite an explosive mixture, not only in normal operation but also in fault conditions. Orbis I.S. has been designed to meet these requirements.

### Orbis I.S. Optical Smoke Detector

Optical smoke detectors are regarded as particularly suitable for smouldering fires and escape routes. The performance of Orbis I.S. Optical Smoke Detectors is good at detecting black and white smoke. These detectors are also designed to significantly reduce the incidence of false alarms through over-sensitivity to transient phenomena. Orbis I.S. Optical Smoke Detectors are recommended for use as general purpose smoke detectors for early warning of fire in most areas.

### Orbis I.S. Multisensor Smoke Detector

Multisensor smoke detectors are recognised as good detectors for general use but are additionally more sensitive to fast burning, flaming fires, including liquid fires, than optical smoke detectors. They can be readily used instead of optical smoke detectors but should be used as the detector of choice for areas where the fire risk is likely to include heat at an early stage in the development of the fire.



### Orbis I.S. Heat Detector

Heat detectors are used in applications where smoke detectors are unsuitable. Heat detectors may be used if there is a danger of nuisance alarms from smoke detectors (subject to risk assessment).

### Approvals

Orbis I.S. is suitable for use in marine and offshore applications as well as in land-based systems and has been tested and approved. For up-to-date approvals information refer to the website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

### Also available

Mounting Bases, Adaptor for Series 60 I.S. Bases and Mini Disc Remote Indicator.

© Apollo Fire Detectors Limited 2016

A HALMA COMPANY



Assessed to ISO 9001:2008  
Cert/LPCB ref. 010



Assessed to ISO 14001:2004  
Cert/LPCB ref. 010 EMS



Cert/LPCB ref. 010

36 Brookside Road, Havant,  
Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412  
Fax: +44 (0)23 9249 2754

Email: [sales@apollo-fire.com](mailto:sales@apollo-fire.com)  
Web: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)