Escape route technology

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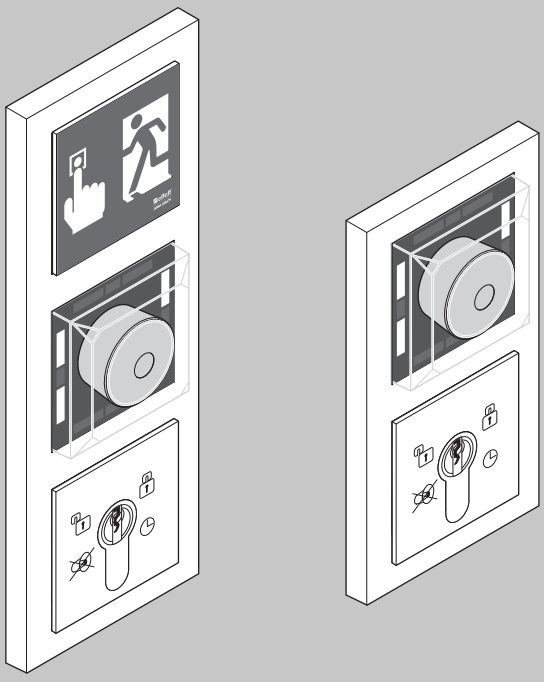

Escape door control terminal Type 1384/1385

effeff
ASSA ABLOY

Installation and mounting instructions

D0133501

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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/d01335

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

You can find the instructions for FT Manager at:
https://aa-st.de/file/d01254

Test logbook
https://aa-st.de/file/d01350

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Document number and date
D0133501 12.2022

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Escape door control terminal 1384 / 1385

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 signal is also given.

Escape door control terminal 1384

Offline version for simple stand-alone use

The *escape door control terminal 1384* 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 1385

Offline for a complex individual application

The *escape door control terminal 1385* is offline for a complex individual application (stand-alone operation):

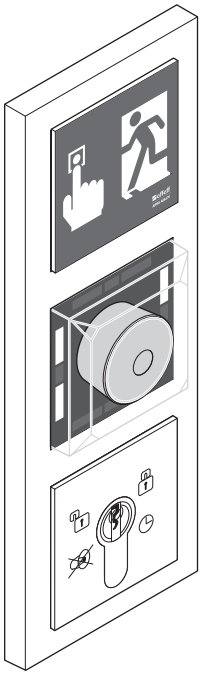
- for a wire-interconnected interlock function,
- commissioned and configured via key switch,
- expandable with the *I/O module 901–20*.

Network

The *escape door control terminal 1385* is in the network:

- for integration into a building network,
- 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

Emergency open button with LED status display
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 lead to property damage and impair the function of the product.

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.

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.

Function failure with incorrect operating voltage at the components: A mains adapter according to SELV requirements must be used. Separate mains adapters must be connected for the supply of devices with power consumption higher than 100VA. The power supply, cable lengths and cable cross sections must be selected to suit the structural conditions on site. Check and ensure that the operating voltage at the connection points is suitable for the components.

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 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 60).

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.

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 beyond this is deemed to be non-intended use; devices combinations which are not described are not permitted.

Wall mount

The escape door control terminal must be installed in the immediate vicinity of the escape door. It is intended for flush-mounted wall mounting in a commercially available flush-mounted switch box (Fig. 2).

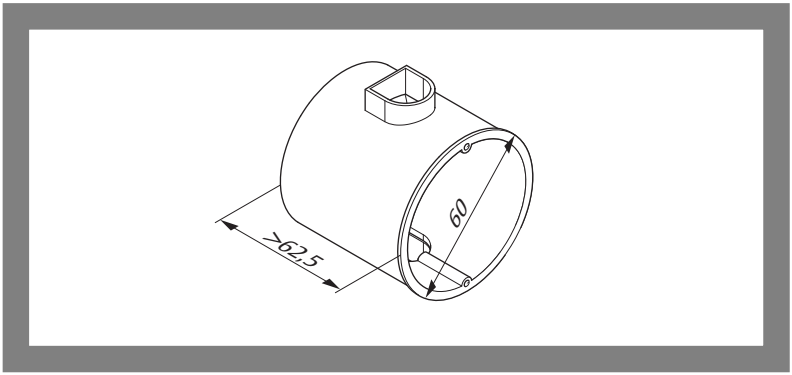


Fig. 2: Flush-mounted switch box

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 (“Connecting cables”, page 57).

Supply lines must be:
- fed through holes in the flush-mounted switch boxes and
- fed and secured behind or next to the modules

Mounting the escape door control terminal

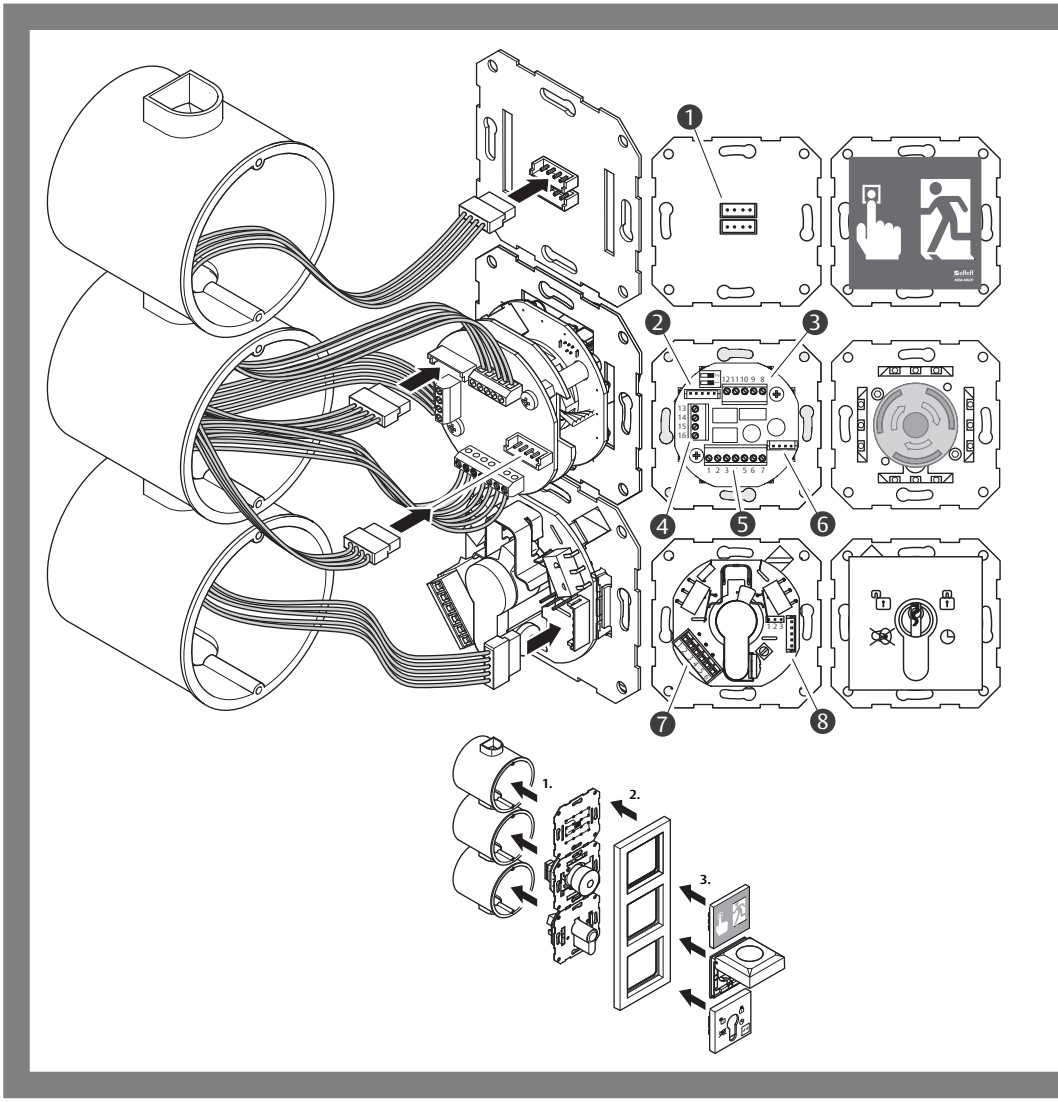


Fig. 3: Mounting and connecting the escape door control terminal

Illuminated emergency sign (optional)

