



NEW

SafeRoute

The intelligent way

SafeRoute
emergency exit and
escape route system

dormakaba 

You can put your trust in this: More than 30 years of experience in escape route security has gone into the development of SafeRoute.



You can find out more about innovations at
dormakaba at
<https://www.dormakaba.com/de/innovation>

Highly intelligent in every way

Whether it's an emergency exit or an escape route, regulated access times or an interlock function, the SafeRoute emergency exit and escape route system makes it possible to intelligently integrate various, often conflicting requirements for doors. With its innovative and reliable solutions, SafeRoute impresses not only fire brigade, police and building supervision, but also planners, architects, installers, dealers and building operators have numerous benefits.

Anything is possible thanks to licencing

SafeRoute does more than you'd expect. The innovative emergency exit and escape route system from dormakaba is logically tailored to its conditions of use. This means with SafeRoute that you benefit from the new licencing model (mini, basic, standard), where you only pay for the functions you actually need. If necessary, the system can be upgraded with additional functions at any time through a licence expansion. The existing hardware remains unchanged; you are purchasing only the new licence.

How you benefit:

- More flexibility thanks to the new licencing model: one-time purchase of the license card, no subscription
- Sustainable system: The system can be adapted to your current needs at any time through licence expansion
- High standards for security, quality and reliability
- The system is in line with the EltVTR (German directive for electrical locking systems on escape route doors) and satisfies the requirements of EN 13637
- Intelligent light ring display: simplifies installation and commissioning, improves service quality through easy identification of system status or faults
- Simple wiring thanks to the enhanced DCW® bus interface
- Can be supplied with power from any point within the system bus
- Sturdy surface-mounted housing with light metal framing, available in many colour combinations
- Simple alarm reset via non-locking emergency button

Note: Prior to commissioning, please check up on the admissibility of the functions intended for your use. Country-specific regulations, guidelines and norms must be observed. Your dormakaba customer advisor will be happy to advise you.

Two tasks:

Save lives, protect valuables

The task at hand:

Regarding safety, doors in emergency exits and escape routes are an enormous challenge as they have to meet contrasting requirements – saving people's lives on the one hand, while securing property on the other hand.

Emergency provisions therefore require easy opening of a door from inside, without any external aids. At the same time, insurers, police and facility operators require the most secure lock possible against misuse and break-ins.

Emergency-escape locks with automatic self-locking mechanisms equally meet the requirements for escape routes and break-in protection, yet they do not allow any additional security against misuse. For businesses (as an example), a robbery could easily happen via a poorly visible emergency exit.

A clever solution: SafeRoute

Thought out down to the most minute detail, the SafeRoute system ensures that planners, architects and building operators can effortlessly reconcile the contradictory aspects of escape route security.

The new electronic emergency exit and escape route security system makes it possible to protect the door against unauthorised use and misuse without violating any building rules in the process. SafeRoute meets the requirements of the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637, meaning it can be used in any country where these standards are recognised.

Thanks to the flexible license model, SafeRoute can moreover perform other desired functions, such as connections to access control, interlock functions, two-direction escape routes, open-door surveillance and delayed activation.



Thought about everything. Made for everyone.

The SafeRoute emergency exit and escape route system



Advantages for ...

Installers

Uniform hardware, tons of applications! The streamlined wiring also makes installation and commissioning easy.

Nursery teacher

Time-limiting access is a great option! This way, nobody can easily wander in and out.

Specialist planner/architect

Also satisfying optically, thanks to the XEA design and the cross-product design language.

Fireman

Easy access to the building is paramount. In emergencies, every second matters!



Policewoman Prevent misuses and break-ins – a real challenge regarding escape route doors.

Administration employee In case of emergency, saving people; day-to-day, protecting inventory and our know-how – these two things are a must!

Facility manager Controlled and demand-oriented use of the escape route door gives everybody piece of mind.

Building supervision employee A system for all of Europe. Meeting the standards of the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637, this is a matter of fact with SafeRoute.

Our way to wisely invest in security



Requirement

In a business, a single door with low footfall should be furnished with an emergency exit and escape route system which can function quickly and safely in case of emergency and protect the door against misuse on a day-to-day basis.

Solution

SafeRoute escape route security with TS 98 XEA, mechanical SVP 5000 emergency-escape lock and OGRO lever/knob handle set in accordance with EN 179.

Area of application

For example, the hard-to-see backdoor of a business.

Functions/furnishings

The building can be exited at any time. In an emergency, the escapee presses the emergency button of the SafeRoute terminal. The escape door is activated. Also, in case of misuse (unauthorised exit or activation when there isn't an emergency), the terminal unlocks the door and sets an alarm off. This way, the facility operator can react immediately whenever the emergency exit is used. All functions are pre-configured ready for use.

This configuration provides all basic functions and is therefore particularly economical.

