

# Automatic blow out device **SEC-ADB-500**

Technical Documentation





## Validity



### NOTICE

This document is valid only for the product described in this chapter and may be changed or withdrawn without prior notice. The validity of the statements made in this document applies until the statements are revised by a new edition of the document (TD 004 065 with new index). The user of this document is responsible for staying up to date with its current status through the editor/publisher. We accept no responsibility for claims against any incorrect statements in this document that were unknown to the publisher at the time of publication. Handwritten changes and additions are invalid.

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Some words in this document are highlighted in blue. These terms and designations are the same in all languages and are not translated. Users are encouraged to contact the editor/publisher if there are statements which are unintelligible, misleading, incorrect or which contain errors.

This document is intended for trained specialists for mounting, installation, commissioning and maintenance of the product.



### NOTICE

The following document is applicable to the automatic blow out device ADB 500 with the following production version and firmware version:

**Production version**  
from 011019

**Firmware version**  
from V010100

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 01.01.2020

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# 1 General

## 1.1 Safety and the environment

Provided the product is deployed by trained and qualified personnel in accordance with this document, and provided the safety symbols all notices are observed, there is no danger to persons or property under normal conditions and when used properly. The product fulfils the requirements ensuring personal safety and environmental protection during operation. National and state-specific laws, regulations and directives must be observed and adhered to in all cases.

Observe these danger notices. They help prevent accidents and damage.

### 1.1.1 Notice and warning symbols

The following notice and warning symbols are used to draw attention to hazards and special properties.



#### **DANGER**

The product may represent an immediate danger with a high level of risk to persons if the notice is not duly observed. If the danger is not avoided, death or serious injury may result.



#### **WARNING**

The product may represent a possibly imminent danger with a medium level of risk to persons if the notice is not duly observed. If the danger is not avoided, death or serious injury may result.



#### **CAUTION**

The product may represent a possibly imminent danger with a low level of risk to persons if the notice is not duly observed. If the danger is not avoided, a minor injury may result.



#### **NOTICE**

If this notice is not observed, the product may malfunction, may cause property damage, or may be harmful to the environment.

### 1.1.2 Safety information



#### **ELECTRICAL SHOCK**

The product is operated with electrical current. In the event of incorrect mounting, installation, commissioning or maintenance, an electrical shock may be life-threatening or there is the danger of serious injury. It is imperative that the safety information is observed.



#### **READ THE USER INSTRUCTIONS**

To ensure safe and proper use, it is absolutely necessary to read the instructions and other documentation accompanying the product before use and to keep such documentation at hand for later reference. It is imperative that the danger information in particular is observed.



#### **ELECTROSTATIC DISCHARGE**

The product includes electronic components that are sensitive to electrostatic discharge (ESD). Contact with persons or objects can cause an electrostatic discharge that damages or destroys the product. ESD bands for preventing electrostatic discharge are used for grounding persons and for equipotential bonding.



### 1.1.3 Regulation EC No. 1907/2006 (REACH)



#### REGULATION EC NO. 1907/2006 (REACH)

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

If the products contain substances from 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 associated safe handling, please visit the following website: <https://www.securiton.de/>.

### 1.1.4 Disposal



#### Electrical and electronic devices and batteries

It is not permitted to dispose of electrical and electronic devices or batteries in the domestic rubbish. As the end user you are legally obliged to return them. Used electrical and electronic devices as well as batteries can be returned to the seller or taken to a designated recycling centre (e.g. a community collection point or dealer) at no cost.



#### RECYCLING

The product and its components including their packaging consist of recyclable material and can be disposed of for recycling purposes as described in this document.

## 1.2 Product identification



#### NOTICE

The rating plates, type designations and/or identifications on devices and printed circuit boards must not be removed, written over or defaced in any way.

## 1.3 Guarantee



#### NOTICE

The product may be operated only with the hardware, software and commissioning media designated and delivered by the manufacturer. Any unauthorised intervention in the hardware and/or software or the use of non-system products is prohibited and may result in malfunctions and/or damage to the product. If this is not observed, all guarantee and warranty rights with respect to the manufacturer of the product will become null and void. Further, non-observance of the user instructions as well as improper maintenance and repair work void the guarantee and product liability.

## 1.4 Product changes



#### NOTICE

It is always recommended to use the latest version of the product software. A change to hardware or software of a product made by the manufacturer, is not a right to an update for existing products.

## 2 Application area

The automatic blow out device ADB 500 is used as an accessory part for the aspirating smoke detector SecuriRAS® in areas with high levels of dust and dirt. With the blow out device, the aspirating smoke detector's sampling pipe is automatically blown through and cleaned to prevent fault messages due to contaminated suction openings and false alarms. This way, the lifespan of the smoke sensor in the aspirating smoke sensor is increased considerably.

When using the automatic blow out device ADB 500, 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).

### 3 Construction

The automatic blow out device ADB 500 is integrated directly into the sampling pipe of the aspirating smoke detector. For connection to the sampling pipe, corresponding PVC socket with a diameter  $d=25\text{mm}$  are present on the automatic blow out device ADB 500. A compressed air supply with a constant pressure of at least 4 bar should be provided on site which can be adapted without problem to the blow out device. If the compressed air fails, this is relayed to the higher-level control and indicating equipment as a fault message by the automatic blow out device ADB 500. The timeframe for troubleshooting can, however, be freely programmed using the DIL switch (see chapter 10). In case of appropriate programming, no fault message is triggered at the automatic blow out device ADB 500 even in the event of the compressed air being switched off at weekends or on holidays. Proper operation is thus ensured upon restarting the compressed air system.

