Cerberus FIT FC360 – Planning Tool

EuropeSecurity
safety through technology

Smart Infrastructure intelligently connects energy systems, buildings and industries to adapt and evolve the way we live and work.

We work together with customers and partners to create an ecosystem that intuitively responds to the needs of people and helps customers to better use resources.

It helps our customers to thrive, communities to progress and supports sustainable development.

Creating environments that care.
siemens.com/smart-infrastructure

Cerberus FIT FC360 – addressable fire control panels

1-loop panels

– 1 loop or 2 stubs
– Number of addresses: max. 126

Fire control panel (1L, Compact) FC361-ZZ
– Housing: 402x372x132 mm
– Batteries: max. 2x 12 V, 12 Ah
Order no.: S54433-C112-A1

Fire control panel (1L, Comfort) FC361-ZA
– Housing: 402x372x211 mm
– Batteries: max. 2x 12 V, 25 Ah
Order no..: S54433-C111-A1

2-loop panels

– 2 loop or 4 stubs
– Number of addresses: max. 256

Fire control panel (2L, Compact) FC362-ZZ
– Housing: 402x372x132 mm
– Batteries: max. 2x 12 V, 12 Ah
Order no.: S54433-C119-A1

Fire control panel (2L, Comfort) FC362-ZA
– Housing: 402x372x211 mm
– Batteries: max. 2x 12 V, 25 Ah
Order no.: S54433-C120-A1

Shared properties
– Total current capacity: max. 2.5 A
– 4 programmable inputs/outputs
  (DC 24 V/max. 0.1 A and 0.2 A in total)
– 3 programmable potential-free relay outputs
  (DC 60 V/max. 2.0 A)
– 2 collective sounder circuits (DC 24 V/max. 0.5 A)
– Auxiliary power output (DC 24 V/max. 0.2 A)

Options

LED indicator (32 zones) FTO3603-Z1
– Visual fire zone indication
– Up to 32 fire zones
Order no.: S54433-B118-A1

Evacuation module (NL) FTO3601-H1
– Special option for The Netherlands
– Independent cont rol of EVAC zone
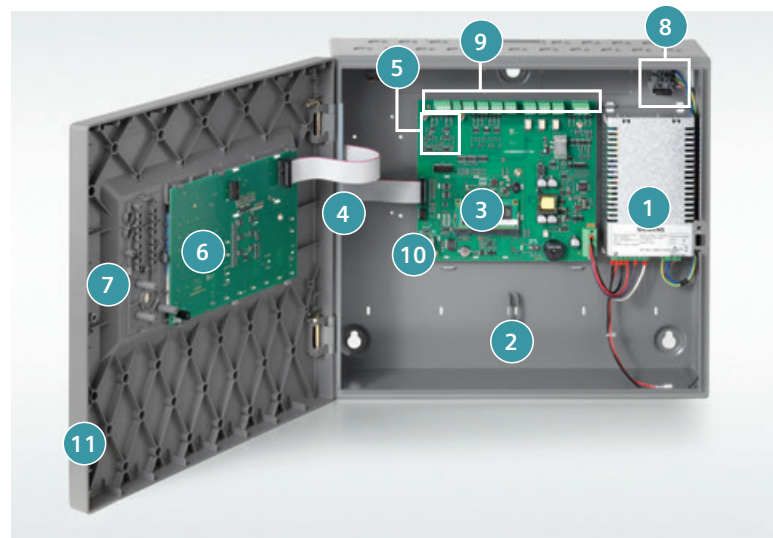– Acc. NEN 2575
Order no.: S54433-B116-A1

Key switch FCA3601-Z1
– Standard key switch to provide level 2 (user) access on panel
Order no.: S54433-N113-A1

Key switch (Nordic) FCA3603-Z1
– Special key switch (Nordic) to provide level 2 (user) access on panel
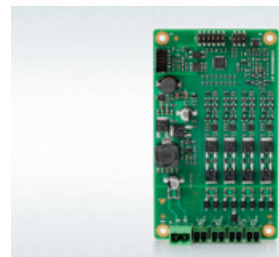Order no.: S54433-N115-A1

Control unit

Hardware components

Legend

1 Power supply
2 Space for batteries
3 Mainboard
4 Output card (4M) (optional)
5 Space for RS232/485 module (optional)
6 User interface (PMI)
7 Space for options:
 – Evacuation module (NL)
 – LED indicator (32 zones)
 – Key switch/key switch (Nordic)

