Escape route technology

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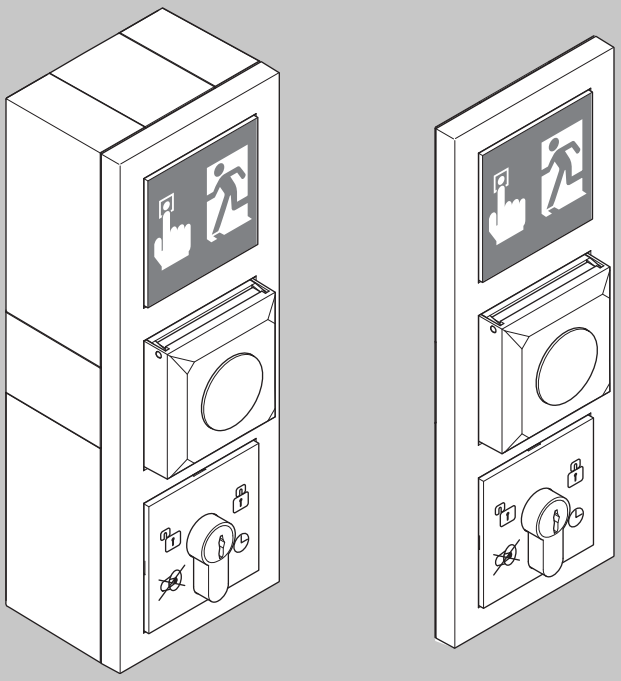

# Escape door control terminal Type 1384G/1385G

effeff
ASSA ABLOY

## Installation and mounting instructions

D0133700

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EN

**Read this manual thoroughly before use and keep it in a safe place for later reference. The manual contains important information about the product, particularly for its intended use, safety, installation, use, maintenance and disposal.**

**Hand the manual over to the user after installation and pass the manual on to the purchaser together with the product if the product is sold.**

A current version of these instructions is available online:
*https://aa-st.de/file/d01337*

Wiring diagrams for locking elements can be found in the instructions:
*https://aa-st.de/file/d00470*

The FT Manager instructions can be found at:
*https://aa-st.de/file/d01255*

Logbook
*https://aa-st.de/file/d01351*

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D0133700 12/2022

# Table of contents

## Escape door control terminal 1384G/1385G

The escape door control terminal releases a locked escape door via the emergency button or an external release, such as by a fire alarm system.

The permanent release or a temporary release can be activated using the key switch or an external switch, such as a switching timer.

The locking status of the escape door is indicated by the LEDs on the Emergency Open module. An acoustic alarm is also signalled.

## Escape door control terminal 1384G

Offline version for simple stand-alone use

The *escape door control terminal 1384G* is an offline version:
- for a simplified individual stand-alone system not integrated into the building network,
- commissioned and configured via key switch,
- without expansion options.

## Escape door control terminal 1385G

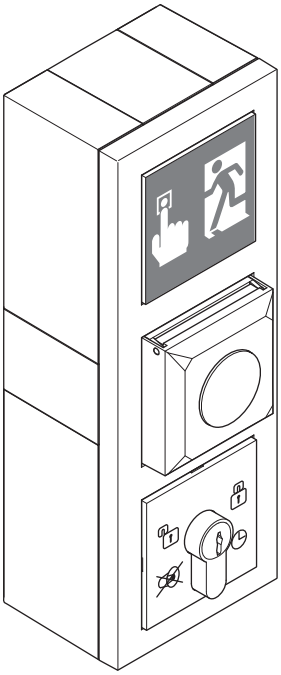
Offline for a complex individual application

The *escape door control terminal 1385G* is offline for a complex individual application (stand-alone operation):
- for a wire-interconnected interlock function,
- commissioned and configured via key switch,
- expandable with the *I/O module 901–20*.

Network

The *escape door control terminal 1385G* is in the network:
- for integration in a building management,
- expandable with the *I/O module 901–20*,
- commissioned and configured via *FT Manager*,
- configuration is possible via key switch,
- escape door terminals can be connected to the TSB controller.

*Fig. 1: Escape door control terminal*



**Illuminated emergency sign**

or

Blank cover

**Emergency Open button with LED status indicator**

The Emergency Open push-button is pressed in the case of an emergency, in order to request a release of the locked escape door. An alarm is also triggered in the process.

**Key switch for configuration and release**

With the key switch, the escape door is unlocked and operation is authorised.

## Target group

The mounting and installation of the product must be carried out by an electrician, with expertise in escape-door control systems certified by ASSA ABLOY in accordance with the building authority requirements for electromechanical locking devices for doors in escape routes. The electrician is obliged to apply the recognised rules of technology, inspection directives of the federal states and to update this knowledge on a regular basis.

Further knowledge of the product is required for the subsequent inspection of the correct mounting and installation, commissioning and maintenance. This does not form part of this manual.

## Meaning of the symbols

### Danger!

**Safety notice:** Failure to observe these warnings will lead to death or severe injury.

### Warning!

**Safety notice:** Failure to observe these warnings may lead to death or serious injury.

### Caution!

**Safety notice:** Failure to observe these warnings may lead to injury.

### Important!

**Note:** Failure to observe these warnings can cause damage and impair the product's function.

### Note!

**Note:**Additional information on operating the product.

## Safety instructions

### Warning!

**Danger arising from modification of the product:** The safety features of this product are an essential requirement for its conformity with EltVTR and DIN EN 13637:2015. Changes other than those described in this manual may not be made.

**Danger due to missing Emergency Open button on the escape door:** If the release of the escape door is centrally controlled, it will no longer be possible to independently choose to exit the danger zone in the case of danger. This always requires an approval from the competent building authority. Normally, a constantly manned station equipped with a central release mechanism is prerequisite for the approval.

**Danger due to faulty commissioning:** In order to ensure the safety of the product, commissioning must be performed by a qualified person. *ASSA ABLOY Sicherheitstechnik GmbH* offers training for qualification in the requisite skills.

**Danger due to faulty or improperly performed maintenance:** The owner is responsible for correct installation and functional inspection of the product and connected components.

- Safe functionality of the mechanical components must be checked **at least once a month** by the operator or authorised representative.
- The safe function must be tested by a trained qualified expert **at least once per year**.
- Requirements established by inspection authorities must be complied with.

**Danger arising from tampering or improperly performed repairs:** If the device or parts of the device cannot resume normal operation after a fault or alarm message, or if there is evidence of damage, the device may only be repaired by a qualified person. Please contact the customer service of the installation company or the support department of *ASSA ABLOY Sicherheitstechnik GmbH*.

## Warning!

**Risk of death due to electric current:** Contact with electricity can cause serious injury or death.
The product may only be opened by a qualified electrician with ASSA ABLOY-certified expertise in escape-door controls in accordance with the building authority requirements for electrical locking of doors in escape routes. The electrician is obliged to observe the recognized rules of technology, test regulations and to update this state of knowledge on an ongoing basis.

- Have assembly and installation work carried out by an ASSA ABLOY-certified electrician.

**Improper installation of the supply lines poses a risk to life and limb:** Supply lines must be:

- guided through the openings provided (rear or bottom, Page 14) and
- fed and secured correctly behind or next to the modules.

## Important!

**An electronically controlled door in the escape route must be identified:** A sign (pictogram) must be affixed on the inside of an electronically controlled door in the escape route. This sign must be affixed for identification of the Emergency Open push-button.

## Note!

**Protection rating IP30 must be achieved:** Switch boxes which achieve a minimum protection rating of IP30 must be used for the installation.

## Intended use

Electrical locking devices of doors along escape routes are intended for use in the commercial sector.

The product must be installed very close to the escape door. It is suitable for surface mounting.

The product has been designed for safeguarding escape routes and has been tested to the requirements specified in the German guidelines on electrical locking systems for doors in escape routes (EltVTR) and DIN EN 13637:2015.

Different uses or combinations of devices not described in the approval are not permitted (“Warranty, disposal”, page 66).

*ASSA ABLOY Sicherheitstechnik GmbH* can provide the necessary planning information for approved solutions and the device combinations required for your application. The usage must be coordinated with the requirements of the building inspectorate. Contact the competent building authority for this purpose.

It must be possible to disconnect the device from the power supply circuit at any time using an easily accessible energy-isolation device.

If malfunctions occur in the device during operation or during one of the prescribed tests, the device must be taken out of operation immediately.

Compliance with all relevant requirements of the building inspectorate is mandatory for use, particularly with respect to the

- coordination of the safety concept with the competent building authority and
- modifications of door elements.

The device is suitable for installation, configuration and use, according to these instructions. Any use differing from these is deemed to be non-intended use; device combinations which are not described are not permitted.

## Cable selection

The conductor cross-section must be selected so that the voltage on the locking part is no more than 10% below the specified rated voltage of the locking part at full load and take into account all other losses, such as the voltage drop on the supply line.

# Scope of delivery

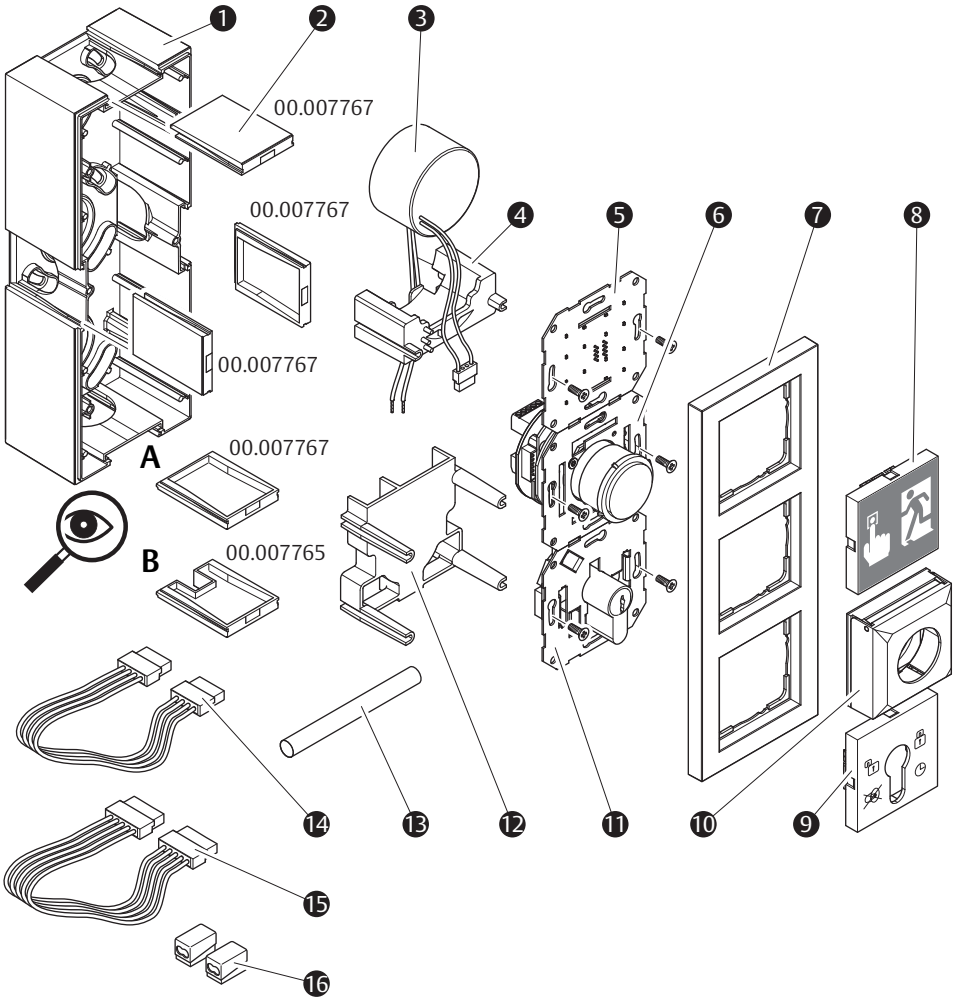
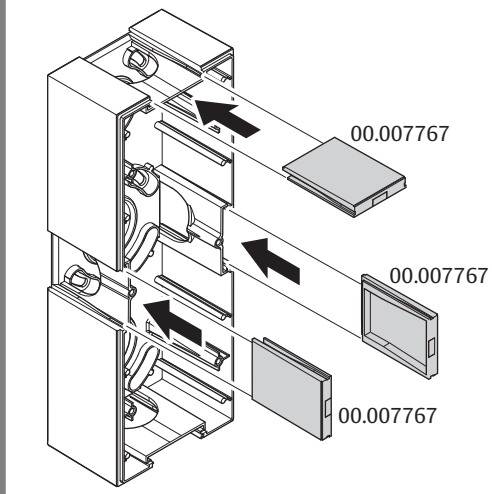
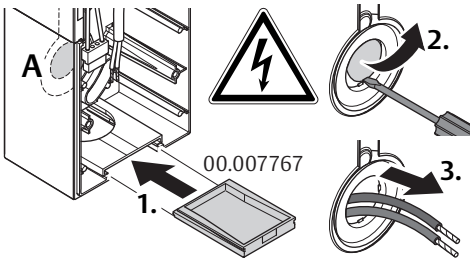