# 4 Function

The air polluted with dust and dirt particles is inevitably aspirated by the aspirating smoke detector. As a result, the dust particles settle in the sampling pipe and at the suction openings and consequently contaminate them. The airflow monitoring of the aspirating smoke detector **must** detect any such blockage of the suction openings conforming to standards and report it as a fault message to the higher-level control and indicating equipment.

In order to prevent a fault message for the aspirating smoke detector caused by contamination, the automatic blow out device ADB 500 is used in these fields of application. Blowing out the sampling pipe may optionally be carried out automatically at various intervals (programming by "DIL switch") or manually at any point in time.

### **Advantages of the automatic blow out device ADB 500:**

- Prevention of fault messages caused by contaminated suction openings.
- Lengthening of lifespan of smoke detectors / smoke sensors
- Prevention or substantial reduction of false alarms
- fault message in the case of compressed air failure (detection period can be freely programmed)
- applicable for all aspirating smoke detectors
- Subsequent installation possible at any time
- low installation costs
- Maintenance friendly

## 5 Functional description

There are various options for starting the blow out process of the ADB 500.

- Press "Start" on the mainboard BMB 500.
- Start by closing the contact "REM" on the mainboard BMB 500 for the automatic blow out procedure, the time intervals can be set using DIL switches.

When the supply voltage is applied, the "FLT" relay energises into hibernation mode. A fault is signalled by a yellow LED and the "FLT" relay de-energises. The fault relay is to be connected to the higher-level control and indicating equipment.

- Start of the blow out process
- Connection between aspirating smoke detector and sampling pipe is interrupted
  - Relay „ASD“ is energising
- Compressed air connection between aspirating smoke detector and sampling pipe is established
  - Relay „ASD“ energises (directly)
  - Limit switch responds
- Blow out process is carried out
  - Relay „ASD“ remains activated for **10 seconds / 30 seconds** (depending on the set time)
- Compressed air connection between aspirating smoke detector and sampling pipe is interrupted
  - Relay „ASD“ de-energises after **10 seconds / 30 seconds** (depending on the set time)
- Verbindung zwischen Ansaugrauchmelder und Ansaugleitung wird wiederhergestellt
  - Relay „ASD“ de-energises (about 10 seconds later)
  - Limit switch 2 responds
- End of the blow out process

The corresponding state of the relay is displayed using a blue LED (LED lights up if the relay is energised). If this process does not end properly after approx. 4 seconds, the "FLT" relay de-energises and consequently signals a fault message to the higher-level control and indicating equipment.

**If the aspirating smoke detectors SecuriRAS® are used, the airflow monitoring delay time must be adjusted to the ambient conditions. To ensure permanent function of the aspirating smoke detector, the following settings are recommended:**

- Sensitivity of airflow monitoring: +20% (break) / -50% (contamination)
- Airflow monitoring delay time: 300 seconds (at the most)

For setting of this airflow delay, the technical documentations of the respective aspirating smoke detector type SecuriRAS® are to be observed.