8 Mains fuse
9 Main board connectors:
 – 2 collective sounder circuits
 – 24 V auxiliary outputs
 – 4 programmable inputs/outputs
 – 3 programmable relay outputs
 – Loop connector
10 Ethernet connector
11 Detachable door

Output card (4M) FCA3602-Z1
– 4 configurable monitored outputs (DC 24 V)
– Output current per output: 1.0 A
– Max. current of output card: 2.0 A
Order no.: S54433-A114-A1
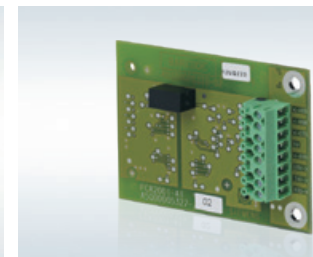
RS232 module (isolated) FCA2001-A1
– Communication module for peripheral devices with RS232 interface (e.g. event printer DL3750+)
Order no.: A5Q00005327

RS485 module (isolated) FCA2002-A1
– Communication module for peripheral devices with RS485 interface
Order no.: A5Q00009923

Note: Unit can be powered from the integral power supply or from an additional external power supply.

FC360 Panel Configurator (online)

Panel configuration in three easy steps.

The online tool is used to configure the panel on site. The panel has an integrated Web server that can be accessed with a Web browser. No additional software is needed. The TCP/IP connection to the panel is established via the Web address fc360.siemens.com.

1 Auto configuration

– Data from all connected detectors and peripheral devices are automatically configured
– Devices are automatically assigned to zones
– Instant fire protection during the construction phase

2 Modify

FC360 Panel Configurator

FC360 Panel
TCP/IP connection
Panel Configurator
fc360.siemens.com

Modify configuration online at the site with the FC360 Panel Configurator

3 Apply & done

Apply

Click Apply button

Detection and control view
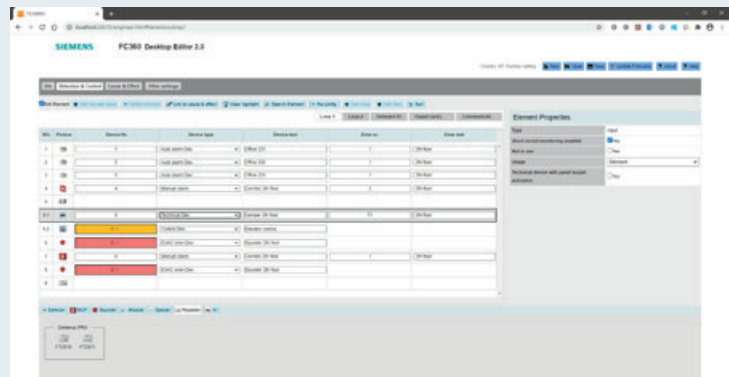
The FC360 configuration tool is simple to understand and use. The connected devices are listed in a table in their order of wiring, allowing the user to easily visualize the devices as installed.

Outputs and sounders can be assigned into one of 32 control or evacuation zones and an appropriate description text (e.g. "door release") can be added for more clarity.

Cause and effect matrix
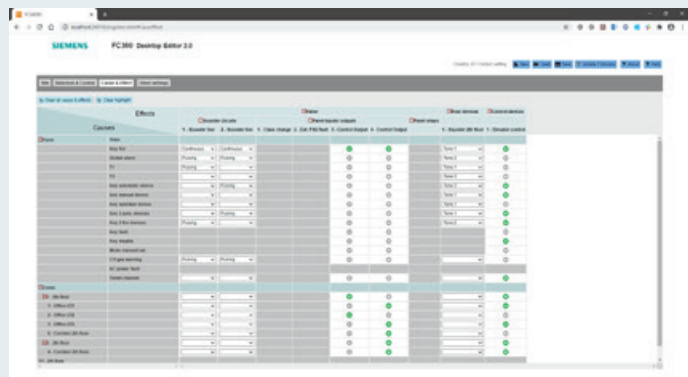
Most systems require all alarming devices and control outputs to operate with any fire. This operation is available by default. Where more complex controls are required, the FC360's unique cause-and-effect matrix makes any required changes easy and logical.

FC360 Desktop Editor (offline)

The FC360 Desktop Editor is a tool for viewing the system's configuration offline as well as making text or cause-and-effect changes.

