



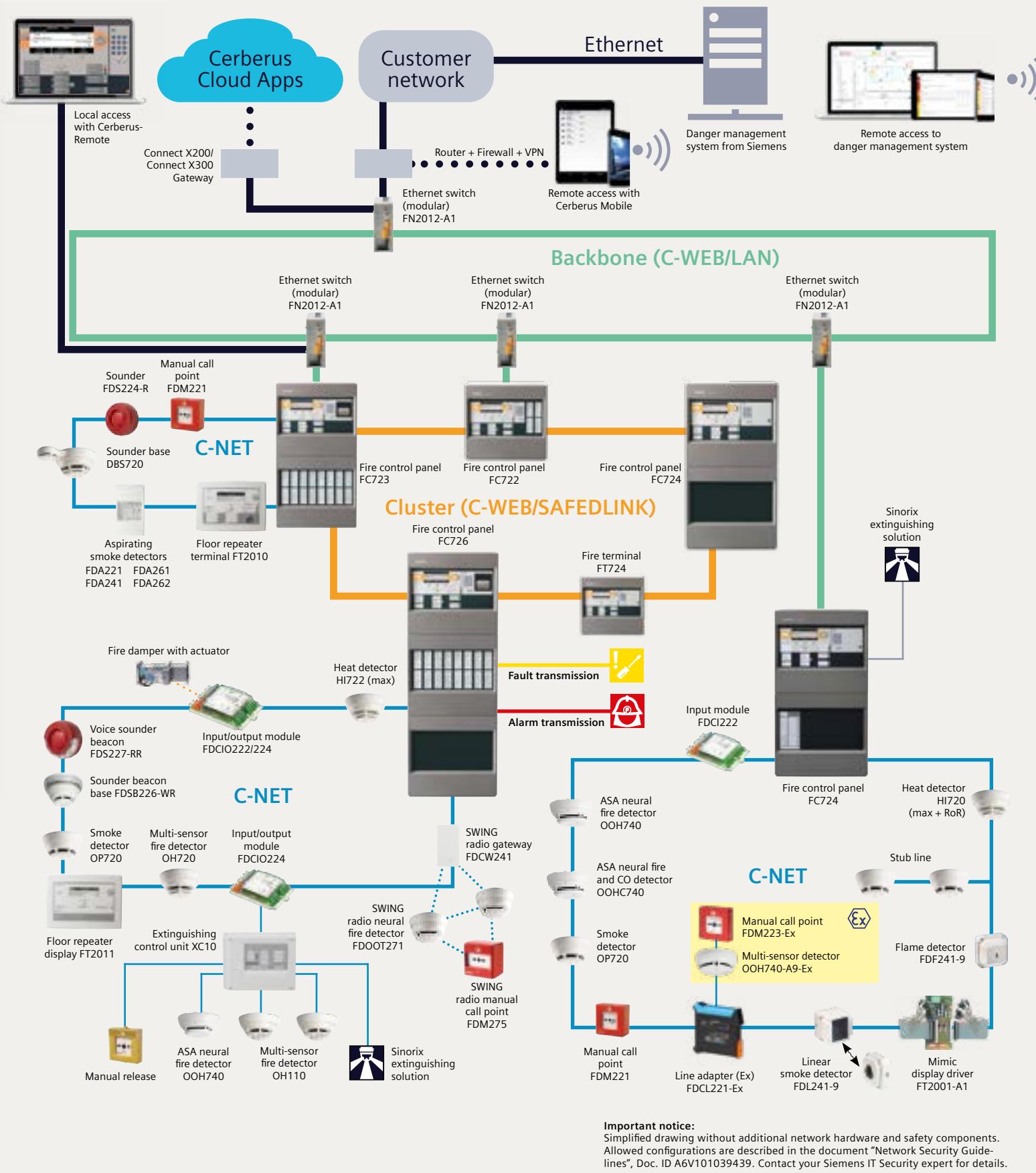
SMARTER PROTECTION MATTERS

Cerberus PRO C-Net devices

Planning Tool

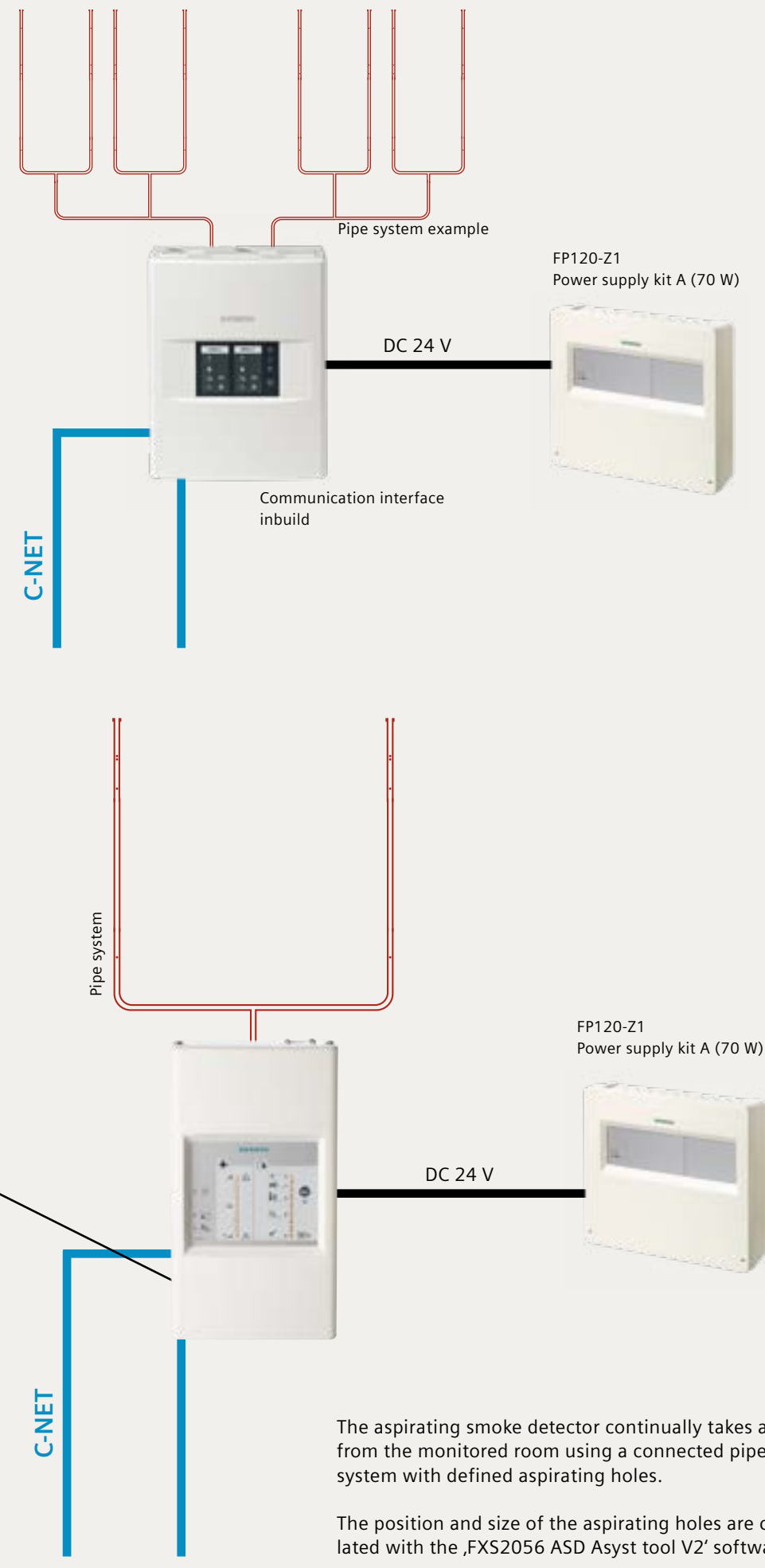
Cerberus PRO – Because smarter protection matters

IoT-enabled fire control panels, clever fire detectors, smart peripheral devices:
Our products & solutions allow you to protect your building and its occupants all year-round, connect with it anytime from anywhere via the Cerberus Cloud Apps, and sustain undisturbed places all day, every day for peace of mind.
The overview below demonstrated the most important components.