❶ SYSCON 4 — 1385EVL4

Escape door module / emergency open button

❷ SYSCON 5 — 1385EVL5

❸

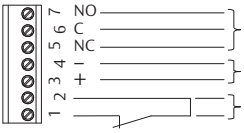
Connection of a locking element
(see manual D00470xx)

❹

TS Bus

Universal input

❺



Potential-free relay contact 30 V / 1 A

Power 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

❻ SYSCON 4 — 1385EVL4

Key switch module

❼

Optional:
Connection for an external controller

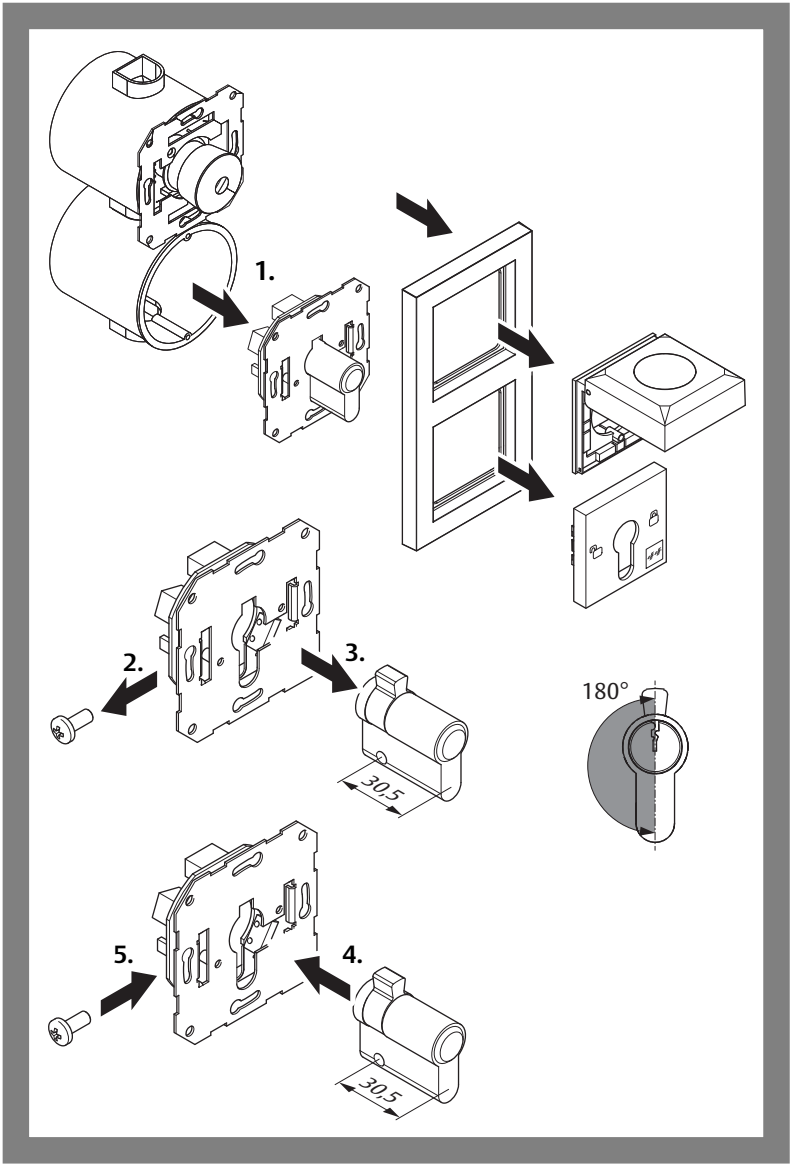
❽ SYSCON 5 — 1385EVL5

Replace profile half cylinder (locking cylinder)

1 Disassemble all components until the key switch module is exposed (Fig. 4).
2 Loosen the fastening screw that holds the locking cylinder in place.
3 Pull the profile half cylinder out towards the front.
  3.1 Turn the cam upwards (180° position).
  3.2 Pull the locking cylinder out towards the front
4 Replace with a suitable new cylinder.
5 Secure the cylinder with the fixing screw.
6 Check the function of the cam by closing to the left and right.
7 Reassemble all components and perform a final functional test.

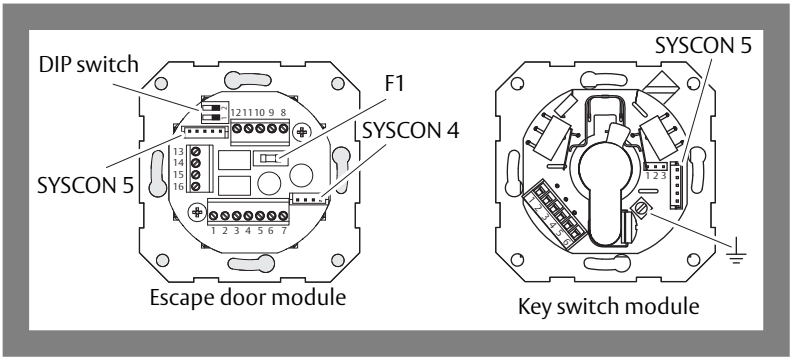
⇨ You have replaced the profile half cylinder.

Fig. 4: Replacing the profile half cylinder



View of circuit boards

Fig. 5: 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 (***1385***)	**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*.

