

Cerberus™ PRO / Kollektiv

Multisensor fire detector (Ex) OOH740-A9-Ex



ASAtechnology™, for areas at risk of explosion

- 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...20 m/s
- Prepared for future requirements thanks to its programmability
- Communication via C-NET-Ex (addressed individually)
- Address automatically issued during commissioning



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 ASAtechnology (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

Eco-friendly

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

Functions

- 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



Observe national guidelines and regulations.

- Fields of application:
 - 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

Type Overview

Туре	Designation	Order number	Weight [kg]
OOH740-A9-Ex	Multi-sensor fire detector (Ex)	S54329-F8-A1	0.106

Accessories for OOH740-A9-Ex

Туре	Designation	Order number	Weight [kg]
DBZ1190-AB	Connection terminal	BPZ:4942340001	0.001
FDB201	Detector base collective	A5Q00003814	0.026
FDB202	Flat, collective detector base	S54319-F3-A1	0.025
FDB221	Detector base, addressable	A5Q00001664	0.027
FDB222	Flat, addressable detector base	S54319-F1-A1	0.026
FDB291	Base attachment	A5Q00001603	0.035
FDB295	Base attachment wet	S54319-F21-A1	0.286
FDBZ293	Detector locking device	A5Q00005035	0.001
FDBZ295	Sealing element	S54319-F10-A1	0.062
FDCL221-Ex	Line adapter (Ex)	S54329-F4-A1	0.240
FDZ291	Detector dust cap	A5Q00004814	0.003
_	Metal cable gland M20 x 1.5	A5Q00004478	0.036

Product documentation

Document ID	Name
001204	Principles, applications, installation, maintenance Fire alarm signal in areas at risk of explosion
001227	Installation instructions Shunt Zener Diode SB2, SB3
A6V10229261	List of compatibility (for 'Cerberus™ PRO' product line)
A6V10324618	Planning, Mounting/Installation, Commissioning, Maintenance of fire detection installations with addressed detector lines in potentially explosive atmospheres
A6V10349349	Data sheet Line adapter (Ex) FDCL221-Ex
A6V10367521	Technical Manual Automatic fire detector OOH740-A9-Ex

Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

https://siemens.com/bt/download

Mounting

Easy mounting:

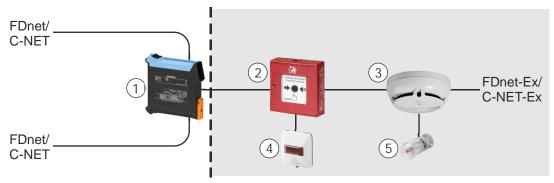
- Base with stilts for surface-mounted and recess-mounted supply lines
- Flat base for flush mounting, only for recess-mounted supply lines
- Extra-long mounting slits allow existing drill holes from other systems to be reused
- A large opening in the detector base makes it easy to feed the cables through
- 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

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

Addressed operation

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

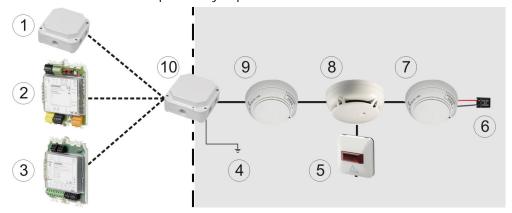


- 1 Line adapter (Ex) FDCL221-Ex
- 3 Multi-sensor fire detector OOH740-A9-Ex
- 5 Alarm indicator FDAI93-Ex

- 2 Manual call point FDM223-Ex
- 4 Alarm indicator FDAI92-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
- 3 Zone module FDCI723
- 5 Alarm indicator FDAI92-Ex / FDAI93-Ex
- 7 Heat detector DT1101A/02A-Ex
- 9 Smoke detector DO1101A-Ex

- 2 Transponder FDCIO223
- 4 Equipotential bonding ground
- 6 End-of-line EOL22(Ex) in the last detector
- 8 Multi-sensor fire detector OOH740-A9-Ex
- 10 Safety barrier SB3

Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Technical data

	OOH740-A9-Ex	
Operating current (quiescent)	200280 μΑ	
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	~RAL 9010 pure white	
Protection category (IEC/EN 60529) • With sealing kit FBZ295	IP43 IP44	
Ex classification IECEx	Ex ia IIC T4 Ga, Ta = -3570 °C	
Directive 2014/34/EU: (ATEX directive)	II 1 G Ex ia IIC T4 Ga, Ta = -3570 °C	
Standards	EN 54-5, EN 54-7	
Standards for explosion-hazard areas	IEC 60079-0, IEC 60079-11	
Ex approvals EC-type examination certificate IECEx	BVS 12 ATEX E 087 X IECEx BVS 12.0076X	
Approvals VdS DNV GL (marine)	G214047 MEDB00003UK	
System compatibility C-NET Collective	FS720 FC10 / XC10 / FC330A / FC700A	

Ex-related connection	U_{i}	28 V
data, intrinsically safe	/ _i	100 mA
	Pi	700 mW
	Li	Negligible
	C_{i}	0,2 nF
Line to external alarm	U_0	14.2 V
indicator	10	480 mA
	P_0	195 mW
	<i>L</i> 0	100 μΗ
	<i>C</i> 0	38 nF
	Only for connecting passive, external alarm indicators with negligibly low inductance and capacitance levels.	

Symbol	Meaning
C ₀	Maximum external capacitance
Ci	Maximum internal capacitance
/0	Maximum output current
/ _i	Maximum input current
Lo	Maximum external inductance
Li	Maximum internal inductance
P_0	Maximum output power
Pi	Maximum input power
<i>U</i> ₀	Maximum output voltage
Ui	Maximum input voltage

Dimensional drawings



OOH740-A9-Ex

Siemens Schweiz AG, Theilerstrasse 1a CH-6300 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 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581 ; 2014/34/EU (ATEX): EN 60079-0 / EN 60079-11

The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or https://siemens.com/bt/download

DoP No.: 0786-CPR-21369; DoC No.: CED-OOH740-A9-Ex

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