

Automatic blow-out device ADB 1000

Technical Documentation



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Validity



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This document is intended for use by trained personnel for the mounting, installation, commissioning and maintenance of this product.



NOTICE

Foreign language documents as listed in this document are always approved and changed at the same time as the German version. If there are deviations between the foreign language document and the German text, the German document is binding.



NOTICE

The following document is applicable to the automatic blow out device ADB 1000 with the following production version and firmware version:

Production version
from 010621

Firmware version
from V060500

The validity of older production versions and firmware versions is guaranteed, with the exception of the new functionalities described in this edition. Additional information about the new functionalities can be found in the document history.

Document history

First edition **Date 01.02.2018**

Index “a” **Date 01.09.2018**

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
Page 3	n	Firmware version	Edition
All	c	Documentation page format adjusted	New document format
8.2	d	Function “Kontakt WE”	Correction
13	c	Montage Guidelines	Correction sequence
14	c	Article numbers	Correction

Index “b” **Date 01.04.2019**

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
	c	Firmware version	Update
2	c	Dust filter unit DFU 911, Dirt trap box DTB 25	Addition
5	c	Airflow monitoring delay time:	Correction
6	c	Dust filter unit DFU 911, Dirt trap box DTB 25	Addition
Fig. 1	c	Functional sequence	Contact WE
Fig. 2	c	Mainboard BMB 1000	Indication LED
10	n	Status display of the operating and fault LED (main-board BMB 2000)	Addition
10.1 / 10.2		Connection length input “contact WE”, “contact REM”	Addition
10.2		Function input “contact WE”	Addition
Fig. 4	c	Drilling plan ADB 1000	Update compressed air connection
Fig. 8	c	Fault transmission to CIE	Update
12	c	Article numbers	Correction

Index “c” **Date 01.05.2020**

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
2		Application area	Addition Dust filter unit DFU 911, Dirt trap box DTB 25
3		Construction	addition compressed air range
5		Functional description	Airflow monitoring delay time
6		Mounting / Commissioning	Connection length Input “Contact WE”, “External Input”
7		Mounting guidelines	Connection length Input “Contact WE”, “External Input”
7		Fig. 5 Standard installation with dust retaining box DRB 25 and dust filter unit DFU 911	Addition Dust filter unit DFU 911
7		Fig. 6 Installation with dirt trap box DTB 25 and dust filter unit DFU 911	Addition Dust filter unit DFU 911, Dirt trap box DTB 25
8.1		Quality compressed air	Chart quality compressed air
10		Configuration automatic blow-out device	Fault detection in the event of a drop off in compressed air
10		Configuration automatic blow-out device	Status display of the operating and fault LED
10.1		“External input” function	Connection length “External Input”
10.2		“WE contact” function	Connection length Input “Contact WE”
12		Article numbers	ASD 53x, ADB 500, MV 25
15		List of figures	Update

Index “d” Date 01.06.2020

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
	n	Firmware version	Edition

Index “e” Date 12.02.2025

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
All	c	TD-Number	different spelling

Index “f” Date 18.05.2026

Most important changes compared with previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
6	c	blow-out process duration adjusted	two different values specified
6.1	c	Figures 3 and 4 revised	Dimensions
7	c	Figures 5 and 6 revised	Dimensions and filters Fig. 5
13	c	Technical data	Correction of an error

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1 General information

1.1 Intended use



Intended use: fire protection

NOTICE

1.2 Safety and Environment

If the product is used by trained specialist personnel in accordance with this document and the safety symbols and all the instructions are observed, under normal circumstances and in the event of correct use, there will be no danger to persons, property or the environment. The product fulfils the requirements such that the health of persons and the environment are not endangered during operation. National and state-specific laws, regulations and guidelines must be observed and adhered to in all cases.

Observe these hazard warnings. They help to prevent accidents and avoid damage.

1.2.1 Advice and warning symbols

The following advice and warning symbols are used in the document to draw attention to dangers or special properties.



DANGER

The product may pose an immediate danger with a high degree of risk to persons if the instructions are not followed. If not avoided, death or serious injury may result.



WARNING

The product may pose a potentially imminent medium-risk danger to persons if the instructions are not followed. If not avoided, death or serious injury may result.



CAUTION

The product may pose a potentially imminent danger with a low degree of risk to persons if the instructions are not followed. If it is not avoided, a slight injury may result.



NOTICE

Failure to follow the instructions may result in malfunction of the product or damage to property or the environment.

1.2.2 Safety information



ELECTRIC SHOCK

The product is powered by electricity. Incorrect mounting, installation, commissioning and maintenance may result in death or serious injury due to electric shock. The safety information must be strictly observed.



READ THE INSTRUCTION MANUAL

To ensure the safe and proper use, it is essential that the instructions for use and other documents accompanying the product are read carefully before use and kept for future reference. In particular, the hazard warnings must be observed.



ELECTROSTATIC DISCHARGE

The product contains electronic components that are sensitive to electrostatic discharge (ESD). Contact with persons or objects can lead to an electrostatic discharge which can damage or destroy the product. ESD bands are used for the earthing of persons and for equipotential bonding as a preventive measure.

1.2.4 Regulation EC No. 1907/2006 (REACH)



REGULATION EC NO. 1907/2006 (REACH)

General information: Declaration on Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

If the articles contain substances on the candidate list in a concentration of >0.1% in accordance with Article 33 of Regulation (EC) No. 1907/2006 (REACH) and with regard to the safe handling associated with this, the following website will inform you: <https://www.securiton.de/>.

1.2.5 Disposal



ELECTRICAL / ELECTRONIC EQUIPMENT AND BATTERIES

Electrical and electronic equipment and batteries must not be disposed of with the household waste. As an end user, you are legally obliged to return the goods. After use, electrical and electronic equipment and batteries can be returned free of charge to the seller or to the designated collection points (e.g. municipal collection points or retailers).



RECYCLING

The product or components thereof, including the packaging, consist of recyclable material and may be disposed of for recycling in accordance with the information given in this document.

1.3 Product identification



NOTICE

The type plates, type designations and/or markings on devices and assembled printed circuit boards must not be removed, overwritten or otherwise made unrecognisable.

1.4 Warranty



NOTICE

The product may only be operated with the hardware, software and commissioning equipment specified and supplied by the manufacturer. Any unauthorized interference with the hardware and/or software as well as the use of non-system products is prohibited and may lead to malfunctions and/or damage to the product. This means that all warranty and liability claims against the manufacturer of the product are void. Non-observance of the instructions for use and improper maintenance and repair work will also void the warranty and product liability.

1.5 Product changes



NOTICE

Using the latest product software version at all times is generally recommended. No right to an update for existing products can be derived due to a hardware or software change of a product made by the manufacturer.