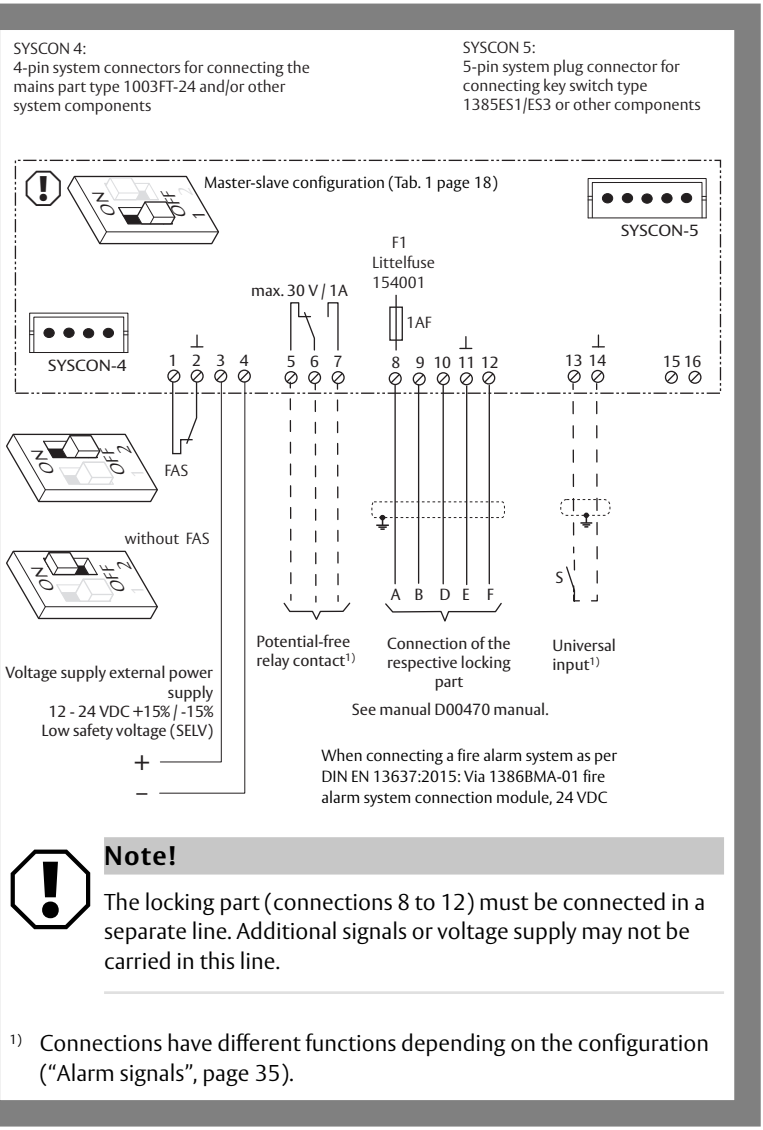
DIP switch 2

DIP switch 2 is set to ON at the factory.

For setting DIP switch 2, see Fig. 6 page 19 and Fig. 7 page 20.

Escape door module, individual, 1384E2N

Fig. 6: Circuit diagram 1384E2N



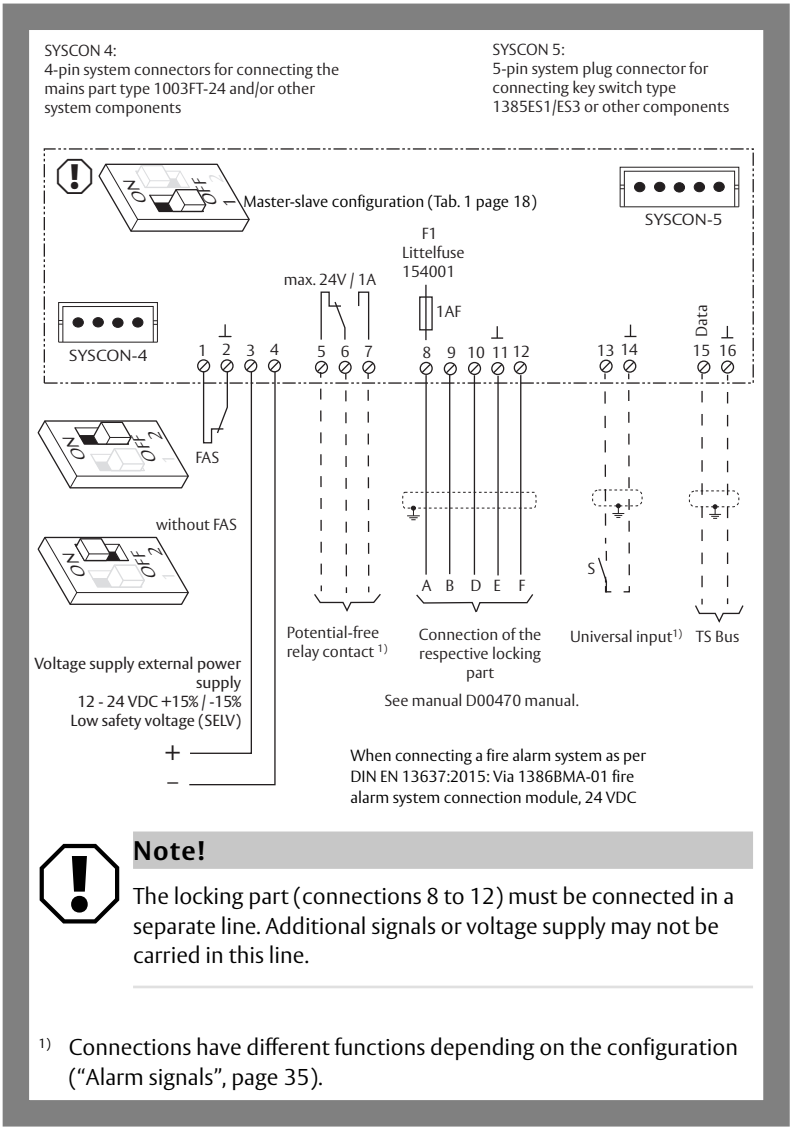
Note!

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

1) Connections have different functions depending on the configuration (“Alarm signals”, page 35).

Escape door module, individual, 1385E2N

Fig. 7: Circuit diagram 1385E2N



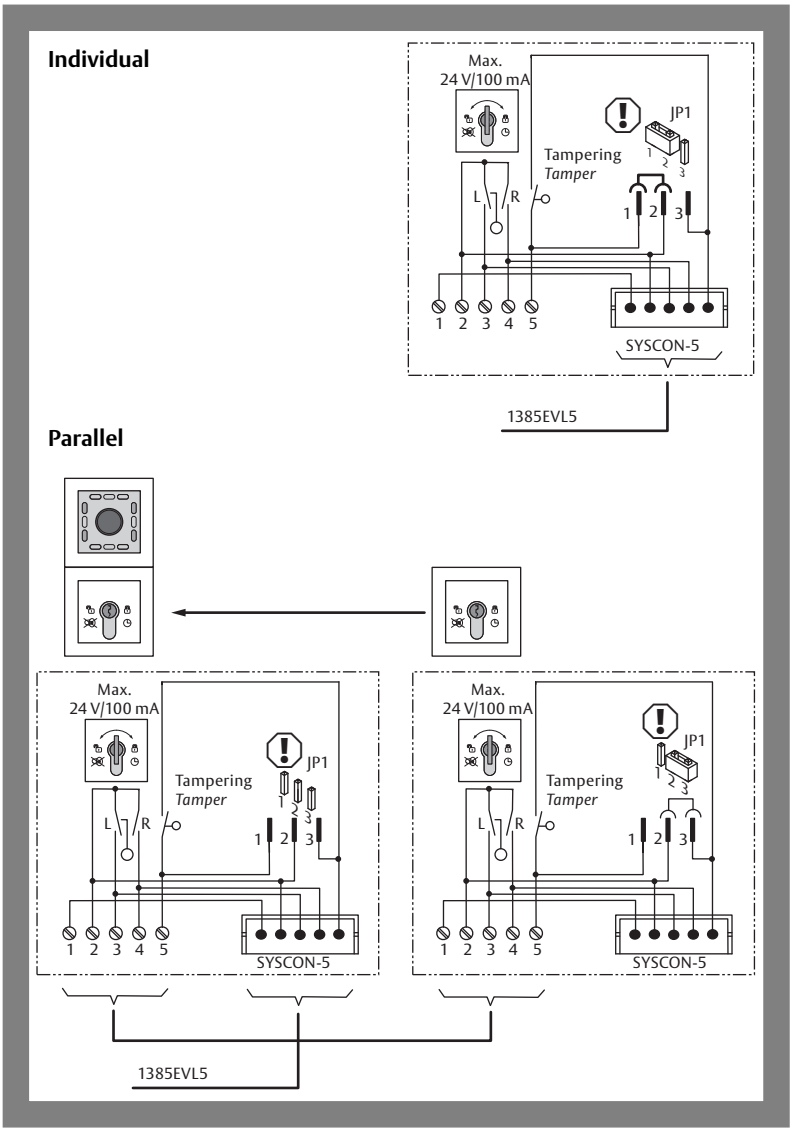
Note!

