



OOH740-A9-Ex

Cerberus™ PRO
Collective

Multi-sensor fire detector



ASAt^{technology}™
For potentially explosive areas

- Signal processing with *ASAt^{technology}*
- Multiple protocol detector (collective/C-NET-Ex)
- Event-controlled detection behavior
- Early and reliable detection when fires occur
- Highly developed immunity to deceptive phenomena
- Redundant sensor system
- Suitable for wind speeds of 1 to 20 m/s
- Prepared for future requirements thanks to its programmability
- Communication via C-NET-Ex (addressed individually)
- Address automatically issued during commissioning

Properties

- **Eco-friendly**

- Environmentally friendly processing
- Reusable materials
- Electronic parts and synthetic materials can be easily separated

- **Features**

- Resistant to environment and interfering influences such as dust, fibers, insects, moisture, extreme temperatures, electromagnetic interference, corrosive vapors, vibration, artificial aerosols, and atypical fire phenomena
- Shock resistant, protection against sabotage
- Signal processing with **ASA**technology (Advanced Signal Analysis)
- Time and process-dependent detection behavior
- High degree of immunity to faults in power electronics
- Protected electronics, high-quality components
- Sophisticated sensors and electronic monitoring
- Redundant, high-quality sensor system
- Integrated alarm indicator (AI), 360° visibility

OOH740-A9-Ex neural fire detector, ASA



- **Function**

- Functions according to the scattered light principle with two sensors, optical forward and backward scattering
- Opto-electronic measuring chamber which obstructs disruptive extraneous light but provides excellent detection of both light and dark smoke particles
- Two additional heat sensors increase the fire detector's immunity to deceptive phenomena
- Can be set as a multi-sensor smoke detector, smoke detector, or heat detector by the software
- Selectable detection behavior thanks to application-specific ASA parameter sets
- Multi-protocol: Collective/GMT (Cerberus/Siemens), SynoLINE300 C-NET-Ex

- **Use**

- For early detection of flaming fires of solid and liquid substances as well as of smoldering fires
- For early and reliable fire detection in an environment with deceptive phenomena
- Can be used either addressed or collectively

Efficiency on-site

- Exchange the detector with detector exchanger FDUD291 without resetting the parameters
- Exchange the detector with detector exchanger FDUD291 without a ladder at heights up to 8 m

Installation

• Easy installation

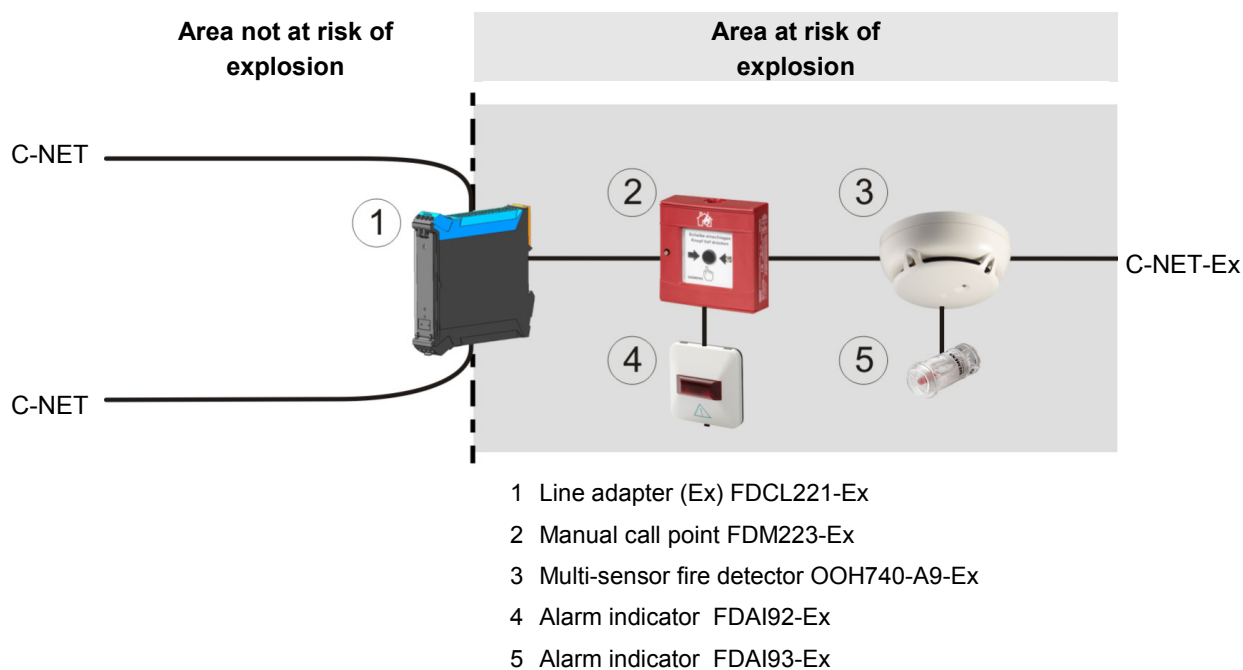
- Base with stilts for surface-mounted and recess-mounted supply lines
- Flat base for flush installation, only for recess-mounted supply lines
- Extra-long installation slits allow existing drill holes from other systems to be reused
- A large opening in the detector base makes it easy to feed the cables through
- The detector can be screwed into the base easily either manually or using a detector exchanger
- The OOH740-A9-Ex fire detector is designed in ignition protection category 'intrinsic safety' Ex i Standards IEC 60079-0 and IEC 60079-11 provide a basis

