



DT1101A / DT1102A / DO110xA

AlgoRex
Synova™

Automatic fire detectors



collective/SynoLINE600

-
- **High degree of reliability and stability**
 - **Compatible with all control units with collective/SynoLINE600 detector evaluation**
 - **High resistance to**
 - electromagnetic interference
 - humidity and corrosion
 - **Modern design**
 - **Blends well with every room decor**
 - **Environmentally safe material**
 - halogen-free plastic material identifiable through embossed code
 - easy to uninstall and disassemble
 - **Comprehensive final examination and quality control**

Smoke detectors DO1101A / DO1103A / DO1104A, collective wide spectrum



- Uniform response behavior for different types of fire
- New, high performance optoelectronic sensor system
- High resistance to soiling and temperature fluctuation

- **Function**

- Penetrating smoke scatters the light of an infrared beam in the detector. If the light scatter exceeds a certain value, the detector transmits a danger signal to the control unit.
- Built-in alarm indicator provides on-site signaling of alarm.

- **Application**

- **DO1101A:** for the early warning of smoke-forming flaming fires and smoldering fires.
- **DO1103A:** with considerably higher response sensitivity for use in air sampling smoke detection systems.
- **DO1104A:** with higher response sensitivity for the early warning of smoke-forming flaming fires and smoldering fires. For applications in hospital rooms, archives, museums, etc.

Heat detectors DT1101A / DT1102A



- Precise maximum temperature alarm activation with quality thermo sensor
- Response behavior immune to deceptive phenomena with rapid and slow increases in temperature
- Intelligently designed differential characteristics
- DT1101A: Heat detector with wide application range (up to +50 °C)
- DT1102A: Heat detector for high ambient temperatures (up to +70 °C)

- **Function**

- The detectors measure the ambient temperature with one NTC thermistor and the detector housing temperature with another NTC thermistor. In this way the detectors can rapidly and differentially evaluate an increase in temperature independent of the starting temperature. Upon exceeding the specified threshold value or upon exceeding the corresponding maximum temperature, the detectors transmit a danger signal to the control unit.
- Built-in alarm indicator provides on-site signaling of alarm.

- **Application**

- **DT1101A:** for the monitoring of rooms and installations where in the event of fire, a rapid increase in temperature can be expected, or other types of detector cannot be used due to operational reasons.
- **DT1102A:** for the monitoring of rooms and installations in which high ambient temperatures can be expected (up to + 70 °C).

Design

- Mounting with detector base DB1101A.
- Range of base accessories for installation even in critical locations.
- Connection to the control unit via a two-wire line.
- Vibration-proof mounting of detector in the base.
- Anti-theft device can be built in if required.
- Two external alarm indicators can be connected.

Maintenance

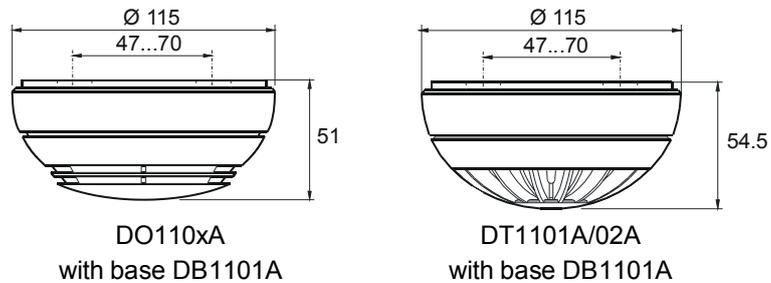
DO1101A / DO1104A / DT1101A / DT1102A

- Detectors can be inserted and removed from their bases with a detector exchanger up to a height of 7 m.

DO110xA

- By means of a periodic factory overhaul (cleaning and re-calibration), smoke detectors are given a new lease of life.

Dimensions



Technical data

| | DO1101A DO1104A | DO1103A | DT1101A | DT1102A |
|---------------------------------|----------------------------------------------------------------------------------------------|------------------|------------------|------------------|
| Operating voltage | 16... 24 VDC | 16... 24 VDC | 16... 24 VDC | 16... 24 VDC |
| Operating current (quiescent) | max. 100 µA | max. 100 µA | max. 100 µA | max. 100 µA |
| Operating temperature | -25... +60 °C | -25... +60 °C | -25... +50 °C | -25... +70 °C |
| Storage temperature | -30... +75 °C | -30... +75 °C | -30... +75 °C | -30... +75 °C |
| Humidity | ≤95 % rel. | ≤95 % rel. | ≤95 % rel. | ≤95 % rel. |
| Protection category IEC60529 | IP44 | IP44 | IP44 | IP44 |
| Color | white, ~RAL 9010 | white, ~RAL 9010 | white, ~RAL 9010 | white, ~RAL 9010 |
| Standards | EN 54-7 | – | EN 54-5: A1R | EN 54-5: B |
| Approvals | DO1101A / DO1104A | | | |
| – VdS | G294005 / – | – | – | – |
| – LPCB | 1161a/01 / – | | 1161c/01 | 1161c/03 |
| Connection factor KMK | 1 | 1 | 1 | 1 |
| Compatibility | Compatible with all control units with collective/SynoLINE600 detector evaluation | | | |
| QS Standards | Fire protection industry certified quality assurance system according to EN ISO 9001:2000 | | | |

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| 05  0786 | DO1101A | Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 001001 |
| DO1101A - Point type smoke detector for use in fire detection and fire alarm systems installed in buildings. | | |
| 305/2011/EU (CPR): EN 54-7 ; 2004/108/EC (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 https://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20136; DoC No.: CED-DO1101A | | |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------|
| 05  0786 | DO1104A | Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 001001 |
| DO1104A - Point type smoke detector for use in fire detection and fire alarm systems installed in buildings. | | |
| 305/2011/EU (CPR): EN 54-7 ; 2004/108/EC (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 https://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20077; DoC No.: CED-DO1104A | | |

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| 05  0786 | DT1101A | Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 1039 |
| DT1101A - Point type heat detector for use in fire detection and fire alarm systems installed in buildings. | | |
| 305/2011/EU (CPR): EN 54-5 ; 2004/108/EC (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 https://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20079; DoC No.: CED-DT1101A | | |

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| 05  0786 | DT1102A | Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 1039 |
| DT1102A - Point type heat detector for use in fire detection and fire alarm systems installed in buildings. | | |
| 305/2011/EU (CPR): EN 54-5 ; 2004/108/EC (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 https://siemens.com/bt/download | | |
| DoP No.: 0786-CPR-20094; DoC No.: CED-DT1102A | | |

Details for ordering

| Type | Part no | Designation | Weight |
|---------|----------------|--------------------------------------------------------------|----------|
| DO1101A | BPZ:4930020001 | Smoke detector | 0.160 kg |
| DO1103A | BPZ:4945800001 | Smoke detector (for air sampling smoke detection systems) | 0.160 kg |
| DO1104A | BPZ:5090640001 | Smoke detector (with higher response sensitivity) | 0.160 kg |
| DT1101A | BPZ:4931700001 | Heat detector | 0.140 kg |
| DT1102A | BPZ:4931830001 | Heat detector | 0.140 kg |

Base and base accessories see document 001035

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Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41 – 724 24 24
www.siemens.com/buildingtechnologies

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