



OH320A

Synova™

Smoke detector, analogue/addressable multi-sensor



For the auto-addressable detector bus SynoLOOP

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- **Patented technology: 10x more resistant to dust and dirt than average**
 - **For special need: The detector sensitivity can be easily increased with the SW-tool or control panel**
 - **Immune to electromagnetic interference from mobile telephones, fluorescent lights and most other sources**
 - **Auto-addressing eliminates the setting of dip switches, punch cards, etc. For a safe and easy start up**
 - **Built in isolator: in each SynoLOOP auto-addressable element**
 - **Special designed algorithm for optimum combination of optical and thermal characteristic**
 - **Siemens special: Each detector housing can be colored**
 - **Automatic localization of interruptions and short circuits**

Features

The smoke detector OH320A is an extremely reliable detector in the Synova 300 product range. It incorporates a completely new patented optical chamber and the latest electronic systems, which opens up new dimensions with regard to safety and function.

● Product features

- The OH320A combines optical and thermal fire detection functions in one detector. The functions are separately operated which increase the sensitivity of the detectors enormously. There is not just a simple AND logic but instead a specially- calculated algorithm which offers the today's advantages of optical and thermal fire detection.
- The OH320A has a completely new and patented optical system. The innovative design provides a high resistance to dirt. The immunity from electromagnetic interference is at least five times better than the present standards.
- The OH320A detector is auto addressed the first time the control panel is switched on. It allows individual identification in case of alarm.
- A loop system ensures optimum security - should a short circuit occur, a built-in isolator localizes the defective part on the detector bus and isolates it between two devices, therefore saving time investigating the entire system.

● Application

- The OH320A is an extremely reliable detector. It is the right detector for anywhere where early detection of a fire is important (e.g. in timbered and half-timbered houses, museums, galleries, etc.). It is also suitable where high reliability is needed (e.g. in hotel rooms, bars, etc.).

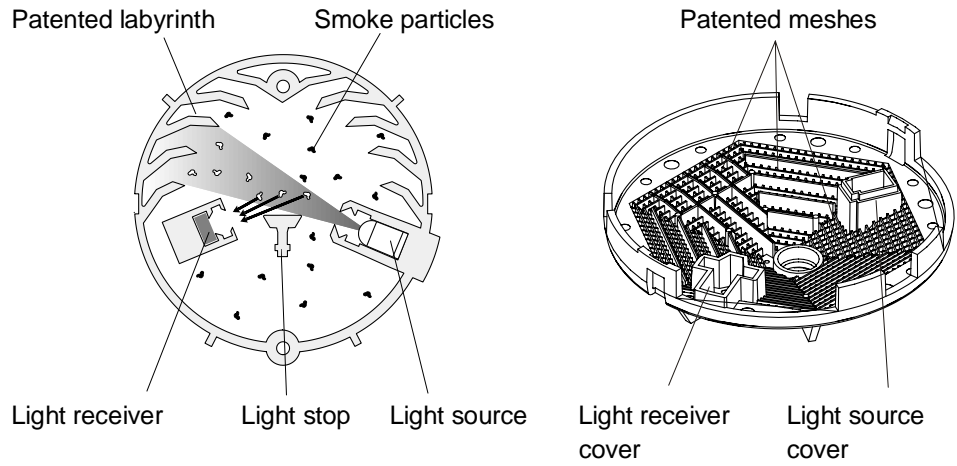
Design

- SO320 detector base – mounted whilst running cables – contains only the screw less click-in connector
- Click concept:
 - Plug-in connector for wiring (line connection)
 - Plug-in mounting for detector
- Up to two external alarm indicators type AI300/AI340 can be connected to each detector

Options

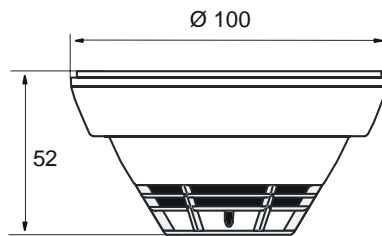
- CDM320 commissioning module: plug-in to check the pre-wired detector lines and base
- SOA322 base attachment for surface mounting
- Anti-theft device: TP320 detector cover locking device

Functional features of patented optical chamber

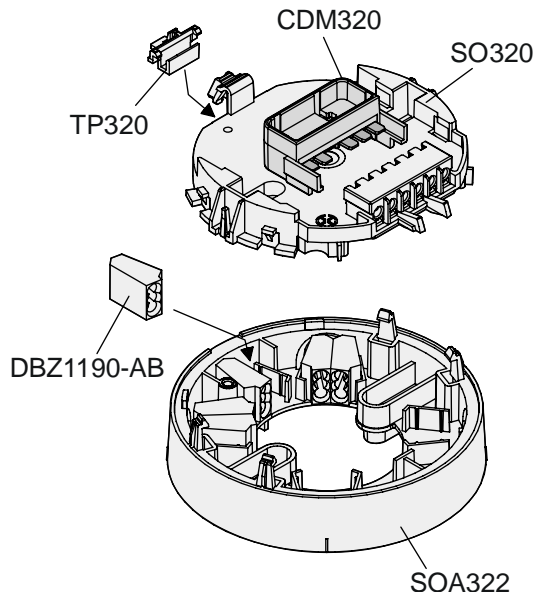


Dimensions

OH320A with SO320




Accessories



Technical data

Operating voltage	16... 28 VDC
Operating current (quiescent)	max. 200 µA
Response sensitivity	~3.7 %/m (high sensitivity ~2.6 %/m)
Operating temperature	-10... +55 °C
Storage temperature	-20... +65 °C
Humidity (no condensation)	≤95 % rel.
Protection category	IP44
Color	white, ~RAL 9010
Standards	EN54-7, EN54-17
Approvals	
– VdS	G298003
– LPCB	531e/02
System compatibility	Compatible with all SynoLOOP compatible panels. A list of compatible equipment is available from your local sales organization.
QS Standard	Industry-specific, certified quality assurance system in accordance with EN ISO 9001:2000.

05  0786	OH320A	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001925
OH320A - Point type smoke detector for use in fire detection and fire alarm systems installed in buildings.		
305/2011/EU (CPR): EN 54-7 / EN 54-17 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2011/65/EU (RoHS): EN 50581		
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 http://siemens.com/bt/download		
DoP No.: 0786-CPR-20163; DoC No.: CED-OH320A		

Details for ordering

	Type	Part no.	Designation	Weight
Detector	OH320A	BPZ:5081750001	Smoke detector	0.060 kg
	SO320	BPZ:5085990001	Base	0.020 kg
Accessories	SOA322	BPZ:5358340001	Base attachment	0.020 kg
	DBZ1190-AB	BPZ:4942340001	Connecting terminal 1... 2.5 mm ²	0.001 kg
	CDM320	BPZ:5162350001	Commissioning unit	0.010 kg
	TP320	BPZ:5093100001	Detector cover locking device	0.005 kg
	FDAI92	S54370-F3-A1	Alarm indicator for wall mounting	0.020 kg
	FDAI91	S54370-F9-A1	Alarm indicator for door frame	0.020 kg
	AI330	BPZ:3169430001	Additional frame	0.020 kg

Issued by
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