# Functional description

## Function of the DIL switches and course of the blow out procedure:

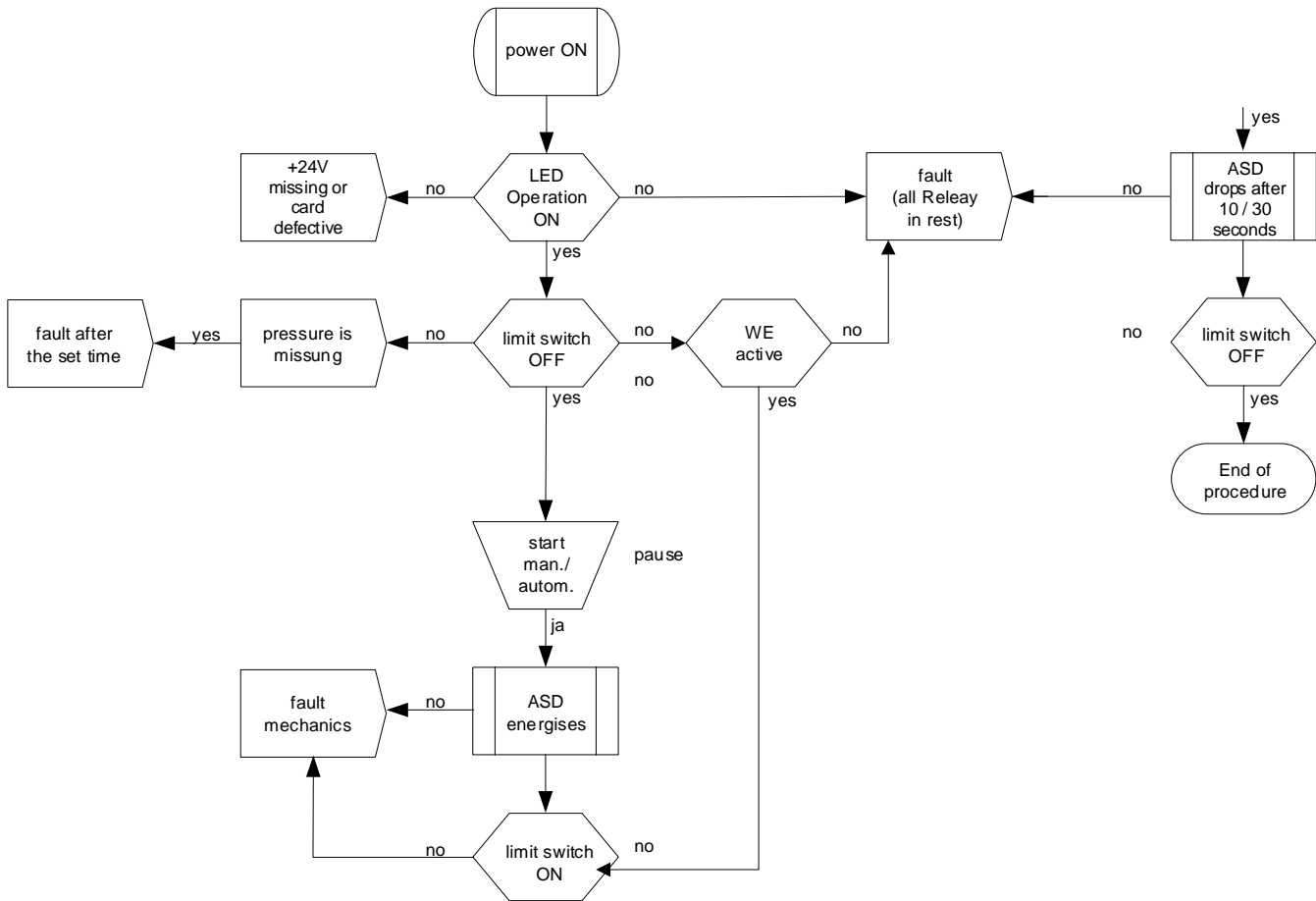


Fig. 1 Functional sequence ADB 500

## 6 Mounting / Commissioning



### CAUTION

Work on the automatic blow out device ADB 500 may only be carried out in a depressurised state!

The automatic blow out device ADB 500 is assembled directly beside the aspirating smoke detector.

When using the automatic blow out device ADB 500, 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 should be connected to the automatic blow out device ADB 500 in accordance with the mounting guidelines (chapter 7) and attached to the intended adhesive properly. The splice should be treated in advance with the special cleaning agent.

The fault relay of ADB 500 should be connected to the higher-level control and indicating equipment so that a fault transmission from this accessory component is also guaranteed. The compressed air provided by the building site is plugged into the automatic blow out device using the standard compressed air supply (see chapter 8).

The programming of the blow out cycles should be made using the "DIL switches" located on the mainboard BMB 500. The duration of the blow out procedure is about **10 seconds / 30 seconds**.

