



OP320C

Optical smoke detector

For conventional detector line SynoLINE300

AlgoRex
Synova™



-
- **Patented technology: 10x more resistant to dust and dirt than average**
 - **Unique product: 3 patents on the optical chamber**
 - **Transzorb: Above average lightning protection**
 - **Immune to electromagnetic interference from mobile telephones, fluorescent lights and most other sources**
 - **Exceeds national and international standards and passes the toughest internal tests**
 - **Click concept: Plug-in connections for detector installation and line connection**
 - **Siemens special: Each detector housing can be colored**
 - **Uncompromising use of environmentally-compatible materials**

Features

The Optical detector OP320C has an excellent good all-round performance within the Synova 300 range. It has a completely new optical chamber and the latest electronics which opens up new dimensions in safety and functionality.

- **New optical system**

- The OP320C has a completely new 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. Dust and dirt in the optical chamber are hardly illuminated and therefore largely ignored. The design of the futuristic-looking grid is such that it is almost impossible for the receiver to even see the areas most likely to be contaminated. The immunity from electromagnetic interference is at least 5x better than the present standards.

- **Application**

- The Optical detector OP320C is an excellent all-round detector. It is particularly suitable anywhere where there are normal environmental conditions.

- **The Synova 300 range offers the following**

- Products for every application
- Maximum flexibility, all types of detector mounted on the same type of base
- Fast, easy installation due to simple click concept

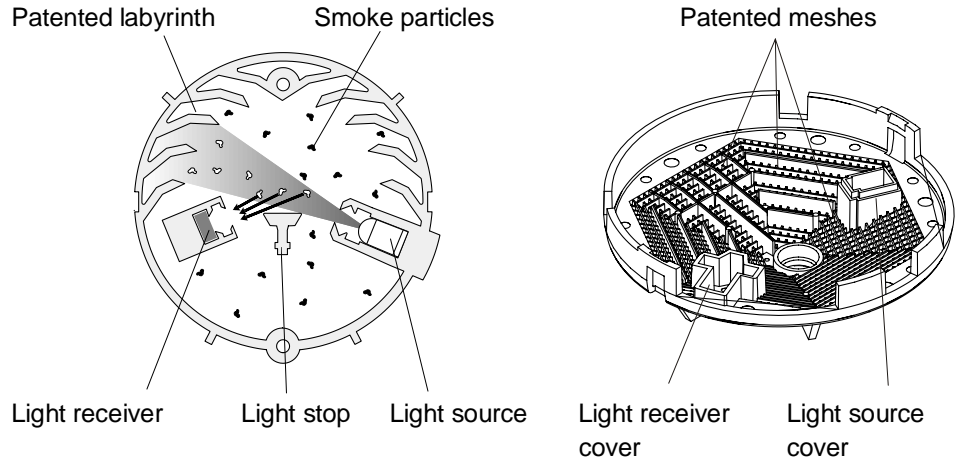
Design

- 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 response indicators type AI320/AI322 can be connected to each detector

Options

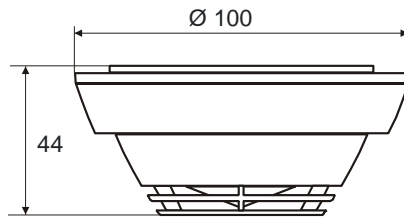
- CDM320 commissioning module: plug-in to check the pre-wired detector lines and base
- SOA322 base attachment for surface mounting
- Anti-theft device: TP320 detector cover locking device

Functional features of patented optical chamber

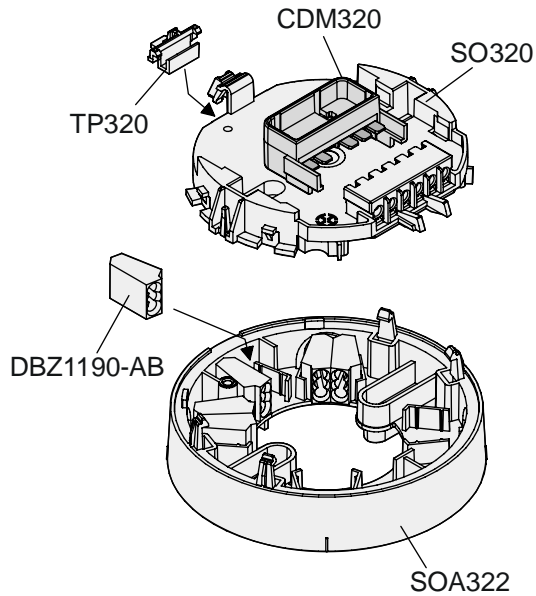


Dimensions

OP320C with SO320




Accessories



Technical data

Operating voltage	DC 16... 28 V
Operating current no smoke	max. 100 µA
with smoke	max. 170 µA
Current consumption in alarm status	40 mA
Response sensitivity	2.5 %/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
Approvals	
- VdS	G298039
- LPCB	531c/04
System compatibility	Compatible with all fire detection panels which support the SynoLINE300 specifications. A list of compatible equipment is available from your local sales organization.
QS Standards	Industry-specific, certified quality assurance system in accordance with EN ISO 9001:2000.

05  0786	OP320C	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001704
OP320C - Point type smoke detector for use in fire detection and fire alarm systems installed in buildings.		
305/2011/EU (CPR): EN 54-7 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3		
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-20165; DoC No.: CED-OP320C		

Details for ordering

	Type	Part no.	Designation	Weight
Detector	OP320C	BPZ:5081460001	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
	DBZ1190-AB	BPZ:4942340001	Connecting terminal	0.001 kg
	CDM320	BPZ:5162350001	Commissioning unit	0.010 kg
	TP320	BPZ:5093100001	Detector cover locking device	0.005 kg
	AI91C	S54370-F7-A1	Alarm indicator for frame mounting	0.030 kg
	AI92C	S54370-F8-A1	Alarm indicator for surface mounting	0.050 kg
	AI330	BPZ:3169430001	Additional frame	0.020 kg

Issued by
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