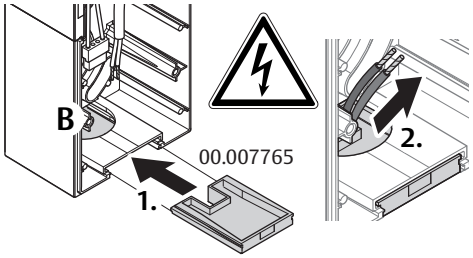

*Fig. 2: Scope of delivery*

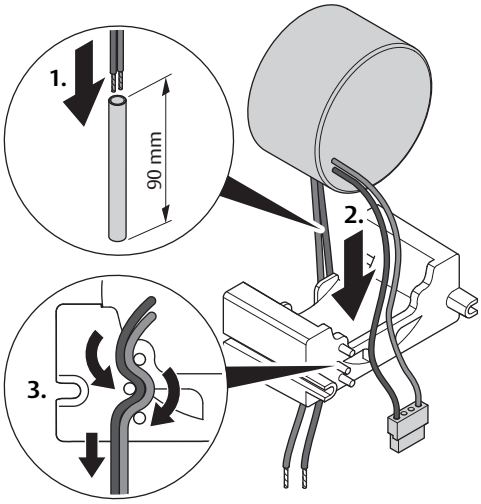
| Position | Description | |
|---|---|---|
| ❶ | Casing | |
| ❷ | Insert plates | **A** – The cable entry is to the rear. The housing is sealed at the bottom.<br>**B** – Cable entry is downwards. The housing has an inserted cable entry at the bottom. |
| ❸ | Power supply unit | |
| ❹ | Bracket for power supply unit | |
| ❺ | Illuminated emergency sign<br>Optional: without function | |
| ❻ | Emergency Open button | |
| ❼ | Cover frame | |
| ❽ | Cover for illuminated emergency sign<br>Optional: Blank cover | |
| ❾ | Cover for key switch | |
| ❿ | Cover for Emergency Open button | |
| ⓫ | Key switch with locking cylinder | |
| ⓬ | Inner protective cover to separate 230 V cable connector and locking cylinder | |
| ⓭ | Hose for insulating 230 V wires | |
| ⓮ | Connection cable SYSCON 4 | |
| ⓯ | Connection cable SYSCON 5 | |
| ⓰ | 230 V wire connector | |

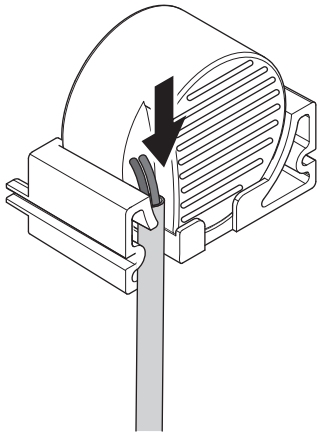
# Surface-mounted

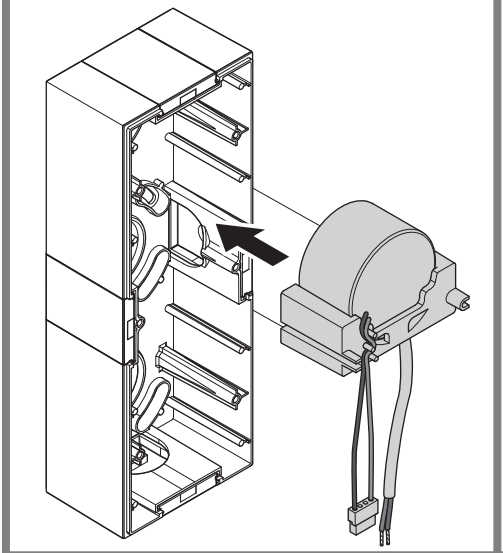


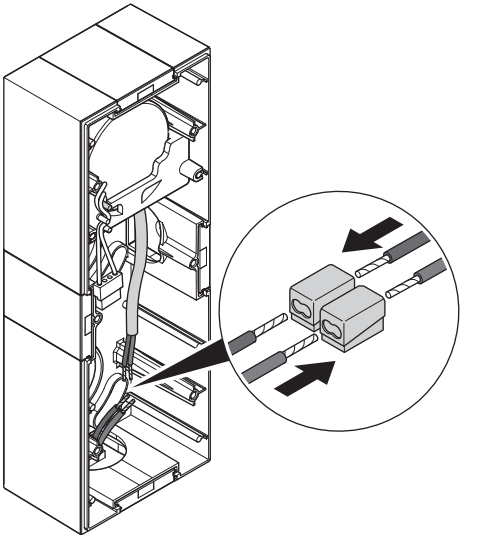



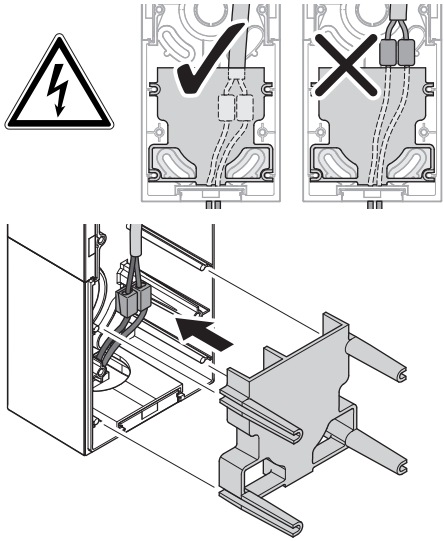



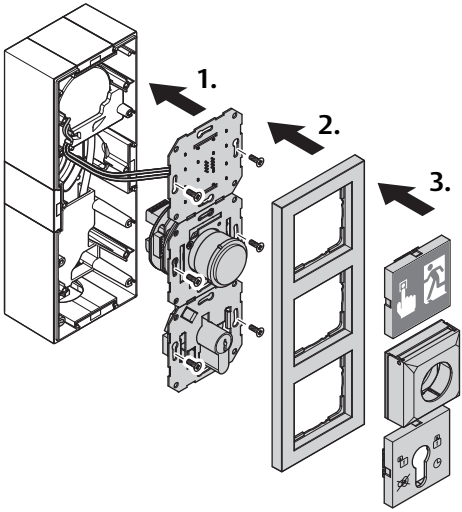



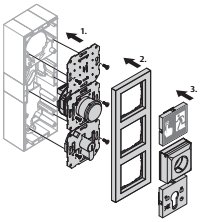


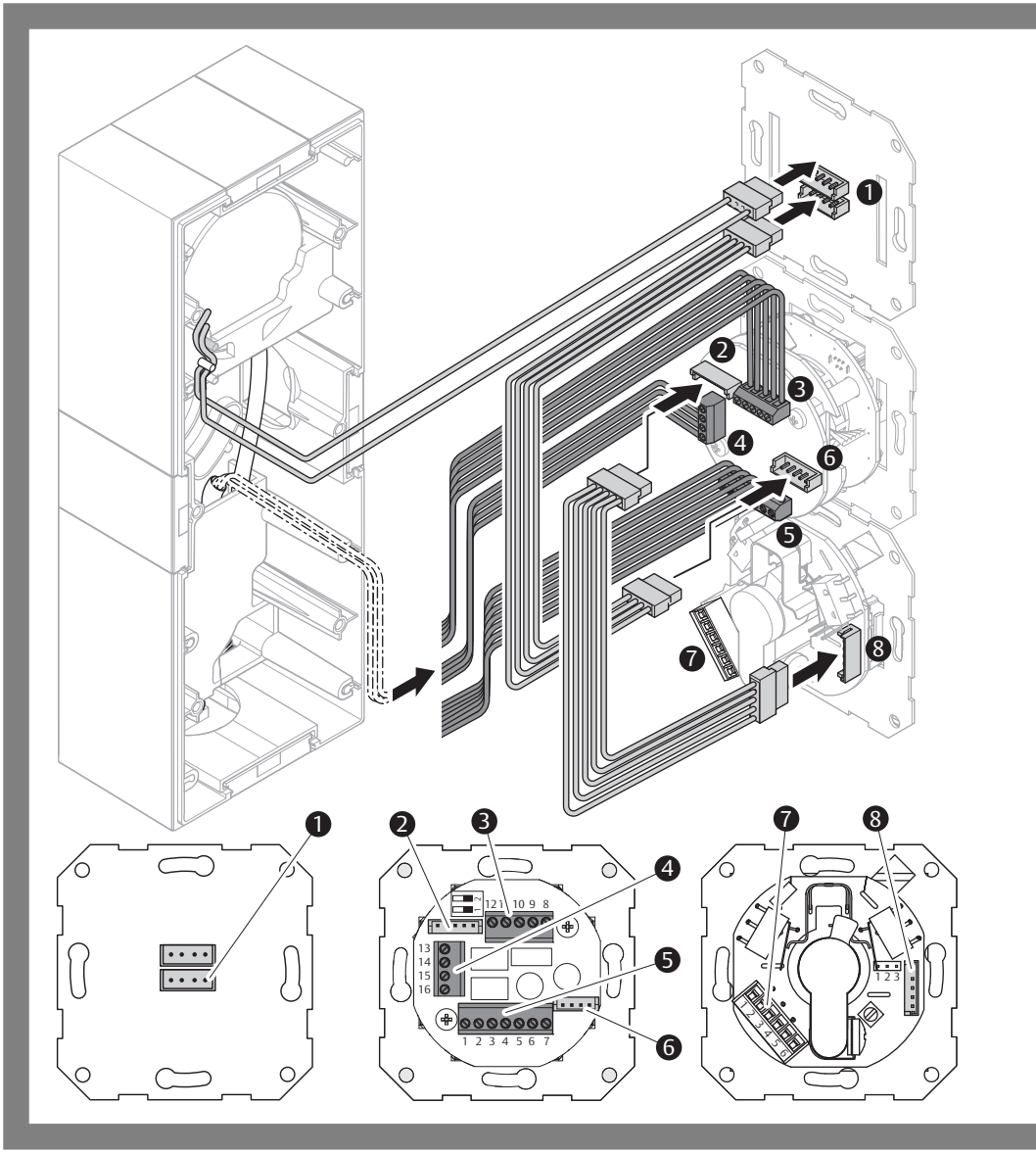





1.
2.
3.

# Surface-mounted – connection (with illuminated emergency sign)





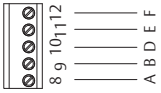
**Illuminated emergency sign (optional)**

| | | |
|---|---|---|
| ❶ | SYSCON 4 | 1385EVL4 |

**Escape door module/Emergency Open button**

| | | |
|---|---|---|
| ❷ | SYSCON 5 | 1385EVL5 |

❸



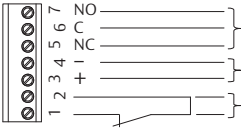

Connection of a locking element
(see manual D00470xx)

❹


TS Bus

Universal input

❺




Potential-free relay contact 30 V / 1 A

Voltage supply or via SYSCON4

Jumper, fire alarm system (FAS)