Standard:

Escape route security in accordance with the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637

Components

- 01 Surface-mounted terminal STL-G NT
- 02 STV 100 door locking device
- 03 Door closer TS 98 XEA
- 04 Emergency-escape lock with automatic locking action SVP 5000
- 05 OGRO lever/knob handle set in accordance with EN 179
- 06 SLI Mini licence card

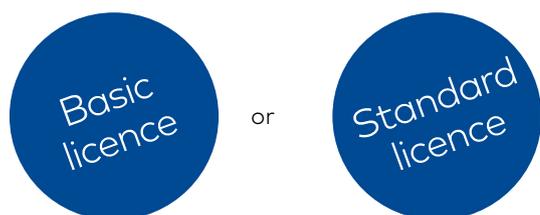


Specialist planner/architect:

My client would like to protect their escape route door against misuse in the most economical way possible.



A door with a versatile nature



Requirement

At nursery schools, entry doors with higher footfall have to be fitted with escape route security. The system should have a time control so that the door is only freely accessible at certain times.

Solution

The SafeRoute system with SVP 2000 DCW® and ED 100/250, plus an OGRO lever/knob handle set in accordance with EN 179. DCW® key switches integrated in the flush-mounted terminal and on the outer-side of the door.

Area of application

For example, the main entrance open to the public (e.g. nursery schools, office buildings or shops).

Functions/furnishings

Free entry to the building is only possible during pre-defined peak times. This prevents uncontrolled entry by unauthorised persons on the one hand, and unauthorised exiting from the secure area by wards on the other hand.

Flexible selection of comfort functions

The LED sensor button on the exterior side is only activated during drop-off and pick-up times and then allows the door to open contact-free and automatically. The time control can be done externally (with the basic licence) or via the real-time clock integrated into SafeRoute (usable from the standard licence upwards).

Standard:

Escape route security in accordance with the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637

Components

- 01 Flush-mounted terminal (SCU-UP, DCW® key switch ST 55 DCW® LED, illuminated escape route sign SES-UP)
- 02 STV 100 door locking device
- 03 ED 100/250 swing door operator with door protection
- 04 SVP 2000 DCW® emergency escape motor lock with automatic locking action
- 05 OGRO lever/knob handle set in accordance with EN 179
- 06 SLI basic or SLI standard licence card
- 07 LED sensor button (internal and external)
- 08 Flatscan SW
- 09 KÜ 480 cable loop with LK-12 detachable plug connection (2x)

Optional

Can be combined with time delay (grade 1) in accordance with EN 13637 as application.



Nursery teacher:

At the times when they drop off and pick up children, parents need free access. Otherwise, the door is closed, with the children coming out in emergencies only.



Intelligent networking means keeping the big picture in sight



Requirement

In an airport building, four doors need to be furnished with an emergency exit and escape route system. Each door should be individually operable. Due to the higher economy compared to four standard individual systems, multi-door control is used.

Solution

Four doors controlled via the multi-door switchboard with SVP 2000 DCW® and TS 98 XEA, as well as PHA 2501 panic bars. Can be used with application: multi-door control.

Area of application

For example, doors for a secured airport area. Usually, there are several doors that need to be passed during an escape – from passages between building parts or organisation units to secured exit doors.

Functions/furnishings

Four doors are controlled by a multi-door switchboard. The highlight here? The connection of four doors is performed using enhanced DCW® bus technology so that only a single switchboard controls the functions individually set for each door. (Advantage: fewer components and saving time with installation.) If you additionally wish to network the four doors, instead of four LON or LAN modules, only one is needed here.

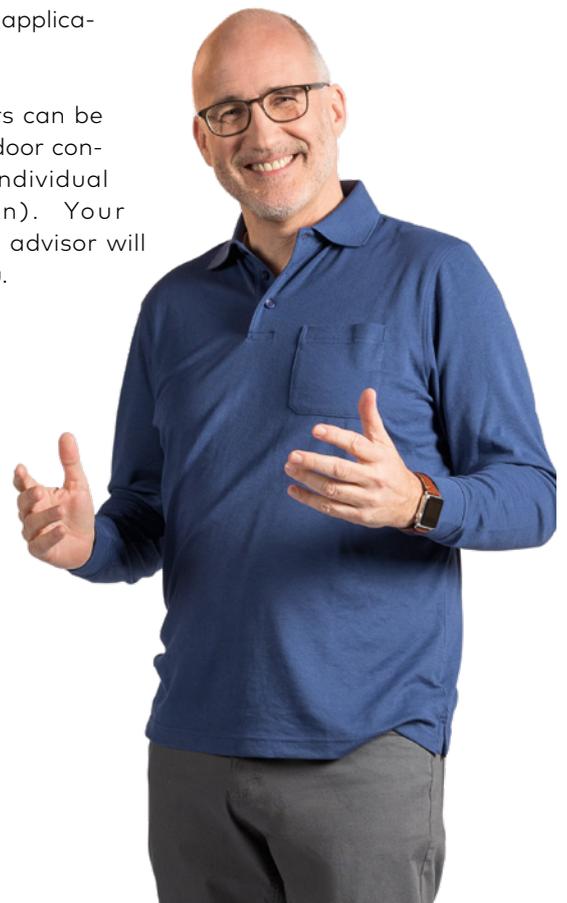
Standard:

