SIEMENS

OOH740-A9-Ex

Cerberus™ PRO
Collective

Multisensor fire detector

ASA*technology*™
For potentially explosive areas

- **Signal processing with ASA*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**

Building Technologies

CPS Fire Safety

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 multisensor 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

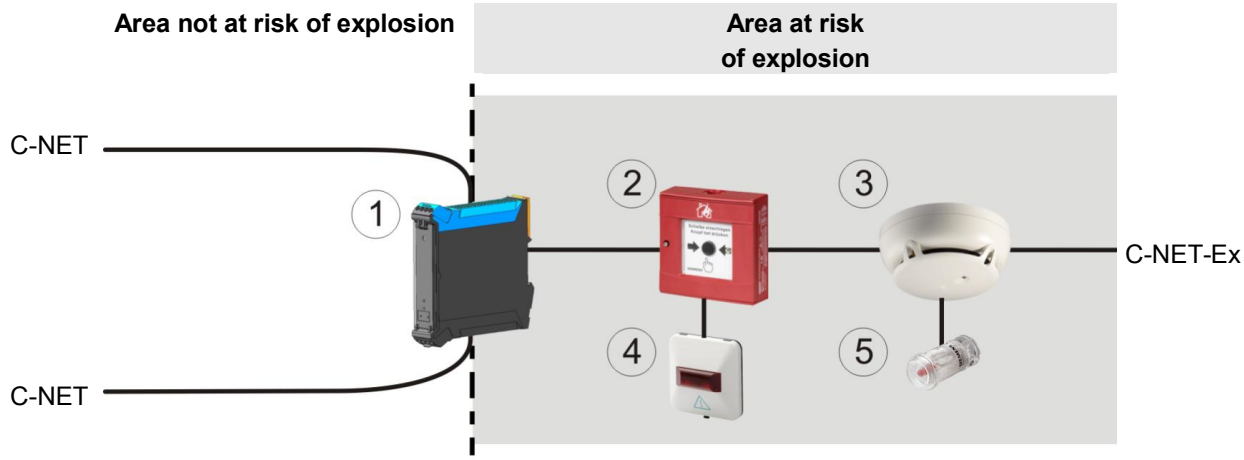
Installation

- **Easy mounting**
  - Base with stilts for surface-mounted and recess-mounted supply lines
  - Flat base for flush mounting, only for recess-mounted supply lines
  - Extra-long mounting 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.

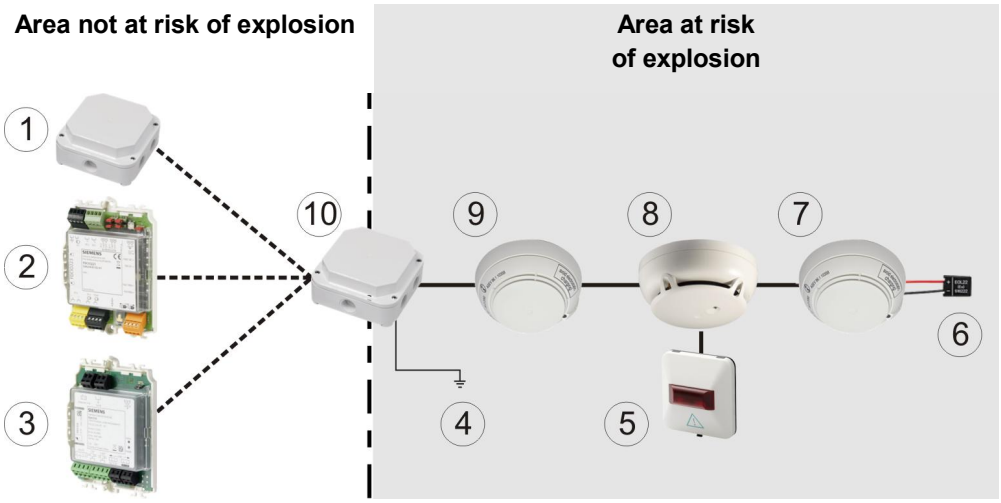
Addressed operation (C-NET/C-NET-Ex)
The safety barrier FDCL221-Ex ensures electrical isolation of the potentially explosive areas and the areas not at risk.



1 FDCL221-Ex line adapter (Ex)
2 Manual call point FDM223-Ex
3 Multisensor fire detector OOH740-A9-Ex
4 Alarm indicator FDAI92-Ex
5 Alarm indicator FDAI93-Ex

Collective Ex installation

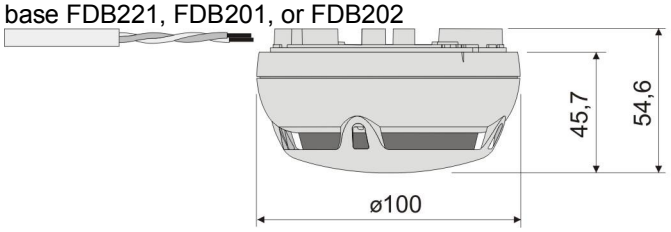
The input/output module DC1192/FDCIO223 with downstream safety barrier SB3 ensures electrical isolation of the potentially explosive areas and areas not at risk.



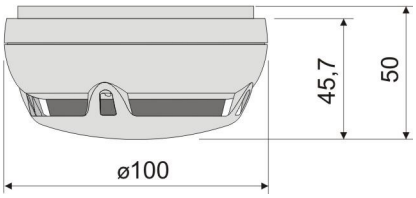
1 Input/output module DC1192
2 Transponder FDCIO223
3 Zone module FDCI723
4 Equipotential bonding ground
5 Alarm indicator FDAI92-Ex / FDAI93-Ex
6 End-of-line EOL22(Ex) in the last detector
7 Heat detector DT1101A/02A-Ex
8 Multisensor fire detector OOH740-A9-Ex
9 Smoke detector DO1101A-Ex
10 Safety barrier 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 mounting, 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 or collective Ex
Color	~RAL 9010, pure white
– Protection category according to EN 60529	IP43 IP44 with sealing kit FDBZ295
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 94/9/EC (ATEX Directive)	 Ex ia IIC T4 Ga, Ta = -35 °C…+70 °C II 1 G Ex ia IIC T4 Ga, Ta = -35 °C…+70 °C
Ex approvals – EC-type examination certificate – IECEx	 BVS 12 ATEX E 087 X BVS 12.0076 X
EN 54 approvals – VdS	 G214047

14 CE 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	Multisensor fire detector	0.106 kg
Accessories	FDBZ295	S54319-F10-A1	Sealing kit	0.062 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 mounting instructions; doc no. 1227
- Line adapter (Ex) FDCL221-Ex, doc no. A6V10349349
- OOH740-A9-Ex technical manual, doc no. A6V10367521

Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41 724 24 24
www.siemens.com/buildingtechnologies