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1 About this document

1.1 Contents and purpose

This document describes the installation of the SLI-A Interlock application.

1.2 Target group

This document is intended for assembling technicians and specialists authorized for installation by dormakaba.

1.3 Other applicable documents

- The SCU control units' mounting instructions
- The SafeRoute® system manual
- The respective door units' inspection log
- The TMS Soft® handbook

1.4 Documents storage

This document must be handed over to the facility operator after commissioning.

1.5 Symbols used

1.5.1 Hazard categories



WARNING

This signal word indicates a possible hazardous situation which may result in death or severe injuries if ignored.



ATTENTION

This signal word indicates a situation of potential risk, which could lead to damage to property or the environment if not averted.

1.5.2 More symbols



TIPS AND RECOMMENDATIONS

This signal word indicates useful information for efficient and trouble-free operation.

2 Safety

2.1 Intended use

The functional scope of a SafeRoute® system is extended by loading the application into the control unit.

2.2 Personnel qualification

Installation may only be carried out by persons authorized by dormakaba.

3 Product description

With the SLI-A interlock application, a SafeRoute® Control Unit can operate up to 4 independent doors with different configurations in 1 interlock. The system cabling takes place via DCW® bus. The SLI-A Interlock includes all functions of the SLI-A Multi-door. The loaded applications are permanently stored on the SLI license card. After replacement of the SLI license card, any necessary applications must be reloaded.

SLI-A Interlock

Installation manual

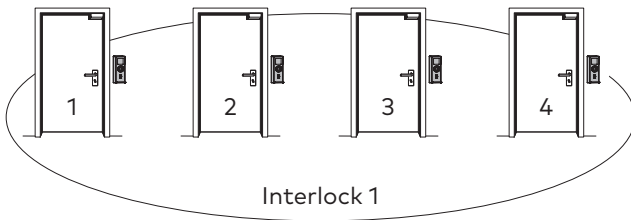
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3.1 Interlock types

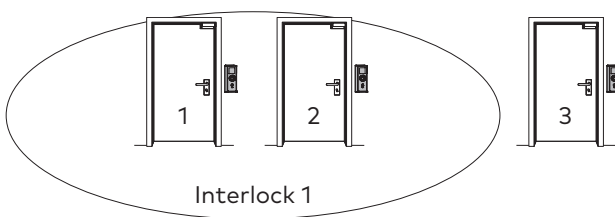
Different types of interlocks can be implemented. The doors are assigned to the interlocks in TMS Soft®.

3.1.1 Interlock type 1



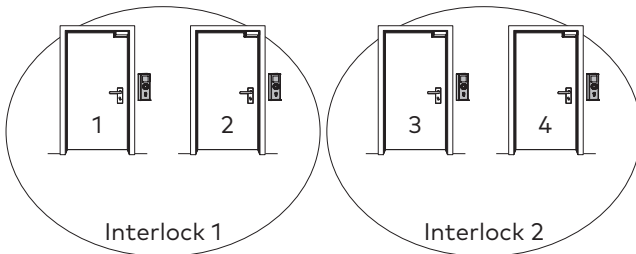
Doors 1 to 4 are assigned to interlock 1. **Interlock function:** A door inside interlock 1 can only be opened when all other doors are locked.

3.1.2 Interlock type 2



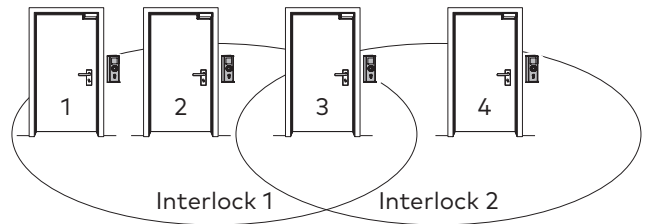
Doors 1 to 2 are assigned to interlock 1. **Interlock function:** Door 3 is not assigned to an interlock. A door inside interlock 1 can only be opened when the opposite side is locked. Door 3 can always be opened independently of interlock 1.

3.1.3 Interlock type 3



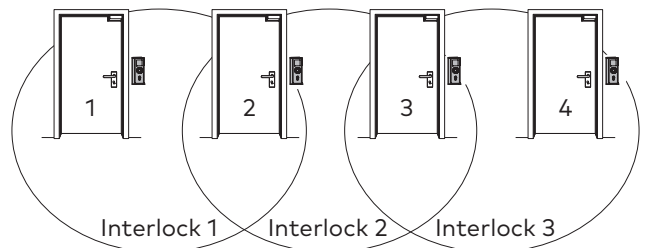
Doors 1 and 2 are assigned to interlock 1 and doors 3 and 4 are assigned to interlock 2. **Interlock function:** A door inside interlock 1 or 2 can only be opened when the opposite side is locked. The interlocks work independently of each other.