Escape route security in accordance with the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637

Components

- 01 Surface-mounted terminal STL-G
- 02 STV 100 door locking device
- 03 Door closer TS 98 XEA
- 04 SVP 2000 DCW® emergency escape motor lock with automatic locking action
- 05 OGRO lever/knob handle set in accordance with EN 1125 (PHA 2501 panic bar inside, knob on short plate outside)
- 06 SLI standard licence card + multi-door control application

Note: Up to four doors can be fitted with the multi-door control (depending on individual door configuration). Your dormakaba customer advisor will be happy to advise you.



Facility manager:

If there is an emergency, several doors have to be individually operable. However, the system must be both as simple and economical as possible in doing so.



For as low a risk as possible, we need reliability



Requirement

Between two operating room doors, an airlock area needs to be installed. Alongside escape route security, the airlock to the operating room requires a time delay whereby the air within the airlock area can be reliably decontaminated.

Solution

Two doors as an airlock with access control and DCW® key switch, plus ED 100/250, SVP 2000 DCW® and OGRO lever handle set in accordance with EN 179. Can be used with application: SLI-A Interlock.

Area of application

For example, in the access area for an operating room. In the airlock area, a separate air extraction system prevents contaminated air from getting from one zone into the other.

Functions/furnishings

When not in use, both doors are closed and secured. The first airlock door can be opened via a contactless sensor button. Access control can alternatively be carried out using a card reader. Upon entering the airlock, the time delay is activated. This means that only after the first door is closed and a set period of time has elapsed the second door is opened. Normal exit of the operating room in the direction of the airlock room can be done using the contactless button if the second door is closed and secured. In case of emergency, SafeRoute releases both doors at the same time so that an escape is unimpeded.

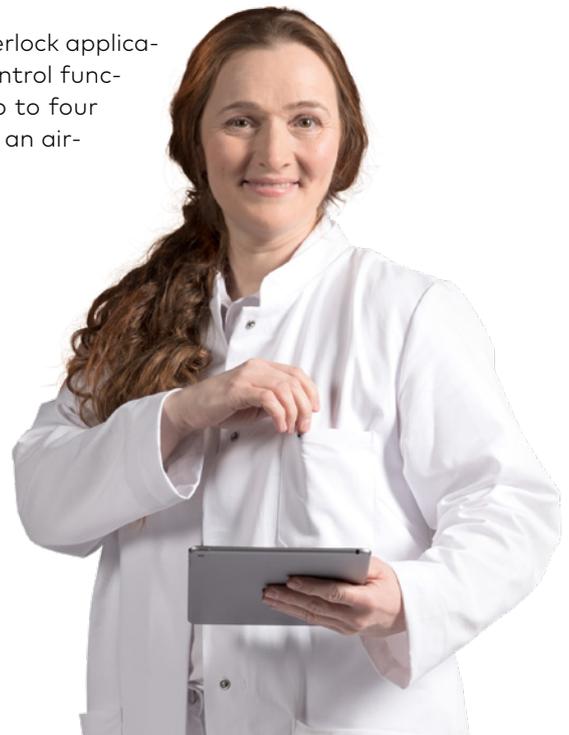
Standard:

Escape route security in accordance with the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637

Components

- 01 Flush-mounted terminal (SCU-UP, DCW® key switch ST 55 DCW® LED, SES-UP)
- 02 STV 200 door locking device
- 03 ED 100/250 swing door operator with safety sensor and 24 V DC power supply
- 04 SVP 2000 DCW® emergency escape motor lock with automatic locking action, with SVP-A connection cable
- 05 Card reader (on outer side)
- 06 Contactless sensor button
- 07 SLI standard + SLI-A Interlock application
- 08 Flatscan SW
- 09 KÜ 480 cable loop with LK-12 detachable plug connection (4x)
- 10 OGRO lever handle set in accordance with EN 179

Note: In the SLI-A Interlock application, all multi-door control functions are included. Up to four doors can function as an airlock group.



Hygiene specialist:

The door to the operating room is shut – until the air in the airlock room is completely decontaminated.





From one provider: with modular construction system for an individual solution

Whether it's opening, closing or controlling, we supply you with all the SafeRoute escape route security system components from a single source. Our flexible modular system keeps the right module ready at hand, from simple individual solutions to networked versions for a variety of doors and from the standard response to individual expansions.