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

1) Connections have different functions depending on the configuration (“Alarm signals”, page 35).

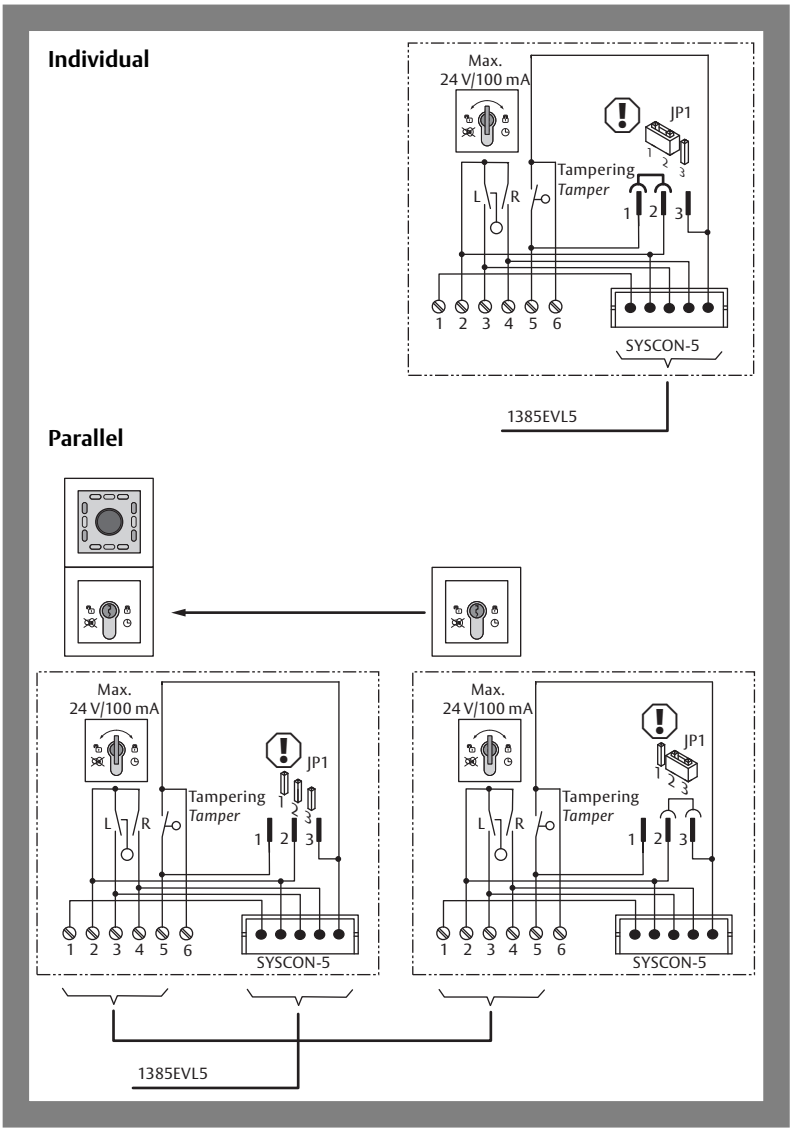
Key switch module 1385ES1

Fig. 8:
Circuit diagram
1385ES1



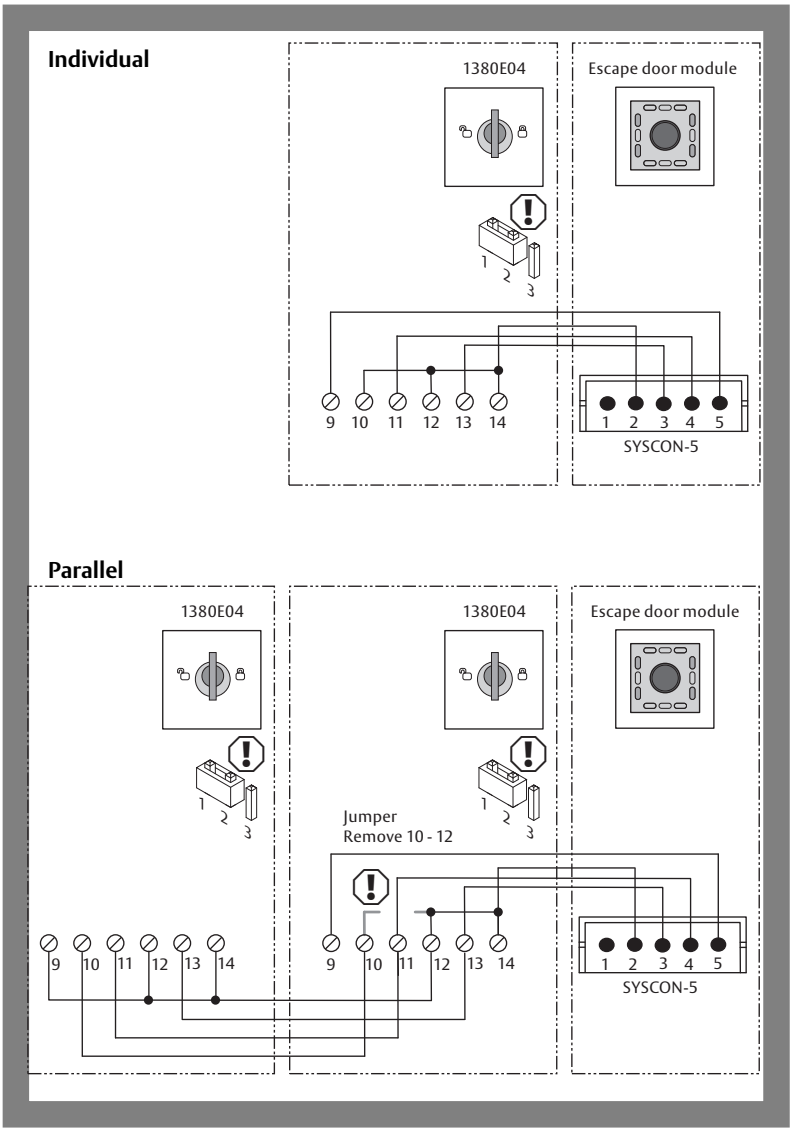
Key switch module 1385ES2/ES3

Fig. 9:
Circuit diagram
1385ES2/ES3



Key switch module 1380E04

Fig. 10: Wiring Diagram 1380E04



I/O extension module 901-20

Device *1385* can be extended with E/A Extension Module 901-20 to include further switching operations.