3.1.4 Interlock type 4



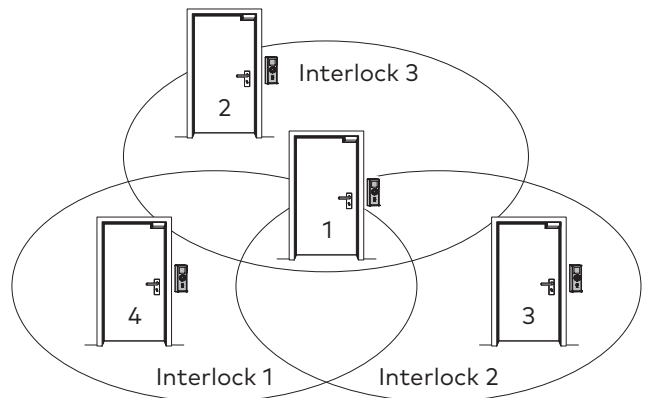
Doors 1 and 3 are assigned to interlock 1 and doors 3 and 4 are assigned to interlock 2. **Interlock function:** Door 3 is assigned to both interlocks and can only be opened when doors 1, 2 and 4 are locked.

3.1.5 Interlock type 5



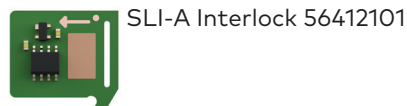
Doors 1 and 2 are assigned to interlock 1, doors 2 and 3 are assigned to interlock 2 and doors 3 and 4 are assigned to interlock 3. **Interlock function:** Door 2 is assigned to 2 interlocks and can only be opened when doors 1 and 3 are locked. Door 3 is also assigned to 2 interlocks and can only be opened when the doors 2 and 4 are locked.

3.1.6 Interlock type 6



Doors 1 and 4 are assigned to interlock 1, doors 1 and 3 are assigned to interlock 2 and doors 1 and 2 are assigned to interlock 3. **Interlock function:** Door 1 is assigned to 3 interlocks and can only be opened when doors 2, 3 and 4 are locked. Doors 2, 3 and 4 can only be opened when door 1 is locked.

3.2 Parts included



4 Loading the application

4.1 Prerequisite for loading the application

- A SafeRoute® system with license level Basic or higher.
- The DCW® addressing of the DCW® components emergency button and STV xxx must be assigned to the associated system doors. The settings are made via the DIP switches on the components (see corresponding assembly instructions).

4.1.1 DCW® addressing of DCW® components



WARNING

An STV xxx lock may only be configured with emergency buttons assigned to the same system door!



TIPS AND RECOMMENDATIONS

If it is unclear whether an SCU emergency button has ever been operated as a control unit with a license card:
Press the service button S4 for 8 s with the power supply switched on. The LED indicator changes to rainbow display.



TIPS AND RECOMMENDATIONS

The SafeRoute® Control Unit SCU is automatically assigned to the system door no. 1.

DIP switch settings

Switch designation in ()



SafeRoute® Control Unit SCU: - SCU-UP/-TL (S6) - SCU-DR (mode1/2)	Emergency button SCU without license card (S6), STV xxx, DCW® Standard modules
-------------------------------------------------------------------------	--------------------------------------------------------------------------------

Number of doors	DIP switch		System door	DCW® address	DIP switch	
1	0	0	No. 1	1 or	0	0
				2 or	1	0
				3 or	0	1
				4	1	1
2	1	0	No. 1	1 or	0	0
				4	1	1
			No. 2	2 or	1	0
				3	0	1

3	0	1	No. 1	1 or 4	0 0 1 1
			No. 2	2	1 0
			No. 3	3	0 1
4	1	1	No. 1	1	0 0
			No. 2	2	1 0
			No. 3	3	0 1
			No. 4	4	1 1

4.1.2 Assignment of the LED segments on the illuminated ring

The status display is indicated by the illuminated ring. The LED segments are assigned to the DCW® security components (STV xxx and SCU xx) and light up or flash depending on the status of the connected DCW® component. If DCW® addresses are duplicated, an error message will appear. The duplicate DCW® address flashes yellow.

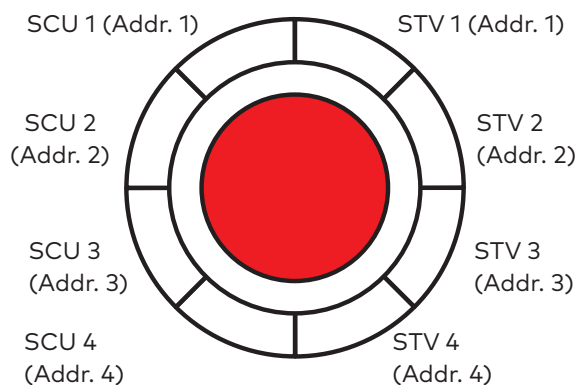


Fig. 1 Assignment of the LED segments in the illuminated ring

4.2 Load the applications to a SafeRoute® Control Unit

The applications are loaded by inserting them into the slot for the license card in the control unit of a SafeRoute® system according to the respective assembly instructions. The SCU's power supply must not be disconnected.