- with fire alarm system: DIP switch 2 OFF
- without fire alarm system: DIP switch 2 ON

with FAS 


without FAS 


When connecting a fire alarm system as per DIN EN 13637:2015: Via 1386BMA-01 fire alarm system connection module, 24 VDC

| | | |
|---|---|---|
| ❻ | SYSCON 4 | 1385EVL4 |

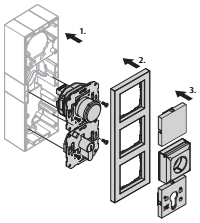
**Key switch module**

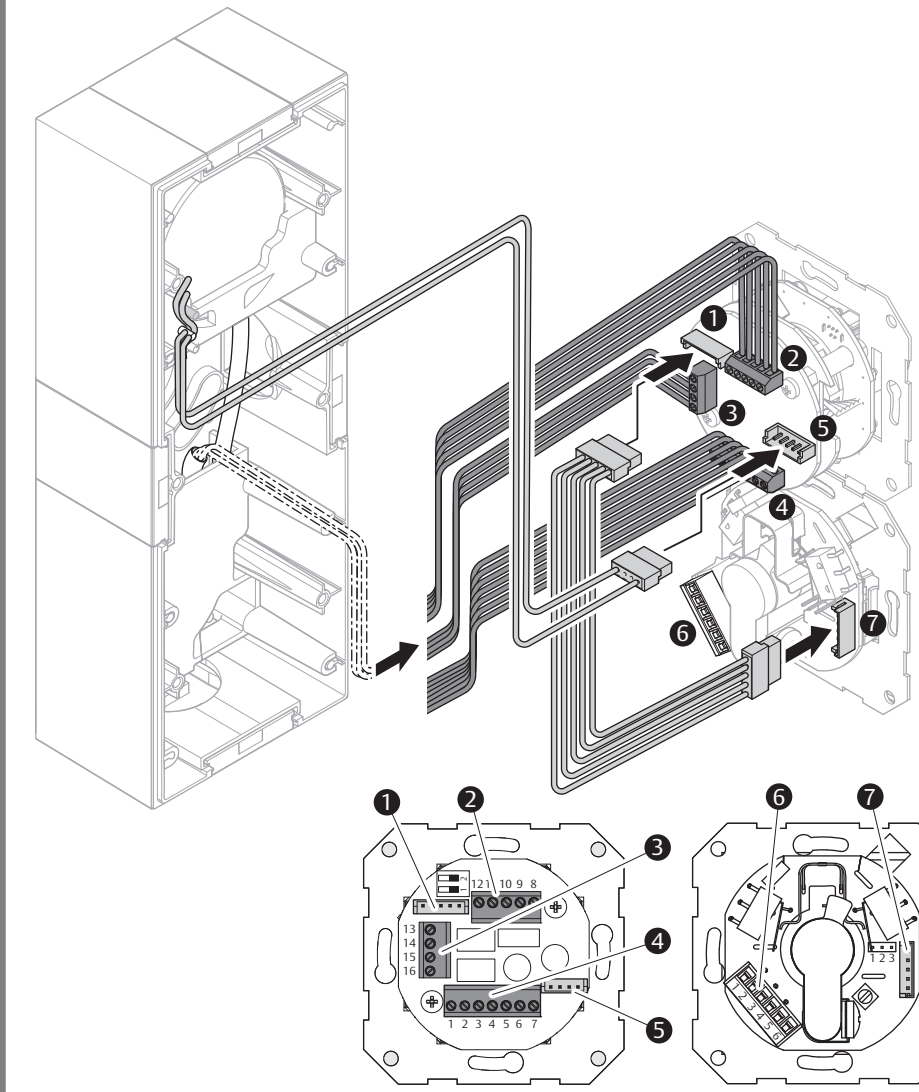
❼


Optional:
Connection for an external controller

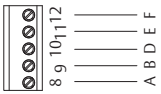
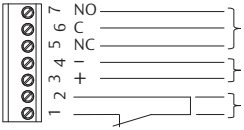
| | | |
|---|---|---|
| ❽ | SYSCON 5 | 1385EVL5 |

# Surface mounted – connection (with blank cover)



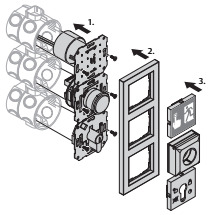
## Escape door module/Emergency Open button

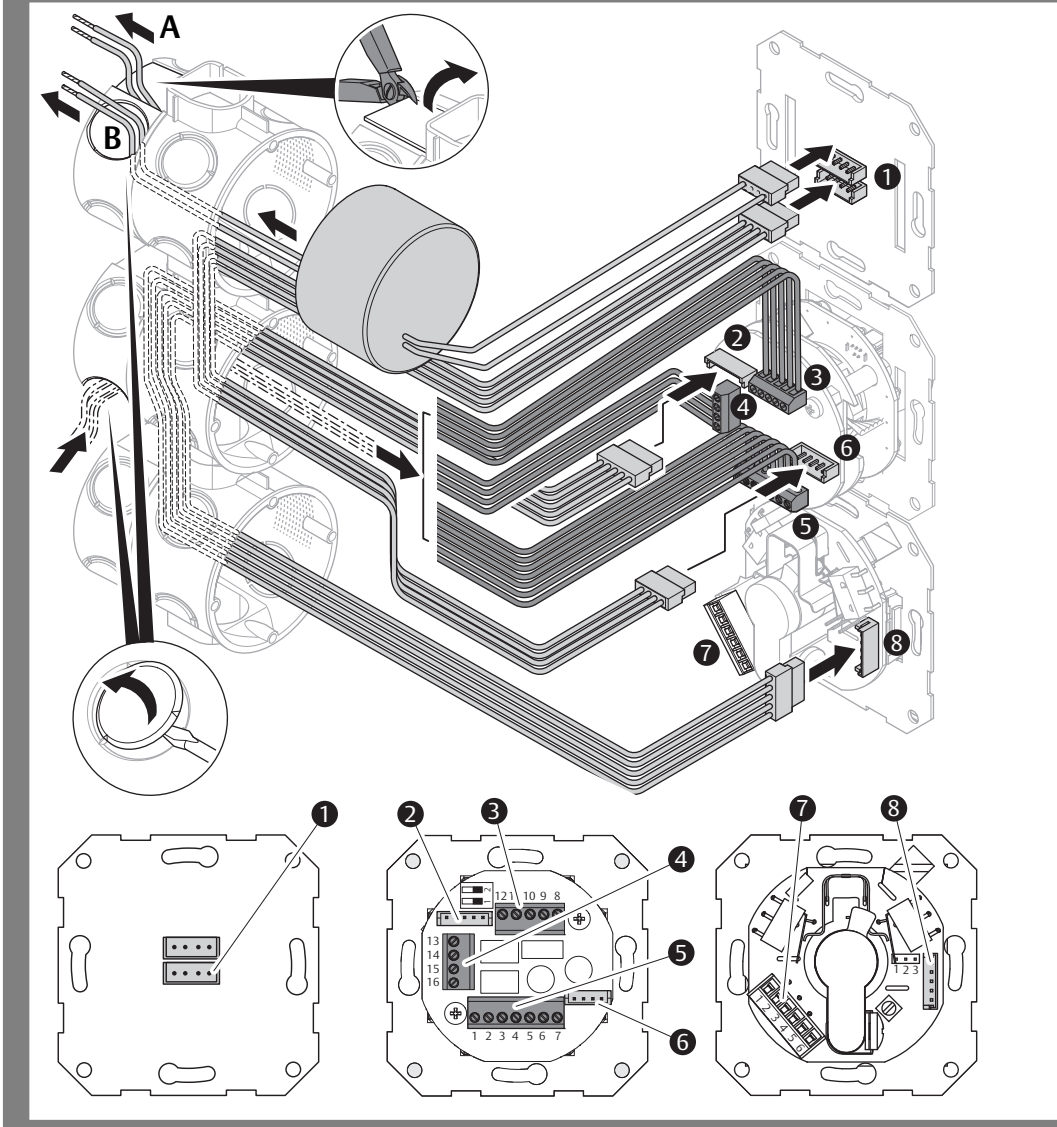
| | | |
|---|---|---|
| ❶ | SYSCON 5 | 1385EVL5 |
| ❷ |  | Connection of a locking element<br>(see manual D00470xx) |
| ❸ |  | TS Bus<br>Universal input |
| ❹ |  | Potential-free relay contact 30 V / 1 A<br>Voltage supply or via SYSCON4<br>Jumper, fire alarm system (FAS)<br>· with fire alarm system: DIP switch 2 OFF<br>· without fire alarm system: DIP switch 2 ON<br>with FAS  without FAS  <br>When connecting a fire alarm system as per DIN EN 13637:2015: Via 1386BMA-01 fire alarm system connection module, 24 VDC |
| ❺ | SYSCON 4 | 1385EVL4 |

## Key switch module

| | | |
|---|---|---|
| ❻ |  | Optional:<br>Connection for an external controller |
| ❼ | SYSCON 5 | 1385EVL5 |

# Flush mounted – connection (with illuminated emergency sign)



**Illuminated emergency sign (optional)**

❶ SYSCON 4 — 1385EVL4

**Escape door module/Emergency Open button**

❷ SYSCON 5 — 1385EVL5

❸

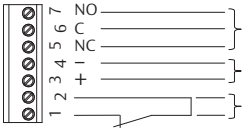

Connection of a locking element
(see manual D00470xx)

❹


TS Bus

Universal input

❺




Potential-free relay contact 30 V / 1 A

Voltage supply or via SYSCON4

Jumper, fire alarm system (FAS)

- with fire alarm system: DIP switch 2 OFF
- without fire alarm system: DIP switch 2 ON

with FAS 


without FAS 


When connecting a fire alarm system as per DIN EN 13637:2015: Via 1386BMA-01 fire alarm system connection module, 24 VDC

❻ SYSCON 4 — 1385EVL4

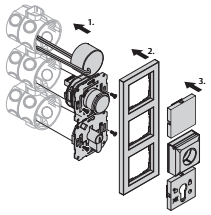
**Key switch module**

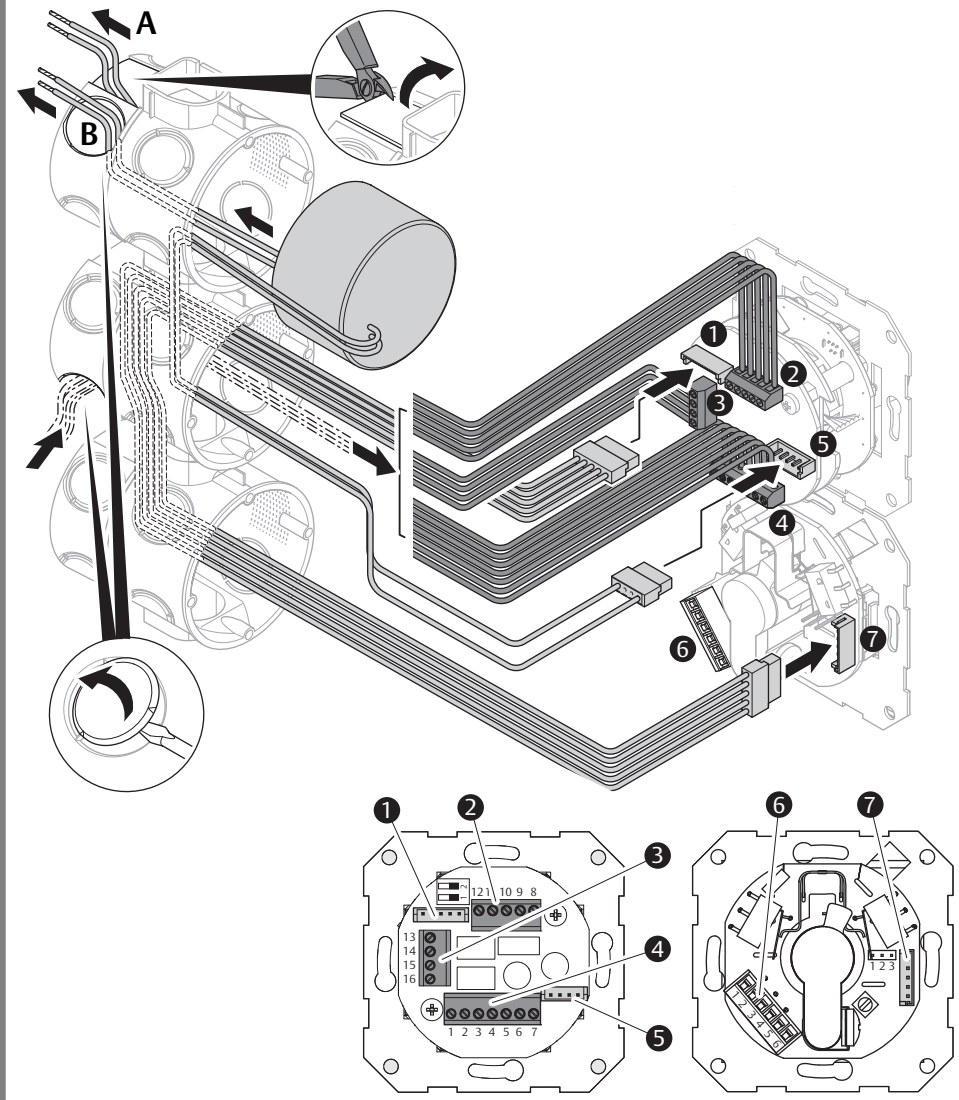
❼


Optional:
Connection for an external controller

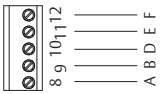
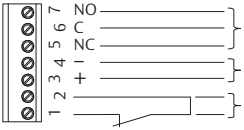
❽ SYSCON 5 — 1385EVL5

# Flush mounted – connection (with blank cover)



**Escape door module/Emergency Open button**

| | | |
|---|---|---|
| ❶ | SYSCON 5 | 1385EVL5 |
| ❷ |  | Connection of a locking element<br>(see manual D00470xx) |
| ❸ |  | TS Bus<br>Universal input |
| ❹ |  | Potential-free relay contact 30 V / 1 A<br>Voltage supply or via SYSCON4<br>Jumper, fire alarm system (FAS)<br>· with fire alarm system: DIP switch 2 OFF<br>· without fire alarm system: DIP switch 2 ON<br>with FAS  without FAS  <br>When connecting a fire alarm system as per DIN EN 13637:2015: Via 1386BMA-01 fire alarm system connection module, 24 VDC |
| ❺ | SYSCON 4 | 1385EVL4 |