2 Field of application

The automatic blow-out device ADB 1000 is used as an accessory part for the aspirating smoke detector in areas with high levels of dust and dirt. The automatic blow-out device automatically blows out and cleans the sampling pipe of the aspirating smoke detector to prevent fault messages caused by contaminated sampling holes and to avoid false alarms. In addition, this significantly increases the service life of the smoke sensor installed in the aspirating smoke detector.

When using the automatic blow-out device ADB 1000, we **generally** recommend combining it with the accessory components dust cyclone collector DRB 25 and the filter-box FBX 25 (extra-large). Optionally, the dust filter unit DFU 911 and the dust trap box DTB 25 can also be used. Installation must be carried out in accordance with the mounting guidelines (see Chapter 7).

3 Construction

The automatic blow-out device ADB 500 is integrated directly into the sampling pipe of the aspirating smoke detector. For connection of the sampling pipe, the automatic blow-out device ADB 500 is equipped with corresponding connectors with a diameter of $d = 25 \text{ mm}$. On site, a compressed-air connection with a constant pressure of at least 4 bar and a maximum of 10 bar must be provided; this can also be connected to the automatic blow-out device without difficulty.

The compressed-air pressure monitoring (sensors) signals a fault message when the pressure is within the range of 1.5 bar to 2.5 bar. This ensures reliable operation in a compressed-air pressure range of 4 bar to 10 bar.

Within a compressed-air pressure range of 4 bar to 10 bar, effective cleaning of the respective SecuriRAS® ASD 53x aspirating smoke detectors is ensured. In this context, the various design configurations and system limits of the aspirating smoke detectors are irrelevant.

In the event of a compressed-air failure, the automatic blow-out device ADB 500 reports this condition as a fault message to the higher-level fire alarm control panel. The time window for fault detection can, however, be freely programmed by means of DIP switches (see Chapter 10).

With appropriate programming, no fault message is triggered at the automatic blow-out device ADB 500 if the compressed-air supply is switched off during weekends or public holidays. Once the compressed-air supply is switched back on, proper operation is automatically restored.

4 Function

Air contaminated with dust or dirt particles is inevitably drawn in by the aspirating smoke detector. As a result, dust particles accumulate in the sampling pipe and at the sampling holes, causing them to become contaminated. The airflow monitoring of the aspirating smoke detector **must** detect any such blockage of the sampling holes in compliance with applicable standards and signal it as a fault message to the higher-level fire alarm control panel.

To avoid fault messages of the aspirating smoke detector caused by contamination, the automatic blow-out device ADB 1000 is used in such areas of application. Blowing out of the sampling pipe can either be carried out automatically at various time intervals (programmable via DIP switches) or manually at any point in time by means of the external input "REM".

Benefits of the automatic blow-out device ADB 1000:

- Prevention of fault messages caused by contaminated sampling holes
- Extension of the service life of smoke detectors / smoke sensors
- Prevention or significant reduction of false alarms
- Fault message in the event of compressed-air failure (detection period freely programmable)
- Applicable to all aspirating smoke detectors
- Retrofitting possible at any time
- Low installation effort
- Maintenance-friendly

5 Functional description

There are various options for starting the blow-out process of the ADB 1000.

- Press "Start" on the mainboard BMB 1000
- Manually start the blow-out procedure by closing the contact "REMOTE" on the mainboard BMB 1000 for approx. 2 seconds
- Automatic execution of the blow-out procedure at different time intervals adjustable via DIP switches (DIP switch 2 set to OFF).

After the supply voltage is applied, the "Fault" relay energizes into hibernation mode. A fault is indicated by the flashing yellow LED. If a delay time is configured, the yellow LED flashes for the entire duration of the delay time. After the delay time has elapsed, the fault relay is de-energized and the yellow LED subsequently lights continuously, indicating the fault condition (status indication of the fault LED, see Chapter 9). The fault relay must be connected to the higher-level fire alarm control panel.

- Start of the blow-out process
(Prerequisite: limit switches 2 and 3 are active)
- Connection between aspirating smoke detector and sampling pipe is interrupted
 - Relay „ASD“ is energizing
- Connection between sampling pipe and compressed air is established
 - Relay "ASD-AUF" is energized (after approx. 2 seconds)
 - Limit switch 1 is activated
 - Relay "ZL-ZU" is energized (after approx. 2 seconds)
 - Relay "ZL-AUF" is energized (after approx. 2 seconds)
 - Limit switch 2 is deactivated
- Blow-out process is carried out
 - Relay "ZL-AUF" remains energized for **10 seconds**
- Connection between the sampling pipe and compressed air connection is disconnected
 - Relay "ZL-AUF" is de-energized (after approx. 10 seconds)
 - Relay "ZL-ZU" drops out (after approx. 2 seconds)
 - Limit switch 2 is activated
- Connection between aspirating smoke detector and sampling pipe is restored
 - Relay „ASD“ is de-energized (after approx. 10 seconds)
 - Relay "ASD-AUF" is de-energized (after approx. 2 seconds)
 - Limit switch 1 is deactivated
- End of the blow-out process

The respective relay status is indicated by a blue LED (LED illuminated when the relay is energized). If the entire blow-out process is not completed correctly, the "FLT" relay is energized and signals a functional fault to the higher-level fire alarm control panel.

For the installed aspirating smoke detectors, the airflow monitoring delay time must be adapted to the ambient conditions. To ensure continuous and reliable operation of the aspirating smoke detector, the following settings are recommended:

- Airflow monitoring sensitivity: Positive deviation [%]: 20 / Negative deviation [%]: 50
- Airflow monitoring delay time: 300 seconds (maximum)

Regarding setting these airflow monitoring delay times, the technical documentation of the respective aspirating smoke detectors must be observed.

