



DO113xA / DT113xA / DOT1131A

AlgoRex
Synova™

Automatic fire detectors



AnalogPLUS/SynoLOOP

-
- **High degree of reliability and stability**
 - **Individual identification of detectors**
 - **High degree of operational reliability through signal processing in the detector and in the control unit**
 - **Built-in line disconnection function**
 - **High resistance to**
 - electromagnetic interference
 - humidity and corrosion
 - **Modern design**
 - **Blend 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 DO1131A / DO1133A, AnalogPLUS/SynoLOOP wide spectrum



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

- **Function**

- The detector transmits the danger signal '**standard**' and '**high sensitivity**' to the control unit. The control unit evaluates as a default the danger signal 'standard'. Due to corresponding programming the danger signal 'high sensitivity' can be evaluated.
- The detector has traced a fault and continued operation is no longer assured. The control unit verifies the signal and indicates 'fault' if received repeatedly.
- Address allocation possible in three ways
 - in installation sequence
 - by the sequence of inserting
 - in the activation sequence
- A built-in line disconnection switch isolates the defective part if the detection line suffers short circuit.
- Built-in alarm indicator provides on-site signaling of alarm.
- **DO1131A**: Deviation from the quiescent value caused e.g. by soiling is transmitted by the detector to the control unit.

- **Application**

- **DO1131A**: for the early warning of smoke-forming flaming fires and smoldering fires.
- **DO1133A**: with increased sensitivity for use in air sampling smoke detection systems.

Heat detectors DT1131A / DT1132A



- Maximum temperature alarm activation with quality thermo sensor
- DT1131A: Reliable heat detector for demanding requirements
 - heat detector with wide application range (up to +50 °C)
 - response behavior immune to deceptive phenomena with rapid and slow increases in temperature
 - intelligently designed differential characteristics
- DT1132A: Reliable heat detector with maximum temperature activation (activating temperature +80 °C) for special applications.

- **Function**

- The detector has traced a fault and continued operation is no longer assured. The control unit verifies the signal and indicates 'fault' if received repeatedly.
- Address allocation possible in three ways
 - in installation sequence
 - by the sequence of inserting
 - in the activation sequence
- A built-in line disconnection switch isolates the defective part if the detection line suffers short circuit.
- Built-in alarm indicator provides on-site signaling of alarm.

- **Application**

- **DT1131A:** 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.
- **DT1132A:** For the monitoring of rooms and installations in which rate-of-rise heat detectors are unsuitable, e.g. with transient vapor or heat development.

Smoke detector DOT1131A, AnalogPLUS multi-sensor



- Total response to all types of fire thanks to multi-criteria sensors
 - Combined evaluation of temperature and signals generated by smoke
 - Permanently programmed detection algorithms
 - High resistance to soiling and temperature fluctuation
- **Function**
 - The detector transmits the danger signal '**standard**' and '**high sensitivity**' to the control unit. The control unit evaluates as a default the danger signal 'standard'. Due to corresponding programming the danger signal 'high sensitivity' can be evaluated.
 - The detector has traced a fault and continued operation is no longer assured. The control unit verifies the signal and indicates 'fault' if received repeatedly.
 - Deviation from the quiescent value caused e.g. by soiling is transmitted by the detector to the control unit.
 - Address allocation possible in three ways
 - in installation sequence
 - by the sequence of inserting
 - in the activation sequence
 - A built-in line disconnection switch isolates the defective part if the detection line suffers short circuit.
 - Built-in alarm indicator provides on-site signaling of alarm.
- **Application**
 - For the early warning of flaming fires involving solid and liquid combustibles as well as smoldering fires.

Design

- Mounting with detector base DB1131A
- 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

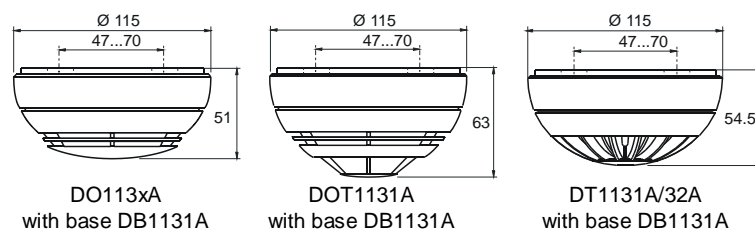
DO1131A / DO1133A / DOT1131A / DT1131A / DT1132A

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

DO1131A / DO1133A / DOT1131A





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

Dimensions



Technical data

	DO1131A	DO1133A	DOT1131A	DT1131A	DT1132A
Operating temperature	-25...+60 °C	-10...+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	-30...+75 °C
Humidity (no condensation)	≤95 % rel.	≤95 % rel.	≤95 % rel.	≤95 % rel.	≤95 % rel.
Protection category EN60529 / IEC529	IP44	IP44	IP44	IP44	IP44
Color	white, ~RAL 9010	white, ~RAL 9010	white, ~RAL 9010	white, ~RAL 9010	white, ~RAL 9010
Standards	EN 54-7, EN 54-17	EN 54-17 only in combination with air sampling smoke detection systems	EN 54-7, EN 54-17	EN 54-17, EN 54-5: A1R	EN 54-8: range 1
Approvals					
- VdS	G295046	–	G296055	G295048	G297067
- LPCB	1161b/01	–	1161b/03	1161d/01	–
Connection factor APMK	1	1	1	1	1
Compatibility	Compatible with AnalogPLUS/SynoLOOP fire detection system				
QS Standards	Fire protection industry certified quality assurance system according to EN ISO 9001:2000				

05  0786	DO1131A	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001293
		DO1131A - Point type smoke detector incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings.
		305/2011/EU (CPR): EN 54-7 / EN 54-17 ; 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 http://siemens.com/bt/download
		DoP No.: 0786-CPR-20078; DoC No.: CED-DO1131A
05  0786	DO1133A	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001293
		DO1133A - Short-circuit isolator as part of a high sensitivity smoke detector for use in fire detection and fire alarm systems installed in buildings.
		305/2011/EU (CPR): EN 54-17 ; 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 http://siemens.com/bt/download
		DoP No.: 0786-CPR-20624; DoC No.: CED-DO1133A
05  0786	DT1131A	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001294
		DT1131A - Point type heat detector incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings.
		305/2011/EU (CPR): EN 54-5 / EN 54-17 ; 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 http://siemens.com/bt/download
		DoP No.: 0786-CPR-20081; DoC No.: CED-DT1131A
05  0786	DOT1131A	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001353
		Point type smoke detector incl. short-circuit isolator for use in fire detection and 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
		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-20137; DoC No.: CED-DOT1131A

Details for ordering

Type	Part no	Designation	Weight
DO1131A	BPZ:4790000001	Smoke detector	0.160 kg
DO1133A	BPZ:5016480001	Smoke detector (for air-sampling smoke detection systems)	0.130 kg
DOT1131A	BPZ:4790130001	Smoke detector	0.150 kg
DT1131A	BPZ:4789910001	Heat detector	0.170 kg
DT1132A	BPZ:5004870001	Heat detector	0.105 kg

Base and accessories see document 001035

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

© Siemens Switzerland Ltd, 2015
Technical specifications and availability subject to change without notice.