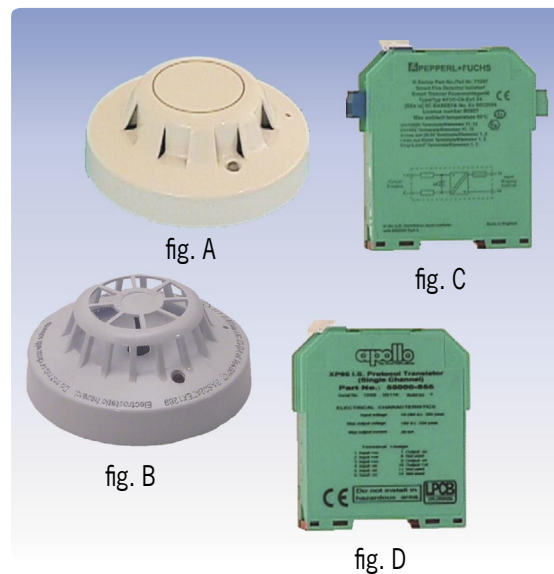


Devices for Hazardous Areas for the Apollo/Discovery Loop

- **ADM loop technology with Apollo/Discovery protocol**
- **Optical smoke detector**
- **Thermal detector**
- **Safety barrier with galvanic isolation**
- **Protocol interface for communication with the fire detection control panel**
- **ATEX certified**



IS Optical Smoke Detector AOEX-55000-640

The addressable Intrinsically Safe Optical Smoke Detector AOEX-55000-640 (fig. A) uses the scattered light principle and was developed for the detection of smoke particles in hazardous areas. The smoke detector must always be connected via a safety barrier, which has been approved for this detector, and a protocol interface. Furthermore, the relevant country specific regulations always have to be observed.

The proven ADM loop technology with Apollo/Discovery protocol establishes a permanent communication between the fire detection control panel and the detector. That ensures a periodical function testing of the detector. In the control panel all types of fires are detected by continuously comparing fire patterns. Intelligent evaluation algorithms use the current condi-

tion of the sensing chamber to predict the likely time of the next maintenance. Thus the alarm threshold is automatically adjusted within the permissible range, depending on the contamination. With that, the constant response sensitivity of the detector is ensured for a long time.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected by means of a code card in the detector base. Therefore the detector can be changed without additional tools.

The detector is inserted into the IS Detector Base ASEX-45681-215 (not illustrated) and it can be protected against theft.

Specifications

| | |
|---------------------|---|
| Ignition protection | intrinsically safe |
| Ex classification | EEx ia IIC T5 |
| Operating voltage | Supply through loop voltage |
| Current consumption | typ. 340µA (quiescent) |
| Ambient temperature | -20°C to +40°C (no condensation or icing) |
| Relative humidity | 0 – 95% (no condensation) |
| Dimensions ø × H | 100 × 42 (mm) |
| Colour | white |
| Weight | 100g |



| | |
|--------------|---|
| Approval | EECS ATEX 0073 LPCB 010q |
| Order number | 241024 |
| Order name | IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640 |

IS Thermal Detector AWEX-55000-440

The addressable Intrinsically Safe Thermal Detector AWEX-55000-440 (fig. B) uses the heat principle and was developed for the fire detection in hazardous areas. The heat detector must always be connected via a safety barrier, which has been approved for this detector, and a protocol interface. Furthermore, the relevant country specific regulations always have to be observed.

The detector is assigned to Class A2S and can be used up to a room height of 6m. Depending on the parameter setup in the fire detection control panel, the detector can operate either as maximum heat detector with an alarm temperature of 55°C, or as rate-of-rise heat detector with a maximum temperature of 55°C.

The proven ADM loop technology with Apollo/Discovery protocol establishes a permanent communication between the fire detection control panel and the detector. That ensures a periodical function testing of the detector. Fires are safely detected in the control panel by continuously analysing the measured values.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected by means of a code card in the detector base. Therefore the detector can be changed without additional tools.

The detector is inserted into the IS Detector Base ASEX-45681-215 (not illustrated) and it can be protected against theft.

Specifications

| | |
|---------------------|--|
| Ignition protection | intrinsically safe |
| Ex classification | EEx ia IIC T5 |
| Operating voltage | Supply through loop voltage |
| Current consumption | typ. 300µA (quiescent) |
| Ambient temperature | -20°C to +40°C (Class T5, no condensation or icing) -20°C to +60°C (Class T4, no condensation or icing) |
| Relative humidity | 0 – 95% (no condensation) |
| Dimensions ø × H | 100 × 42 (mm) |
| Colour | white |
| Weight | 100g |
| Approval | EECS ATEX 0073 LPCB 010p |
| Order number | 242036 |
| Order name | IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440 |

IS Detector Base ASEX-45681-215

The IS Detector Base ASEX-45681-215 is designed to accommodate intrinsically safe intelligent fire detectors Series XP95 for use in ADM loops with Apollo/Discovery protocol.

Due to its robust multi-wire screw terminals, the detectors can be wired with ease, thus achieving a secure and durable connection.

The detector address is selected by means of a code card in the detector base. Therefore the detector can be changed without additional tools.

The base is designed for surface mounting in hazardous areas. A mechanical theft protection of the detector can optionally be activated at the detector base.

Specifications

| | |
|---------------------|---|
| Ambient temperature | -20°C to +60°C (no condensation or icing) |
| Relative humidity | 10 – 95% (no condensation) |
| Dimensions ø × H | 100 × 15 (mm) |
| Colour | white |
| Weight | 50g |
| Order number | 246027 |
| Order name | IS Detector Base/Anal./Apo ASEX-45681-215 |

Safety Barrier AES-29600-098

The Safety Barrier AES-29600-098 (fig. C) is used for intrinsically safe electric circuits. The built-in zener barrier and the safe galvanic isolation allow the connection of fire detectors in hazardous areas. Due to the galvanic isolation, the earth leakage monitoring can remain activated in the fire detection control panel.

Specifications

| | |
|---------------------|---|
| Ignition protection | intrinsically safe |
| Ex classification | EEx ia IIC T5 |
| Operating voltage | Supply through loop voltage |
| Ambient temperature | -10°C to +60°C |
| Colour | green |
| Approval | EECS ATEX 0073 |
| Order number | 228004 |
| Order name | Safety Barrier/Anal./XP95/Apo AES-29600-098 |

Protocol Interface API-55000-855

The Protocol Interface API-55000-855 (fig. D) serves for the design of an intrinsically safe electric circuit in ADM loop technology. It allows the bidirectional data traffic between fire detection control panel and detectors in hazardous areas, via an ADM loop with Apollo/Discovery protocol. The interface is always used together with the Safety Barrier AES-29600-098.

Specifications

| | |
|----------------------------|---|
| Ignition protection | intrinsically safe |
| Ex classification | EEx ia IIC T5 |
| Operating voltage | Supply through loop voltage |
| Current consumption at 24V | 1mA |
| Ambient temperature | -10°C to +60°C |
| Relative humidity | 10 – 95% (no condensation) |
| Dimensions W × H × D | 93 × 110 × 20 (mm) |
| Weight | 100g |
| Order number | 228005 |
| Order name | Protocol Interface/Anal./XP95/Apo API-55000-855 |

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