In addition, the tool provides installers with self-learning opportunities where they can create their own "virtual" system. This quickly builds solid expertise and experience and reduces training costs and effort.

Download the FC360 Desktop Editor

Alarming highlights

In the event of a fire it is essential to alert and evacuate people as fast as possible. A wide product portfolio range offers alarm devices for acoustic and optical alarming. All devices are loop powered and constantly monitored.

Sounder

The sounder creates an acoustic alarm signal in case of an event. All devices offers a broad range of tone patterns.
The acoustic perception is outstanding because all tones are synchronized.
– Certified for acoustic alarming according EN 54-3
– 3 different sound levels are selectable (minimum / medium / maximum)
– 16 integrated tone patterns

Voice

The devices with voice messages are able to play a precise voice instruction for different events in the building. With help of a voice message, the evacuation process is faster and the building occupants receive clear instructions.
– Certified for acoustic alarming according EN 54-3.
– Languages (15 integrated, 2 customizable)
– Message categories (3 predefined): EVAC FIRE, EVAC EMERGENCY, TEST

Tone	Voice message	Voice message (optional)
	Language 1	Language 2

Languages (15 integrated, 2 customizable)
– English
– German
– French
– Italian
– Spanish
– English UK
– Dutch
– Sweden
– Norwegian
– Finish
– Danish
– Polish
– Portuguese
– Turkish
– Russian
– Custom language 1
– Custom language 2

Customer-specific voice message
1. Order the service "Conversion of voice message FDSS227" to create a customer-specific audio library

2. Order customer-specific devices (...-C) with custom audio library ID

Beacon

Addressing two senses – an optical and an acoustical signal – speeds up the alert and evacuation process. We increase the awareness of the optical signal with a high flash intensity and a very short pulse length. The device has multiple options for brightness which can be adjusted according to the room size.
– Certified for optical alarming according EN 54-23
– Additional light intensity setting (supplementary optical indication) designed for system extensions or migration.

Wall devices

Category W – wall mounting

○ White LED		● Red LED	
High:	W-3.2-10	High:	W-2.8-8.8
Mid:	W-2.4-7.5	Mid:	W-2.4-7.5
Low:	W-2-6.2	Low:	O-2-6.2

O = Open category: Wall mounted, cubic coverage as category W

Ceiling devices

Category C – ceiling mounting

○ White LED		● Red LED	
High:	O-4-15	High:	C-3-12
Mid:	C-3-12	Mid:	C-3-10
Low:	O-2.5-6.5	Low:	O-2.5-6.5

O = Open category: Ceiling mounted, cylindrical coverage as category C

Cerberus FIT FC360 – compatible C-NET devices

Fire control panels

Fire control panel FC361-ZZ
Order no.: S54433-C112-A1

Fire control panel FC361-ZA
Order no.: S54433-C111-A1

Fire control panel FC362-ZZ
Order no.: S54433-C119-A1

Fire control panel FC362-ZA
Order no.: S54433-C120-A1

Fire detectors

Detector base DB721
– Screw clamp terminals
Order no.: S54319-F11-A1

Detector base DB722
– Screwless terminals
– Integrated rubber seal
Order no.: S54319-F19-A1

Flame detector base FDFB291
Order no.: A5Q00003310

Linear smoke detector base FDLB291
Order no.: A5Q00003941

Detector base DB721
Order no.: S54319-F11-A1

Conventional line
Conventional detectors

Flame detector FDF241-9
– For inside and outside applications
– Three infrared sensors
Order no.: A5Q00003006

Linear smoke detector FDL241-9
Order no.: A5Q00002298

ASA neural fire detector OOH740
Order no.: S54320-F7-A3

Air sampling smoke detection kit FDBZ290
Order no.: S54319-S32-A1

Long-distance reflector DLR1191 (Prism)
For distances between 20 and 100 meters
Order no.: BPZ:4787710001

Zone module FDCI723

1 collective or conventional detector line

Floor repeaters and indicators

Floor repeater terminal FT2010-A1
Order no.: A5Q00014104

Floor repeater display FT2011-A1
Order no.: A5Q00017706

Shared properties FT2010 and FT2011:
– Backlit display with plain text (6 lines of 40 characters each)
– Power supply and communication (individual addressed) via C-NET, additional DC 24 V feed possible
– 207x282x79 mm (HxWxD)
– Max. 3 FT2010/FT2011 per FC361