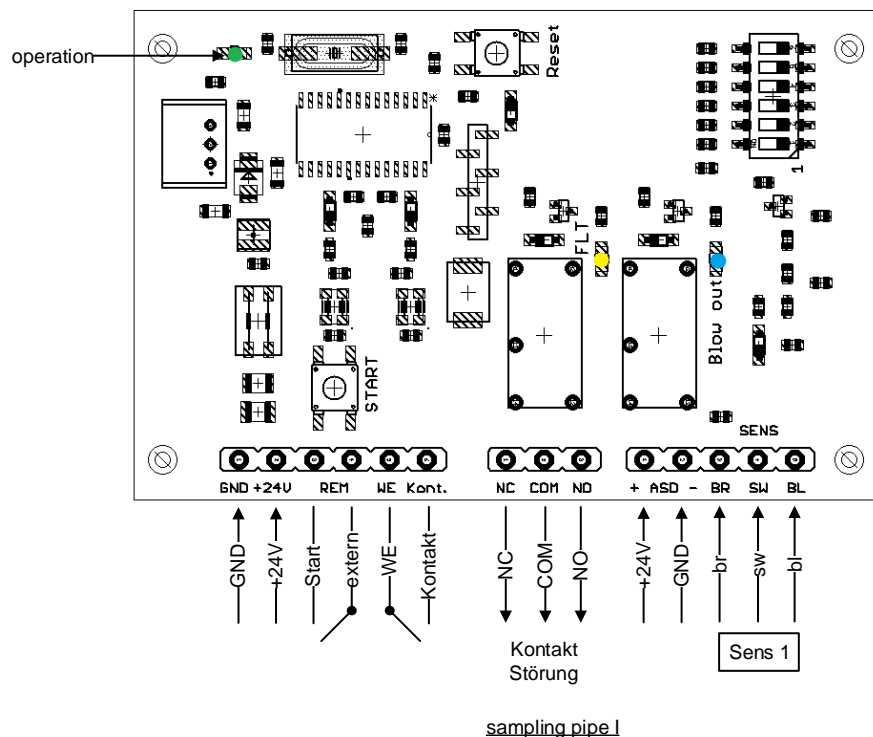


Fig. 2 Mainboard BMB 500

6.1 Drilling plan for housing

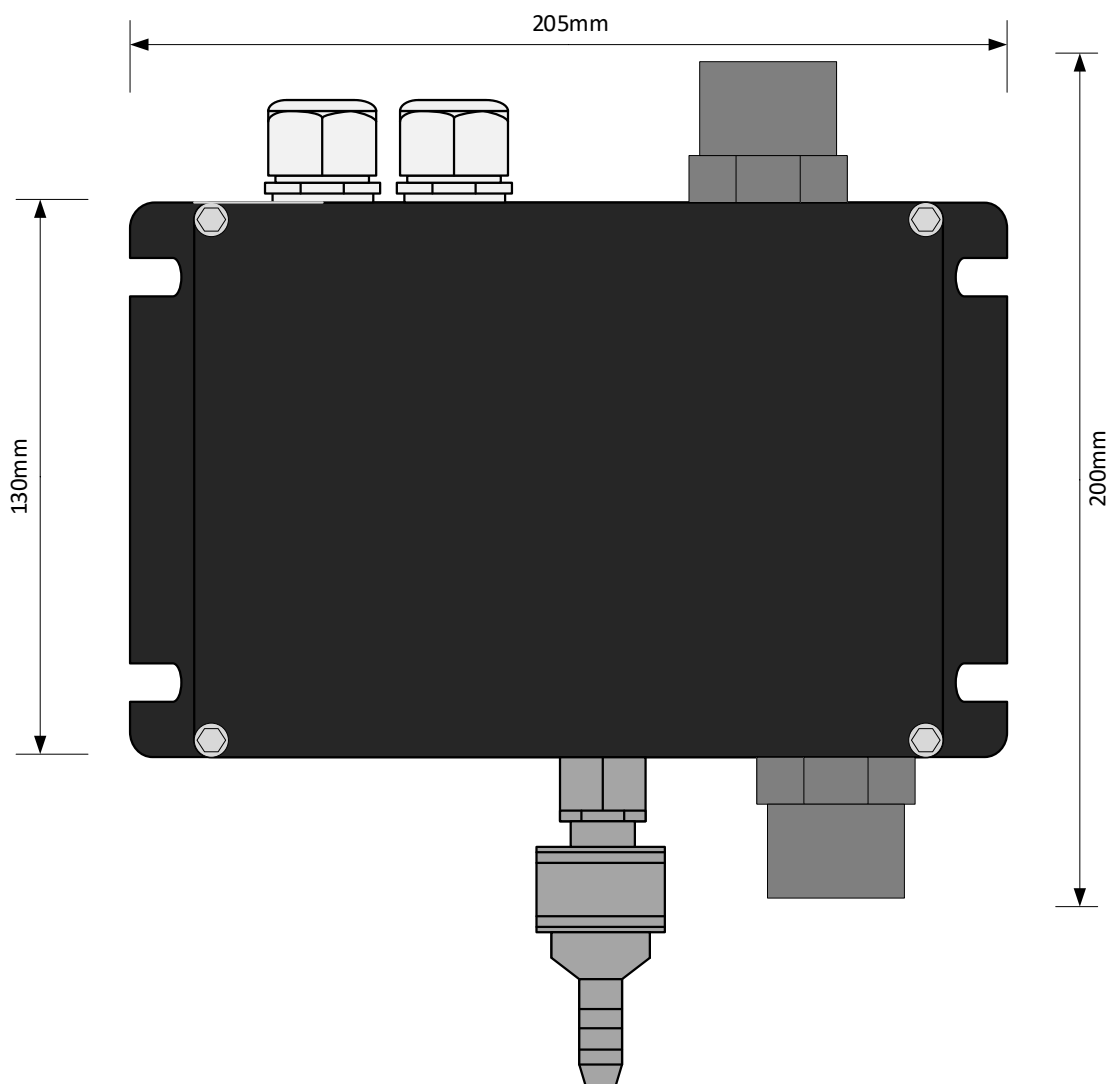


Fig. 3 Drilling plan ADB 500

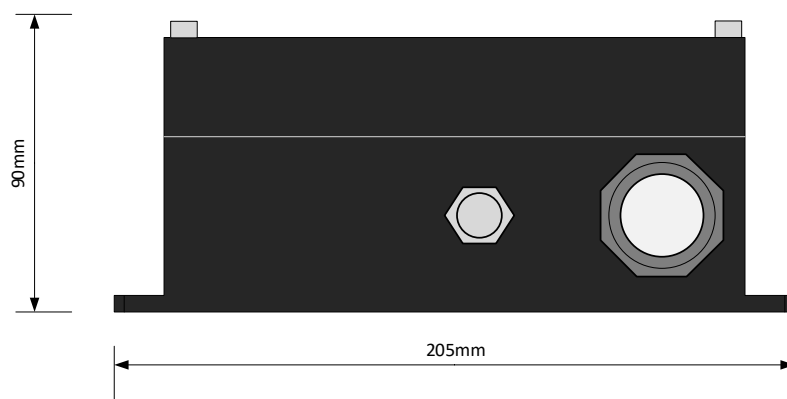


Fig. 4 Cutting plan ADB 500



## 7 Mounting guidelines

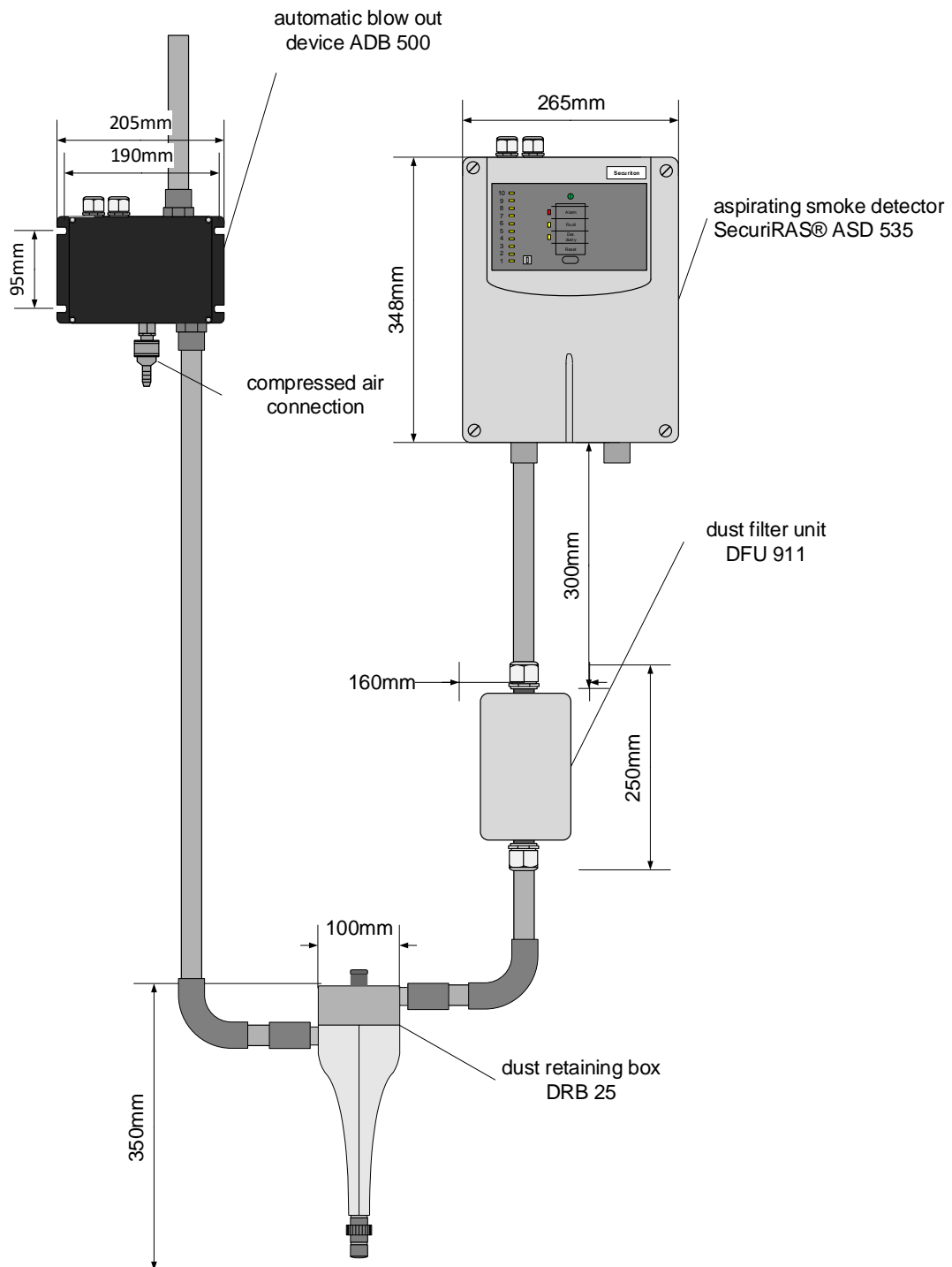


Fig. 5 Standard installation with dust retaining box DRB 25 and dust filter unit DFU 911



### NOTICE

The minimum distance of the sampling pipe between the automatic blow out device ADB 500 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!

