orbis™

intrinsically safe

To Orbis IS Multisensor

Part of intrinsically safe fire detector

⟨Ex⟩ II 1G   Ex ia IIC   -40°C<Ta<+40°C

DO NOT PAINT

TimeSaver Base®

FasTest® means functional testing in 4 seconds

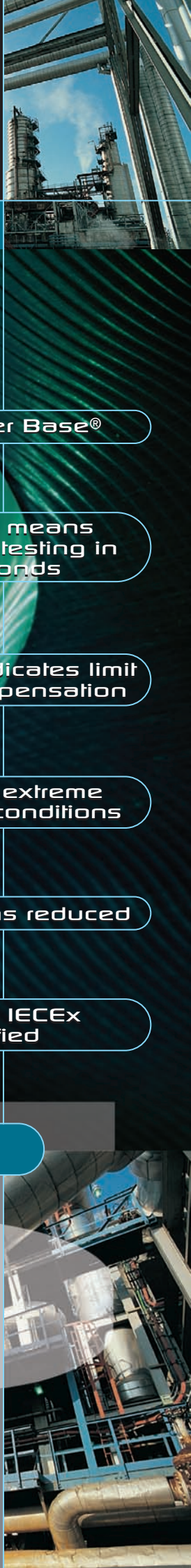DirtAlert® indicates limit of drift compensation

Tolerates extreme operating conditions

False alarms reduced

ATEX & IECEx certified

conventional detectors

apollo
FIRE DETECTORS LIMITED

orbis™

TM

intrinsically safe

CONVENTIONAL FIRE DETECTORS

orbis™ IS is a range of conventional detectors which has been developed from the standard range of Orbis smoke and heat detectors.

Orbis IS is a range with modern styling and a TimeSaver IS base. It is electrically compatible with Apollo Series 60 intrinsically safe conventional detectors.

Orbis IS 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. Orbis IS is manufactured in Apollo's factory near Portsmouth, England.

Feature packed

- **TimeSaver Base®** is a completely new design that provides installers with an open working area and single quadrant 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 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 IS has been designed to meet these requirements.

Orbis IS optical smoke detector

Optical smoke detectors are regarded as particularly suitable for smouldering fires and escape routes.

The performance of Orbis IS optical detectors is good in black as well as in white smoke.

Orbis IS optical detectors are also designed to reduce significantly the incidence of false alarms through over-sensitivity to transient phenomena.

Orbis IS optical detectors are recommended for use as general purpose smoke detectors for early warning of fire in most areas.

Orbis IS 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.

Orbis IS 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 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.

Also available

Mounting Base
Adaptor for Series 60 IS Bases
Mini Disc Remote Indicator

Approvals

Orbis IS is suitable for use in marine and offshore applications as well as in land-based systems and has been tested and approved to the following standards:

European Standard EN54 Fire Detection and Fire Alarm Systems:
EN54–7: 2000
    Optical smoke detector
EN54–7: 2000 & CEA 4021: 2003
    Multisensor smoke detector
EN54–5: 2000
    Heat detector

Electromagnetic Compatibility
EN61000-6-3
EN50130-4

ATEX-related standards:
BSEN60079–0:2004
IEC60079–0:2004
EN50020:2002 and
EN/BSEN/IEC60079–26:2004

Marine type approval standards:
American Bureau of Shipping (ABS)
    Rules for Building and Classing
    Steel Vessels 2006
Bureau Veritas (BV)
    Rules for the Classification of
    Steel Ships 2005
Det Norske Veritas (DNV)
    Standard for Certification No
2.4: 2004
Germanischer Lloyd (GL)
    Rules for Classification and
    Construction 2003
Lloyds Register (LR)
    LR Type Approval System Marine
    & Coastguard Agency (MCA)
    Merchant Shipping (Marine
    Equipment) Regulations 1999

Detectors have been declared as being compliant with the essential requirements of the EMC Directive 98/336/EEC, the Construction Products Directive 89/106/EEC and the ATEX Directive 94/9/EC.
Intrinsic safety certificates for ATEX is Baseefa 06 ATEX 0007X and for IECEx IECEx BAS 06.0002X.

INVESTOR IN PEOPLE

LPCB   UKAS QUALITY MANAGEMENT 007

A HALMA GROUP COMPANY

Assessed to ISO 9001: 2000
Certificate number 010

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