Alarm indicator (addressable) FDCAI221
Order no.: S54370-F10-A1

Detectors

ASA neural fire detector OOH740
Two optical sensors, two heat sensors, three parameter sets
Order no.: S54320-F7-A3

ASA neural fire and CO detector OOHC740
Two optical sensors, two heat sensors, one carbon monoxide sensor, three parameter sets
Order no.: S54320-F8-A3

Multi-sensor fire detector OH360
Combined optical and thermal sensors, one parameter set
Order no.: S54310-F102-A1

Multi-sensor fire detector OH720
Combined optical and thermal sensors, two parameter sets
Order no.: S54310-F2-A1

Smoke detector OP360
One parameter set
Order no.: S54310-F101-A1

Smoke detector OP720
Two parameter sets
Order no.: S54310-F1-A1

Heat detector HI360 (max + RoR)
Two parameter sets (rate-of-rise and static)
Order no.: S54310-F104-A1

Heat detector HI720 (max + RoR)
Two parameter sets (rate-of-rise and static)
Order no.: S54310-F4-A1

Heat detector HI722 (max)
One parameter set (static)
Order no.: S54310-F3-A1

Detector base accessories

Detector base seal RS720
Order no.: S54319-F8-A1

Designation plate FDBZ291
Order no.: A5Q00002621

Detector locking device LP720
Order no.: S54319-F9-A1

Base attachment BA720
Order no.: S54319-F20-A1

Base attachment wet BA721
Order no.: S54319-F29-A1

Detector heating FDBH291
Order no.: A5Q00004439

Protection cage DBZ1194
Order no.: BPZ:4677110001

Alarm indicator FDAI92
Order no.: S54370-F3-A1

Additional frame AI330
Order no.: BPZ:3169430001

Alarm indicator FDAI91
Order no.: S54370-F9-A1

Alarm indicator FDAI93
Order no.: S54370-F5-A1

C-NET
The C-NET is a modern, multi-purpose bus system. It allows rapid, fail-safe communication between the Cerberus FIT/PRO bus elements and the fire control panel.

Characteristics:
– Uses all cable types (shielded or unshielded)
– Integrates star-shaped cable networks without modifications to cable network
– Acoustic and visual signaling on the loop
– Up to 126 bus elements on one loop
– Cable lengths up to 3.3 km
– 2-wire loop
– Integrated isolator in every loop participant

Power supply FP120
Order no.: S54400-S122-A1

Housing FDCH221
IP65
Order no.: S54312-F3-A1

Input/output modules

Input/output module FDCIO361
– 1 monitored input (not invertible)
Relay outputs:
– 1 output
– Relay output DC 30 V/2 A rated
– Can be configured as monitored, but a separate DC 24 V power supply is required
Order no.: S54312-F102-A1

Input module FDCI361
– 1 monitored input (not invertible)
Order no.: S54312-F101-A1

Input/output module FDCIO221
– 1 monitored input (invertible)
Relay outputs:
– 1 output
– Relay output DC 30 V/2 A rated
– Can be configured as monitored, but a separate DC 24 V power supply is required
Order no.: S54312-F2-A1

Input module FDCI221
– 1 monitored input (invertible)
Order no.: S54312-F1-A1

Input/output module FDCIO222
– 4 monitored inputs
Relay outputs:
– 4 potential-free working/rest contacts
Contact loading:
– AC 250 V/4 A
– DC 30 V/4 A
Order no.: A5Q00002369

Input module FDCI222
– 4 monitored inputs
Order no.: A5Q00001984

Input/output module FDCIO224
With approval on VdS extinguishing interface
– 4 monitored inputs
Relay outputs:
– 4 potential-free working/rest contacts
Contact loading:
– AC 250 V/4 A
– DC 30 V/4 A
Order no.: A5Q00002369

4 isolated control inputs
4 isolated control outputs
4 isolated control inputs

Alarm equipment for audible and visible alarming

Sounder base DBS720
Sound level: 88 dBA/1 m
Order no.: S54319-F5-A1

Base (wall mounting) FDB226-R
Order no.: S54364-B1-A1

Base (wall mounting) FDB226-W
Order no.: S54364-B2-A1

Base deep (wall mounting, IP65) FDB227-R
Order no.: S54364-B3-A1

Base deep (wall mounting, IP65) FDB227-W
Order no.: S54364-B4-A1

Base (ceiling mounting) FDB228
Order no.: S54364-B5-A1

Base deep (ceiling mounting) FDB229
Order no.: S54364-B6-A1

Manual call points and accessories

Manual call point FDM365-RP
Resettable, available in red, and can be used for flush mounting