ATTENTION

Risk of property damage from electrostatic discharge.

The control board may be damaged by an electrostatic discharge!

- Ground your own body before touching a component!



TIPS AND RECOMMENDATIONS

The license card must be reinserted within 2 minutes.

1. Remove the existing SLI license card and insert the SLI-A application card.
 - ▶ The SLI LED starts flashing when the application has been loaded from the card to the control unit.
 → **The SLI card is empty.**
2. Remove the application card and insert the license card again.
 - ▶ The LED SLI lights up when the application has been saved on the license card.
 → **The license card now contains the license and the 2 additional functions.**
3. Dispose of the SLI application card in an environmentally friendly manner.
4. Document the use of the applications in each system door's inspection log.

5 Configuration of system doors

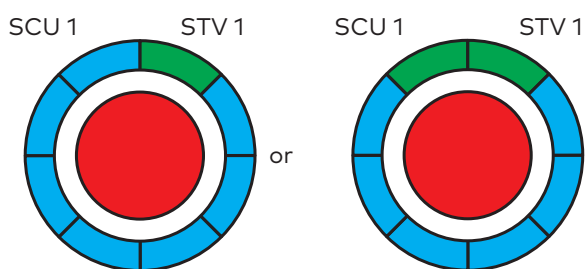
5.1 Configure the system doors

1. Press and hold the S4 service button on the SCU with the license card for 12 s.
 - ▶ The LED indicator lights up solid blue for 4 seconds on all emergency buttons.
 - ▶ The LED configuration and DCW® LED on the STV xxx board flash slowly (2.5 Hz).
 - ▶ The connected components are detected and displayed on the relevant system door's illuminated ring (lights up blue).

2. Check if the connected components are displayed with the correct address.

Display example for illuminated ring display in a multi-door system with 4 doors:

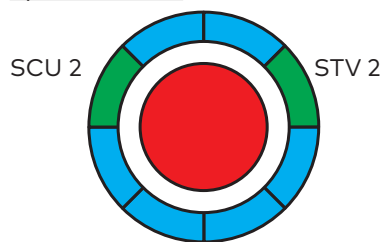
System door 1:



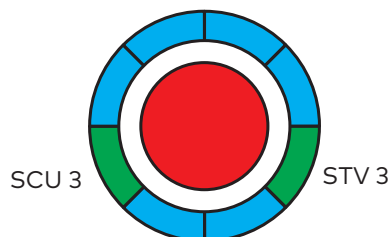
(Display for use with SCU-UP and SCU-TL)

(Display for use with SCU-DR)

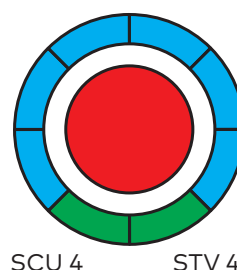
System door 2:



System door 3:



System door 4:



3. Press and hold the S4 service button on the SCU with the license card for 3 s.
 - ▶ The LED display turns permanently green on all emergency buttons. The locks are not activated yet.
4. Briefly push the key on each system door to the left.
 - ▶ The LED display changes to red.
 → **The locks are activated.**
5. Check and document the unit's correct function (see also operation manual).

6 Parameterization of system doors with TMS Soft®

The functions of the components and the SafeRoute® system can be adapted with TMS Soft®. For more information, see the TMS Soft® handbook and the help function in TMS Soft®.

6.1 Requirements for parameterization

- The control unit must be connected to the TMS Soft® computer via LON/LAN or directly via the RS232 interface.
- The system doors must be inserted in TMS Soft®.
- The multi-door application must be activated (see TMS Soft® > Communication, here: Applications column).

7 Configuration of an interlock with TMS Soft®

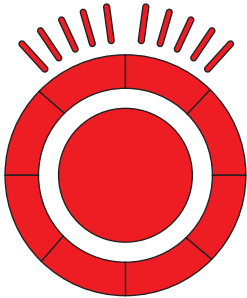
The functions of the components and the SafeRoute® system can be adapted with TMS Soft®. For more information, see the TMS Soft® handbook and the help function in TMS Soft®.

7.1 Requirements for parameterization

- The control unit must be connected to the TMS Soft® computer via LON/LAN or directly via the RS232 interface.
- The system doors must be inserted in TMS Soft®.
- The Multi-door and Interlock applications must be activated (see TMS Soft® > Communication, here: Applications column).

8 LED display on the illuminated ring

LED segments 1 and 8 flash when attempting to open a system door while the interlock is blocked.



9 Disassembly and disposal

Disassembly is carried out in the reverse order of mounting and must be carried out by qualified personnel.



The product must be disposed of in an environmentally friendly manner. Electro-technical parts and batteries must not be disposed of as domestic waste. Dispose of electrotechnical parts and batteries in the designated acceptance and collection points. Refer to the statutory regulations for your country.

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