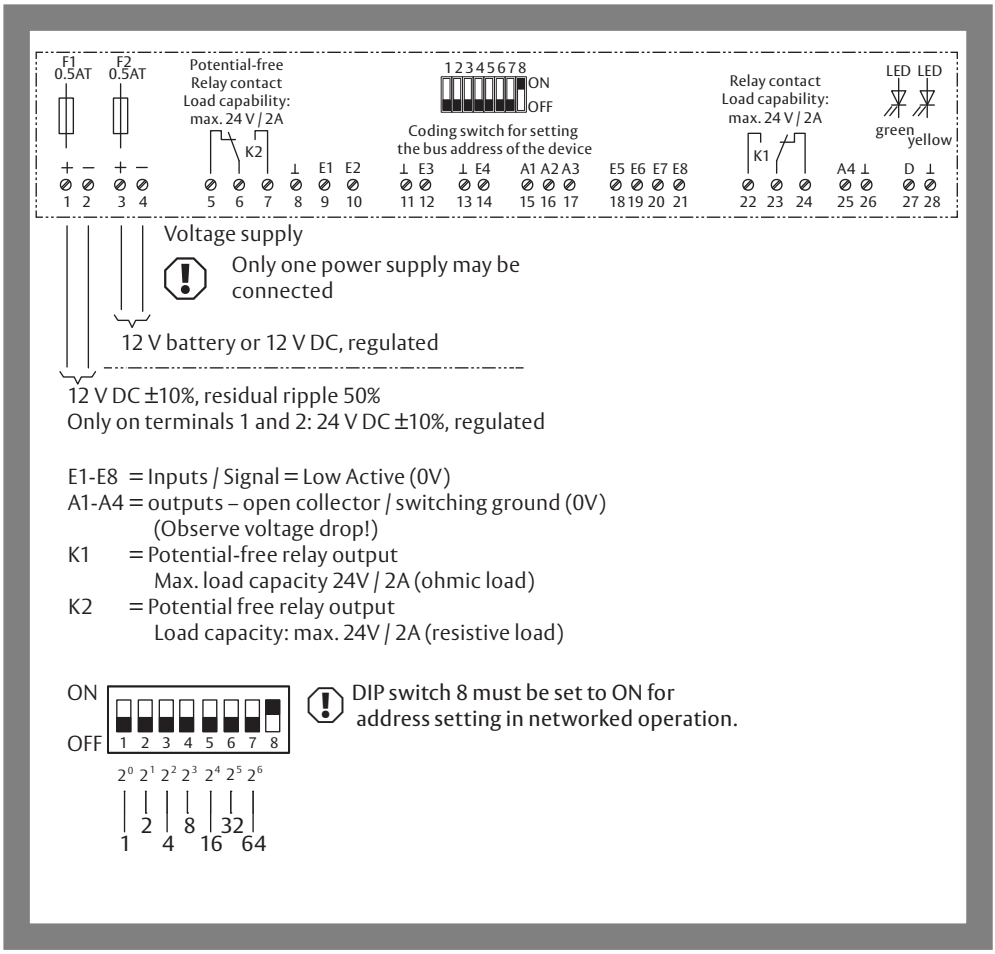
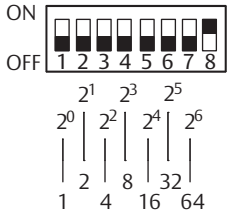


Fig. 11: Circuit diagram

Tab. 2: Configuration using the 1385

DIP switch	Networked operation	Stand-alone operation
1	Address	OFF
2		ON
3		Set profile (Tab. 3)
4		
5		OFF
6		OFF
7		OFF
8	(DIP 8 = ON)	(DIP 8 = Off)
	Only with TS bus controller	Only in master operation of *escape door control module 1385*
	Master-slave configuration (TS-Bus 1385) see Tab. 1 page 18	

Note!

When configuring using 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 26ff)
	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: Profil 0 – Link to higher level systems

Connections	Description	Connections	Description
E1	Fire detector 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 detector 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 detector system (inverse)	K1	Electric strike/motorised lock
E2	Burglar 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 detector system (inverse)	K1	Door is interlocked
E2	Burglar 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 (1385)

Note!

Escape route securing 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 unlocked, the corresponding door or several doors are blocked. The locked 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.

Prerequisites

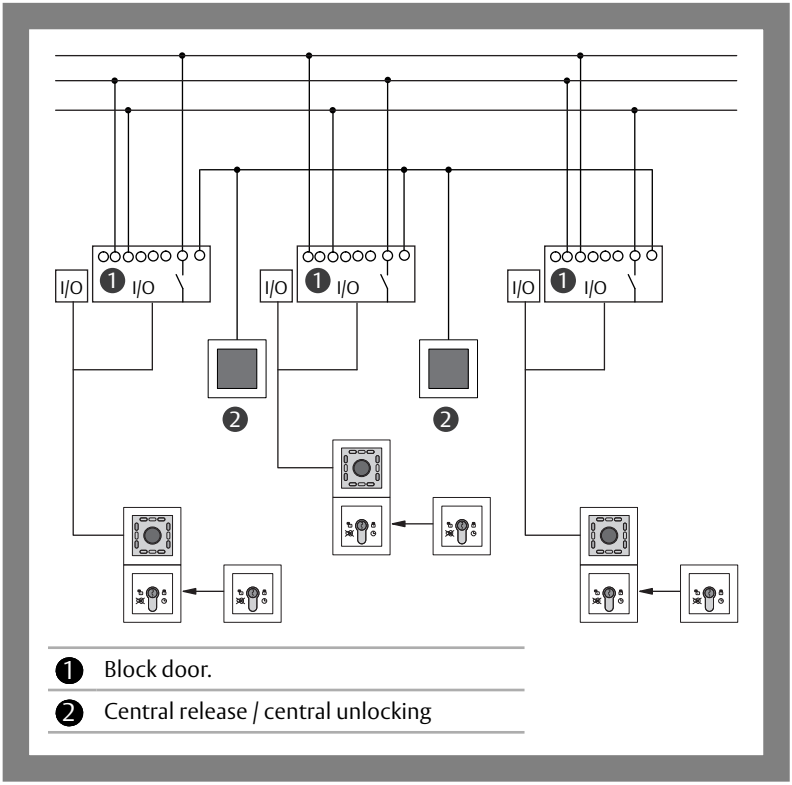
- The *escape door terminal 1385* must be set to *master* in stand-alone operation ("DIP switch 1", page 18).
- *Profile 3* must be set on *I/O extensions 901–20* ("I/O extension module 901-20", page 24).

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. 12:
Circuit diagram



Detailed circuit diagram (example of use)

