Optical Smoke Detector
ND22051E

- **ADM loop technology with System Sensor/200 protocol**

- **Optional connection of remote indicator**

- **Constant response sensitivity**

- **Available with or without integrated isolator, in white or cream**

- **Function testable with magnet**

Description

The addressable Optical Smoke Detector ND22051E uses the scattered light principle, and was developed for the detection of smoke particles in a wide range of fire detection applications. The new design of the sensing chamber ensures reliable smoke detection and at the same time makes it more difficult for dust and insects to reach the chamber.

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.
The influence of contamination on the optical measurement system is compensated for by using intelligent evaluation algorithms. In this way, the response sensiti-

vity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

The detector address is set in the range 1 to 159 with two decadic rotary switches, thus allowing a change of the detector without additional tools.
The two LEDs with 360° visibility indicate the activated condition of the detector.

A detector function test can be conveniently conducted using a magnet. The detector can be attached to various bases and it can be protected against theft.

The Optical Smoke Detector ND22051E is available in a white or in a cream-coloured housing, as well as with or without integrated isolator.

Specifications

Operating voltage	Supply through loop voltage
Current consumption at 24V, normal communication	max. 270µA (ND22051EI, ND22051EI-IV) max. 220µA (ND22051E, ND22051E-IV)
Ambient temperature	-30°C to +70°C
Relative humidity	10 – 93% (no condensation)
Dimensions ø × H	102 × 45 (mm)
Weight	97g

VdS

CE

0786–CPD–20652
0786–CPD–20658

LST

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Optical smoke detector with isolator, white	
Approvals	VdS G209015 0786-CPD-20652
Order number	241110
Order name	Optical Smoke Detector/200APISM ND22051EI

Optical smoke detector with isolator, cream-coloured	
Approvals	VdS G209015 0786-CPD-20652
Order number	241049
Order name	Optical Smoke Detector/200APISM/Ivory ND22051EI-IV

Optical smoke detector without isolator, white	
Approvals	VdS G209021 0786-CPD-20658
Order number	241111
Order name	Optical Smoke Detector/200AP ND22051E

Optical smoke detector without isolator, cream-coloured	
Approvals	VdS G209021 0786-CPD-20658
Order number	241047
Order name	Optical Smoke Detector/200AP/Ivory ND22051E-IV

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