Aspirating smoke detection

FDA261/262



FDA221/FDA241



The aspirating smoke detector continually takes air from the monitored room using a connected pipe system with defined aspirating holes.

The position and size of the aspirating holes are calculated with the „FXS2056 ASD Asyst tool V2“ software.

Highlights for alarming

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. A voice message can be emitted in one or two languages with an attention tone:

Tone Voice message Voice message (optional)

Languages (15 integrated, 2 customizable)

– English	– Finnish
– German	– Danish
– French	– Polish
– Italian	– Portuguese
– Spanish	– Turkish
– English UK	– Russian
– Dutch	– Custom language 1
– Sweden	– Custom language 2
– Norwegian	

Message categories (5 predefined, 2 customizable)

– EVAC FIRE
– EVAC EMERGENCY
– ALERT
– TEST
– ALL-CLEAR
– Custom message 1
– Custom message 2

Customer-specific voice message

1. Order the service "Conversion of voice message FDS5227" to create a customer-specific audio library
2. Order customer-specific devices (L-C) with custom audio library ID

Example for Voice messages in English

- EVAC FIRE: Attention please, this is a fire alarm! Please leave the building immediately by the marked available exits.
- EVAC EMERGENCY: Attention please, this is an emergency. Please leave the building by the marked available exits.
- ALERT: Attention, an incident has been reported in the building, please await further instructions.
- TEST: This is a test message, no action is required.
- ALL-CLEAR: Attention please! All clear! The building alert has been resolved. All clear!

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

Ceiling devices

Robust or sensitive? Configuration depends on the application.