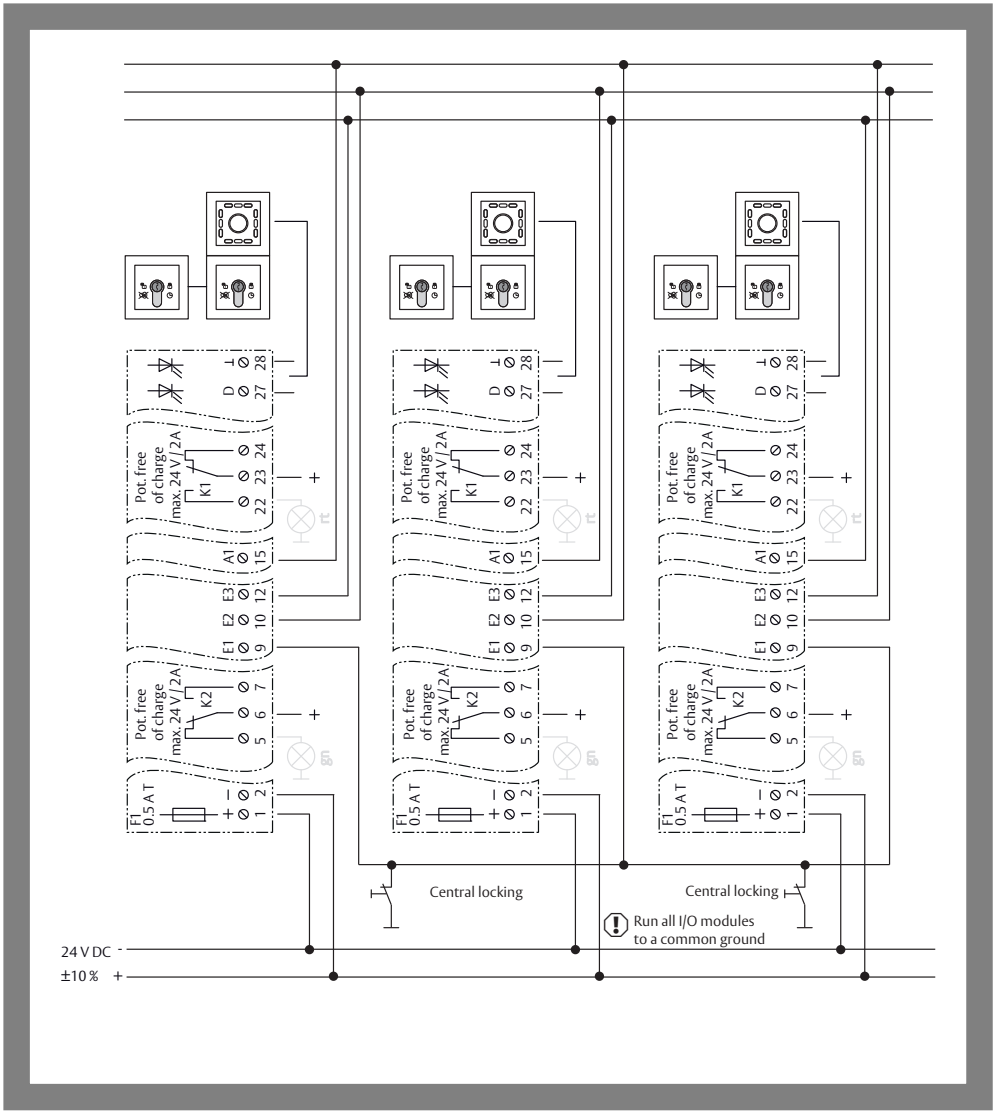
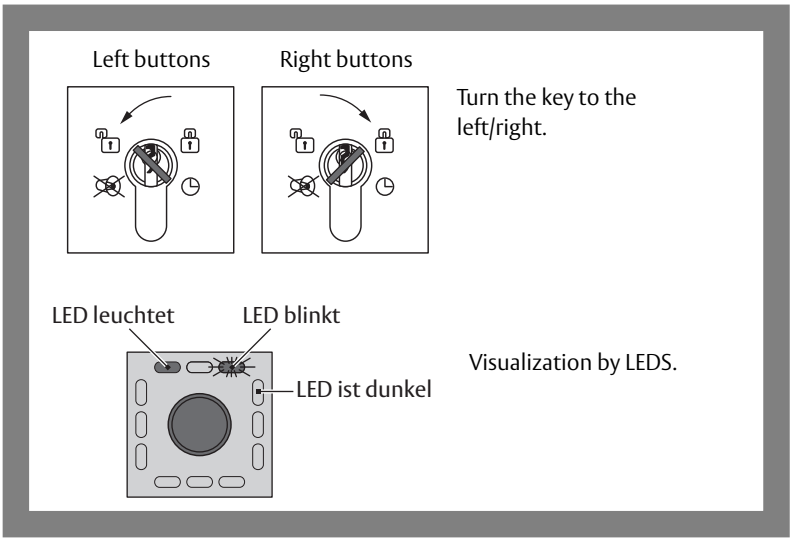


Fig. 13: Circuit diagram in detail

Explanation of symbols

Fig. 14: Symbols

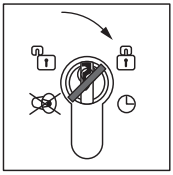


Temporary release

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 (“Configure times”, page 42).

Unlock door for temporary release time

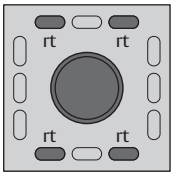


1 Push the key to the right:

⇨ The door is released and can be opened.

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

Lock 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 is time limited. The times can be set (“Configure times”, page 42).

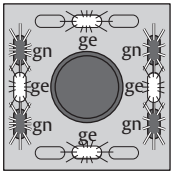
Prerequisites for a pre-alarm

- 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 push-button was pressed) will be evaluated and signalled.

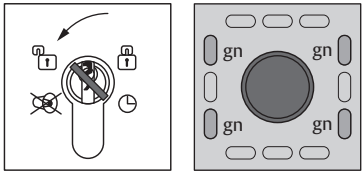
Pre-alarm is displayed



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

Permanent release

Switch on permanent release



1 Push the key to the left:

⇨ The four green LEDs light up.

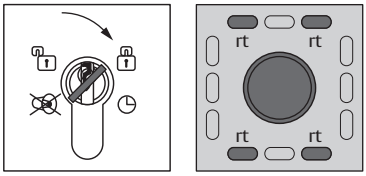
⇨ The door is permanently unlocked.

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:

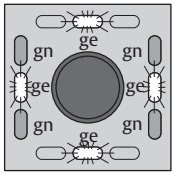
⇨ The four red LEDs light up.

⇨ The door is locked.

Danger alarm

A danger alarm is triggered when:
- an emergency 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.

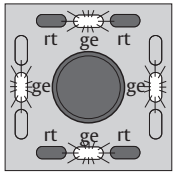
1 Acknowledge the alarm

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

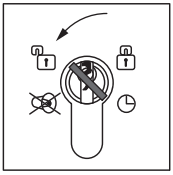


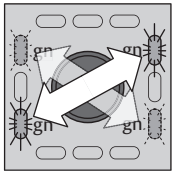
⇨ An acoustic tamper alarm is emitted.
⇨ The red LEDs light up.
⇨ The yellow LEDs flash.

1 Acknowledge the alarm

Acknowledging an alarm

Acknowledge an alarm and see the cause of the alarm





1 Push the key to the left:

⇨ The alarm is acknowledged.

⇨ The four green LEDs flash in pairs.

⇨ The alarm signal is indicated by an LED sequence pattern (“Technical data, maintenance”, page 57).

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

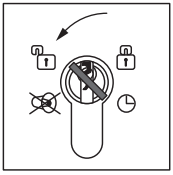
2 Eliminate the cause of the alarm (Tab. 9).

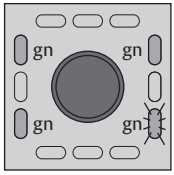
Tab. 9: Alarm criteria

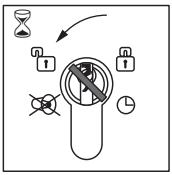
Additional indicator displays		Alarm criteria
Emergency open button	LEDs	
Dark	–	Centrally operated release
Flashes	–	EMERGENCY-OPEN
Lights up	–	Central EMERGENCY-OPEN activated
Lights up	UPPER yellow LED lights up	External emergency release (fire alarm system)
Lights up	LOWER yellow LED lights up	Tampering 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 cause of the alarm is indicated by an LED 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

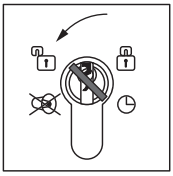
Additional indicator displays	Cause of alarm
Right-hand yellow LED lights up	Door forced open / tampering
Left-hand yellow LED lights up	*Locked* feedback missing
Both yellow LEDs above and below light up.	Door open for too long

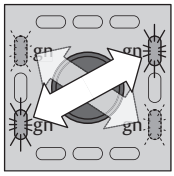
Acknowledging an alarm

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 eliminated, the door can be locked.

Acknowledge several alarms and display alarm causes





1 Push the key to the left:

⇨ The alarm is acknowledged.

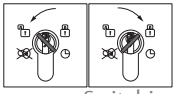
⇨ The four green LEDs flash in pairs.

⇨ The alarm message is visualized via LED light patterns (“Technical data, maintenance”, page 57).

2 Repeat the process until all alarms have been acknowledged.

General

The *escape door control terminal 1385* can also be configured within a building network using the *FT Manager* software (manual *D01254xx*).



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

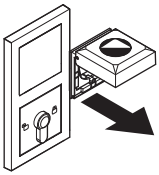
The escape door control terminal is configured with a key switch via the two switch contacts (turn key switch to the left or key switch to the right). The LEDs visualize the individual configuration modes and settings.

