



CE

OP320C

Synova[®]

Optical smoke detector

for conventional detector line SynoLINE300

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- **Patented technology: 10x more resistant to dust and dirt than average**
 - **Unique product: 3 patents on the optical chamber**
 - **Transzorbs: 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 coloured**
 - **Uncompromising use of environmentally-compatible materials**

Features

The Optical detector OP320C has an excellent good all-round performance within the SynoDEC300 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 SynoDEC300 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

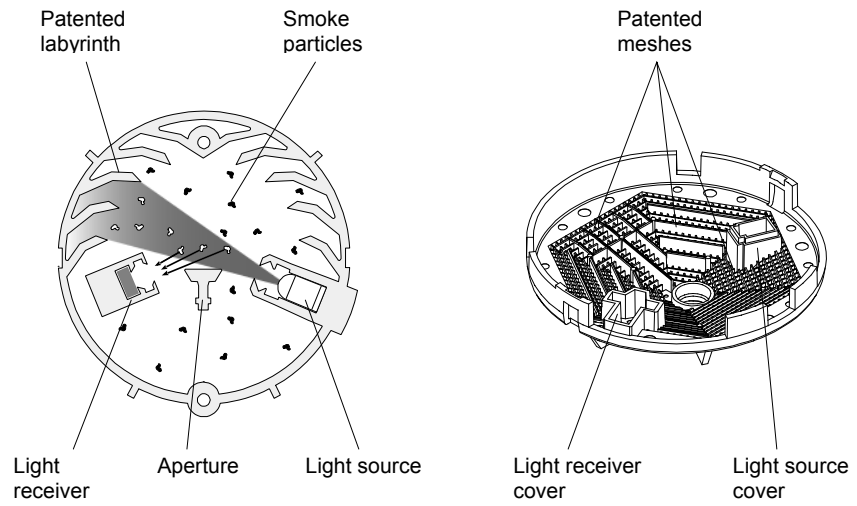
Installation

- SO320 detector base – mounted whilst running cables – contains only the screwless 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

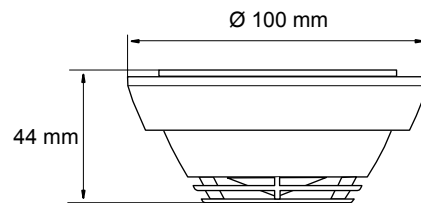
- CDM320 commissioning module: plug-in to check the pre-wired detector lines and base
- SOA322 base attachment for surface mounting
- Anti-theft device: TP320 detector cover locking device

Functional features of patented optical chamber

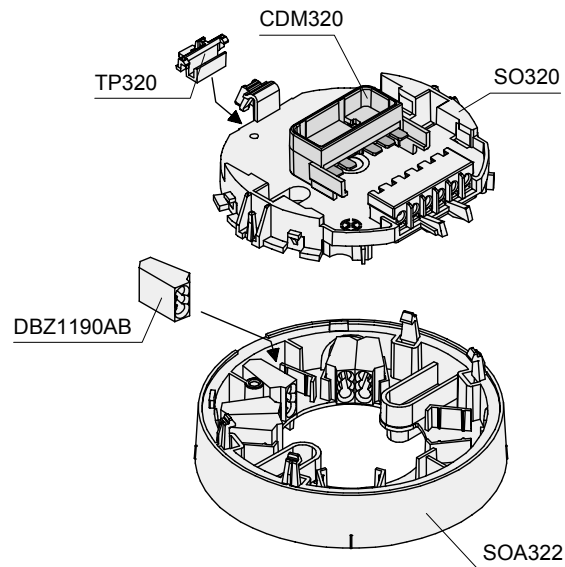


Dimensions

OP320C with SO320



Accessories



Technical data

Supply voltage	16 ... 28VDC
Current consumption	<100µA
Current consumption in alarm status	40mA
Response sensitivity	2.5%/m
Operating temperature	-10 ... +55°C
Air humidity	<95% r.h.
Type of housing protection	IP44
Colour	white (≈ RAL9010)
Standards	EN54-7/9
Approvals	ANPI (BFS/REDI/089); BOSEC (TCC 2-K 138) CNBOP (288/98); LPCB (126r/03); PAVUS (C-199-138) TUSB (468/98); VdS (G 298039)
System compatibility	Compatible with all fire detection panels which support the SynoLINE300 specification, e.g. FC330C. A list of compatible equipment is available from your local sales organisation.
QA standard	Industry-specific, certified quality assurance system in accordance with EN ISO 9001:2000.

Details for ordering

	Type	Part no.	Designation	Weight
Detector	OP320C	508146	Optical smoke detector	0.060kg
	SO320	508599	Base for SynoDEC300 detectors	0.020kg
Accessories	SOA322	535834	Base adapter for surface mounting	0.020kg
	DBZ1190AB	494234	Connecting terminal	0.001kg
	CDM320	516235	Commissioning unit	0.010kg
	TP320	509310	Detector cover locking device	0.005kg
	AI320	516303	Response indicator for frame mounting	0.030kg
	AI322	516316	Response indicator for surface mounting	0.030kg
	AI330	316943	Additional frame	0.020kg

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