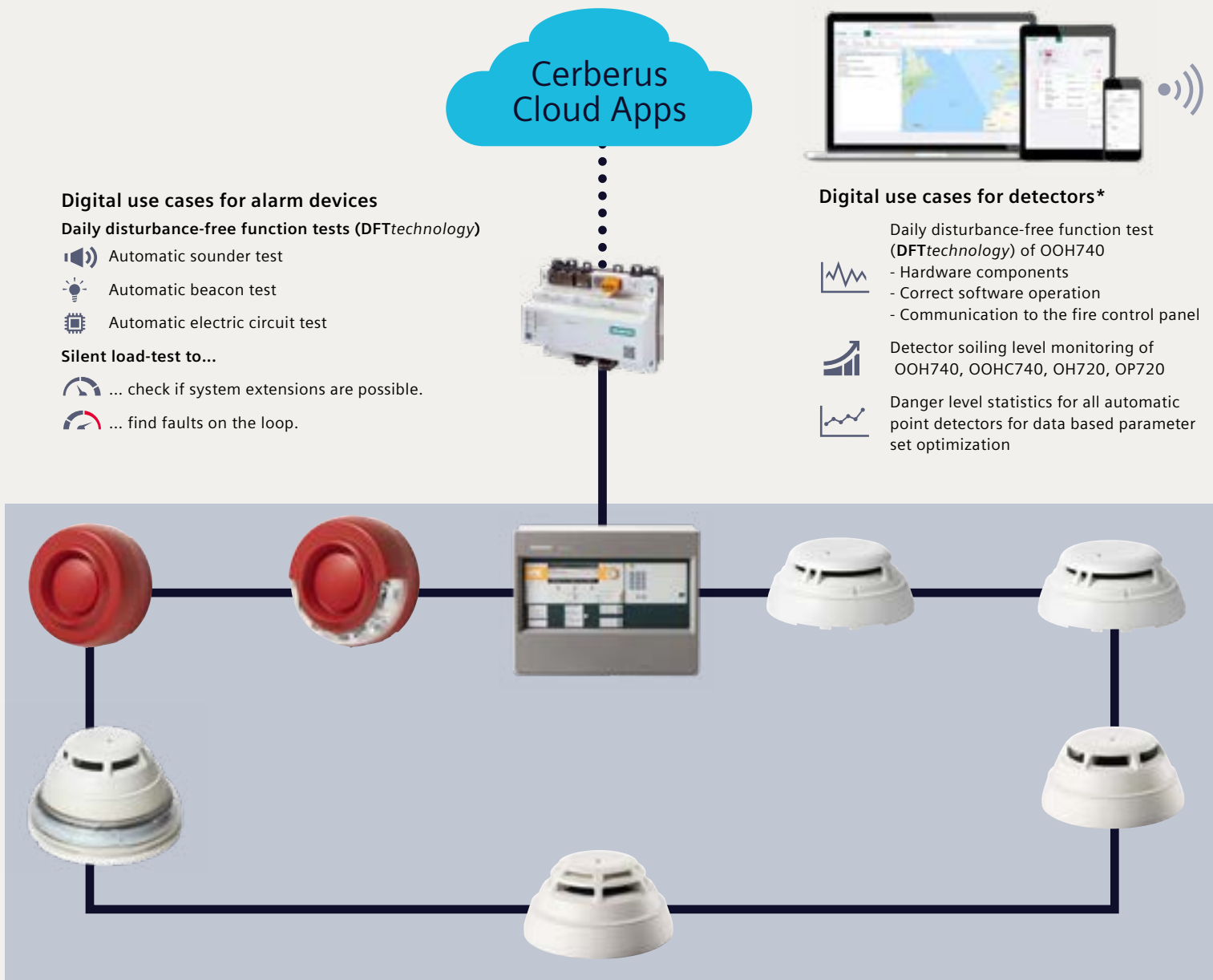
High Suppression (PS8)	Suppression (PS5)	Suppression CO (PS12)	High Compensa-tion (PS7)	Robust (PS2)	Balanced (PS4)	Balanced CO (PS10)	Fast Response (PS6)	High Sensitive Fast (PS9)	Super Sensitive (PS11)
Robust					Sensitive				
Application area For operating conditions susceptible to heavy optical deceptive phenomena. Ex-amples include dance floors in discotheques (deceptive phenomena: dry ice) or churches during special ser-vices (deceptive phenom-ena: Frankincense).	Application area Difficult environments subject to heavy deceptive phenomena. Application ex-amples include canteen kitchens or manufacturing areas with operational-related deceptive aerosols.	Application area Difficult environments subject to heavy deceptive phenomena. Application ex-amples include manufactur-ing areas with operational-related aerosols. Additional separate CO toxic gas de-tection and environmental monitoring.	Application area Applications with deposits resulting from excessive dust or dirt over a long-time period. Here, optical detectors usually reach their limit quickly, resulting in a reduced operational lifetime.	Application area Difficult environmental con-ditions. Examples are event locations or underground garages with moderate deceptive phenomena and risks to individuals.	Application area Standard applications. Rooms with moderate deceptive phenomena.	Application area Rooms where an increased CO concentration in the event of a fire is possible. Moderate deceptive phenom-ena.	Application area Rooms in which sensitive and quick detection is es-sential such as rooms with high ceilings, warehouses with flammable material (increased risk of fire) and application areas where the detectors trigger an extinguishing system.	Application area Rooms in which an espe-cially high sensitivity to smoldering and open fires is required. Examples in-clude museums with high ceilings, clean production halls or applications where adequate life protection can only be ensured by the fastest possible detection. Due to special thermal al gorithms, usage at low tem-peratures is also possible.	Application area Applications in clean envi-ronments like data centers or clean rooms, where the fastest and most sensitive detection of smoldering and open fires is required to ensure business continuity.
Application examples Multi-purpose halls, theater stages, churches, dance floors in discotheques	Application examples Canteen kitchens, produc-tion areas with operational-related decep-tive phenomena	Application examples Production areas with oper-ational-related deceptive phenomena	Application examples Paper mills, carpenter's workshops, textile produc-tion, recycling plants	Application examples Event locations, conference rooms, smoking rooms, gastronomy, industry, production, underground garages	Application examples Offices, open-plan offices, hallways, hotel rooms, out of hours use in harsh envi-ronment areas	Application examples Same as for "Balanced", but with increased sensitivity to smoldering fires creating CO gas	Application examples High-ceilinged rooms, stor-age rooms/warehouses with flammable material, IT rooms and control of extinguishing systems	Application examples Hospital rooms, museums, operating rooms, cold storage, high-ceilinged rooms, when highly sensi-tive detection is of great importance	Application examples Clean rooms, data centers, museums, hospital rooms, operating rooms, cold storage, high-ceilinged rooms, when highly sensi-tive detection is of great importance
Complies with the norm: -	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7, EN 54-29	Complies with the norm EN 54-7