## Mounting guidelines

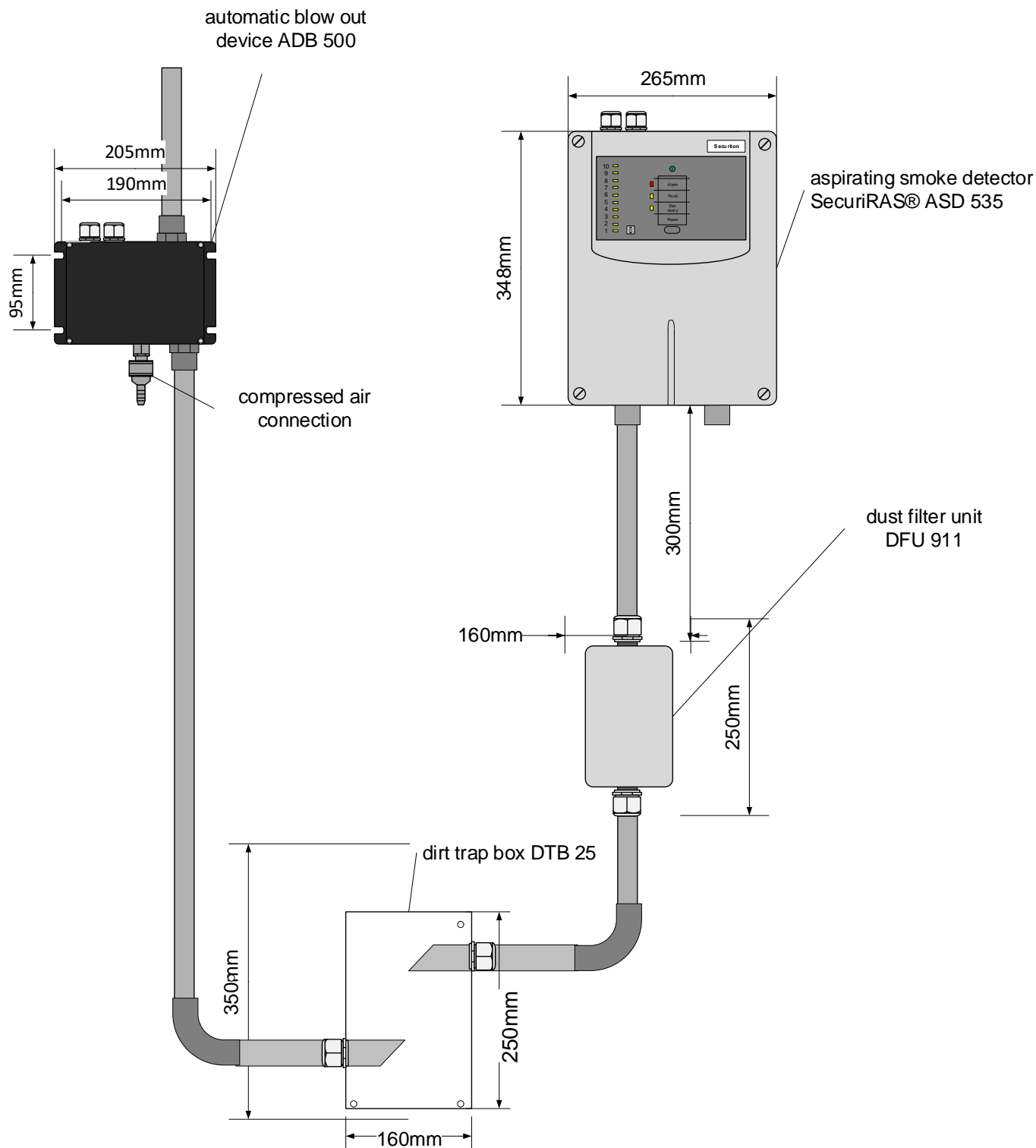


Fig. 6 Installation with dirt trap box DTB 25 and dust filter unit DFU 911



### NOTICE

The minimum distance of the sampling pipe between the automatic blow out device ADB 500 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



#### NOTICE

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

| ISO8573-1:2010<br>CLASS | Solid Particulate  |                |              |  | Water                          |                            | Oil  |
|-------------------------|--|----------------|--------------|--|--------------------------------|----------------------------|--|
|                         | Maximum number of particles per m <sup>3</sup>                                 |                |              | Mass<br>Concentration<br>mg/m <sup>3</sup> | Vapour<br>Pressure<br>Dewpoint | Liquid<br>g/m <sup>3</sup> | Total Oil (aerosol liquid and vapour)<br>mg/m <sup>3</sup> |
|                         | 0.1 - 0.5 micron   | 0.5 - 1 micron | 1 - 5 micron |  |                                |                            |  |
| 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

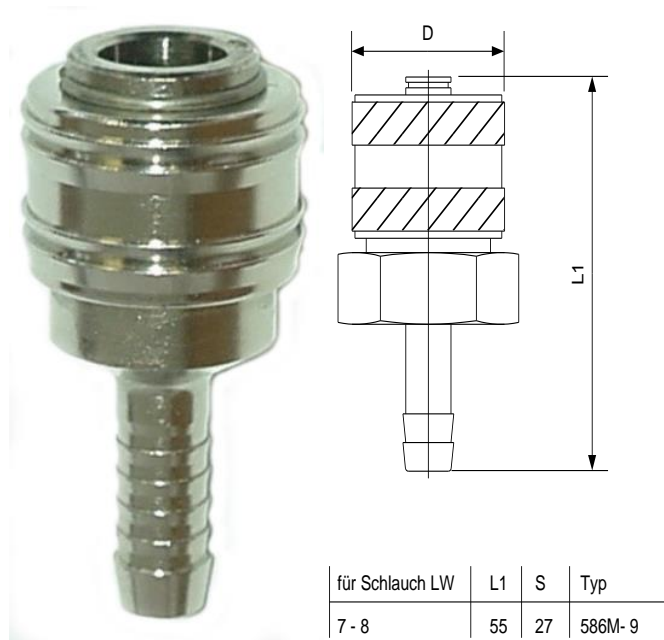


Fig. 8 Coupling socket NG 8 (for 7-8 mm pipe)

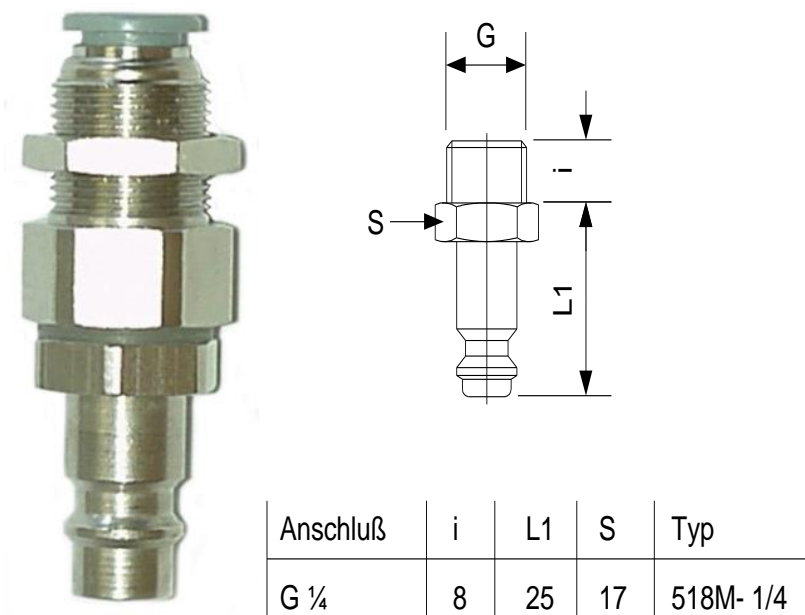


Fig. 9 Coupling plug NG 8 (G ¼)

## 9 Fault transmission to CIE

When the supply voltage is applied, the fault relay is active. If a fault occurs on the automatic blow out device, the yellow fault indicator flashes. When the set delay time has elapsed, the fault relay becomes inactive and the yellow fault indicator lights up permanently.