**Key switch module**

| | | |
|---|---|---|
| ❻ |  | Optional:<br>Connection for an external controller |
| ❼ | SYSCON 5 | 1385EVL5 |

## Replacing the profile half cylinder (locking cylinder)

### Warning!

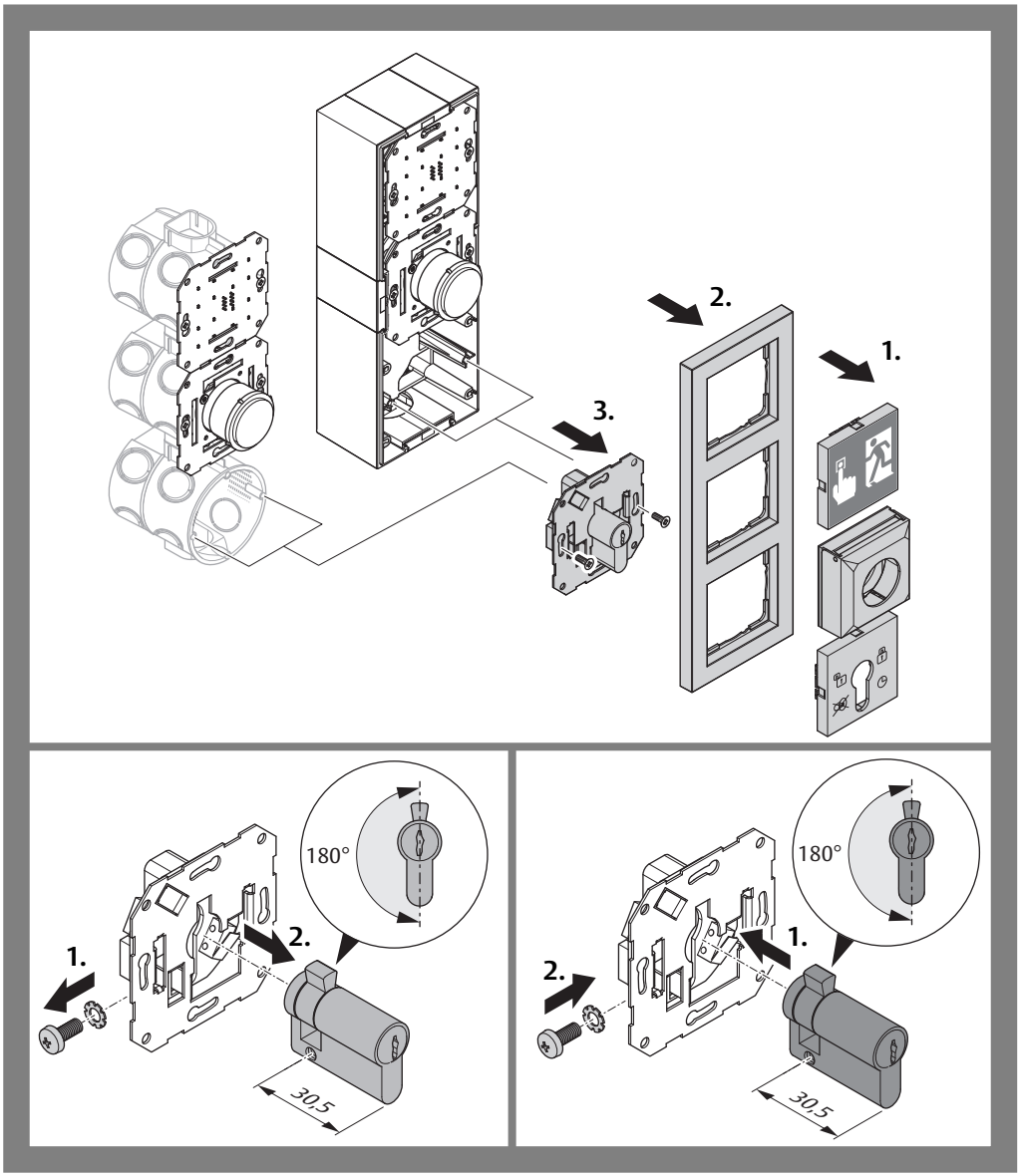
**Risk of death due to electric current:** Contact with electricity can cause serious injury or death.
The product may only be opened by a qualified electrician with ASSA ABLOY-certified expertise in escape-door controls in accordance with the building authority requirements for electrical locking of doors in escape routes. The electrician is obliged to observe the recognized rules of technology, test regulations and to update this state of knowledge on an ongoing basis.

- Have assembly and installation work carried out by an ASSA ABLOY-certified electrician.

1 Switch off the power supply.
  1.1 Disconnect the device from the power supply.
  1.2 Secure the voltage supply against being switched on again.
  1.3 Make sure that the device is deenergised.
2 Dismantle all components until the key switch module is exposed (Fig. 3).
3 Loosen the fixing screw that holds the locking cylinder in place.
4 Pull the profile half cylinder out towards the front.
  4.1 Rotate the cam upwards (180° position).
  4.2 Pull the locking cylinder out toward the front.
5 Replace it with a suitable new cylinder.
6 Fasten the cylinder with the fixing screw.
7 Check the function of the cam by closing to the left and right.
8 Reassemble all components.
9 Switch the voltage supply on again.
10 Perform a final functional check.

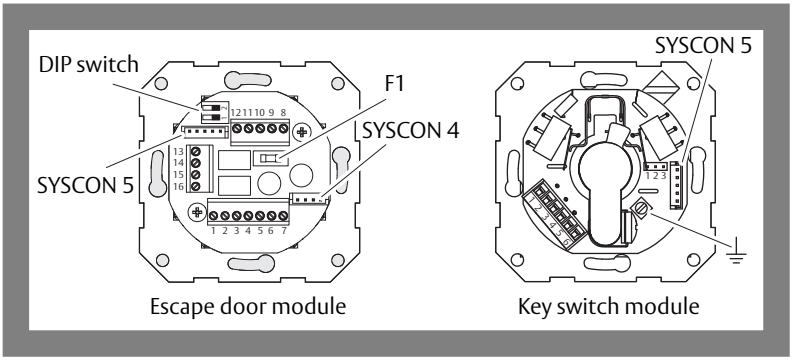
⇨ You have replaced the profile half cylinder.

*Fig. 3:*
*Replacing the profile half cylinder*


1.
2.
3.
180°
1.
2.
30,5
180°
2.
1.
30,5

## View of circuit boards

*Fig. 4: View of circuit boards*




**DIP switch 1**

DIP switch 1 is set to OFF at the factory.

*Tab. 1: DIP switch 1*

| Button | Function | OFF | ON |
|---|---|---|---|
| 1 | TS bus: Master/Slave (***1385G***) | **Slave** (For stand-alone operation **without** I/O extension and networked operation) | **Master** with Address 1 *) (For stand-alone operation **with** I/O extension) |

*) If an I/O extension is used, this must be assigned to address *2*.

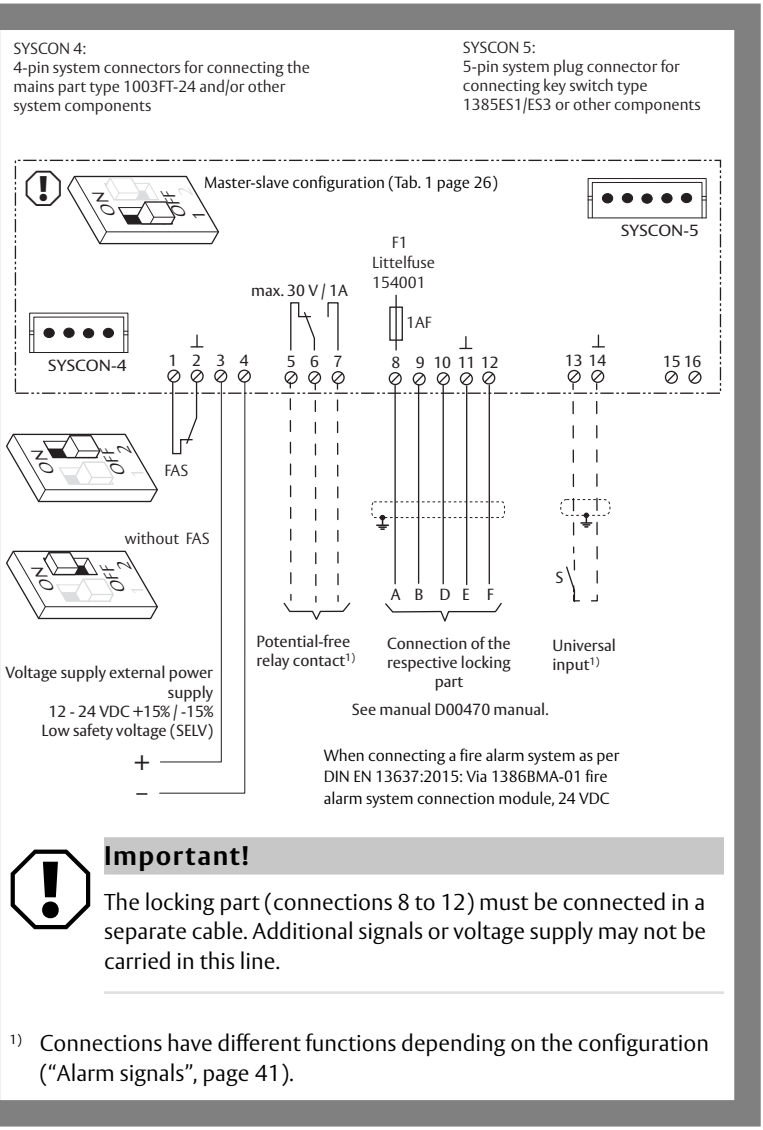
**DIP switch 2**

DIP switch 2 is set to ON at the factory.

For setting DIP switch 2, see Fig. 5 Page 27 and Fig. 6 Page 28.

## Individual escape door module 1384E2N

*Fig. 5: Wiring diagram 1384E2N*



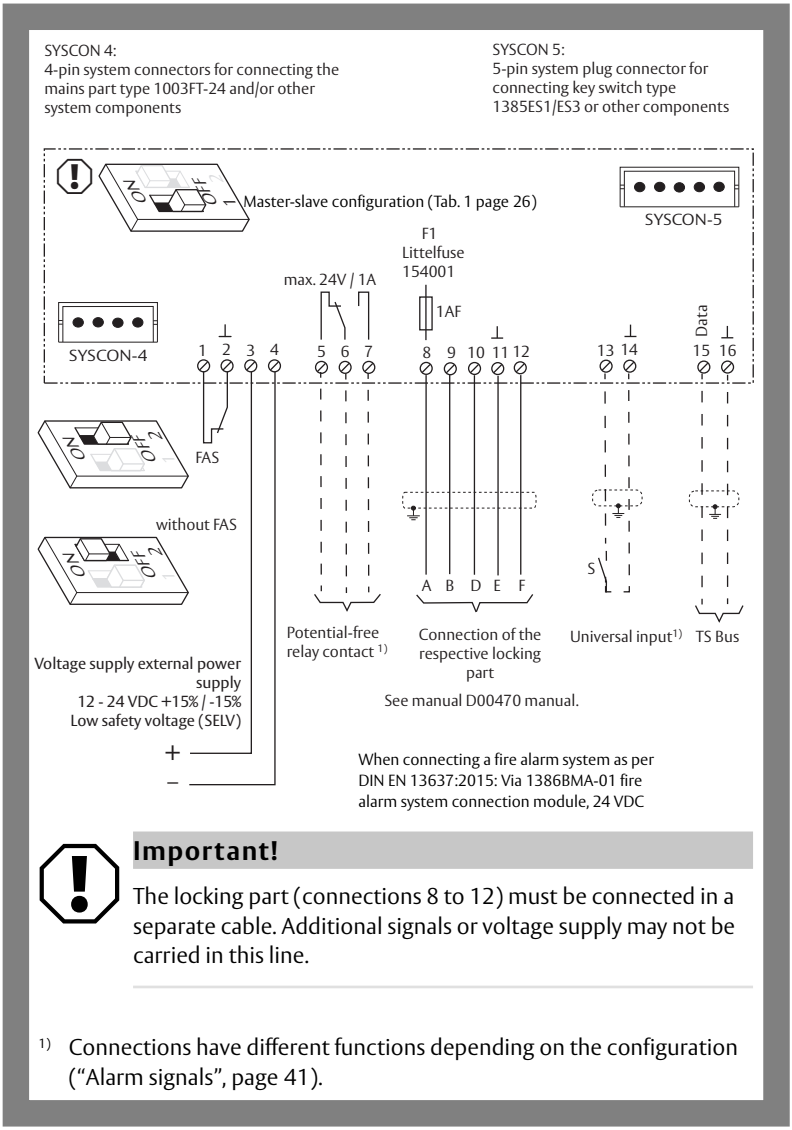

**Important!**

The locking part (connections 8 to 12) must be connected in a separate cable. Additional signals or voltage supply may not be carried in this line.