Expert advice
"High Suppression" has clear advantages over traditional concepts where smoke detection is turned off completely and replaced by thermal detection during events where dry ice is used. This parameter set allows much faster detection than switching to purely thermal detection. This enhances safety at critical times where visibility is reduced and large numbers of people are in attendance. Further options include the ability to switch between parameter sets so that a more sensitive detection mode can be used when no dry ice is likely. The detector complies with the norm EN 54-5 and in some juris-dictions heat detector spacing may be applicable.

Expert advice
The high thermal influence from open fires transports the dark smoke particles that are typical for this kind of fire quickly to the ceiling. Due to the back-ward scattering and the "Fast Response" setting, the detector is sensitive. This makes the detector a perfect replacement in situations where ionization detectors would normally have been considered optimal.

Detectors and alarm devices with digital features

Remotely monitor fire systems with Cerberus Cloud Apps. Our alarm devices and detectors conduct 24/7 disturbance-free function tests (DFTtechnology) without disturbing building occupants and without compromising the uptime of the system. Additionally, detector soiling level and danger level statistics are extracted to enable smart decision making and recommend actions to optimize the system.



*check availability with your local Siemens representative

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.
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6300 Zug
Switzerland
Tel +41 58 724 24 24
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Cerberus PRO Planning Tool

C-NET devices

Cerberus PRO fire control panels

Cluster (C-WEB/SAFEDLINK)

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
– 282x207x79 mm (WxHxD)
– Max. 8 FT2010/FT2011 per FC721/FC722
– Max. 16 FT2010/FT2011 per FC724
– Max. 50 FT2010/FT2011 per FC726

Floor repeater display FT2011-A1
Order no.: ASQ00017706

Mimic display driver FT2001-A1
Order no.: ASQ00014417

Line separator FDC1221
Only required to separate
2 adjacent stubs
Order no.: ASQ00004011

Multi-line separator module
FDC1221-M
The multi-line separator has alto-
gether nine integrated line separators
with one individual addressing each
and one LED indicator per separator.
It can be connected to two separate
C-NET loops.
Order no.: S54312-F6-A1

Extinguishing panel standard XC1001-A
The XC10 combined extinguishing and
detection panel can be fully integrated into
all Cerberus PRO systems via the FDCIO222
as an independent unit. All relevant incidents
are forwarded to the connected control
panels. The extinguishing control unit XC10
and the connected extinguishing valves must
have a separate power supply. For XC10 vari-
ants please see separate XC10 Planning Tool.
Order no.: S54390-C1-A1

C-NET

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

- Characteristics:**
- Use of all cable types (shielded or unshielded)
 - Integration of star-shaped cable networks without
modifications to cable network
 - Acoustic and visual signaling on the loop
 - Up to 40 T-taps
 - Up to 252 bus elements on one loop
 - Cable lengths up to 3.3 km with up to 252 bus
elements
 - 2-wire loop
 - Power supply to all bus elements via the C-NET
(except transponder FDC1223, FDCIO223,
LaserFOCUS, extinguishing control unit XC10,
ASD FAD221, FAD241)
 - Integrated turbo isolator in every loop participant