So that the automatic blow out device meets the normative requirements, a failure or fault must be transmitted to the higher-level control and indicating equipment. Suitable loop modules should be used for this connection (e.g. SecuriFire / INTEGRAL).



### HINWEIS

In hibernation mode the relay "fault" is active (attracted) → Contact COM/NO is closed. In case of an existing fault, the "fault" relay "is inactive (not attracted) → Contact COM/NO is open.

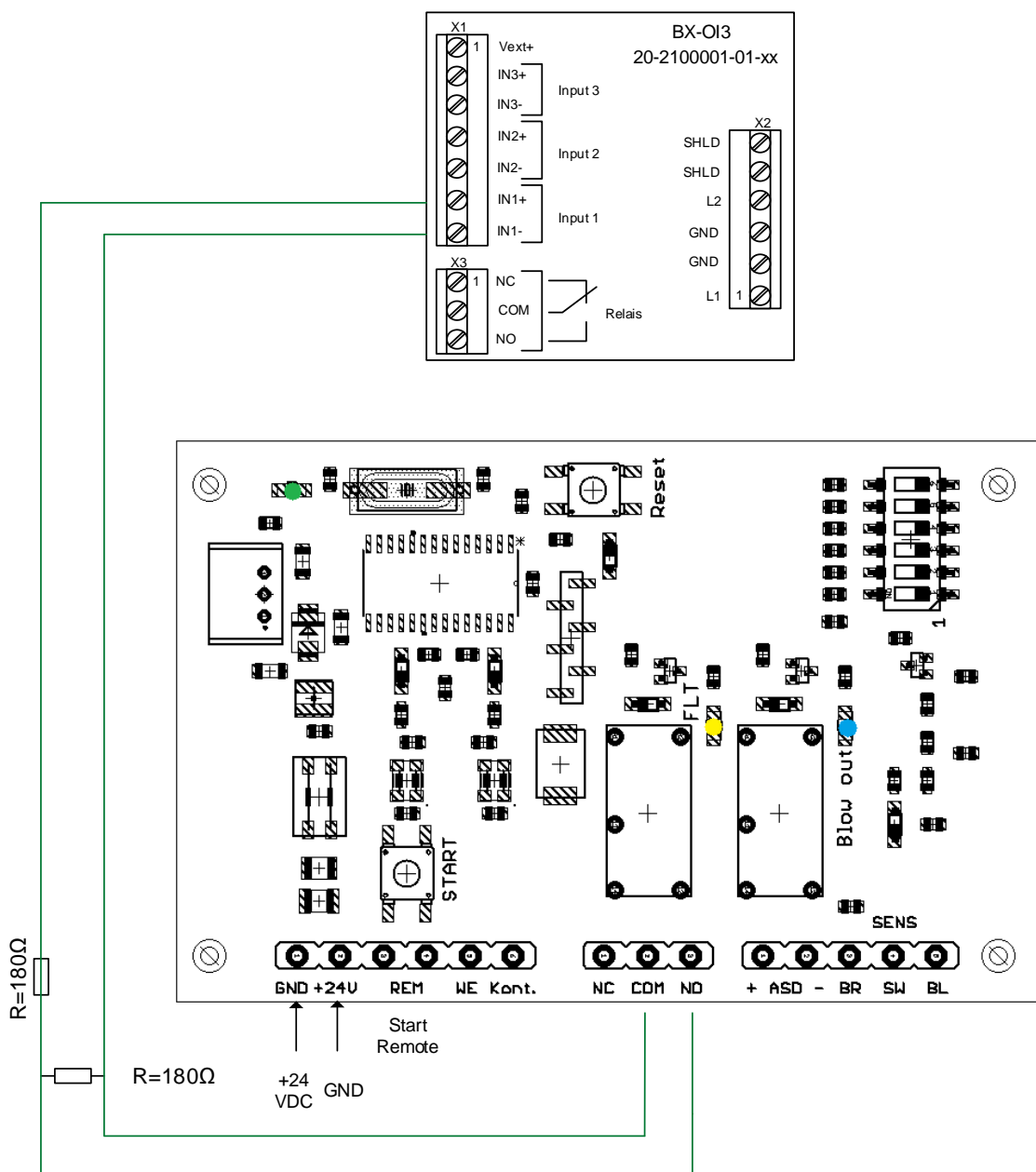


Fig. 10 Activation of fault output with loop module BX-OI3

## 10 Configuration automatic blow out device

### Blow out device cycle

| JP 1 | JP 2 | hours |
|------|------|-------|
| OFF  | OFF  | 1     |
| ON   | OFF  | 4     |
| OFF  | ON   | 8     |
| ON   | ON   | 24    |

### Troubleshooting in the case of air pressure failure

| JP 5 | JP 6 | days                       |
|------|------|----------------------------|
| OFF  | OFF  | directly after evaluation. |
| ON   | OFF  | 1 day                      |
| OFF  | ON   | 4 days                     |
| ON   | ON   | 14 days                    |

### Automatic blow out procedure

| JP 3 | Blow out procedure           |
|------|------------------------------|
| OFF  | automatic                    |
| ON   | only manual / external input |

### Blow out length

| JP 4 | process length |
|------|----------------|
| ON   | 10 seconds     |
| OFF  | 30 seconds     |

Status display of the operating and fault LED (mainboard BMB 500):

| Function / status  | Operation | Failure              |
|--|-----------|----------------------|
| System off (no voltage)                                  |           |                      |
| Hibernation mode   | On        |                      |
| Fault sampling pipe I, delay running <sup>(1), (2)</sup> | On        | Flashing, 0.5s pulse |
| Compressed air fault, delay running                      | On        | Flashing, 0.5s pulse |
| Fault (general) triggered <sup>(3)</sup>                 | On        | On                   |

(1) Mechanics are stuck and the blow out process cannot be started despite the presence of compressed air.