1) Connections have different functions depending on the configuration (“Alarm signals”, page 41).

## Individual escape door module 1385E2N

*Fig. 6: Circuit diagram 1385E2N*



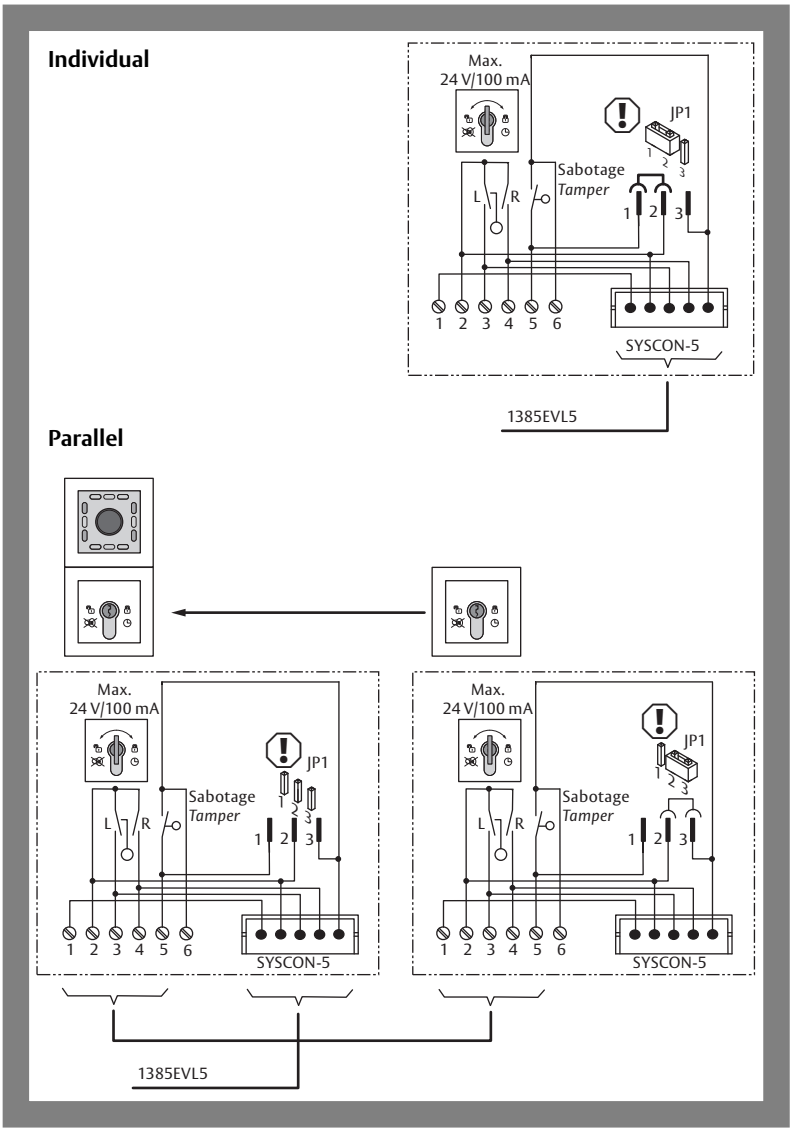

**Important!**

The locking part (connections 8 to 12) must be connected in a separate cable. Additional signals or voltage supply may not be carried in this line.

1) Connections have different functions depending on the configuration (“Alarm signals”, page 41).

## Key switch module 1385ES3

*Fig. 7:*
*Wiring diagram*
*1385ES3*



### I/O extension module 901-20

The *1385G* device can be extended with the I/O extension 901- 20 to include further switching operations.

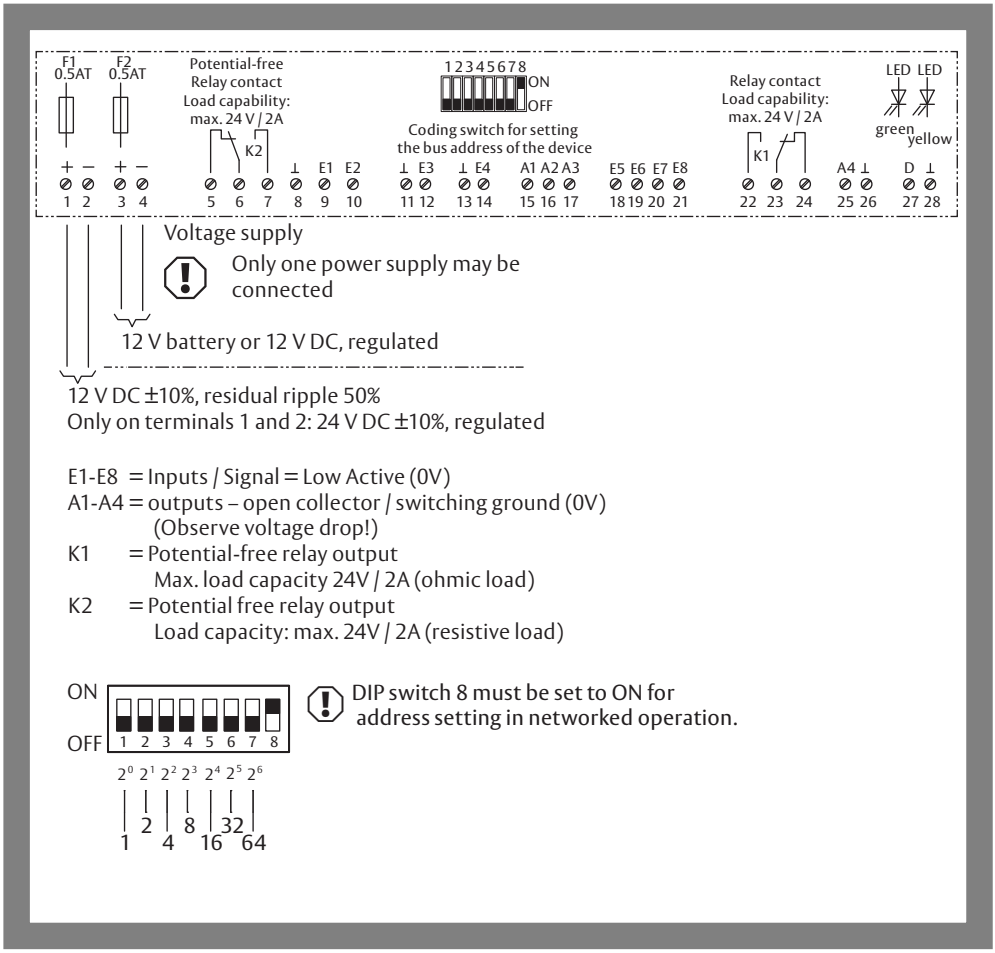
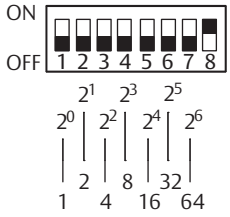



*Fig. 8: Wiring diagram*

*Tab. 2: Configuration in combination with 1385G*

| DIP switch | Networked operation | Stand-alone operation |
|---|---|---|
| 1 | Address | OFF |
| 2 |  | ON |
| 3 | | Adjust profile (Tab. 3) |
| 4 | | |
| 5 | | OFF |
| 6 | | OFF |
| 7 | | OFF |
| 8 | (DIP 8 = ON)<br>Only with TS bus controller | (DIP 8 = Off)<br>Only in master operation of *escape door control module 1385G* |
| | Master-slave configuration (TS-Bus 1385G), see Tab. 1 Page 26 | |

**Note!**

**When configuring via FT Manager, select the correct profile:** If configuration is carried out using *FT Manager*, Profile 0 ("Function templates" in FT Manager) must be selected as changes are only saved there.

*Tab. 3: Profiles in stand-alone mode*

| Profile | DIP switch | | Function (Page 32 onwards) |
|---|---|---|---|
| | 3 | 4 | |
| 0 | OFF | OFF | Link to higher level systems (factory setting) |
| 1 | OFF | ON | Door drive |
| 2 | ON | OFF | Door control |
| 3 | ON | ON | Interlock |

**Profiles and pin assignment of the I/O extension 901-20**

*Tab. 4: Profile 0 – Link to higher level systems*

| Connections | Description | Connections | Description |
|---|---|---|---|
| E1 | Fire alarm system (inverse) | K1 | Released/locked signal |
| E2 | Burglar alarm system/ Interlock | K2 | Alarm signal (inverse) |
| E3 | Clock | A1 | - |
| E4 | Lock | A2 | - |
| E5 | Unlock | A3 | - |
| E6 | Release with delay | A4 | - |
| E7 | Temporary release | | |
| E8 | - | | |

*Tab. 5: Profile 1 – Door drive*

| Connections | Description | Connections | Description |
|---|---|---|---|
| E1 | Fire alarm system (inverse) | K1 | Door drive – Automatic operation |
| E2 | Burglar alarm system/ Interlock | K2 | Door drive - Activation |
| E3 | Clock | A1 | - |
| E4 | Lock | A2 | - |
| E5 | Unlock | A3 | - |
| E6 | Release with delay | A4 | - |
| E7 | Temporary release | | |
| E8 | - | | |

*Tab. 6: Profile 2 – Door drive*

| Connections | Description | Connections | Description |
|---|---|---|---|
| E1 | Fire alarm system (inverse) | K1 | Electric strike/motorised lock |
| E2 | Intrusion alarm system/ interlock | K2 | Holding magnet |
| E3 | Clock | A1 | - |
| E4 | Lock | A2 | - |
| E5 | Unlock | A3 | - |
| E6 | Release with delay | A4 | - |
| E7 | Temporary release | | |
| E8 | - | | |

*Tab. 7: Profile 3 – Interlock*

| Connections | Description | Connections | Description |
|---|---|---|---|
| E1 | Fire alarm system (inverse) | K1 | Door is interlocked |
| E2 | Intrusion alarm system/ interlock | K2 | Door is closed and locked (inverse) |
| E3 | | A1 | Block interlock |
| E4 | | A2 | |
| E5 | | A3 | |
| E6 | | A4 | |
| E7 | | | |
| E8 | | | |

## Wire-interconnected interlock (1385G)

### Note!

**Escape-route securing system according to the fail-unlocked principle:** If the power fails or is switched off, all doors are unlocked and can be opened at the same time.

#### Function

The example describes a basic interlock door system with an emergency exit function without a central bus master (stand-alone operation).

If a door is temporarily unlocked or released, the corresponding door or several doors are blocked. The blocked doors cannot be opened.

If the disengaged door is not opened before the pre-set temporary release interval has elapsed, it is automatically locked again.

#### Requirements

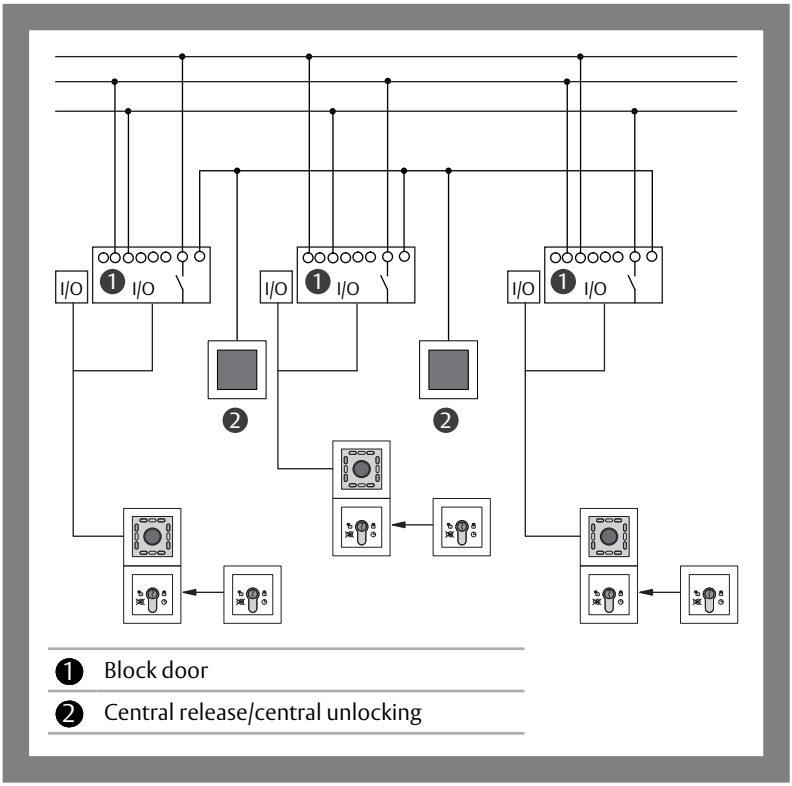
- The *escape door terminal 1385G* must be set to *master* in stand-alone operation ("DIP switch 1", page 26).
- *Profile 3* must be set on *I/O extensions 901–20* ("I/O extension module 901-20", page 30).