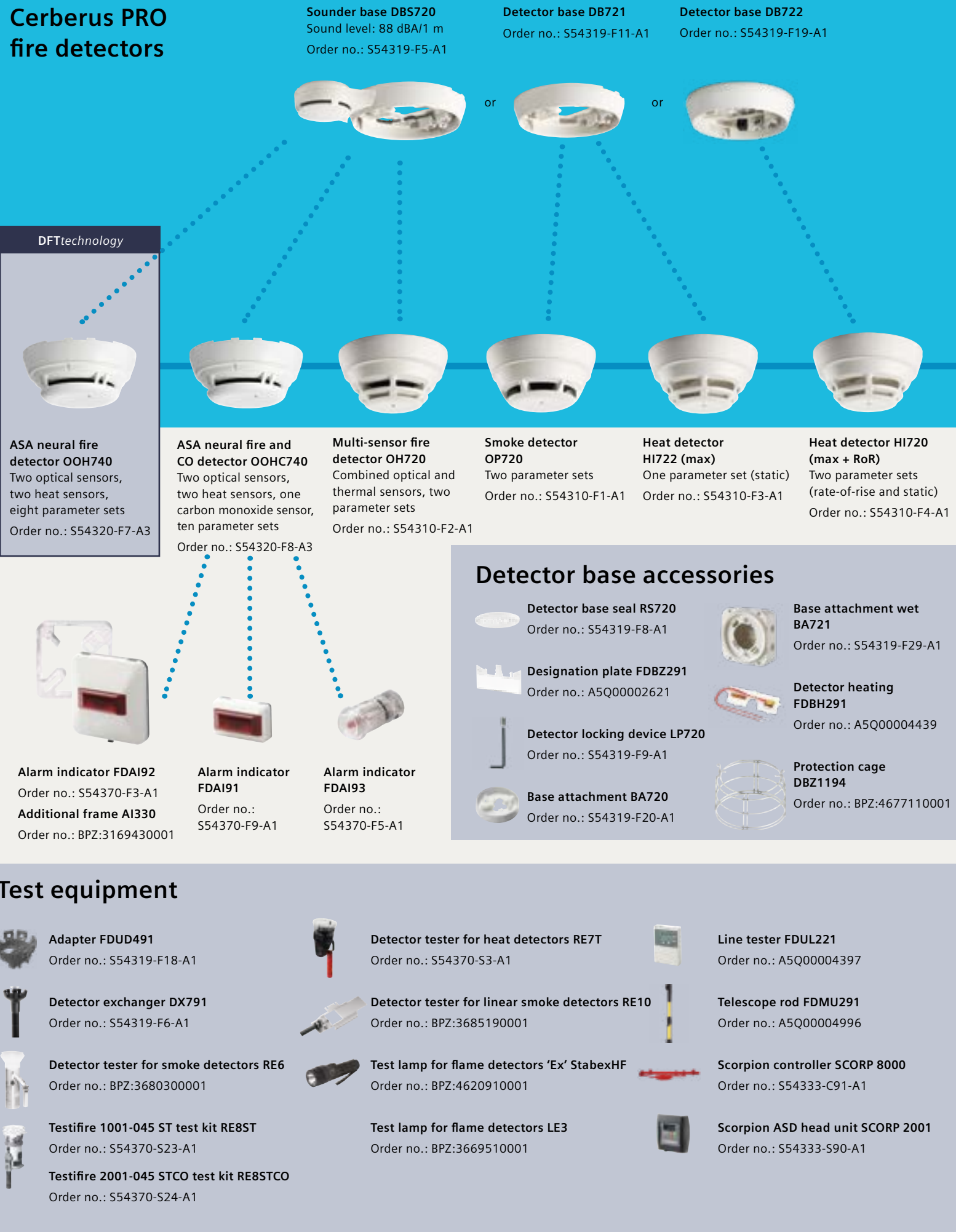
Detailed planning information

Detailed information for planning of the system are
available in the planning document, Doc. ID: 6AV10210362.

