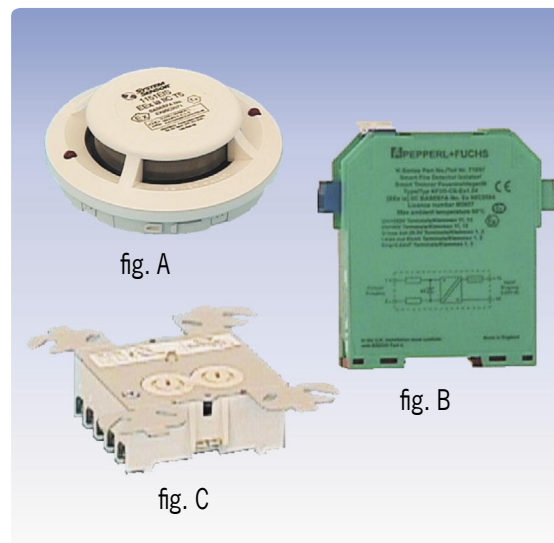


# Devices for Hazardous Areas for the System Sensor/200 Loop

- **Optical smoke detector**
- **Safety barrier with galvanic isolation**
- **Protocol interface for communication with the fire detection control panel**
- **ATEX certified**



## IS Optical Smoke Detector 2251EIS

The addressable Intrinsically Safe Optical Smoke Detector 2251EIS (fig. A) uses the scattered light principle and was developed for the detection of smoke particles in hazardous areas. The modern design of the sensing chamber allows to reliably evaluate the characteristics of fire.

The proven ADM loop technology with System Sensor/200 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 condition 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 with two decadic rotary switches, thus allowing to change the detector without additional tools.

A detector function test can be conveniently conducted using a magnet or test gas. The detector can be protected against theft.

## Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Operating voltage	Supply through loop voltage
Current consumption at 24V	330µA
Ambient temperature	-25°C to +70°C
Relative humidity	5 – 95% (no condensation)
Dimensions ø x H	103 x 43 (mm)
Colour	cream
Weight	110g
Approval	BASEEFA03ATEX0157X LPCB 199m
Order number	241025
Order name	IS Optical Smoke Detector/Anal./200/SS 2251EIS

*Building Safety. Building Security.*



## Safety Barrier Y72221

The Safety Barrier Y72221 (fig. B) 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 the detector line voltage
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	20 × 110 × 107.5 (mm)
Mounting	TS35 DIN rail
Colour	green
Weight	100g
Approval	BAS00ATEX7087
Order number	228006
Order name	Safety Barrier/Anal./200/SS Y72221

## Protocol Interface IST200

The Protocol Interface IST200 (fig. C) 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 fire detectors in hazardous areas via an ADM loop with System Sen-

sor/200 protocol. The interface is always used together with the Safety Barrier Y72221. The Surface Mounting Box SMB500 is required for mounting the protocol interface.

### Specifications

Ignition protection	intrinsically safe
Operating voltage	Supply through loop voltage
Current consumption at 24V	14mA
Ambient temperature	0°C to +60°C
Relative humidity	5 – 95% (no condensation)
Dimensions W × H × D (without attaching sheet)	70 × 70 × 32 (mm)
Weight	155g
Order number	228007
Order name	Protocol Interface/Anal./200/SS IST200

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