Installation in potentially explosive areas

Specific national requirements always apply when creating installations in areas at risk of explosion.

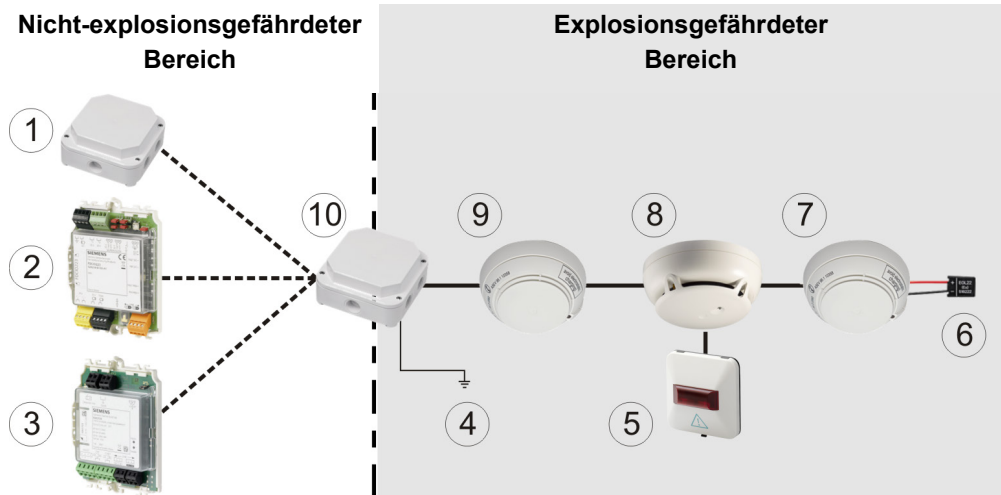
Addressed operation (C-NET/C-NET-Ex)

The safety barrier FDCL221-Ex ensures electrical isolation of the potentially explosive areas and the areas not at risk.



Collective Ex installation

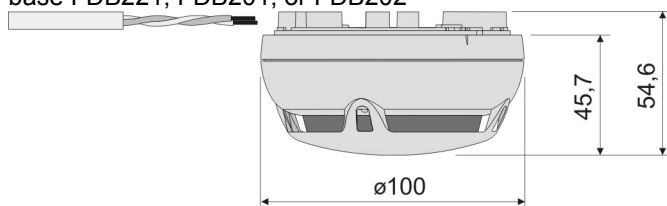
The input/output module DC1192/FDCIO223 with downstream safety barrier SB3 ensures electrical isolation of the potentially explosive areas and areas not at risk.