(2) Mechanics are stuck and the blow-out process cannot be ended.

(3) Supply voltage too low ( $UB \leq 11$  VDC) and valves cannot work.

### 10.1 "External input" function

For activation of the "external input", the contact must be closed. As soon as this contact is closed, the blow-out process is carried out on the sampling pipe. For example, impulse control may be realized via control and indicating equipment.

This function can always be used except when the input "Contact WE" is activated.



#### NOTICE

The delay times in chapter 10 apply to hardware and process faults.



#### NOTICE

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

### 10.2 "WE contact" function

If the operator's compressed air system is deactivated for a longer period of time (eg weekends), the automatic blow out device ADB 500 signalises a fault in the compressed air monitoring. In order to prevent this condition, the input "Contact WE" can be short-circuited during this time. This means that in general when switching off the compressed air system of the operator a contact of this system is to be provided, which acts on the input "contact WE". The automatic blow out function is deactivated in this case. When the operator's compressed air system is activated, this short circuit must be removed at the "contact WE" input so that the function of the automatic blow out device is ensured and compressed air monitoring is ensured again.



#### NOTICE

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



Fig. 11 Automatic blow out device ADB 500

## 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 500 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               | 5000623-0101       |
| Aspirating smoke detector SecuriRAS® ASD 535-2 | ASD 535-2               | 5000623-0102       |
| Aspirating smoke detector SecuriRAS® ASD 535-3 | ASD 535-3               | 5000623-0103       |
| Aspirating smoke detector SecuriRAS® ASD 535-4 | ASD 535-4               | 5000623-0104       |
| Smoke sensor SSD 535-1                         | SSD 535-1               | 5000613-0101       |
| Smoke sensor SSD 535-1-CP                      | SSD 535-1-CP            | 5000613-2201       |
| Smoke sensor SSD 535-2                         | SSD 535-2               | 5000613-0102       |
| Smoke sensor SSD 535-2-CP                      | SSD 535-2-CP            | 5000613-2202       |
| Smoke sensor SSD 535-3                         | SSD 535-3               | 5000613-0103       |
| Smoke sensor SSD 535-3-CP                      | SSD 535-3-CP            | 5000613-2203       |
| Aspirating smoke detector SecuriRAS ASD 532    | ASD 532                 | 11-2000003-01-xx   |
| Smoke sensor SSD 532-1                         | SSD 532-1               | 11-2000004-01-xx   |
| Smoke sensor SSD 532-2                         | SSD 532-2               | 11-2000004-02-xx   |
| Smoke sensor SSD 535-2                         | SSD 532-3               | 11-2000004-03-xx   |
| Aspirating smoke detector SecuriRAS® ASD 531   | ASD 531                 | 11-2000002-01-xx   |
| Smoke sensor SSD 31                            | SSD 31                  | 11-2200009-01-xx   |
| Automatic blow out device ADB 500              | ADB 500                 | 50-0500571-01-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             | RFC 911                 | 11-2300031-01-xx   |
| Replacement filter element RFC 911             | RFC 911 (VE=20)         | 11-2300031-02-xx   |
| Filter box FBX 25 (extra large)                | FBX 25                  | 50-0500184-01-xx   |
| Replacement filter mat block filter box FBX 25 | FBX 25 filter mat block | 50-0500530-01-xx   |
| Dust retaining box DRB 25                      | DRB 25                  | 0.101166           |
| 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 ①     |   | typical<br>24 VDC |     |
| ADB 500  | Rest  | approx. 18        | mA  |
|  | Fault I   | approx. 6,9       | mA  |
|  | Blow out device cycle                                     | approx. 430       | mA  |
| Fuse   |   | 0,75              | A   |
| Housing protection type ②                      |   | 65                | IP  |
| Environmental conditions                       |   |                   |     |
| Expanded environmental conditions:             |   |                   |     |
| • Temperature range ③                          |   | 0 to +50          | °C  |
| Maximum load bearing capacity of relay contact |   | 50                | VDC |
|  |   | 1                 | A   |
|  |   | 30                | W   |
| Compressed-air connection ④                    |   |                   |     |
| • "On-site" compressed air area                |   | Min. 4            | Bar |
| • Compressed air connections                   | Coupling plug NG (G ¼); coupling socket NG (for hose 7-8) |                   |     |
| Dimensions (H x W x D)                         |   | 235 x 205 x 90    | mm  |
| Weight   |   | 2,8               | kg  |

## 14 Technical Data Compressor / Copressed Air

| Features                |  |            |        |
|-------------------------|--|------------|--------|
| Supply voltage          |  | 230        | VAC    |
| Power consumption       |  | 1850       | W      |
| Compressed air capacity |  |            |        |
| • Suction capacity"     |  | min. 290   | l/minr |
| • Filling capacity      |  | min. 165   | l/minr |
| • 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.

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