*Tab. 8: Functions of I/O extensions 901–20*

| Function | Description |
|---|---|
| Output functions (A1 to A4) | Block interlock. The corresponding opposite door(s) is/are blocked. |
| Output function K1 and K2 | 'Door blocked' and 'Door closed and locked' indicator displays. |
| Input function E1 | Central release (for opening interlock in the event of a fault). The door is released centrally and a corresponding alarm is triggered. |
| Input functions (E2 to E8) | Block door. |

**Circuit diagram overview**

*Fig. 9:*
*Wiring diagram*



**Detailed circuit diagram (example of use)**

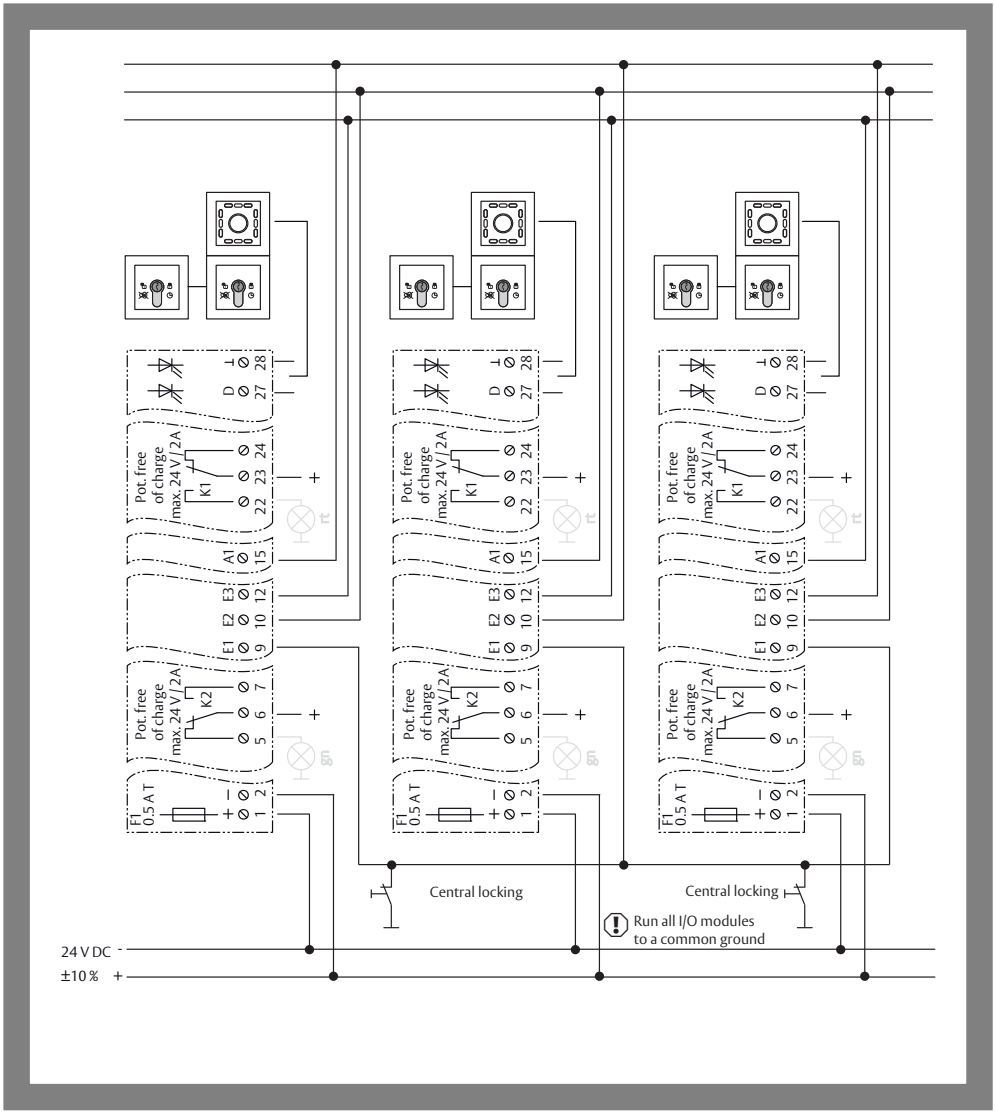
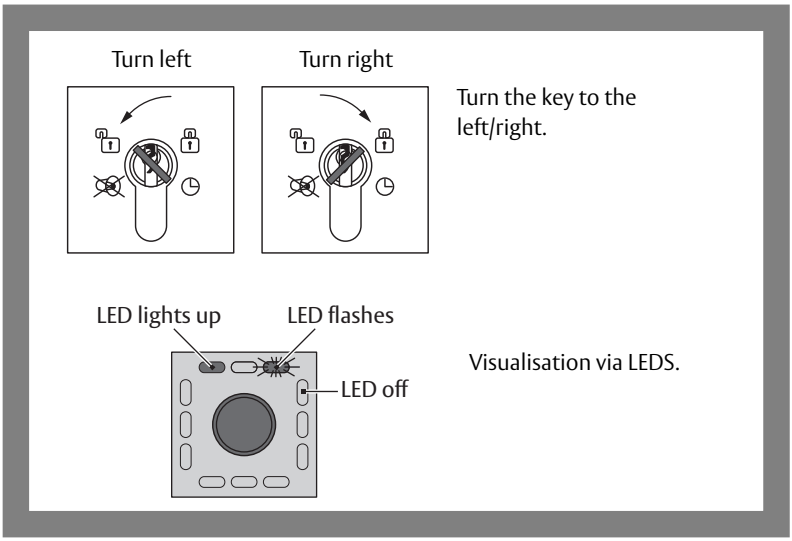



*Fig. 10: Wiring diagram in detail*

## Explanation of symbols

*Fig. 11: Symbols*

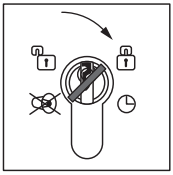


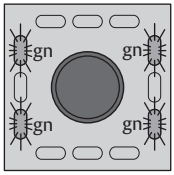
## Temporary release

The locked door can be temporary released for the pre-set duration.

- The door can be opened during the temporary release time.
- The door can remain open for the duration of the door monitoring interval.
- Once the door monitoring interval is exceeded, the pre-alarm is triggered.
- The times can be set (“Configuring times”, page 48).

### Unlocking door for temporary release time



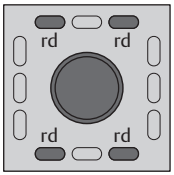



1 Push the key to the right:

⇨ The door is released and can be opened.

⇨ The green LEDs flash at a frequency of 2 Hz.

### Locking door during door monitoring time




1 Close the door within the preset door monitoring time.

⇨ The four red LEDs light up.

⇨ The door is locked.

## Pre-alarm

The pre-alarm is a reminder signal. The signal has a time limit. The times can be set (“Configuring times”, page 48).

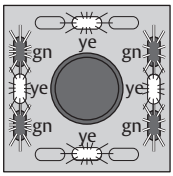
**Requirements for a pre-alarm**

- After a temporary release when the opened door is not closed again within the pre-set temporary release time.
- After a permanent release mode and a subsequent pre-set temporary release time interval have ended and the door is not closed.

If the door is closed within the pre-alarm interval, the pre-alarm ends and the door is locked.

An alarm occurring during a temporary release or pre-alarm interval (e.g. Emergency Open button was pressed) will be evaluated and signalled.

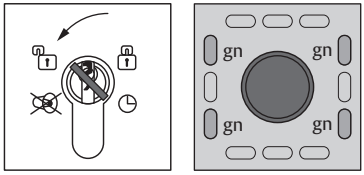
**Pre-alarm is displayed**




⇨ The reminder signal is an audible intermittent signal.
⇨ The green and yellow LEDs flash for 200 ms.
⇨ Then the green LEDs light up for 100 ms.
⇨ After this, all LEDs go out for 100 ms.
⇨ After the pre-alarm interval has elapsed, an alarm is triggered.

## Permanent release

### Switching on the permanent release




1 Push the key to the left:

⇨ The four green LEDs light up.

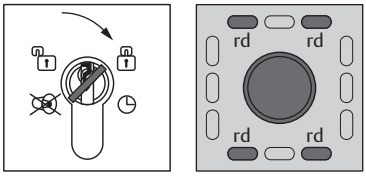
⇨ The door is permanently unlocked.

## Locking

Pre-conditions for locking:

- The door is closed.
- No alarm signal is present.

### Lock




The door can be locked.

1 Close the door.

2 Push the key to the right:

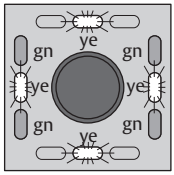
⇨ The four red LEDs light up.

⇨ The door is locked.

## Danger alarm

A danger alarm is triggered when:
- An Emergency Open button is pressed.
- it is activated by a fire alarm system.

**Danger alarm is reported**




⇨ The door is released immediately.
⇨ An acoustic danger alarm signal is emitted.
⇨ The green LEDs light up.
⇨ The yellow LEDs and the Emergency Open button flash.

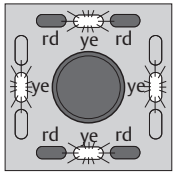
1 Acknowledge the alarm

## Tamper alarm

The door remains locked in the event of a tamper alarm. When a cover is replaced, the LED display and the audible alarm continue to function.

The tamper alarm is triggered by:
- removing the cover of the emergency button
- By a door contact when a door is forced open
- When the cover on the key switch module is removed
- When the locking component is tampered with

**Tamper alarm is reported**

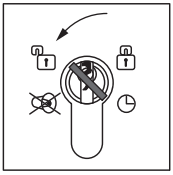


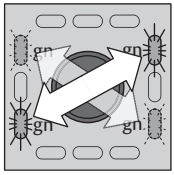

⇨ An acoustic tamper alarm signal is emitted.
⇨ The red LEDs light up.
⇨ The yellow LEDs flash.

1 Acknowledge the alarm

## Acknowledging an alarm

### Acknowledging an alarm and displaying the cause






1 Push the key to the left:

⇨ The alarm is acknowledged.

⇨ The four green LEDs flash in pairs crosswise.

⇨ The alarm signal is indicated by an LED sequence pattern (“Technical data, maintenance”, page 63).

The LED indicator display will remain active and the door cannot be locked while the alarm is present.

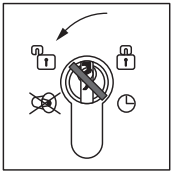
2 Eliminate the cause of the alarm (Tab. 9).

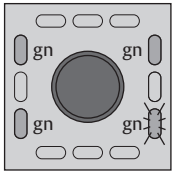
*Tab. 9: Alarm criteria*

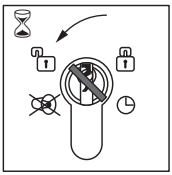
| Additional indicator displays | | Alarm criteria |
|---|---|---|
| Emergency Open button | LEDs | |
| Dark | – | Centrally operated release |
| Flashes | – | EMERGENCY-OPEN |
| Lights up | – | Central EMERGENCY-OPEN activated |
| Lights up | UPPER yellow LED lights up | External emergency release (fire alarm system) |
| Lights up | LOWER yellow LED lights up | Tampering with terminal |
| Lights up | LEFT-HAND and RIGHT-HAND LEDs flash | Device or I/O module offline |

## Cause of alarm

**Displaying cause of alarm**





An alarm signal is present.

1 Push the key to the left:

⇨ The alarm is acknowledged.

⇨ Three green LEDs light up.

⇨ The lower right-hand green LED flashes.

2 Press and hold the key to the left.

⇨ The alarm signal is indicated by an LED sequence pattern (Tab. 10).

3 Eliminate the cause of the alarm.

⇨ Three green LEDs light up and the lower right-hand green LED flashes.

*Tab. 10: Causes of alarms*

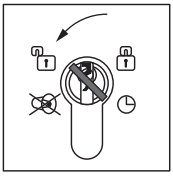
| Additional indicator displays | Cause of alarm |
|---|---|
| Right-hand yellow LED lights up | Door forced open / tampering |
| Left-hand yellow LED lights up | *Locked* feedback missing |
| Both yellow LEDs above and below light up. | Door open for too long |

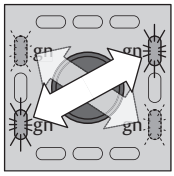
## Acknowledging a multiple alarm

Several alarm statuses can be evaluated and signalled at the same time.

The green LEDs continue to flash in pairs in a diagonal sequence if another alarm signal is still present after the alarm has been acknowledged. After all alarm conditions have been reset and the cause of the alarm has been rectified, the door can be locked.

**Acknowledging multiple alarms and displaying alarm causes**






1 Push the key to the left:

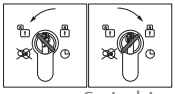
⇨ The alarm is acknowledged.

⇨ The four green LEDs flash in pairs crosswise.

⇨ The alarm message is visualised via LED sequence patterns (“Technical data, maintenance”, page 63).