Function of the DIP switches and course of the blow-out procedure:

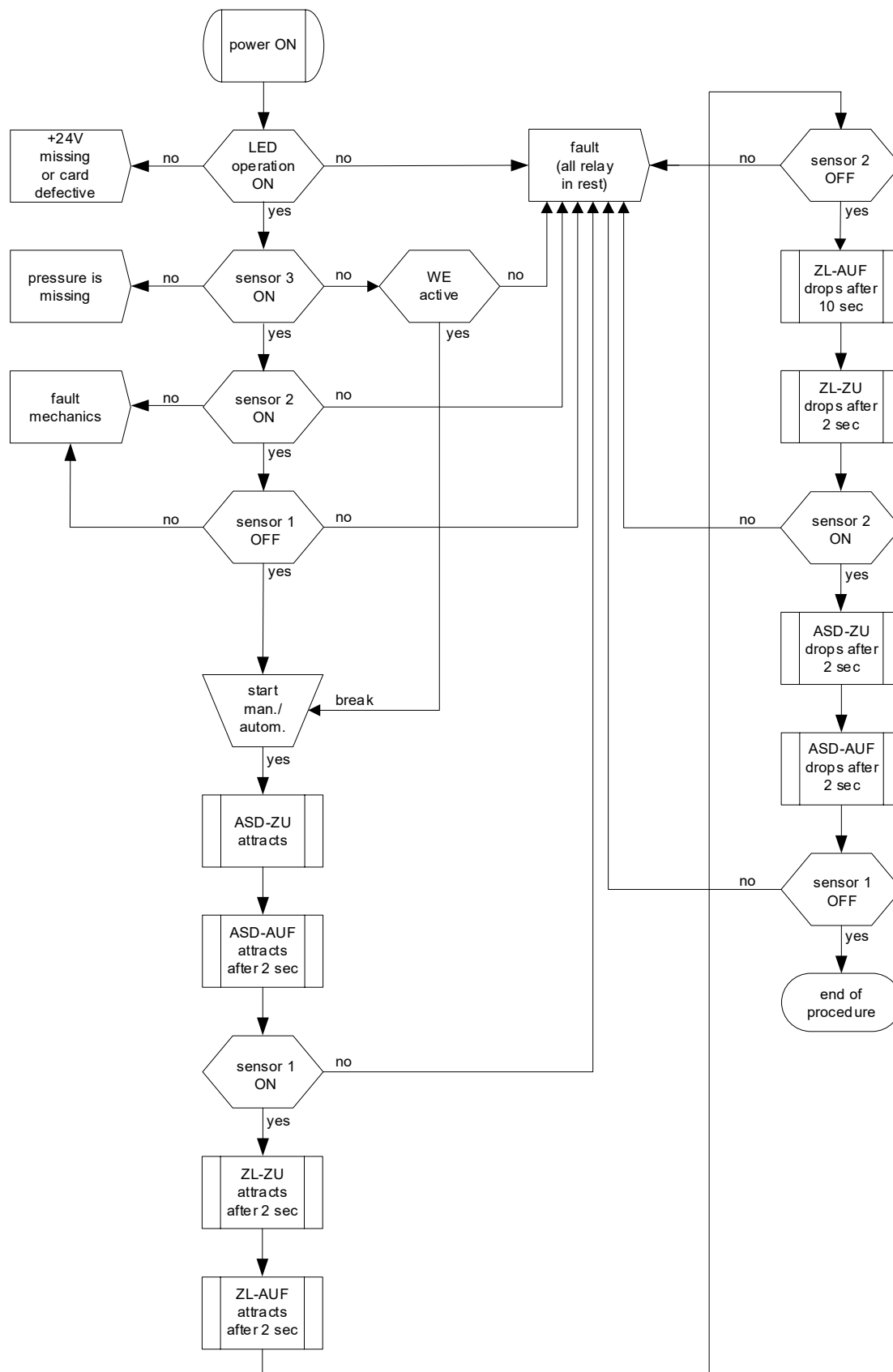


Fig. 1 Functional sequence ADB 1000

6 Mounting / Commissioning



CAUTION

Work on the automatic blow-out device ADB 1000 may only be carried out in a depressurised state!

The automatic blow-out device ADB 1000 is assembled directly beside the aspirating smoke detector.

When using the automatic blow-out device ADB 1000, a combination with the accessory components dust filter unit DFU 911 and dust retaining box DRB 25 is generally recommended. Optionally, the filter-box FBX 25 (extra large) and the dirt trap box DTB 25 can be used. The installation must be carried out in accordance with the mounting guidelines (see Chapter 7).

An external power supply (15-30 VDC) is required for operating the automatic blow-out device in accordance with the European product standard EN 54 - part 4. An emergency power supply is ensured in the event of a power failure.



NOTICE

The supply voltage must not be tapped directly from the aspirating smoke detector. A separate line for the power supply must be laid!

The sampling pipe of the aspirating smoke detector must be connected to the automatic blow-out device ADB 1000 in accordance with the mounting guidelines (see Chapter 7) and properly bonded using the designated adhesive. Prior to bonding, the bonding surface must be treated with the specified special cleaner.

The fault signalling contact of the automatic blow-out device ADB 1000 must be connected to the higher-level fire alarm control panel to ensure that fault messages generated by this accessory component are also forwarded. The on-site compressed-air supply is connected to the automatic blow-out device via a standard compressed-air connection (see Chapter 8).

Programming of the blow-out cycles is carried out using the DIP switches located on the Base Main Board BMB 1000. The duration of the blow-out process is approximately **30 seconds**.