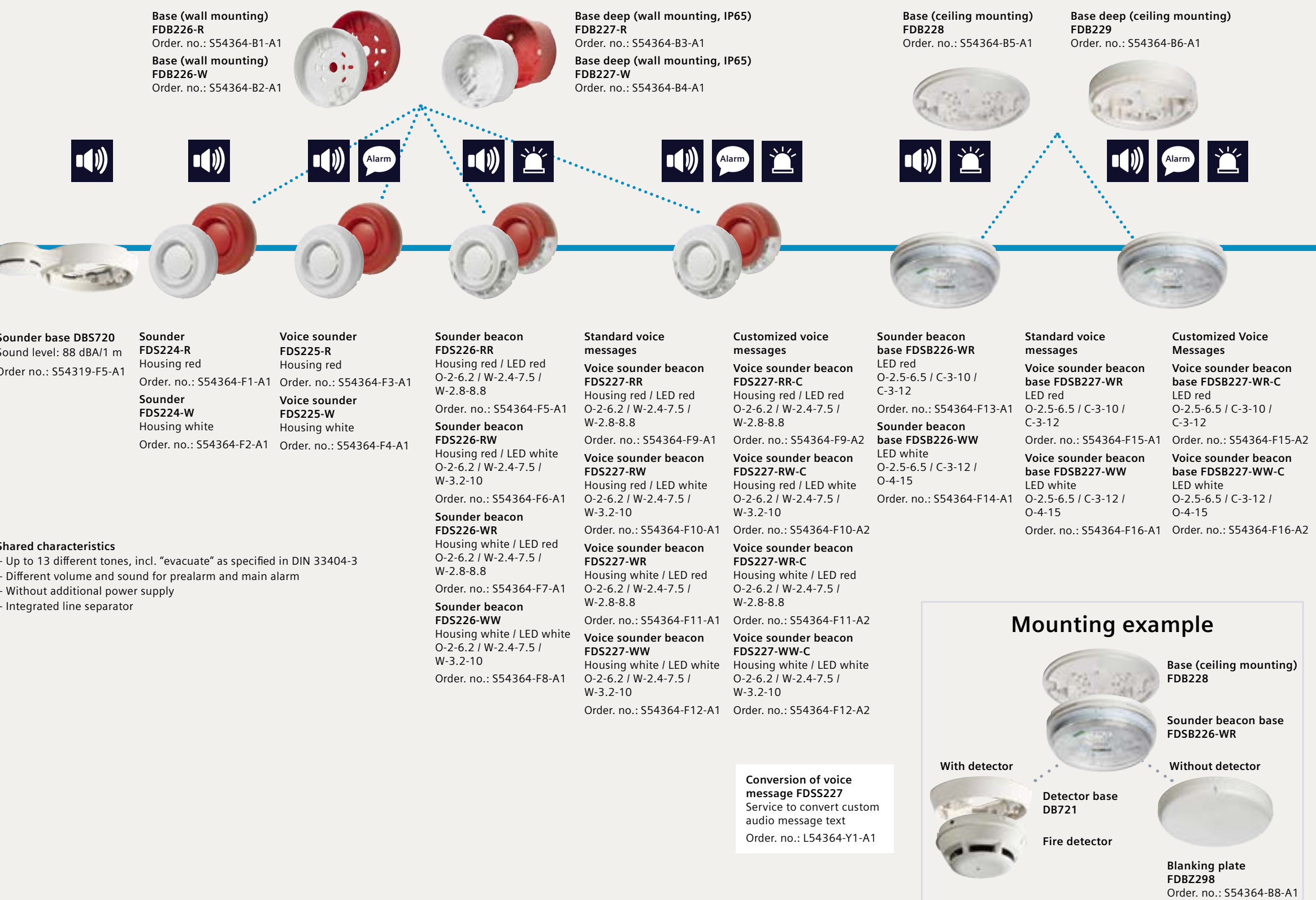
Legend for the designation of fire detectors:

- Backbone (C-WEB/LINK) Network for connecting clusters
- Cluster (C-WEB/SAFEDLINK) Network for connecting panels
- C-NET Network for connecting Cerberus PRO addressable devices
- C-NET-Ex Network for connecting Cerberus PRO addressable Ex devices

Cerberus PRO fire detectors



Alarm equipment for audible and visible alarming with DFTtechnology



Manual call points and accessories

