

Cerberus™ Nova

Automatic fire detectors

OH731, OH731-S, OOH751, OOH751-S



For use on a C-NET detector line

- Event-controlled detection behavior
- Early and reliable detection when fires occur
- Highly developed immunity to deceptive phenomena
- Supports disturbance-free function testing with DFT*technology*™ (Disturbance-Free Test) as well as scan and test of external alarm indicator
- Signal processing with ASAplus *technology*™ (OOH751, OOH751-S)
- Smoke Entry Supervision (OH731-S, OOH751-S)
- Mimic mode for compatibility with FS720 IP6...IP8 panels

Properties

Features

- Resistant to environmental and interfering influences such as dust, fibers, insects, moisture, extreme temperatures, electromagnetic interference, corrosive vapors, vibration, artificial aerosols, and atypical fire phenomena
- Shock resistant, theft protection as an accessory
- Time and process-dependent detection behavior
- Proven immunity to faults in power electronics
- Protected electronics, high-quality components
- Multi-color internal indicator with 360° visibility, alignment not necessary
- Integrated line separator
- Supports automatic detector test with DFT*technology*™
- Supports scan and test of external alarm indicators
- 'One-man' testing, commissioning, diagnostics, and maintenance
- Exchange of the detector without resetting the parameters
- Exchange of the detector without a ladder at heights up to 8 m
- Seamless modernization thanks to base adapter FDB2901 as accessory, and thanks to auto-programming
- Mimic mode for compatibility with legacy FS720 panels
- Freely configurable modes of detection: combined optical-thermal mode or optical-only mode or thermal-only mode
- Selectable detection behavior thanks to parameter sets
- Opto-electronic measuring chamber: Obstructs disruptive extraneous light but can be relied upon to detect both light and dark smoke particles

Ecological benefits

- Use of secondary plastic
- Efficient use of energy
- Condition-based longevity
- Environmentally friendly processing
- Environmentally friendly detector-testing without gas
- Easily separable electronic parts from synthetic materials

Functions

Multi-sensor fire detector OH731, OH731-S

The detectors have a sophisticated opto-electronic measuring chamber which contains one optical sensor and two thermal sensors. The optical sensor works with infra-red light at an average scattering angle of 90°.

Multi-criteria fire detector OOH751, OOH751-S

The detectors with ASAPlus signal processing have a sophisticated opto-electronic measuring chamber which contains four optical sensors and two thermal sensors.

The optical sensors work as follows, at an average scattering angle:

- Infra-red forward scatterer, 60°
- Blue forward scatterer, 45°
- Infra-red backward scatterer, 120°
- Infra-red light, 90°

Smoke Entry Supervision

Smoke Entry Supervision is a dual-layer safety functionality built into the OH731-S and OOH751-S detectors. It ensures that smoke can reliably reach the sensing chamber by combining the following features:

- Cover detection continuously checks whether the detector is not covered and provides live notification to the fire control panel and/or cloud if a covering object is detected.
- Grid supervision continuously monitors the insect grid and notifies a user via fire control panel and/or cloud before the contamination level prevents smoke from reliably reaching the detection chamber.

Use

The OH731 and OH731-S detectors are designed for environments with low to moderate levels of deceptive phenomena.

The OOH751 and OOH751-S detectors are developed for detection in all environments, including complex and demanding conditions with high levels of deceptive phenomena or requiring quick response.

The following table contains examples of environments for selection of the fire detector and the parameter set.

Environment	Type Property	Parameter set
Normal office, room without special deceptive phenomena	OH731/-S No special requirements	Standard
Potential deceptive phenomena such as water boilers	OOH751/-S Steam as a deceptive phenomenon	Balanced Suppression
Kitchen	OOH751/-S Large amounts of steam as a deceptive phenomenon	Suppression BS
Hospital rooms, museum	OOH751/-S Quick response, no deceptive phenomena	Sensitive
Clean rooms	OOH751/-S Quick and very sensitive response	Super Sensitive Ultra Sensitive
Ventilation systems	OOH751/-S Quick and very sensitive response	Sensitive Super Sensitive

Type Overview

Type	Designation	Order number
OH731	Multi-sensor fire detector	S54315-F42-A1
OH731-S	Multi-sensor fire detector (SES)	S54315-F43-A1
OOH751	Multi-criteria fire detector	S54315-F50-A1
OOH751-S	Multi-criteria fire detector (SES)	S54315-F51-A1

Product documentation

Document ID	Title
A6V10229261	List of compatibility (for 'Cerberus™ PRO' product line)
A6V16025869	Technical manual Automatic fire detectors OH731, OOH751
A6V16172651	Technical manual Modernizing Cerberus™ PRO fire detection installations

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

www.siemens.com/bt/download

Notes

Disposal



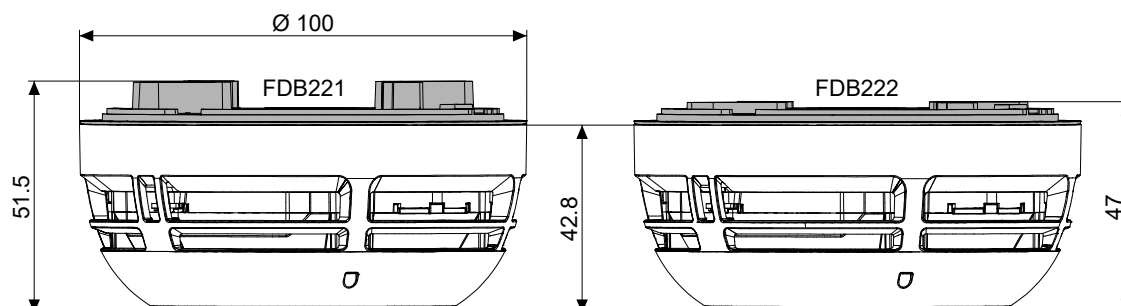
This symbol or any other national label indicates that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national regulations.

For additional details, refer to [to Siemens information on disposal](#).

Technical data

	OH731, OH731-S, OOH751, OOH751-S
Operating voltage	DC 12...33 V
Operating current at DC 32 V	OH731, OH731-S: 110 μ A OOH751, OOH751-S: 115 μ A
Operating current at DC 12 V	OH731, OH731-S: 250 μ A OOH751, OOH751-S: 260 μ A
Communication	C-NET
System compatibility	FS720, see 'List of compatibility'
Operating temperature	OH731, OH731-S: -10...+60 °C OOH751, OOH751-S: -35...+70 °C
Storage temperature	-35...+75 °C
Air humidity (short-term condensation permitted)	\leq 95 % rel.
Color	RAL 9010 pure white
Protection category (IEC 60529) detector with detector base FDB221/-AA, FDB222	IP43
Protection category with accessories FDB293, FDB295, FDBZ2901	IP44
Electromagnetic compatibility	100 kHz...6 GHz: 50 V/m
Permissible wind speed	5 m/s
Standards	EN 54-5, EN 54-7, EN 54-17, EN 54-29
Approvals • VdS	OH731, OH731-S: G226019 OOH751, OOH751-S: G226013

Dimensional drawing



Issued by
Siemens Switzerland Ltd
Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
CH-6300 Zug
+41 58 724 2424
www.siemens.com/buildingtechnologies

© Siemens 2026
Technical specifications and availability subject to change without notice.

Document ID A6V14165313_en--_a
Edition 2026-03-11