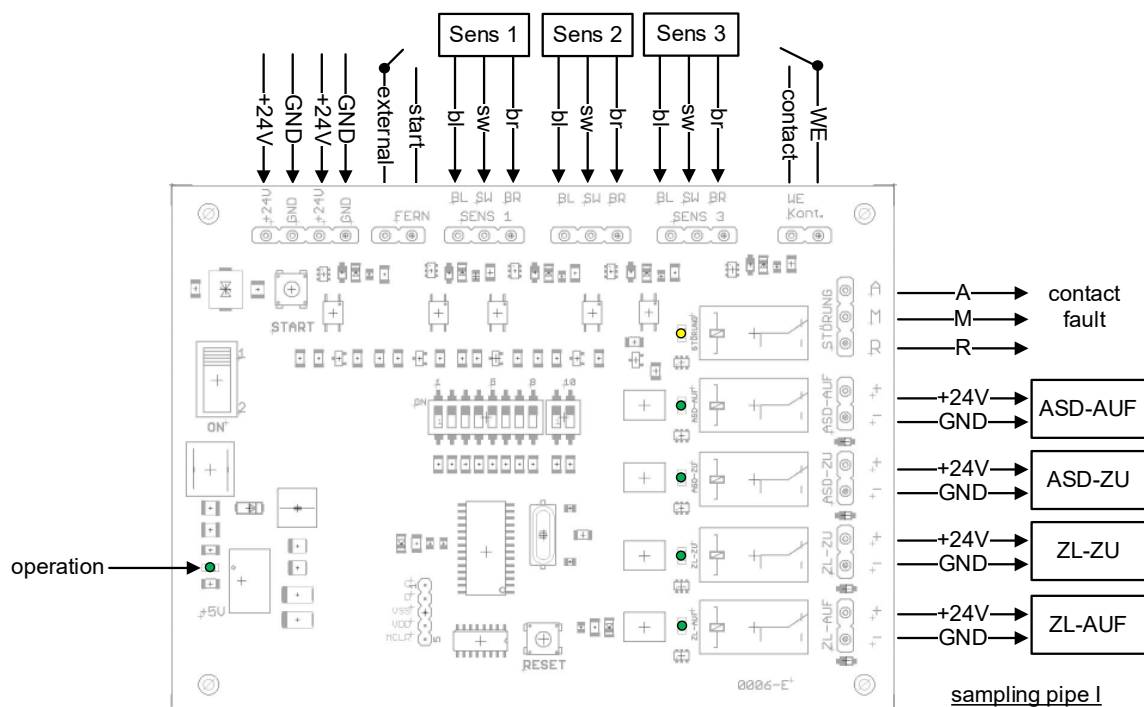


Fig. 2 Mainboard BMB 1000

6.1 Drilling plan for housing

Dimensions in mm

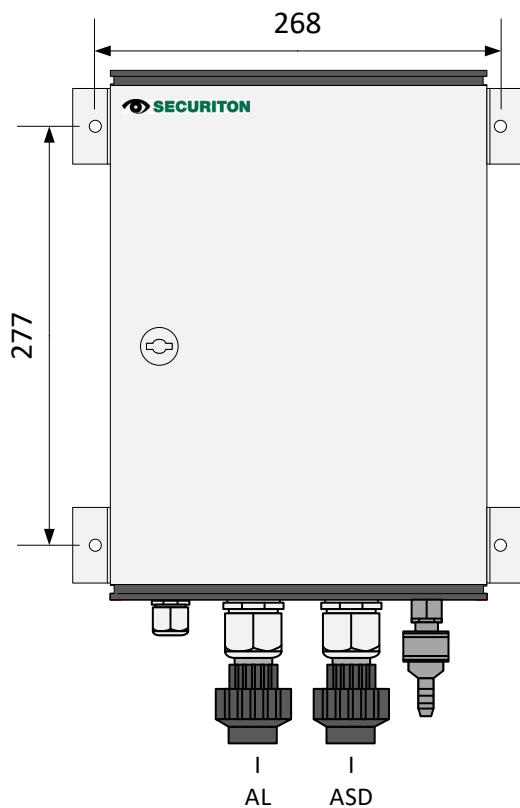


Fig. 3 Drilling plan ADB 1000

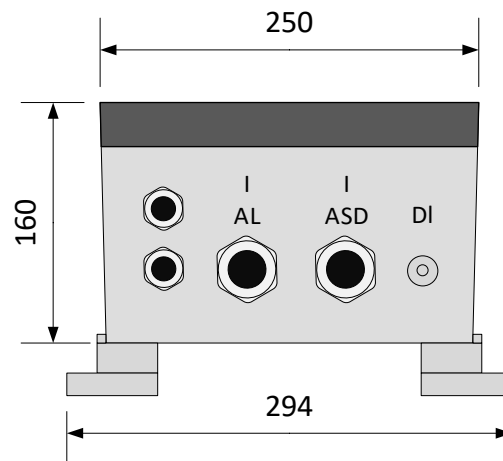


Fig. 4 Drilling plan ADB 1000

6.2 Description of connections

(channel I) ASD:	Connection of the sampling pipe between the aspirating smoke detector and automatic blow-out device ADB 1000
(channel I) AL:	Connection of the sampling pipe between the monitored area and automatic blow-out device ADB 1000
DI:	Connection compressed air

7 Mounting guidelines

Dimensions in mm

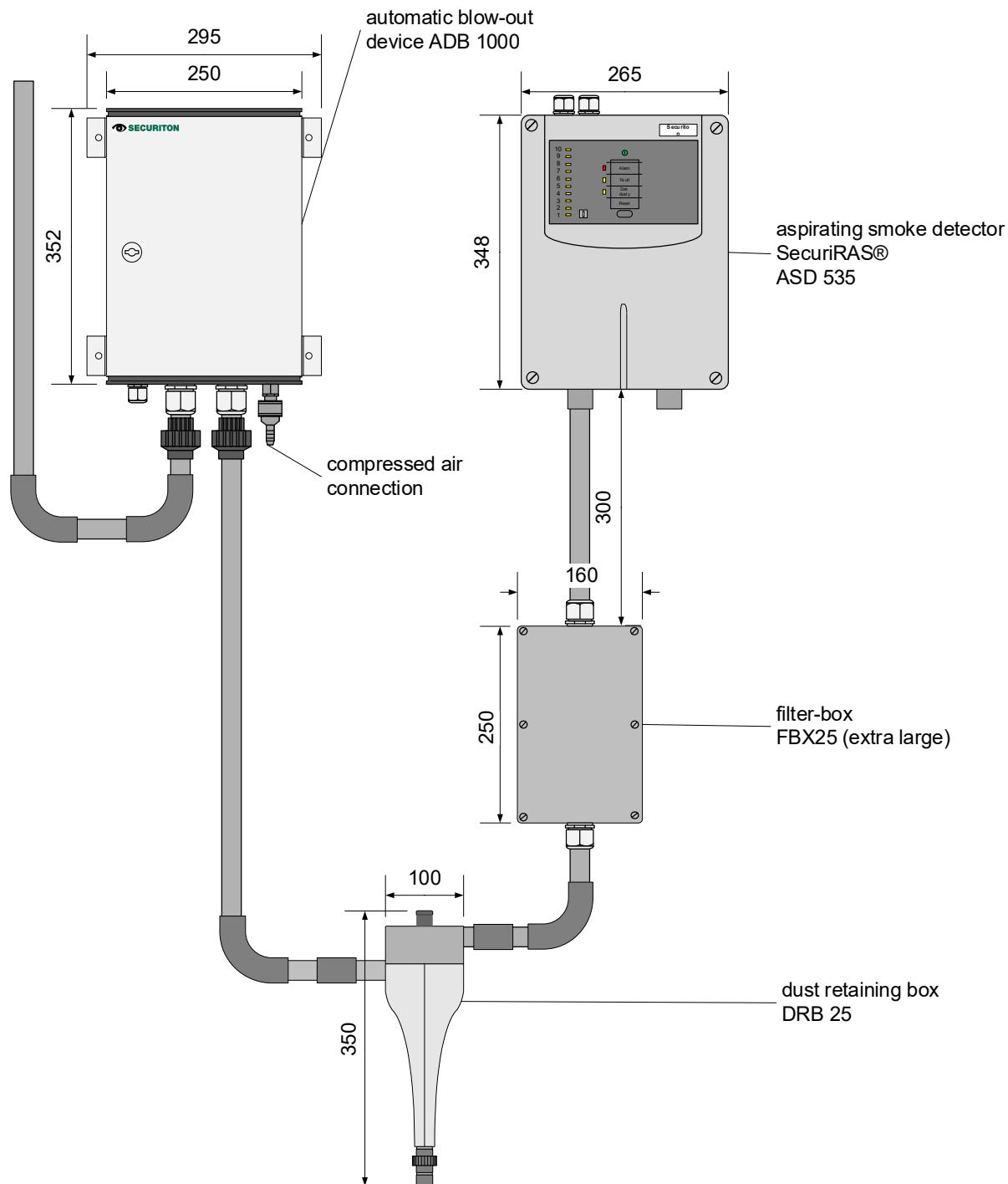


Fig. 5 Standard installation with dust retaining box DRB 25 and dust filter unit filter-box FBX 25 (extra large)



NOTICE

The minimum distance of the sampling pipe between the automatic blow-out device ADB 1000 and the aspirating smoke detector SecuriRAS® ASD 53x is 2.50 m.