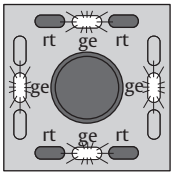
The values are stored permanently and are retained after a power failure.

Configuration

Switch on configuration mode

Trigger tamper alarm





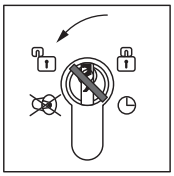
1 Unscrew the cover on the escape door module and remove it.

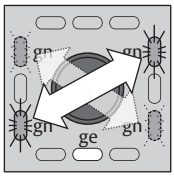
⇨ The tamper alarm will be triggered.

Note!

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

Switch on configuration mode



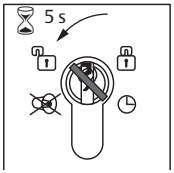


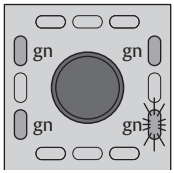
2 Push the key to the left:

⇨ The audible signal will stop.

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

⇨ The lower yellow LED will light up.



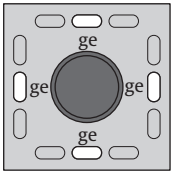


3 Press and hold the key to the left

⇨ Three green LEDs light up.

⇨ The lower right-hand green LED flashes.

5 s



The display will change after five seconds.

⇨ The four yellow LEDs light up.

⇨ The configuration mode is now switched on.

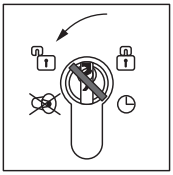
⇨ Configuration mode is switched on

Menu on key switch

Menu levels

Only one menu level is available (“Menu structure”, page 43). 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.

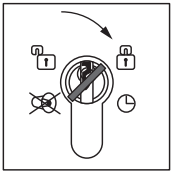
⇨ The following menu item has been selected.

⇨ 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.

Configure 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.

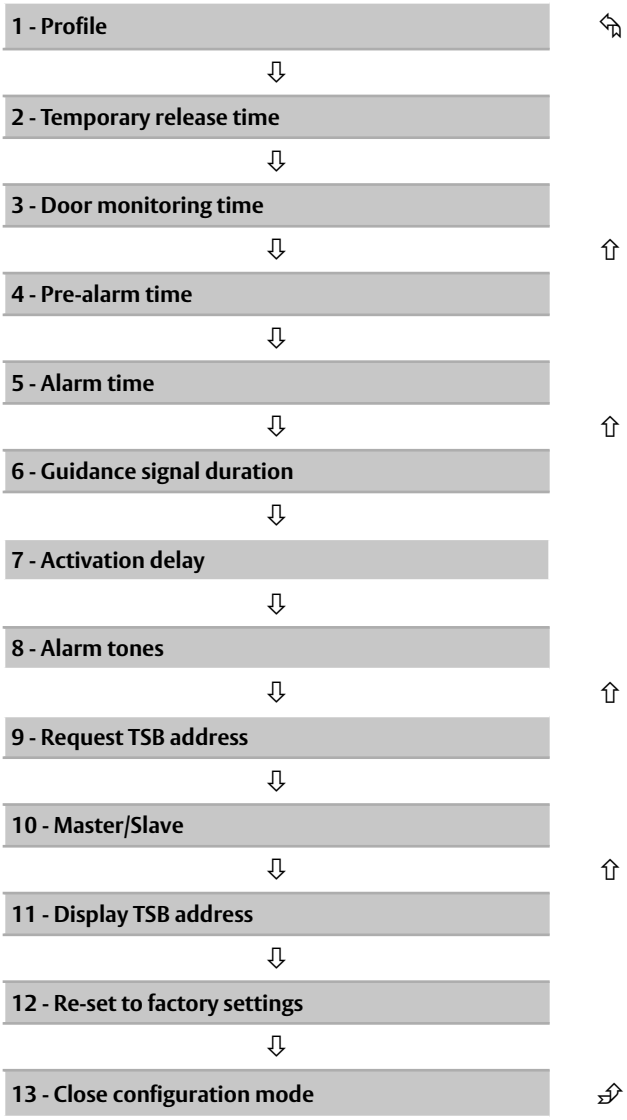
⇨ During that time, the four green LEDs “run” clockwise,
one cycle each lasting one second.

⇨ An audible signal sounds for each second.

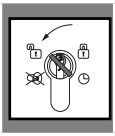
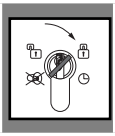
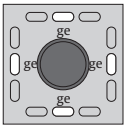
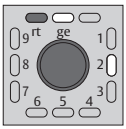
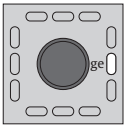
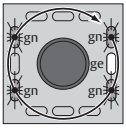
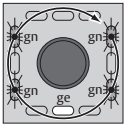
2 Once the desired time
has been reached: turn the key to the left to save the time.

⇨ An audible signal sounds.

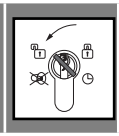
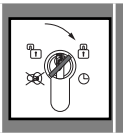
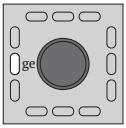
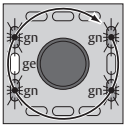
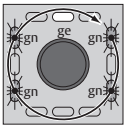
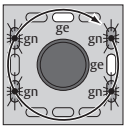
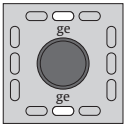
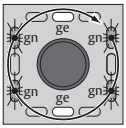
Menu structure



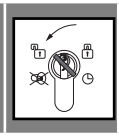
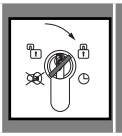
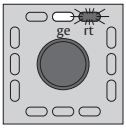
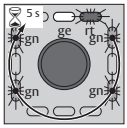
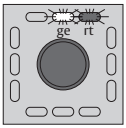
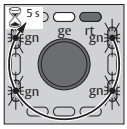
Tab. 11: Menu items

Menu items		Description		Configuration
Starting configuration mode		“Configuration”, page 40		
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 51).		Turn Decimal display **0** = no LED **1** = LED1 etc. **10** = LED1 + 9 **11** = LED2 + 9
2 – Temporary release time		Door locked after temporary release time interval if the door remains closed.		Hold Time freely adjustable. 1 complete turn = 1 second (max. 255 sec.)
3 – Door monitoring time		The time interval starts after the door has been temporarily released and opened.		Hold Time freely adjustable. 1 complete turn = 1 second (max. 3600 sec.)

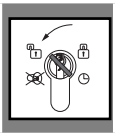
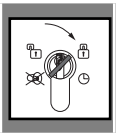
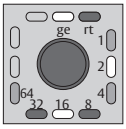
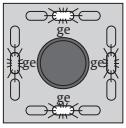
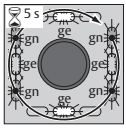
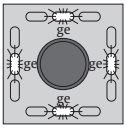
Tab. 11: Menu items

Menu items		Description		Configuration
4 - Pre-alarm time		Duration of pre-alarm until the device triggers the alarm.		Hold Time freely adjustable. 1 complete turn = 1 second (max. 3600 sec.)
5 - Alarm time		After the alarm interval has elapsed, the audible alarm device is switched off.		Hold Time freely adjustable. 1 complete turn = 1 second (max. 255 Sec.)
6 - Guidance signal duration		After the time has elapsed, the guidance signal is switched off.		Hold Time freely adjustable. 1 complete turn = 1 second (max. 9999 Sec.)
7 – Activation delay		When the key switch is pressed 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 Time freely adjustable. 1 complete turn = 1 second (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 (*1385*).		If the device is online (*1385*): 1 Hold key in position for 5 sec.
		The system then automatically issues the next free address (*1385*). The device then automatically changes to the next but one menu item: “Display TSB address”. The address *1* is automatically displayed in the case of the **1384**.		The address is requested. ⇨ A long audible signal is emitted when the address is identified.
10 – Master/ Slave		Display of current setting / address conflicts (*1385*) (“Master/Slave”, page 53). Only the master is displayed in the case of the *1384*.		Set device as master providing no other master is identified in the system (*1385*). 1 Hold key in position for 5 sec.

