SIEMENS



OP320A Synova™

Optical smoke detector

CE

For the auto-addressable detector bus SynoLOOP

- 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
- Click concept: Plug-in connections for detector installation and line connection
- Siemens special: Each detector housing can be colored
- Automatic localization of interruptions and short circuits

The optical smoke detector OP320A has an excellent all-round performance. It has a completely new and patented optical chamber with the latest electronics which opens up new dimensions in safety and functionality.

Product features

The OP320A has a completely new and patented optical system:

- An excellent signal / noise ratio is achieved by precise beam guidance.
- The asymmetrical, highly polished labyrinth enables a level of light absorption greater than ever before.
- Due to the design of the futuristic looking grid, the optical chamber has a very good resistance against both dirt and dust build-up, ensuring the receiver is not affected by those areas.
- The immunity against electromagnetic interference is at least five times better than the present standards.
- The OP320A 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 Optical detector OP320A is an excellent all-round detector. It is particularly suitable where there are normal environmental conditions.

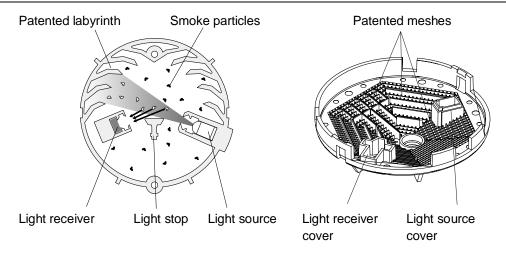
Design

- 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 Al300/Al340 can be connected to each detector

Options

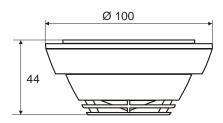
- CDM320 commissioning module: plug-in to check the pre-wired detector lines and base
- SOA322 base attachment for surface mounting
- Anti-theft device: TP320 detector cover locking device

Functional features of patented optical chamber

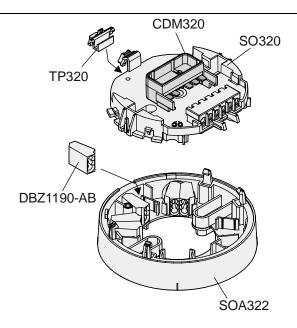


Dimensions

OP320A with SO320



Accessories



Operating voltage	DC 16 28 V
Operating current (quiescent)	max. 200 μA
Response sensitivity	~2.5 %/m (high sensitivity ~1.8 %/m)
Operating temperature	-10 +55 °C
Storage temperature	-20 +65 °C
Humidity (no condensation)	≤95 % rel.
Protection category	IP44
Color	white, ~RAL 9010
Standards	EN 54-7, EN 54-17
Approvals	
- VdS	G298004
- LPCB	531e/03
System compatibility	Compatible with all SynoLOOP compatible panels.
	A list of compatible equipment is available from your
	local sales office.
QS Standard	Industry-specific, certified quality assurance system in
	accordance with EN ISO 9001:2000.

05 ((0786	OP320A	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001924
OP320A - Point type smoke detect	or incl. short circuit-isolator for use in fire detection ar	nd 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
	ty can be seen in the Declaration of Performance (Do e Customer Support center: Tel. +49 89 9221-8000 o	
	DoP No.: 0786-CPR-20164; DoC No.: CED-OP3	20A

Details for ordering

	Туре	Part no.	Designation	Weight
Detector	OP320A	BPZ:5081620001	Optical smoke detector	0.060 kg
	SO320	BPZ:5085990001	Base for Synova 300 series detectors	0.020 kg
Accessories	SOA322	BPZ:5358340001	Base adapter for surface mounting	0.020 kg
	DBZ1190AB	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	0.050 kg
	FDAI91	S54370-F9-A1	Alarm indicator for door frame	0.020 kg
	Al330	BPZ:3169430001	Additional frame	0.020 kg

Issued by
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