



EMERGENCY EXIT SECURITY AND ACCESS CONTROL

Protecting lives, securing buildings.



CONTENTS

Emergency Exit Security



Emergency exit security regulations
3–7



Systems fit for purpose
8–9



TMS door management system
10–21



Accessories for individual expandability
22–23

Access Security



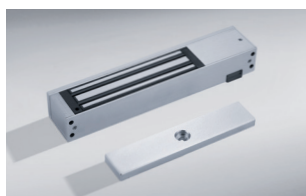
SVP emergency escape locks
25–27



Electric strikes
28



HZ automatic inactive-leaf locking devices
29



EM electro magnetic locking
30



System solutions for emergency exit and access control
31

PROTECTING LIVES, SECURING BUILDINGS



Buildings provide protection against rain, heat and cold, giving us a feeling of security. However, unforeseen events from small smoldering fire to criminal incursions may render immediate escape from a building imperative.

Saving lives and protecting assets

DORMA offers many years of experience in the field of emergency exit security and access control. Our wide product range, including access security components make an essential contribution to satisfying special functional requirements in tailored door systems, increasing reliability, convenience

and protection of doors. Thus we enable that specifiers, architects and building operators to reconcile the contradictory aspects of building safety and emergency exit security with effortless ease:

- **Protection of human life (emergency escape)**
- **Protection of property**

PROTECTING LIVES, SECURING BUILDINGS



EMERGENCY EXIT SECURITY

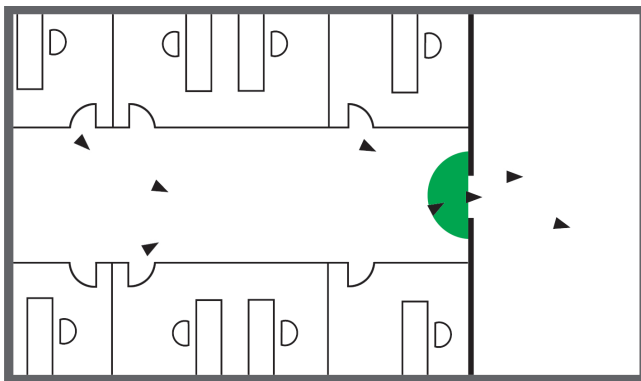
DON'T PANIC

Regulation emergency exit security made easy.

The requirements placed on emergency exit and escape routes are regulated in various European standards (EN). The core requirement specified in these standards is that the door must be easy to open across its entire width with just one manual motion. Either EN 179 (emergency escape exit devices / panic situations not foreseen) or EN 1125 (panic exit devices / panic situations foreseen) are applied to buildings, depending on their occupancy. If an electronic security system is employed, compliance is also required with local regulations such as Germany's EItVTR ("Requirements for electrical locking systems on doors in emergency escape routes") and the superseding standard in development prEN 13637 ("Electrically controlled exit systems for use on escape routes").

Panic situations not foreseen: EN 179

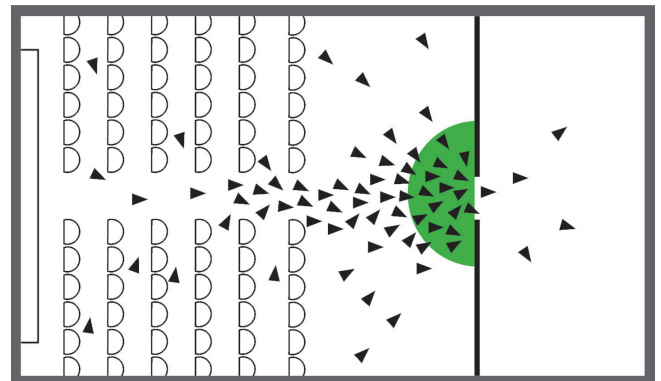
Panic situations are not foreseen in premises that have no public traffic and are constantly occupied by the same people familiar with their surroundings who have been trained in the use of the emergency exits.



e.g. **OGRO 8101**
Safe opening in just one operation.

Panic situations foreseen: EN 1125

If there are people in a room or building who are untrained in the use of its emergency exits and/or not familiar with their surroundings, there is a danger of panic occurring. Consequently, horizontal actuation bars are specified that extend across at least 60% of the door width and that open the door when simply pushed (even under preload).



e.g. **PHA 2000 cross bar**
Opens reliably even under preload ("side load immune").

Additional electrical security of emergency exit doors: EItVTR / prEN 13637

If emergency exit and escape route doors are not to be opened unnoticed from the inside, they require an electrical locking system that meets the requirements of e.g. EItVTR.