Playing it safe together

Whatever your needs are with doors, speak with your dormakaba customer advisor. Working in tandem with you, they will devise the most ideal SafeRoute system for your needs.

SafeRoute Components

The basic components in a SafeRoute system are an electric door locking device (STV), a SafeRoute control unit (SCU) with a SafeRoute licence card (SLI) and an emergency button with a connected key switch (ST). With further components, a SafeRoute system can be enhanced and adapted to individual requirements.

The SCU – a central operating and control unit with integrated emergency button

The SCU SafeRoute control unit becomes a central operating and control unit (master) through the inserted license card and a connected key switch. Each SCU has an input for connection to a central hazard alert control unit and/or central fire alarm control unit or smoke detector for emergency release. External sensors/actuators can be integrated without a DCW® bus interface using additional inputs and outputs. Optional dormakaba DCW® components can be used to expand the functionality of a SafeRoute system as needed. Without a licence card, the identical SCU functions as an additional emergency button (slave), e.g. for bi-directional escape routes (escape routes in both directions).

Connect components easily with DCW® bus

Intelligently connected via the DCW® bus (dormakaba **C**onnect and **W**ork), the connected components detect each other and are supplied with power concurrently. Up to four door locking devices can be connected to an SCU control unit (master). In addition, the connection of each four similar DCW® components is possible (e.g. up to four emergency buttons and four key switches). All components are connected in any topology with a four-wire cable, and power can be supplied from any point in the system bus. The maximal bus length is 300 m. For maximum utilisation of the cable length, power can be supplied at multiple points.

Building-wide integration

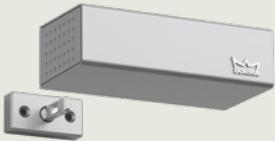
Using the LON and LAN network standards, the escape route door systems in the building can be interconnected. From the basic licence upwards, systems can be enhanced with a LON/LAN module, and monitored and controlled centrally with TMS Soft®. In this way, the SCU (master) forms the interface to the network.

STL-G NT door terminal with integrated power supply unit and back-lit SES-UP escape route symbol. Connection to STV 1xx electro-mechanical locking device is only done via a four-wire cable (DCW® bus). Depending on the licence chosen, additional functions and complex escape routes can also be realised.

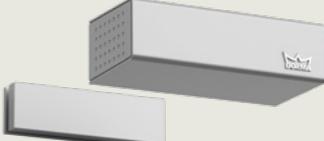


Basic components

STV 1xx
Electromechanical door locking



STV 2xx
Electromagnetic door locking device



STV 5xx
Electromechanical door locking device for concealed frame installation



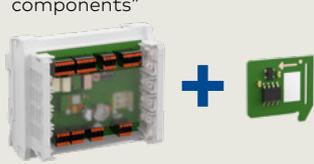

STL-G with SCU TL as master
"All-in-one terminal"
(with or without NT power supply unit)



Flush-mounted SCU-UP as master
"Individual components"



SCU DR as master
"DIN rail mounting and individual components"



SCU SafeRoute Control Unit as master
With the inserted licence card, an SCU becomes the central unit (master). A master can monitor and control up to four escape route doors depending on the licence type. Each connected escape route door needs at least one emergency button, one key switch and an electric door locking device.

Power for individual components is supplied from any point in the DCW® bus, e.g. through an STL-G with integrated power supply unit or an external power supply unit like PSU 24, NT 24-1.5s or USV 24-3.

STL-G (slave)



Flush-mounted SCU-UP (slave)




Optional components

SVP 2xxx DCW®
M-SVP 2xxx DCW®
Emergency escape motor lock with automatic locking action



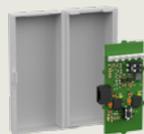
STL-G (slave)
Additional emergency button and key switch



Flush-mounted SCU-UP (slave)
Additional emergency button and ST key switch



STV-A adapter
for integrating locking devices without DCW® bus*



LON or LAN network adaptors
e.g. version SLAN-DR




RS DCW®
RMZ DCW®
Smoke detector/ smoke detector with integrated power pack



Flush-mounted STD-UP touch display
Addition of key switch, simple access control or as "down-counter" for emergency open delay



ST xx DCW®
Additional key switch



SIO-DR I/O DCW® module
Extension for connecting analogue actuators and sensors



TMS Soft®
Parametrisation and management software for Windows PCs for control and monitoring of escape route door systems. With interfaces to external doormanagement systems (e.g. OPC and ESPA).

* Note relevant certificates in accordance with the EltVTR (German directive for electrical locking systems on escape route doors) and EN 13637



Door
Hardware



Entrance
Systems



Electronic
Access & Data



Interior Glass
Systems



Mechanical
Key Systems



Service

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