The maximum connection length for the "External input" (Remote REM) and the input "Contact WE" is 30 meters and must not be exceeded!

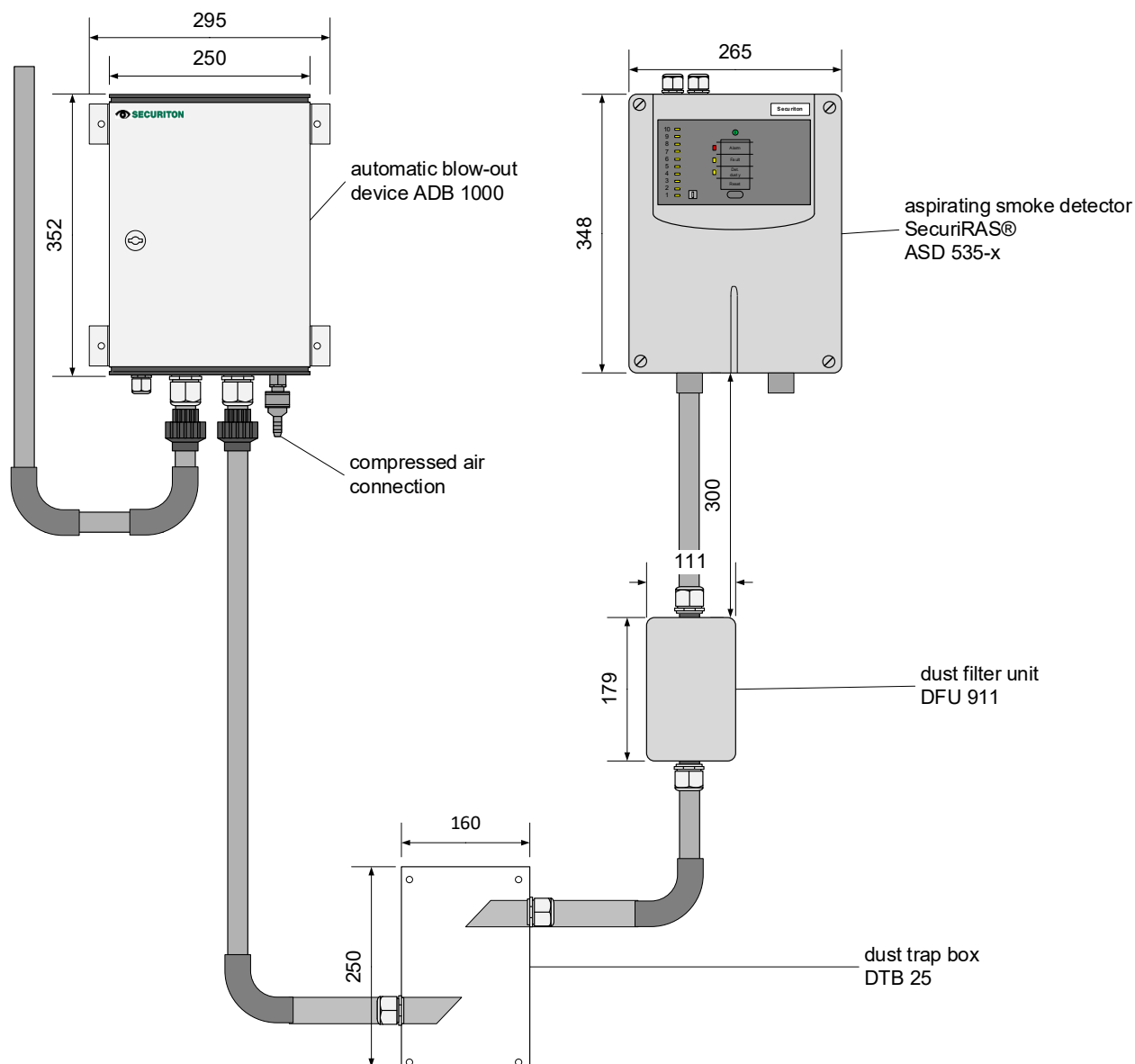


Fig. 6 Installation with dust trap box DTB 25 and dust filter unit DFU 911



HINWEIS

The minimum distance of the sampling pipe between the automatic blow out device ADB 1000 and the aspirating smoke detector SecuriRAS® ASD 53x is 2.50 m.

The maximum connection length for the "External input" (Remote REM) and the input "Contact WE" is 30 meters and must not be exceeded!

8 Description compressed air

8.1 Quality compressed air



HINWEIS

The compressed air must be free of oil and moisture in accordance with class ≤ 4 in the table below.

ISO8573-1:2010 CLASS	Solid Particulate				Water		Oil
	Maximum number of particles per m³			Mass Concentration mg/m³	Vapour Pressure Dewpoint	Liquid g/m³	Total Oil (aerosol liquid and vapour)
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron				mg/m³
0	As specified by the equipment user or supplier and more stringent than Class 1						
1	≤ 20,000	≤ 400	≤ 10	-	≤ -70°C	-	0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ -40°C	-	0.1
3	-	≤ 90,000	≤ 1,000	-	≤ -20°C	-	1
4	-	-	≤ 10,000	-	≤ +3°C	-	5
5	-	-	≤ 100,000	-	≤ +7°C	-	-
6	-	-	-	≤ 5	≤ +10°C	-	-
7	-	-	-	5 - 10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 - 5	-
9	-	-	-	-	-	5 - 10	-
X	-	-	-	> 10	-	> 10	> 10