2 Repeat the process until all alarms are acknowledged.

## General



Switching contacts (turn key switch to the left or right)

The *escape door control terminal 1385G* can also be configured within a building network using the *FT Manager* software (manual *D01255xx*).

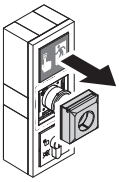
The escape door control terminal is configured with a key switch using the two switch contacts (turn key switch to the left or key switch to the right). The LEDs visualise the individual configuration modes and settings.

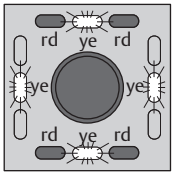
The values are stored permanently and are retain after a power failure.

# Configuring

## Activating configuration mode

### Triggering a tamper alarm





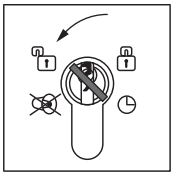

1 Unscrew the cover on the escape door module and remove it.

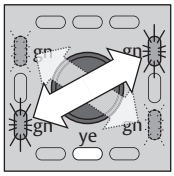
⇨ The tamper alarm will be triggered.

## Note!

**Tamper alarm:** The tamper alarm must remain active in order to access configuration mode.

### Activating configuration mode



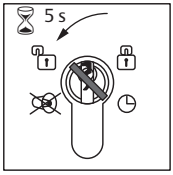


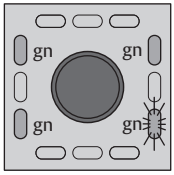

2 Push the key to the left:

⇨ The audible signal will stop.

⇨ The 4 green LEDs flash in pairs in a diagonal sequence.

⇨ The lower yellow LED will light up.



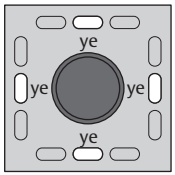




3 Turn and hold the key to the left

⇨ Three green LEDs light up.

⇨ The lower right-hand green LED flashes.

5 s




The display will change after 5 seconds.

⇨ The four yellow LEDs light up.

⇨ The configuration mode is now switched on.

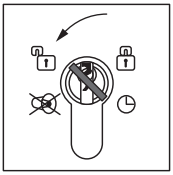
⇨ Configuration mode is switched on

## Menu on key switch

### Menu levels

Only one menu level is available (“Menu structure”, page 49). All menu items can be selected with a short left-click from this starting point. There are no other submenus.

**Advancing through menu items**



1 Push the key to the left.

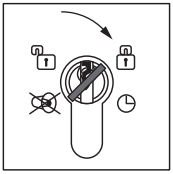
⇨ The following menu item has been selected.

⇨ The LED display changes.

⇨ A short audible signal acknowledges the key has been turned.

⇨ A long audible signal acknowledges each time an input is accepted.

**Defining settings in the menu**



1 Push the key to the right.

⇨ The LED display changes.

⇨ A short audible signal acknowledges the key has been turned.

## Configuring times

The individual times can be set for the following menus:
- Period of time system unlocked
- Temporary release time
- Pre-alarm time
- Alarm time
- Duration of the guidance signal.
- Activation delay

**Procedure**

1 Turn the key to the right and hold it.
Hold the key for the desired amount of time.

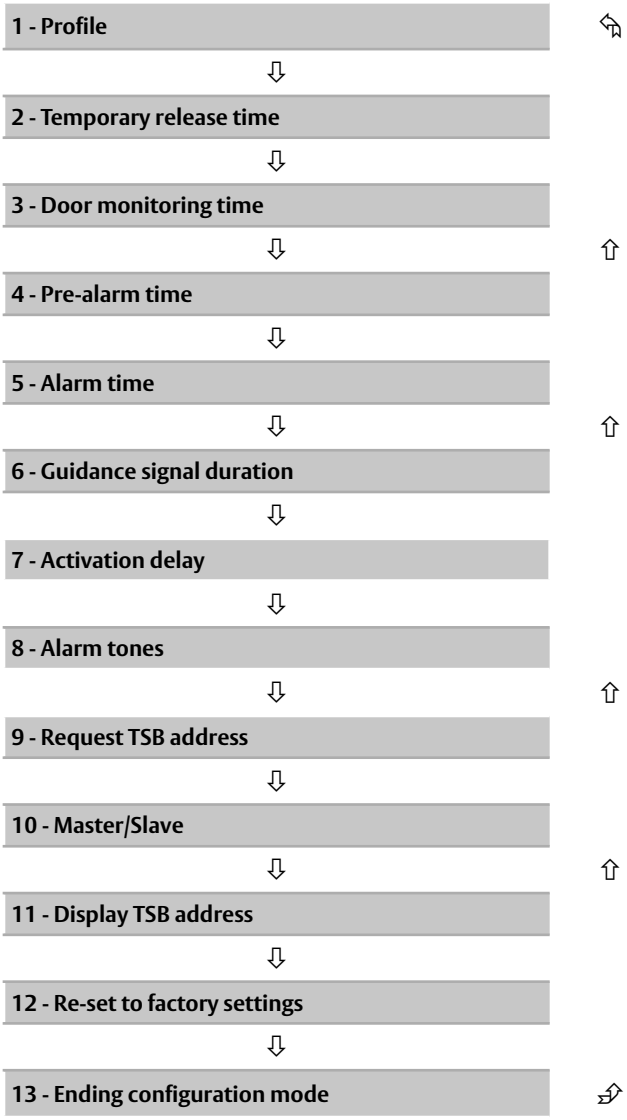
⇨ During that time, the four green LEDs “run” clockwise, one cycle each lasting one second.

⇨ An audible signal sounds for each second.

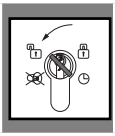
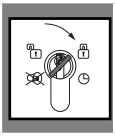
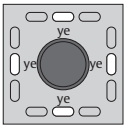
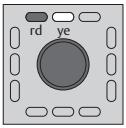
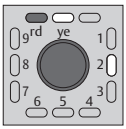
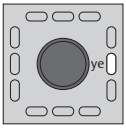
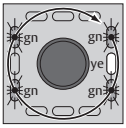
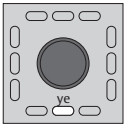
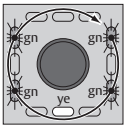
2 Once the desired time has been reached: turn the key to the left to save the time.

⇨ An audible signal sounds.

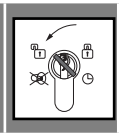
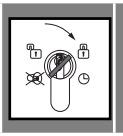
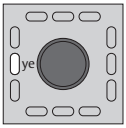
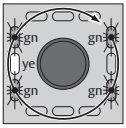
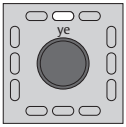
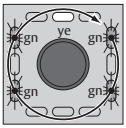
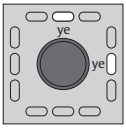
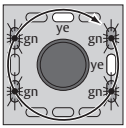
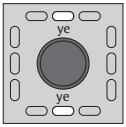
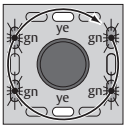
**Menu structure**



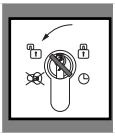
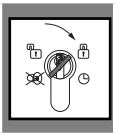
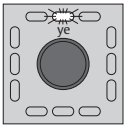
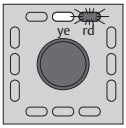
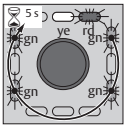
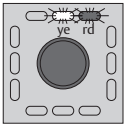
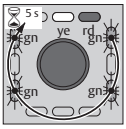
*Tab. 11: Menu items*

| Menu items |  | Description |  | Configuration |
|---|---|---|---|---|
| Start configuration mode | | “Configuring”, page 46 | | |
| Configuration mode switched on. |  | ⇨ The yellow LEDs light up. | | |
| 1 – Profile |  | Different profiles (**0** to **11**) can be selected with specially optimised pre-settings (“Profile settings”, page 57). |  | Turn<br>Decimal display<br>**0** = no LED<br>**1** = LED1 etc.<br><br>**10** = LED1 + 9<br>**11** = LED2 + 9 |
| 2 – Temporary release time |  | Door locked after temporary release time interval if the door remains closed. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 255 sec.) |
| 3 – Door monitoring time |  | The time interval starts after the door has been temporarily released and opened. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 3600 sec.) |

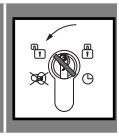
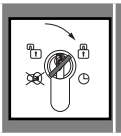
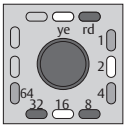
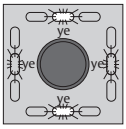
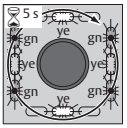
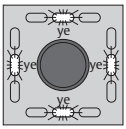
*Tab. 11: Menu items*

| Menu items |  | Description |  | Configuration |
|---|---|---|---|---|
| 4 – Pre-alarm time |  | Duration of pre-alarm until the device triggers the alarm. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 3600 sec.) |
| 5 – Alarm time |  | After the alarm interval has elapsed, the audible alarm device is switched off. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 255 Sec.) |
| 6 – Guidance signal duration |  | After the time has elapsed, the guidance signal is switched off. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 9999 Sec.) |
| 7 – Activation delay |  | When the key switch is actuated to the left: The door only unlocks when the key is held for the duration of the adjusted time. With the setting '0' there is no delay. |  | Hold<br>Time freely adjustable.<br>1 complete turn = 1 second<br>(max. 255 sec.) |

*Tab. 11: Menu items*

| Menu items |  | Description |  | Configuration |
|---|---|---|---|---|
| 8 – Alarm tones |  | | | No function assigned: Reserved for extension at a later date |
| 9 – Request TSB address |  | The door control bus address is requested the first time the device is used (*1385G*). |  | If the device is online (*1385G*):<br>1 Hold key in position for 5 sec. |
| | | The system then automatically issues the next free address (*1385G*). The device then automatically changes to the next but one menu item: "Display TSB address".<br>The address **1** is automatically displayed in the case of the *1384G*. | | The address is requested.<br>⇨ A long audible signal is emitted when the address is identified. |
| 10 – Master/ Slave |  | Display of current setting / address conflicts (*1385G*) ("Master/Slave", page 59).<br>Only the master is displayed in the case of the *1384G*. |  | Set device as master providing no other master is identified in the system (*1385G*).<br>1 Hold key in position for 5 sec. |

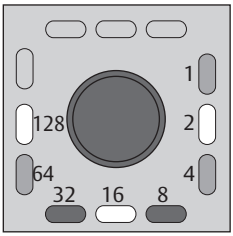
*Tab. 11: Menu items*

| Menu items |  | Description |  | Configuration |
|---|---|---|---|---|
| 11 – Display TSB address |  | Binary display of the door control bus address<br><br>Please read the 'Display TSB address, description' section. | | |
| 12 – Re-set to factory settings |  | The device has been re-set to factory settings.<br>⇨ The yellow LEDs flash alternately in pairs. |  | 1 Hold key in position for 5 sec.<br>⇨ A long audible signal follows. |
| 13 – End configuration mode |  | ⇨ The yellow LEDs flash. | | |

## Configuring the TSB address

**TSB address displays – binary code**

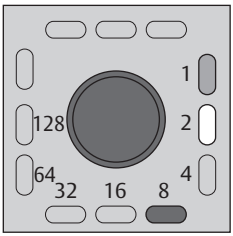
The TSB address is displayed on request as LED sample binary code:




Individual LEDs are assigned binary numbers. To determine the TSB address, the values assigned to the illuminated LEDs must be added together.

If no LED illuminates, the address is 0.

**Example**




⇨ The LEDs light up with the values 1 + 2 +8.
Adding up results in the TSB address 11.

### Changing the TSB address

For escape door terminal 1385G, the connection to a connected TSB controller must be disconnected.

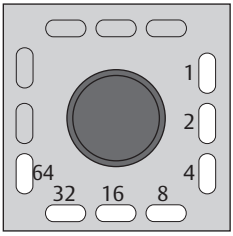
The participant address can be adjusted manually using the key switch.

The adjustment of the TSB address takes place in 6 steps:

1 Identify the desired LED sequence pattern of the TSB address.
2 Switch on configuration mode.
3 Turn on menu 9 “Change TSB Address”.
4 Set the LEDs according to the LED sequence pattern (=address).
5 Save the LED sequence pattern (=address).
6 Switch off the configuration mode.

⇨ You have changed the TSB address.

**Step 1: Determine the LED sequence pattern of the desired TSB address**



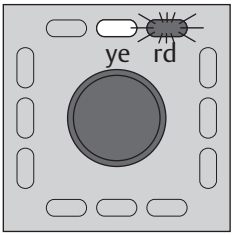

Each address from 0 to 255 can be displayed with the seven LEDs (“TSB address displays – binary code”, page 54).

1 If necessary, mark the desired LED sequence pattern in the illustration for assistance.

**Step 2: Activating configuration mode**

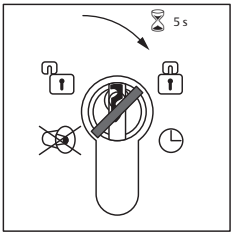
2 Switch to configuration mode (“Configuring”, page 46).