Manual call point FDM221
Standard, available in different colors

Manual call point FDM225
Resettable, available in red, and can be used for flush mounting

Manual call point FDM226
Resettable and IP66, available in red

Manual call point FDM231-RP
Standard, available in red

Manual call point FDM224
IP44 or IP64, with direct operation, available in different colors

Manual call point FDM223
IP44 or IP64, with indirect alarm actuation, available in different colors

Manual call point with resettable plastic element FDM365-RP
Order no.: S54311-F111-A1

Manual call point with resettable plastic element FDM225-RP
Order no.: A5Q00012020

Manual call point with resettable plastic element incl. back box FDM226-RP
Order no.: A5Q00013436

Manual call point complete
Order no.: S54311-F11-A1

Sounders and beacons

Sounder FDS364-R
Housing red
Sound level: maximum only
Order no.: S54364-F101-A1

Sounder FDS364-W
Housing white
Sound level: maximum only
Order no.: S54364-F102-A1

Sounder FDS224-R
Housing red
Order no.: S54364-F1-A1

Sounder FDS224-W
Housing white
Order no.: S54364-F2-A1

Voice sounder FDS225-R
Housing red
Order no.: S54364-F3-A1

Voice sounder FDS225-W
Housing white
Order no.: S54364-F4-A1

Sounder beacon FDS366-RR
Housing red / LED red
Sound level: maximum only
W-2.4-7.5
Order no.: S54364-F105-A1

Sounder beacon FDS366-RW
Housing red / LED white
Sound level: maximum only
W-2.4-7.5
Order no.: S54364-F106-A1

Sounder beacon FDS366-WR
Housing white / LED red
Sound level: maximum only
W-2.4-7.5
Order no.: S54364-F107-A1

Sounder beacon FDS366-WW
Housing white / LED white
Sound level: maximum only
W-2.4-7.5
Order no.: S54364-F108-A1

Sounder beacon FDS226-RR
Housing red / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F5-A1

Sounder beacon FDS226-RW
Housing red / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F6-A1

Sounder beacon FDS226-WR
Housing white / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F7-A1

Sounder beacon FDS226-WW
Housing white / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F8-A1

Standard voice messages
Voice sounder beacon FDS227-RR
Housing red / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F9-A1

Voice sounder beacon FDS227-RW
Housing red / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F10-A1

Voice sounder beacon FDS227-WR
Housing white / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F11-A1

Voice sounder beacon FDS227-WW
Housing white / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F12-A1

Customized voice messages
Voice sounder beacon FDS227-RR-C
Housing red / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F9-A2

Voice sounder beacon FDS227-RW-C
Housing red / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F10-A2

Voice sounder beacon FDS227-WR-C
Housing white / LED red
O-2-6.2 / W-2.4-7.5 / W-2.8-8.8
Order no.: S54364-F11-A2

Voice sounder beacon FDS227-WW-C
Housing white / LED white
O-2-6.2 / W-2.4-7.5 / W-3.2-10
Order no.: S54364-F12-A2

Sounder beacon base FDSB226-WR
LED red
O-2-5-6.5 / C-3-10 / C-3-12
Order no.: S54364-F13-A1

Sounder beacon base FDSB226-WW
LED white
O-2-5-6.5 / C-3-12 / O-4-15
Order no.: S54364-F14-A1

Standard voice messages
Voice sounder beacon base FDSB227-WR
LED red
O-2-5-6.5 / C-3-10 / C-3-12
Order no.: S54364-F15-A1

Voice sounder beacon base FDSB227-WW
LED white
O-2-5-6.5 / C-3-12 / O-4-15
Order no.: S54364-F16-A1

Customized Voice Messages
Voice sounder beacon base FDSB227-WR-C
LED red
O-2-5-6.5 / C-3-10 / C-3-12
Order no.: S54364-F15-A2

Voice sounder beacon base FDSB227-WW-C
LED white
O-2-5-6.5 / C-3-12 / O-4-15
Order no.: S54364-F16-A2

Conversion of voice message FDSS227
Service to convert custom audio message text
Order no.: L54364-Y1-A1