Fig. 7 Classification of compressed air

8.2 Compressed air connection

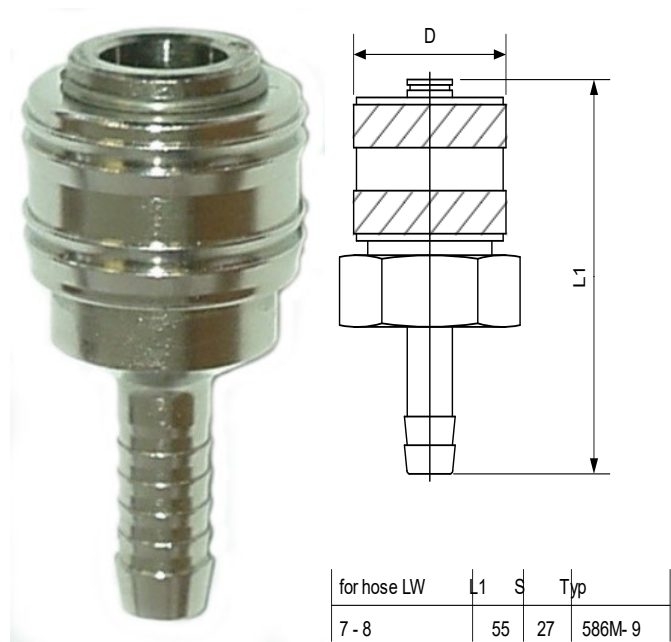


Fig. 8 Coupling socket NG 8 (for 7-8 mm pipe)

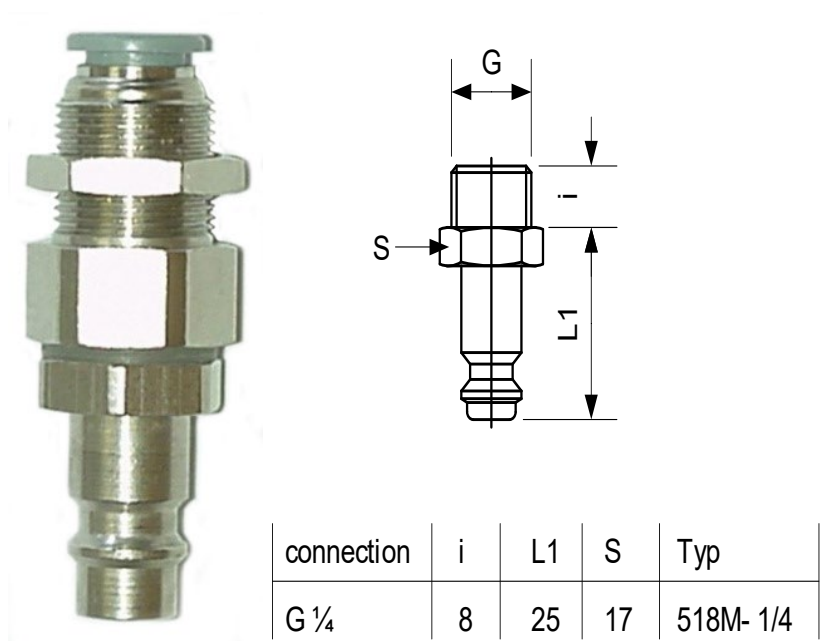


Fig. 9 Coupling plug NG 8 (G 1/4)

9 Fault transmission to FACP

When the supply voltage is applied, the fault relay is active.

If a fault occurs at the automatic blow-out device, the yellow fault indicator flashes. After expiration of the configured delay time, the fault relay becomes de-energized and the yellow fault indicator remains continuously illuminated.

For the automatic blow-out device to comply with normative requirements, the fault must be forwarded to the higher-level fire alarm control panel. For this connection (e.g. BMS SecuriFire / INTEGRAL), suitable loop modules must be used.

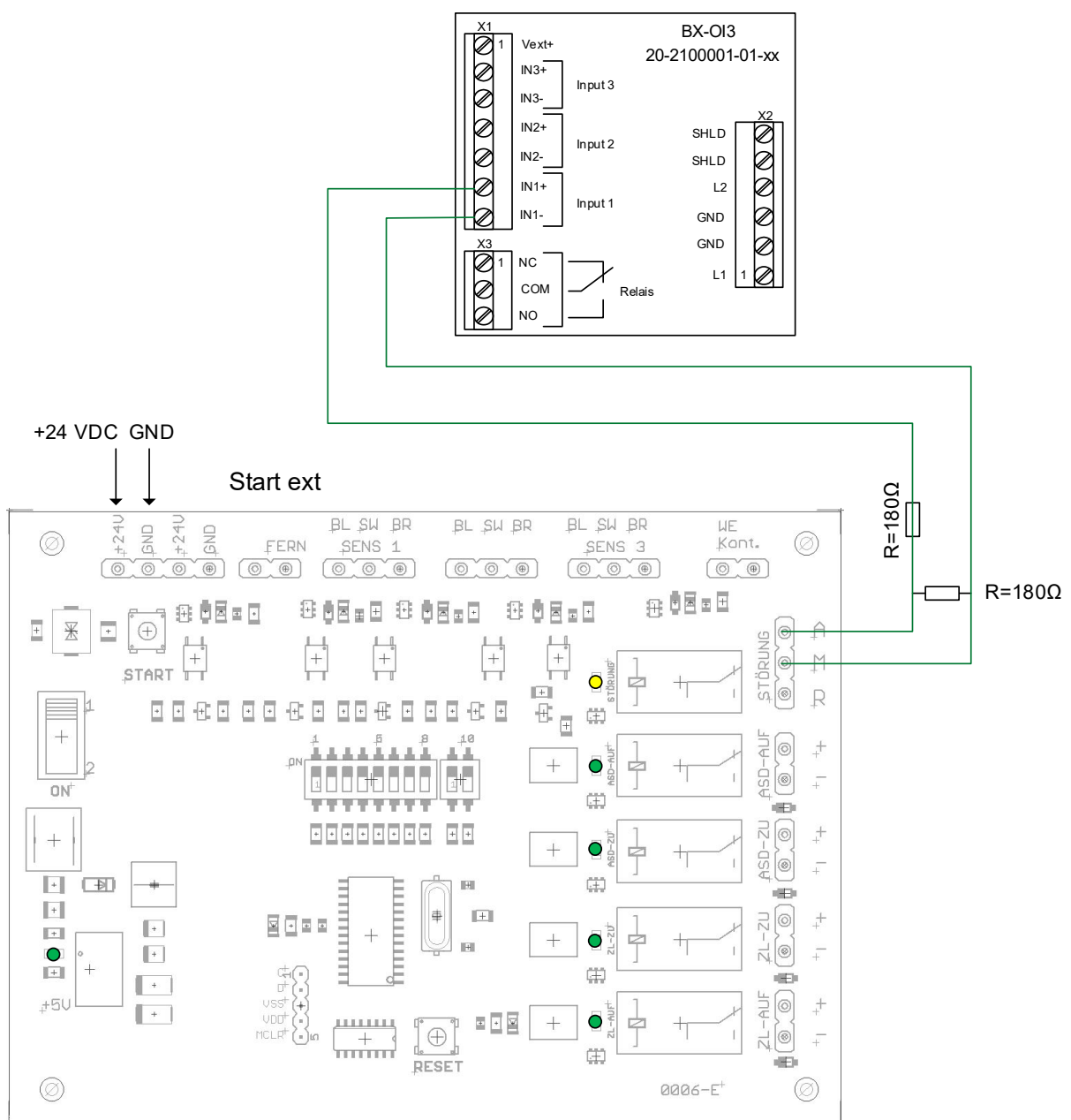
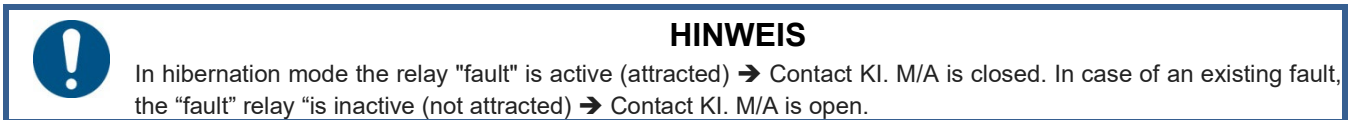