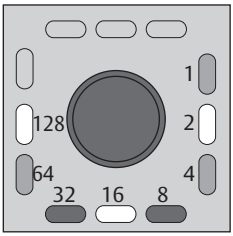
Tab. 11: Menu items

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

Configuring the TSB address

View TSB Address – Binary Code

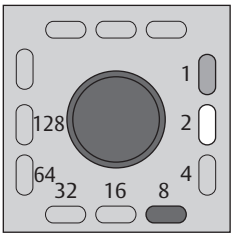
The TSB address is displayed on request as LED sample binary code:



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

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.

Change the TSB address

At escape door appointment 1385, the connection to a connected TSB controller must be disconnected.

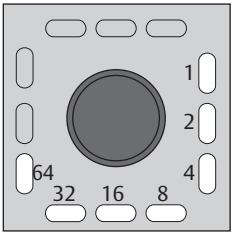
The participant address can be set manually using the key switch.

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

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

⇨ You have changed the TSB address.

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



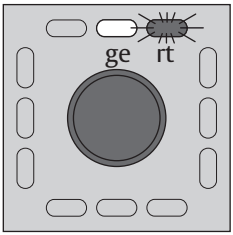
Each address from 0 to 255 can be displayed with the seven LEDs ("View TSB Address – Binary Code", page 48).

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

Step 2: Switch on configuration mode

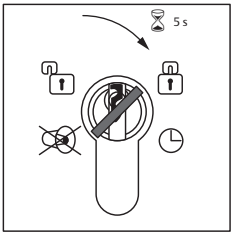
2 Switch to configuration mode ("Configuration", page 40).

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.

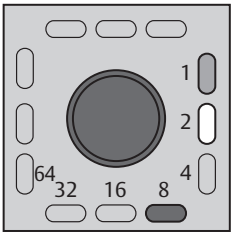
⇨ LEDs 1 to 64 immediately begin to illuminate in succession.

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

Step 4: Adjust LEDs according to the LED 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 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:
press to the right if:
- 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 pattern (= address)

When the LED pattern matches the desired address.

4 Wait until the process has cycled through completely.

⇨ An audible signal sounds.

5 Briefly press right once.

⇨ You will hear a long audible signal.

⇨ The green LEDs blink in succession.

Step 6: Switch off configuration mode

6 Exit into configuration mode (“Ending configuration mode”, page 55).

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 (1385 – 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.

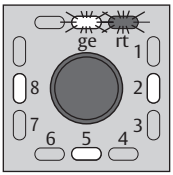
Tab. 13: Profiles

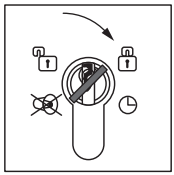
Profile	Description	
	Input	Output
0	External temporary release	Combined with a motorized or solenoid lock, or with an electric strike, to release the door in the direction of escape
1	External temporary release	To connect to an external locked mode monitoring unit
2	External temporary release	To actuate a door drive
3	External temporary release	To connect to a flashing light or an alarm siren (without time restriction) (inverse)
4	Fire detector system (inverse)	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 1385, the LEDs show which slaves are online, offline or in address conflict.

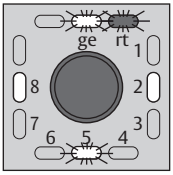
Display devices on the bus

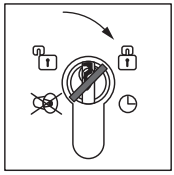




The LEDs 1 to 8 indicate the address (LED1 = 1, LED2 = 2,...) where a device on the bus has detected the master.

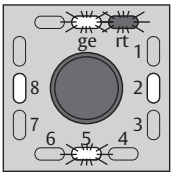
Show address conflict

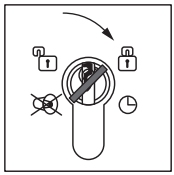




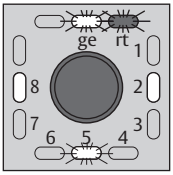
If one of the devices has a problem (gone offline, address conflict), the corresponding LED will flash.

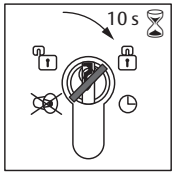
Remove address conflict





1 Push the key to the right:
⇨ The display is updated when the key is released
⇨ If the address conflict still exists, it must be resolved.



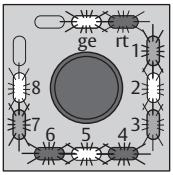


1 Turn the key to the right and hold it for 10 seconds.
⇨ After five seconds, a beep will be heard every second.
⇨ A long acknowledgement signal is emitted after ten seconds.

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

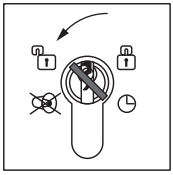


If all eight LEDs (1-8) are flashing, there is a short circuit in the bus.
The system is not ready for operation.

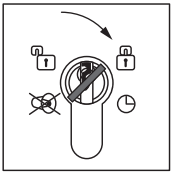
1 Remove the short circuit.

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 back onto the escape door module.

⇨ Configuration mode is ended

End configuration mode automatically

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 Turn the key to the left and hold it for 5 seconds.

Changing to the "Pre-alarm time" menu.

1 Turn the key 4 times to the left.

⇨ 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.

Leaving 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	Identifier	Value
Control circuits	Length	max. 300 m
	Length of cabling to locking unit	max. 100 m
TS bus lines (1385)	Length	max. 1000 m
	Resistance to bus devices	max. 65 Ω
	Special considerations	Use separate line
	Type	JY (St) Y
	Cable cross-section	· Min. 0.28 mm² Ideal 0.5 mm² · Only use one wire in each line · 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 EltVTR/DIN EN 13637 can be found in the current test certificate.

Escape door module

Identifier	Value
Power supply	12 V DC –15% to 24 V DC +15% Controlled direct-current (DC) voltage (SELV) Optimal voltage = 24 VDC[1)]
Maximum intrinsic current consumption · 12 V DC · 24 V DC	 approx. 150 mA approx. 100 mA
Maximum output current for external devices	1 A – depending on external power supply
Input voltage range (terminal 13)	Low – Active (0V)
Input voltage range (terminal 10)	12 V DC –15% to 24 V DC +15% Regulated direct current (low safety voltage)
Safety fuse F1	1 AF, Littelfuse 154001
Contact loading capacity (relay) · with ohmic load · with inductive load	 30 V / 1 A 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

[1)] Recommended: Power supply type 1003FT-24

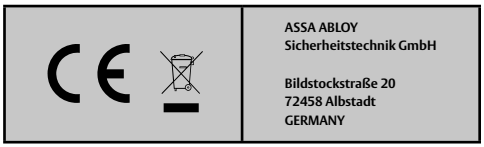
Key switch module

Identifier	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

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

Certification



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

The certificate lists the approved device combinations.

Warranty, disposal

Latest news

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

Warranty

The statutory warranty periods and Terms and Conditions of Sale and Delivery of *ASSA ABLOY Sicherheitstechnik GmbH* 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 to be sales areas. For further details, see 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.

Die ASSA ABLOY Gruppe ist der Weltmarktführer in Zugangslösungen. Jeden Tag helfen wir Menschen sich sicherer und geborgener zu fühlen und eine offenere Welt zu erleben.

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