- (1) Operation of the red emergency pushbutton
- (2) Door release with simultaneous alarm or similar indication
- (3) Escape from the danger area/security response to alarm



Standard	Examples	Requirements
<p>EN 179 An emergency exit device compliant with EN 179 is suitable for buildings in which a panic situation is not foreseen</p>	<ul style="list-style-type: none"> ▪ Office buildings with trained employees and no public traffic 	<ul style="list-style-type: none"> ▪ Release of the door with just one operation ▪ Prior knowledge on operation of the exit device is required
<p>EN 1125 A panic exit device according to EN 1125 is prescribed for all buildings in which a panic situation is foreseen</p>	<ul style="list-style-type: none"> ▪ Football stadiums ▪ Cinemas ▪ Concert halls 	<ul style="list-style-type: none"> ▪ Safe, secure, simple unlocking, also suitable for children and older people ▪ Operation possible without prior familiarization ▪ Side load immune release
<p>EitVTR / prEN 13637 Electrical locking systems to EitVTR or prEN 13637 protect the door from unauthorized passage in the escape direction</p>	<ul style="list-style-type: none"> ▪ Shopping malls ▪ Airports ▪ Railway stations 	<ul style="list-style-type: none"> ▪ Emergency pushbuttons for system release in the event of panic ▪ Door opening ensured even in the event of power failure (fail-safe principle)



FEEL SECURE

Regulations specifying anti-intruder security.

The protection of property constitutes an additional, essential requirement for building security systems. The primary prerequisite in providing effective protection against unauthorized access is that the doors in question be equipped with appropriate security technology as defined in the relevant standards.

The European standards EN 12209 and EN 14846 specify the requirements and test methods for ensuring, among other things, the security and functional durability of locking systems used on doors in buildings.

The classification and grading systems indicated in these standards help in determining and defining the different levels of security that can be achieved.

Standard	Examples	Requirements
EN 12209 Test methods and requirements for mechanically operated locks	Buildings with public traffic i.e.: <ul style="list-style-type: none"> ▪ Shopping malls ▪ Banks ▪ Hospitals ▪ Cinemas ▪ Event rooms 	<ul style="list-style-type: none"> ▪ Reliable, durable lock latch function under side load ▪ Resistance to corrosion ▪ Security from mechanical manipulation/physical attack
EN 14846 Based on EN 12209, EN 14846 establishes levels of protection for electromechanically operated locks	Buildings with public traffic and required access control i.e. <ul style="list-style-type: none"> ▪ Office buildings ▪ Shopping malls ▪ Banks 	<ul style="list-style-type: none"> ▪ Access to the building with authorized ID credentials (e.g. keys, ID cards) ▪ Reliable, durable function of the electromechanical latch actuator under side load ▪ Door status signaling ▪ Security from electromechanical manipulation





SYSTEMS FIT FOR PURPOSE

Looking for a safe and secure door locking system?

All you have to do is answer three simple questions and you will find the optimum solution for virtually any door situation from our broad product portfolio.

Problem	Solution	Benefits
<p>Question 1: Want to prevent unauthorized access from outside (e.g. burglars)?</p>	<ul style="list-style-type: none"> ▪ e.g. door lock 381 with DEC 261 locking cylinder 	<ul style="list-style-type: none"> ▪ Protection against unauthorized access from the outside ▪ Simple solution for secure locking ▪ Reliable intruder protection within the system
	<p>But: No emergency escape facility when door locked!</p>	
<p>Question 2: Is it an emergency exit or panic door as defined in EN 179 or EN 1125 respectively?</p>	<ul style="list-style-type: none"> ▪ SVP emergency escape lock with automatic locking action ▪ M-SVP multi-point emergency escape lock with automatic locking action ▪ If panic likely: PHA panic hardware 	<ul style="list-style-type: none"> ▪ Protection against unauthorized access from the outside ▪ Automatic door locking after each operation ▪ Locking device reliably disengages on lever handle or panic bar operation
	<p>But: No protection against unauthorized passage in the escape direction!</p>	
<p>Question 3: Should the emergency escape door be additionally secured from the inside in the escape direction?</p>	<ul style="list-style-type: none"> ▪ TMS electrical locking system for electrical emergency escape security in accordance with EltVTR 	<ul style="list-style-type: none"> ▪ Protection against unauthorized passage from the inside (e.g. shoplifters, prohibited admission of people without tickets) ▪ No impairment of emergency escape facility

TWO SOLUTIONS IN ONE

The TMS door management system.