**Step 3: Switch on Menu 9 “Change TSB address”.**




1 Press 9 times to the left.

⇨ The top yellow LED illuminates the top right red LED blinks.




2 Press the key to the right and hold it for five seconds.

⇨ Four audible signals sound

⇨ The green LEDs illuminate in succession.

The display will change after five seconds.

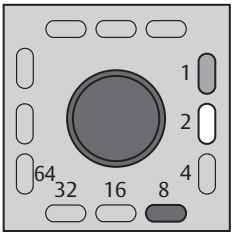
⇨ LEDs 1 to 64 immediately begin to illuminate in succession.

⇨ Now you can select or de-select the address values.

**Step 4: Adjust LEDs according to the LED sequence pattern (=address).**

You set each individual address value when the status of the corresponding LED has just changed.

The cycle begins again for LED 1 after each selection. You have several attempts to select or deselect the LEDs. If you do not select or de-select anything, the process cycles up to LED 64 and an audible signal sounds. The process starts again with LED 1.




The address 11 is set in this example. The LED sequence pattern is 1 + 2 + 8.

3 Briefly press the key to the right:
- **Select** address value: press immediately if the corresponding LED lights up:
- **Deselect** address value: press immediately if the corresponding LED goes out:

3.1 Example:
Turn the key to the right when:
- LED 1 lights up
- LED 2 lights up
- LED 4 goes out
- LED 8 lights up
- LED 16 goes out
- LED 32 goes out
- LED 64 goes out

**Step 5: Save LED sequence pattern (=address)**

When the LED sequence pattern matches the desired address.

4 Wait until the process has cycled through completely.

⇨ An audible signal sounds.

5 Briefly turn the key to the right once.

⇨ You will hear a long audible signal.

⇨ The green LEDs blink in succession.

**Step 6: Switch off configuration mode**

6 Exit configuration mode (“Ending configuration mode”, page 61).

## Profile settings

The available profiles are optimised default settings, which you can access. The parameters are adjusted at the factory.

These factory settings and the possible adjustment range are shown in the following table. All values in seconds.

*Tab. 12: Parameters*

| Parameters | Factory setting | Adjustable | |
|---|---|---|---|
| | | from | to |
| Temporary release | 5 | 1 | 255 |
| Hold-open function | 50 | 1 | 3600 |
| Monitoring | 60 | 1 | 3600 |
| Pre-alarm | 10 | 1 | 3600 |
| Alarm signal | 180 | 0 | 255 |
| Guidance signal | 600 | 0 | 9999 |
| Activation delay | 0 | 0 | 255 |

**Configuration using FT Manager (1385G – networked)**

If changes are made, you must always select Profile *0* (in *FT Manager* as it is the only place where changes can be saved.

**Note!**

Profile 0 is set by default when the device is delivered.

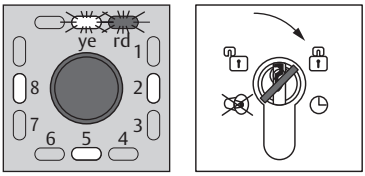
*Tab. 13: Profiles*

| Profile | Description | |
|---|---|---|
| | Input | Output |
| 0 | External temporary release | Combined with a motorized or solenoid lock, or with an electric strike, to release the door in the direction of escape |
| 1 | External temporary release | To connect to an external locked mode monitoring unit |
| 2 | External temporary release | To actuate a door drive |
| 3 | External temporary release | To connect to a flashing light or an alarm siren (without time restriction) (inverse) |
| 4 | Fire alarm system (inverse) (FAS) | To connect to a flashing light or an alarm siren (without time restriction) (inverse) |
| 5 | Burglar alarm system | To connect to an external locked mode monitoring unit |
| 6 | Operated via a contact in the access control system only | Combined with a motorized or solenoid lock, or with an electric strike, to release the door in the direction of escape |
| 7 | Operated via a contact in the access control system only | To connect to an external locked mode monitoring unit |
| 8 | Operated via a contact in the access control system only | To actuate a door drive |
| 9 | Operated via a contact in the access control system only | To connect to a flashing light or an alarm siren (without time restriction) (inverse) |
| 12 | Actuation via timer switch | For connection of the electric strike or motorised lock |
| 13 | Actuation via timer switch | To connect to a flashing light or an alarm siren (without time restriction) (inverse) |

## Master/Slave

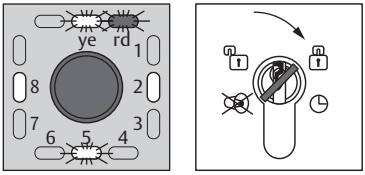
In the *Master/Slave* configuration menu of the escape door terminal 1385G, the LEDs show which slaves are online, offline, or have an address conflict.

**Display devices on the bus**



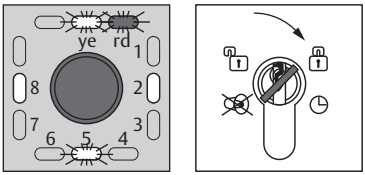

The LEDs 1 to 8 indicate the address (LED1 = 1, LED2 = 2,...) where a device on the bus has detected the master.

**Show address conflict**




If one of the devices has a problem (gone offline, address conflict), the corresponding LED will flash.

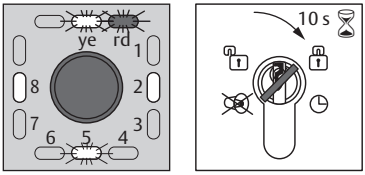
**Resolve address conflict**




1 Push the key to the right:

⇨ Releasing the key refreshes the display

⇨ If the address conflict still exists, it must be resolved.




1 Press the key to the right and hold it for ten seconds.

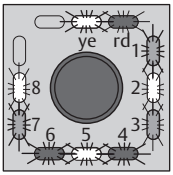
⇨ After five seconds, a beep will be heard every second.

⇨ A long acknowledgement signal is emitted after ten seconds.

If the key is turned to the right for more than ten seconds, the address conflict is eliminated and the bus is scanned again.

## Short circuit

**Short circuit is displayed**

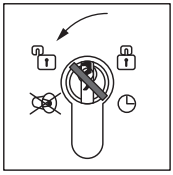



If all eight LEDs (1-8) are flashing, there is a short circuit in the bus.
The system is not ready for operation.

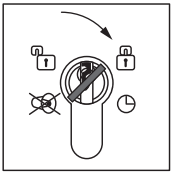
1 Remove the short circuit.

## Completing a configuration

### Ending configuration mode




1 Press the key to the left while in configuration mode until the four yellow LEDs flash.




2 Push the key to the right.

⇨ A long audible signal is emitted.

⇨ The 4 green LEDs flash in pairs in a diagonal sequence.

⇨ The lower yellow LED will light up.

1 Screw the cover on the escape door module back on.

⇨ Configuration mode is ended

**Automatically ending configuration mode**

If no input takes place within one minute while in configuration mode, the device automatically switches to operating mode and thus ends configuration mode.

Several short audible signals are emitted.

## Example configuration

The following procedure serves as an example of how you can use the key switch to set and save the pre-alarm time at twenty seconds.

**Starting configuration mode**

1 Open the cover on the escape door module and leave it open.
2 Push the key to the left:
3 Push the key to the left and hold it for 5 seconds.

**Changing to the “Pre-alarm time” menu.**

1 Push the key to the left 4 times.

⇨ You are now in the 'Pre-alarm time' configuration menu. This is displayed by the left-hand yellow LED lighting up.

**Configuring pre-alarm time**

1 Now turn the key to the right and hold it for the duration of the desired pre-alarm time (20 seconds).

⇨ The green LEDs blink alternately in clockwise motion, with each cycle corresponding to one second.

⇨ The change you have made will be saved as soon as you let go of the key.

**Exiting the configuration menu**

1 Press the key to the left until the 4 yellow LEDs flash.
2 Push the key to the right:

⇨ The 4 green LEDs flash alternately in pairs in a diagonal sequence and the lower yellow LED lights up.

3 Close the cover again.

⇨ The device has been configured and is ready to operate.

## Connecting cables

| Connecting cable | Description | Value |
|---|---|---|
| **Control circuits** | Length | max. 300 m |
| | Length of cabling to locking unit | max. 100 m |
| **TS bus lines (1385G)** | Length | max. 1000 m |
| | Resistance to participants | max. 65 Ω |
| | Special considerations | Use separate line |
| | Type | JY (St) Y |
| | Cable cross-section | · Min. 0.28 mm²<br>Ideal 0.5 mm²<br>· Only use one wire in each line<br>· Do not connect wires in parallel |

**Connectible locking elements**

The connection of locking elements is listed in documentation D00470xx. The number depends on the specified rated current consumption for external consumers. Permissible device combinations in accordance with ElttVTR / DIN EN 13637 can be found in the current test certificate.

## Electrical data – primary

| Description | Value |
|---|---|
| Rated operating voltage | 230 V AC +10% / -15% 50 Hz |
| Rated current consumption (typical) | 150 mA |
| Safety fuse | Electronic fuse with automatic reset |

## Electrical data – secondary

**Escape door module**

| Description | Value |
|---|---|
| Power supply | 24 V DC +15%<br>Controlled direct-current (DC) voltage (SELV) |
| Maximum current consumption | approx. 100 mA |
| Maximum output current for external devices<br>· with blank cover<br>· with illuminated emergency sign | <br>900 mA<br>870 mA |
| Input voltage range<br>( Terminals 1 and 13 ) | Low – Active (0V) |
| Input voltage range<br>(terminal 10) | 12 V DC –15% to 24 V DC +15%<br>Regulated direct current<br>(low safety voltage) |
| Safety fuse F1 | 1 AF, Littelfuse 154001 |
| Contact loading capacity (relay)<br>· with ohmic load<br>· with inductive load | <br>30 V / 1 A<br>30 V / 1 A |
| Safety measure | Low safety voltage (SELV) |
| Protection category as per EN 60529 | IP 30 |
| Operating temperature range | –20°C to +40°C |
| Storage temperature range | –20°C to +60°C |

**Key switch module**

| Description | Value |
|---|---|
| Contact rating - Micro-switch | Max. 24 V/0.1 A (ohmic load) |
| Safety measure | Low safety voltage (SELV) |
| Protection category according to DIN/ EN 60529 | IP-30 |
| Operating temperature range | –20°C to +40°C |
| Storage temperature range | –20°C to +60°C |
| Installation dimensions | For standard flush-mounted boxes: 62.5 mm deep |

**Profile half cylinder**

| Description | Dimension (Centre of mounting screw - cylinder leading edge) |
|---|---|
| DIN profile half cylinder | 30.5 mm |
| Lock catch | 180° |

## Certification

ASSA ABLOY
Sicherheitstechnik GmbH

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72458 Albstadt
GERMANY

ASSA ABLOY
Sicherheitstechnik GmbH
Werk Albstadt
EltVTR
MPA NRW

The EU declaration of conformity is available in the download area of www.assaabloy.com/de

The certificate lists the approved device combinations.

## Latest information

The latest information is available at: www.assaabloy.com/de

## Warranty

The statutory warranty periods and *ASSA ABLOY Sicherheitstechnik GmbH's* Terms and Conditions of Sale and Delivery (www.assaabloy.com/de) apply.

## Disposal

The following applies to products marked with the symbol  (crossed out dustbin):

The applicable environmental protection regulations must be observed. Do not dispose of lamps, disposable and rechargeable batteries, electrical devices or personal data in the household waste.

Lamps and used disposable and rechargeable batteries must be removed from the device without damaging them and then disposed of separately.

### Packaging

Packaging materials must be recycled. You can also give packaging material to the distributor or trade professional for disposal free of charge at the place of handover.

**Product**

WEEE reg. no. DE 69404980

You must dispose of the product correctly as electronic scrap after use and take it to a local collection point for recycling free of charge.

You have the following additional options for free disposal through the distributor:

- Return an old device with similar functions at the place where the new device is delivered.
- Return a maximum of three similar old appliances (max. edge lengths 25 cm) to a retail store with no obligation to purchase a new one.

The take-back obligation applies to distributors of electrical appliances with a sales area of over 400 m² or to distributors of foodstuffs that offer electrical appliances several times a calendar year or continuously with a total sales area of 800 m². In the case of online providers, the total storage and shipping areas for electrical appliances are considered retail space. For further details, see German Electrical and Electronic Equipment Act Section 17 (1)(2) [ElektroG3 §17 (1)(2)].

Distributors using means of remote communication must, upon delivery, collect or take away free of charge heat exchangers, screens, monitors and devices containing screens with a surface area greater than 100 square centimetres and devices in which at least one of the external dimensions is greater than 50 centimetres. For lamps and smaller devices in particular, they must ensure suitable return options at a reasonable distance.

The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.

ASSA ABLOY
Opening Solutions



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