Fig. 10 Activation of fault output with loop module BX-OI3

10 Configuration automatic blow-out device

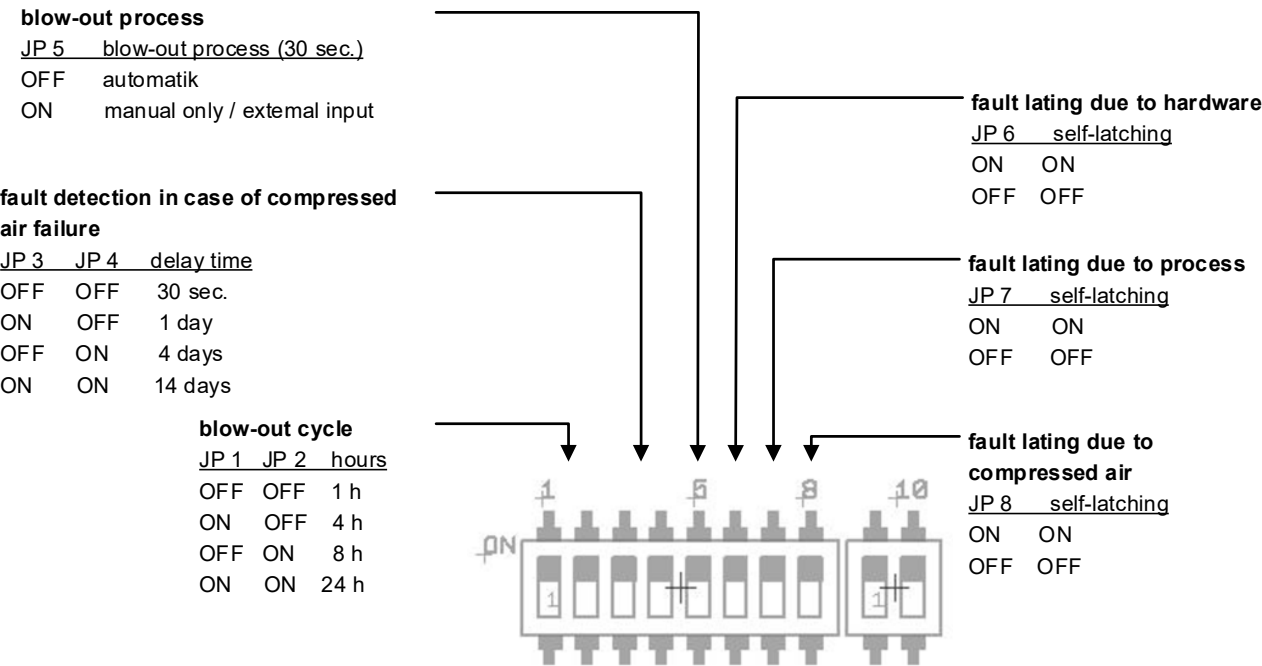


Fig. 11 Configuration DIP-Switch

The DIP switches JP9 and JP10 are not occupied.

HINWEIS

To ensure the "Fault detection in the event of a drop off in compressed air" function, no compressed air must be present.

Residual pressures can cause the blow-out process to start but stop due to the compressed air volume being too low. This can lead to an undefined state in the valve block of the automatic blow-out device ADB 1000. In this case, correct functionality can only be achieved by applying compressed air.

Status display of the operating and fault LED (mainboard BMB 1000):

Function / status	Operation	Failure
System off (no voltage)		
Hibernation mode	On	
Fault sampling pipe I, delay running	On	Flashing, 0.5s pulse
Compressed air fault, delay running	On	Flashing, 0.5s pulse
Fault (general) triggered	On	On

- (1) Mechanics are stuck and the blowing process cannot be started despite of the presence of compressed air.
- (2) Mechanics are stuck and the blow out process cannot be ended.
- (3) Supply voltage too low (UB ≤ 11 VDC) and valves cannot work.

10.1 "External input" function

To activate the "external input", DIP switch JP5 must be set to the ON position. In this case, the automatic blow-out function is deactivated. As soon as a pulse (momentary closing of the contact) is present at the "external input", the blow-out procedure is carried out on the sampling pipe. The pulse control can, for example, be triggered by the fire alarm control panel.



NOTICE

A delay time of 10 minutes is configured for the hardware and process fault.

A delay time configured for the compressed air monitoring (e.g. 30 seconds) is also applied to subsequent process faults.



HINWEIS

The maximum connection length for the "external input" (Remote FERN) is 30 meters and must not be exceeded!

10.2 "WE contact" function

If the operator's compressed air system is deactivated for an extended period of time (e.g. over the weekend), the automatic blow-out device ADB 1000 signals a fault of the compressed air monitoring. To prevent this condition, the input "Contact WE" can be temporarily short-circuited during this period. This means that, in general, when the operator's compressed air system is switched off, a contact must be provided by this system which acts on the input "Contact WE". In this case, the automatic blow-out function is deactivated.

When the operator's compressed air system is switched on again, this short circuit at the input "Contact WE" must be removed so that the function of the blow-out device is ensured and compressed air monitoring is restored.

If required, the WE input can also be used to prevent the counterproductive blow-out process in the event of a fire (increase in smoke level) via a configured pre-signal relay of the respective aspirating smoke detector. In this case, the pre-signal must be configured without command continuation. This ensures that fire detection is fully maintained by preventing the blow-out process.