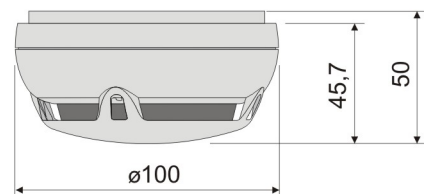
- 1 Input/output module DC1192
- 2 Transponder FDCIO223
- 3 Zone module FDCI723
- 4 Equipotential bonding ground
- 5 Alarm indicator FDAI92-Ex / FDAI93-Ex
- 6 End-of-line EOL22(Ex) in the last detector
- 7 Heat detector DT1101A/02A-Ex
- 8 Multi-sensor fire detector OOH740-A9-Ex
- 9 Smoke detector DO1101A-Ex
- 10 Safety barrier SB3

Dimensions of the detector with base

up to Ø6 mm possible for surface-mounted cable entry with base FDB221, FDB201, or FDB202




with base FDB222 for flush installation, only for recess-mounted cable entry



Technical data

| | | | |
|---|--|---|------------|
| Dimensions (Ø x H) | 100 x 45,7 mm | | |
| Operating temperature | -25...+70 °C | | |
| Storage temperature | -30...+75 °C | | |
| Air humidity | ≤95 % rel. (short-term moisture condensation permitted) | | |
| Communication protocol | C-NET-Ex or collective Ex | | |
| Color | White, ~RAL 9010 | | |
| Protection category according to EN 60529 | IP40 | | |
| Collective system compatibility | FC10, XC10, FC330A, FC700A | | |
| C-NET system compatibility | FS720 | | |
| Characteristics | Ui | ≤ | 28 V |
| | Ii | ≤ | 100 mA |
| | Pi | ≤ | 700 mW |
| | Li | | negligible |
| | Ci | < | 0.2 nF |
| Operating current (quiescent) | 200...280 µA | | |
| Ext. Alarm indicator (AI) | Uo | ≤ | 14.2 V |
| | Io | ≤ | 480 mA |
| | Po | ≤ | 195 mW |
| | Lo | < | 100 µH |
| | Co | < | 38 nF |
| | Only for connecting passive, external alarm indicators to negligibly small inductivities and capacities. | | |
| Ex classification | | | |
| IECEx scheme | Ex ia IIC T4 Ga, Ta = -35 °C...+70 °C | | |
| 94/9/EC (ATEX Directive) | II 1 G Ex ia IIC T4 Ga, Ta = -35 °C...+70 °C | | |
| Ex approvals | | | |
| – EC-type examination certificate | BVS 12 ATEX E 087 X | | |
| – IECEx | BVS 12.0076 X | | |
| EN 54 approvals | | | |
| – VdS | G214047 | | |

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|---|---------------------|---|
| 14  0786 0102 | OOH740-A9-Ex | Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. A6V10367521 |
| OOH740-A9-Ex - Smoke/heat detector for use in fire detection and fire alarm systems installed in buildings | | |
| 305/2011/EU (CPR): EN 54-5 / EN54-7 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581 ; 94/9/EC (ATEX): EN 60079-0 / EN 60079-11 / EN 60079-26 | | |
| Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or http://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-21369; DoC No.: CED-OOH740-A9-Ex | | |

Details for ordering

| Type | Art. no. | Designation | Weight |
|--------------|--------------|----------------------------|----------|
| OOH740-A9-Ex | S54329-F8-A1 | Multi-sensor fire detector | 0.106 kg |

You will find additional information in the following documents:

- Equipment overview, doc no. A6V10225323
- For system compatibility, see list of compatibility, doc no. A6V10229261
- Fire alarm signal in areas at risk of explosion, doc no. 001204
- Planning, mounting/installation, commissioning, maintenance/servicing of fire detection installations FS20 and FS720 in potentially explosive areas, doc no. A6V10324618
- Safety barrier SB3 installation instructions; doc no. 1227
- Line adapter (Ex) FDCL221-Ex, doc no. A6V10349349
- OOH740-A9-Ex technical manual, doc no. A6V10367521