Mounting example
With detector
Without detector
Detector base DB721
Fire detector
Base (ceiling mounting) FDB228
Sounder beacon base FDSB226-WR
Blanking plate FDBZ298
Order no.: S54364-B8-A1

Electronic switching units

Electronic switching unit FDME221
Order no.: A5Q00002451

Housings:
Housing red with key FDMH291-R
Order no.: A5Q00002217

More color options (yellow, green and blue) are available

Electronic switching unit with glass plate FDM225-RG
Order no.: A5Q00013434

Electronic switching unit with glass plate incl. back box FDM226-RG
Order no.: A5Q00013435

Electronic switching unit incl. key FDMK231 FDME231
Order no.: S54311-B14-A1

Electronic switching unit FDME224
Order no.: A5Q00009392

Housings with glass and key (FDM224 and FDM223):
Housing red FDMH293-R
Order no.: A5Q00004023

More color options (yellow, green, blue and orange) are available

Housing red FDMH297-R
Order no.: S54311-B7-A1

Electronic switching unit FDME223
Order no.: A5Q00003087

Accessories

Accessories:
Protective cover FDMC291
Order no.: A5Q00001644

Accessories:
Back box FDMH295-R
Order no.: A5Q00013437
Back box with holes and grommet FDMH295-S
Order no.: A5Q00013438
Protective cover FDMC295
Order no.: A5Q00013440

Accessories:
Back box FDMH295-R
Order no.: A5Q00013437
Back box with holes and grommet FDMH295-S
Order no.: A5Q00013438
Protective cover FDMC295
Order no.: A5Q00013440

Accessories:
Protective cover FDMC295
Order no.: A5Q00013440

Accessories:
Back box red FDMH231-S-R
Order no.: S54311-B12-A1
Screwed cable gland M20 x 1.5
Order no.: A5Q00004478
Back nut M20
Order no.: A5Q00004479

Accessories (for FDM224 and FDM223):
Protection seal DMZ1197-AD
Order no.: BPZ:5470680001
Protective cover DMZ1197-AC
Order no.: BPZ:5223550001
Locking plug M20 (1 hole)
Order no.: A5Q00006735

Shared characteristics
– Up to 13 different tones, incl. "evacuate" as specified in DIN 33404-3
– Different volume and sound for prealarm and main alarm
– Without additional power supply
– Integrated line separator

Legend
■ Ready-to-go Cerberus FIT devices
— C-NET

EuropeSecurity
safety through technology

Lobeco
FIRE + SECURITY
We make it work.

Cerberus FIT FC360 – application examples

In schools and nursing homes

In factories

In hotels and homes

In shops

Benefits at a glance

1. **Maximized fire safety**
   • Reliable and early detection
   • LPCB approved to EN 54-2, EN 54-4, EN 54-13
   • Fast and safe evacuation with voice sounders

2. **Easy to use**
   • Auto-configuration (plug & play)
   • License free engineering tool

3. **Cost and time efficient**
   • Training efforts reduced
   • Faster engineering with pre-configured devices and build-in engineering tool

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ASA parameter sets for diverse application areas

Faster fire detection with ASA*technology*
Heat detectors are needed in many areas due to the potential for false alarms. However, heat detection provides significantly less protection. The ASA neural fire detector OOH740 with its dual optical chamber design allows advanced smoke detection to be offered where others can only offer heat detection.

1 Two IR light sources
2 Dispersion of light rays by smoke particles
3 IR receiver
4 Patented labyrinth
5 Temperature sensors
6 CO sensor for OOHC740

Contact your local sales office for more information or application support.

Selectable parameter sets:

Fast Response
• Areas where speed of detection is the priority and where there are few false alarm sources
• EN 54-27-approved detection for air-handling ducts in conjunction with air sampling smoke detection FDBZ290

Balanced
• Provides a good balance between effective smoke detection and false alarm resistance
• Ideal for spaces where transitory false alarm sources are expected
• Application examples: standard hotel and nursing home bedrooms

Suppression
• Areas requiring smoke detection where a high number of false alarm sources may be expected, including steam, cooking, cigarette smoke, aerosols, welding, etc.
• Application examples: kitchens, workshops

Separate CO sensor
• Provides fire-independent detection of toxic carbon monoxide due to incomplete oxidation from exhaust gases, defective gas heating, cooking appliances or chemical and production-related processes
• Application examples: hotel garages, nursing homes, shared housing