NOTICE

The maximum connection length for the "contact WE" input is 30 meters and must not be exceeded!

Residual pressure from the compressed air system may cause the blow-out process to start but to be aborted due to an insufficient amount of compressed air. In this case, the valve block may be in an undefined state.

This undefined state of the valve block may cause a significant reduction of the cross-section of the sampling pipe. In this case the fire detection can no longer be ensured and the airflow monitoring of the aspirating smoke detector will signal an airflow fault (contamination).

The function "Compressed air failure detection" is monitoring of the compressed air supply in all operating states, both defined and undefined. In the event of a compressed air failure, a fault message is triggered after the configured delay time has elapsed (setting via DIP switches 5 and 6).



Fig. 12 Automatic blow-out device ADB 1000

11 Maintenance / Service



NOTICE

Maintenance and service work on fire alarm systems are subject in part to country-specific laws and directives.

Maintenance and service work may be performed only by persons trained and authorised by the manufacturer of the aspirating smoke detector.

The technical documentation of the respective aspirating smoke detector must always be considered.



CAUTION

Work on the automatic blow-out device ADB 1000 may only be carried out in a depressurised state!

Maintenance work should in principle only be carried out when the fire control systems of the aspirating smoke detector have been stopped. According to the valid regulations, the equipment should be maintained at regular intervals (quarterly), i.e. all elements influencing the function should be tested for flawless quality, cleaned and/or replaced.

12 Article numbers

Abbreviated designation		Art. no. SECURITON
Aspirating smoke detector SecuriRAS ASD 535-1	ASD 535-1	11-2000015-01-xx
Aspirating smoke detector SecuriRAS ASD 535-2	ASD 535-2	11-2000016-01-xx
Aspirating smoke detector SecuriRAS ASD 535-3	ASD 535-3	11-2000017-01-xx
Aspirating smoke detector SecuriRAS ASD 535-3 HD	ASD 535-3 HD	11-2000036-01-xx
Aspirating smoke detector SecuriRAS ASD 535-4	ASD 535-4	11-2000018-01-xx
Aspirating smoke detector SecuriRAS ASD 535-4 HD	ASD 535-4 HD	11-2000037-01-xx
Scattering Smoke Detector SSD 535-1	SSD 535-1	11-2000008-01-xx
Scattering Smoke Detector SSD 535-1-CP	SSD 535-1-CP	11-2000011-01-xx
Scattering Smoke Detector SSD 535-2	SSD 535-2	11-2000009-01-xx
Scattering Smoke Detector SSD 535-2-CP	SSD 535-2-CP	11-2000012-01-xx
Scattering Smoke Detector SSD 535-3	SSD 535-3	11-2000010-01-xx
Scattering Smoke Detector SSD 535-3-CP	SSD 535-3-CP	11-2000013-01-xx
Aspirating smoke detector SecuriRAS ASD 532	ASD 532	11-2000003-01-xx
Scattering Smoke Detector SSD 532-1	SSD 532-1	11-2000004-01-xx
Scattering Smoke Detector SSD 532-2	SSD 532-2	11-2000004-02-xx
Scattering Smoke Detector SSD 532-3	SSD 532-3	11-2000004-03-xx
Automatic blow-out device ADB 500, PVC	ADB 500 PVC	50-0500571-01-xx
Automatic blow-out device ADB 500, ABS	ADB 500 ABS	50-0500571-02-xx
Automatic blow out device ADB 1000	ADB 1000	50-0500520-01-xx
Automatic blow out device ADB 2000	ADB 2000	50-0500523-01-xx
Dust filter unit DFU 911	DFU 911	11-2300030-01-xx
Replacement filter element RFC 911	DFU 911 - RFC	11-2300031-01-xx
Replacement filter element RFC 911	DFU 911 - RFC (VE=20)	50-0500530-02-xx
Filter box FBX 25 (extra large)	FBX 25	50-0500184-01-xx
Replacement filter mat block filter box FBX 25	FBX 25 Filtermatte	50-0500530-01-xx
Dust retaining box DRB 25	DRB 25	50-0500635-01-xx
Dirt trap box DTB 25	DTB 25	50-0500198-01-xx
Manual ball valve MV 25 PVC	MV 25 PVC	50-0500175-01-xx
Manual ball valve MV 25 PVC with safety lever	MV 25 PVC (SH)	11-2300081-01-xx
Manual ball valve MV 25 ABS	MV 25 ABS	50-0500174-01-xx
Manual ball valve MV 25 ABS with safety lever	MV 25 ABS (SH)	11-2300080-01-xx
Input/output module BX-OI3 (without housing)	BX-OI3	20-2100001-01-xx

13 Technical data

Features			
Supply voltage range		15 to 30	VDC
Maximum current consumption, measured in		typical	
		24 VDC	
ADB 1000	Rest	approx. 50	mA
	Fault I	approx. 55	mA
	Blow out device cycle	approx. 900	mA
Fuse		2T	A
Housing protection type		54	IP
Environmental conditions			
Expanded environmental conditions:			
• Temperature range		0 to +50	°C
Maximum load bearing capacity of relay contact		50	VDC
		1	A
		30	W
Compressed-air connection			
• "On-site" compressed air area		min. 4	Bar
		max. 10	Bar
• Compressed air connections		Coupling plug NG (G ¼); coupling socket NG (for hose 7-8)	
Dimensions (H x W x D)		465 x 230 x 190	mm
Weight		8.4	kg

14 Technical Data Compressor / Pressurized Air

Features			
Supply voltage		230	VAC
Power consumption		1850	W
Compressed air capacity			
• Suction capacity"		min. 290	l/min.
• Filling capacity		min. 165	l/min.
• Min. pressure		min. 4	Bar
• Max. pressure		max. 10	Bar
Boiler volumes		20	l
Weight		approx. 24	kg



NOTICE

- ① Current consumption at maximum admissible voltage drop in the electrical installation (decisive value for calculation of the cable cross-section)
- ② May lead to immediate activation of the protective circuit of power supplies with overload protection (mainly at devices without emergency power supply and an output current of < 1.5 A).
- ③ After consultation of the manufacturer, lower or higher temperature ranges are also possible. Use in the condensation range is subject to consultation with the manufacturer.
- ④ Compliance with the Directive 2014/68/EU in relation to the provision of the pressure devices on the market: These Directives only start to apply for a pipe diameter with DN32. The pressure conveying pipes/sampling pipes to this automatic blow-out device fixture are at a diameter of DN20, however. For this reason, this EU Directive does not need to be taken into consideration for this particular application case. However, in the event of a fault in the pressurised air, the relieve of pressure is ensured via the housing.



NOTICE

The compressed air should be provided free from oil and humidity.

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