OH320A
Smoke detector, analogue/addressable multi-sensor
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
- 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

CDM320
SO320
TP320
DBZ1190-AB
SOA322
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.

<table>
<thead>
<tr>
<th>Details for ordering</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Detector</th>
<th>Type</th>
<th>Part no.</th>
<th>Designation</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OH320A</td>
<td>BPZ:5081750001</td>
<td>Smoke detector</td>
<td>0.060 kg</td>
</tr>
<tr>
<td></td>
<td>SO320</td>
<td>BPZ:5085990001</td>
<td>Base</td>
<td>0.020 kg</td>
</tr>
<tr>
<td>Accessories</td>
<td>SOA322</td>
<td>BPZ:5358340001</td>
<td>Base attachment</td>
<td>0.020 kg</td>
</tr>
<tr>
<td></td>
<td>DBZ1190-AB</td>
<td>BPZ:4942340001</td>
<td>Connecting terminal 1… 2.5 mm²</td>
<td>0.001 kg</td>
</tr>
<tr>
<td></td>
<td>CDM320</td>
<td>BPZ:5162350001</td>
<td>Commissioning unit</td>
<td>0.010 kg</td>
</tr>
<tr>
<td></td>
<td>TP320</td>
<td>BPZ:5093100001</td>
<td>Detector cover locking device</td>
<td>0.005 kg</td>
</tr>
<tr>
<td></td>
<td>FDAI92</td>
<td>S54370-F3-A1</td>
<td>Alarm indicator for wall mounting</td>
<td>0.020 kg</td>
</tr>
<tr>
<td></td>
<td>FDAI91</td>
<td>S54370-F9-A1</td>
<td>Alarm indicator for door frame</td>
<td>0.020 kg</td>
</tr>
<tr>
<td></td>
<td>AI330</td>
<td>BPZ:3169430001</td>
<td>Additional frame</td>
<td>0.020 kg</td>
</tr>
</tbody>
</table>