Our door management systems enable full reconciliation of the contradictory safety and security requirements placed on emergency exit doors in public access buildings – protection

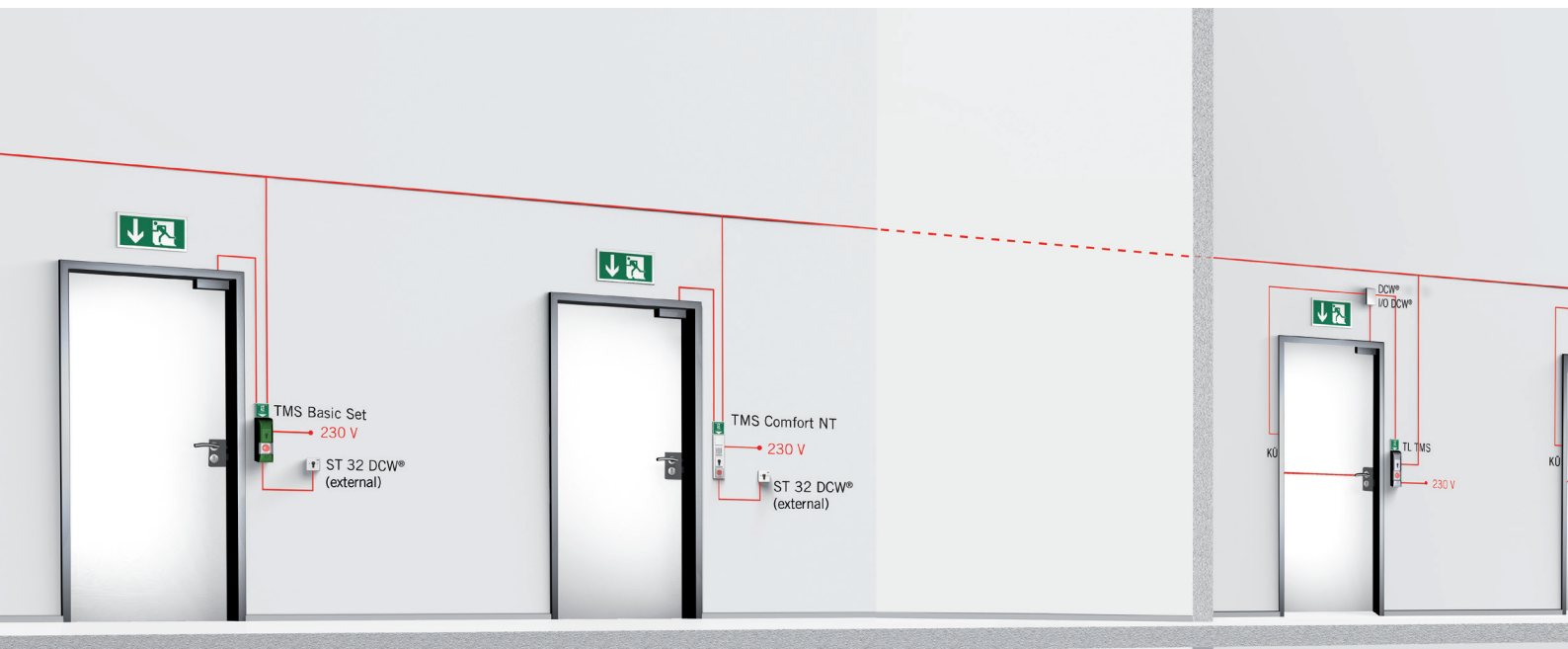
of life and limb on the one hand and prevention of unauthorized usage on the other.

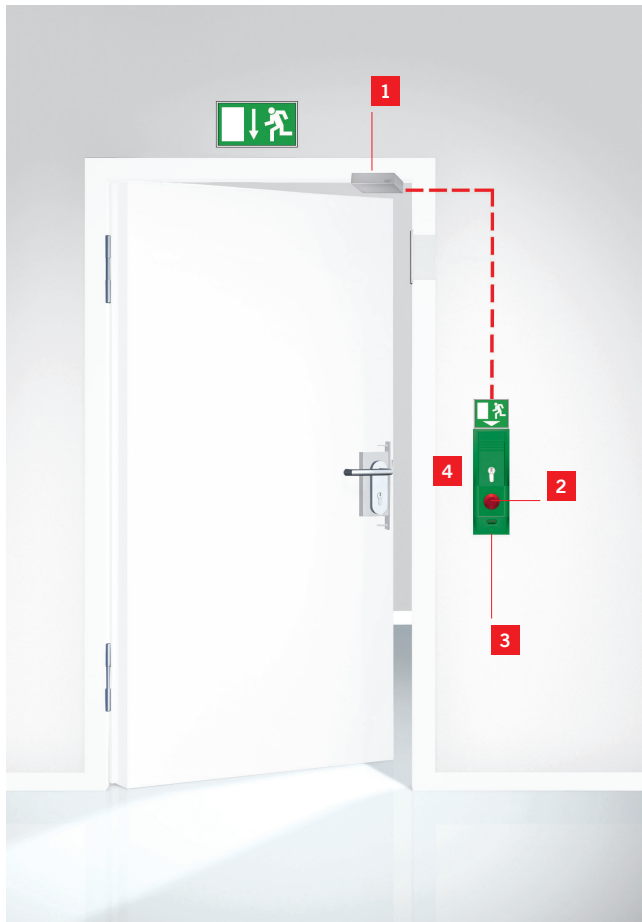
How our door management systems work:

- Under normal circumstances, an electric door locking device secures the emergency exit door
- Release is effected via the illuminated emergency pushbutton in the terminal, sometimes with the additional intervention of a hazard alert system
- Where permitted under law, release may be delayed by a set time
- An alarm is simultaneously triggered; this may be silent, audible and/or visual
- The alarm may also be relayed to a hazard control panel or our software solutions TMS Soft and TMS App (option)
- In the event that the door is opened without authorization in the escape direction, authorities can respond immediately to the alarm

Simple networking via DCW® bus, OPC and ESPA

With the DCW® bus, DCW® components can be networked quickly, easily and inexpensively. The integral OPC interface allows simple integration of the TMS system within all standard commercial building management systems, and the ESPA interface allows the problem-free actuation of telecommunication systems, for example for the purpose of alarm forwarding.





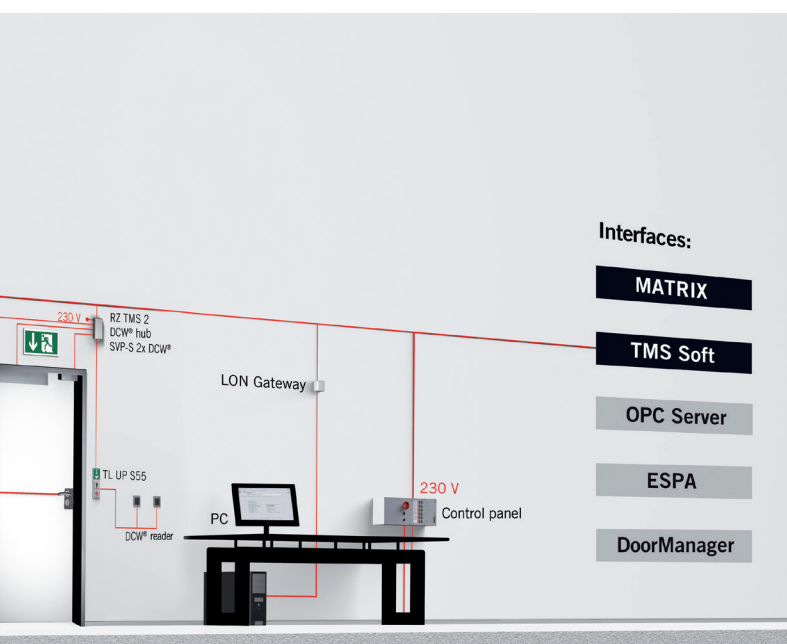
Components of an electric locking system

A system provided to secure an emergency escape door according to EltVTR / prEN 13637 must feature the following components:

- 1 An electric locking device that operates by the fail-safe principle
- 2 An emergency pushbutton for releasing the locking device
- 3 An electric control PCB (in the terminal)
- 4 Authorized access and opening is provided via a key switch integrated in the door terminal

Fail-safe principle

Our door locking devices operate according to the fail-safe principle. In the event of an interruption to the power supply, they automatically release the electric locking device to ensure safe evacuation.



TMS door management system – a solution that offers numerous advantages:

- Can be networked via LON or LAN (local operating or local area network)
- For single-door or special door solutions
- Over 1,000 doors can be individually configured and networked within one system
- Central monitoring and control by PC software TMS Soft and TMS App
- Suitable for the implementation of various solutions that go beyond simple emergency exit control

ALWAYS THE RIGHT DOOR MANAGEMENT SYSTEM

From simple stand-alone to networked multi-door solutions.

TMS Universal



For the individual solution with complex requirements:

The TMS Universal can be tailored to any requirement from simple control box to customized access control system

Benefits

- Individually configurable
- Allows access control system integration
- Also capable of meeting sophisticated requirements
- Ideal for the barrier-free operation of emergency exits
- Expandable into complex door management systems

TMS Comfort



Integrates inconspicuously in its installation surroundings:

The TMS Comfort offers a convenient solution for the networking of a large number of emergency exit doors

Benefits

- Compatible with all standard commercial switch device series (including JUNG, GIRA System 55, etc.)
- Configured ready for installation for space-saving flush mounting
- With DCW® bus for flexible expansion

TMS Comfort Offline



The safe and secure emergency exit solution without network function:

Protects individual emergency exit doors where no networking or remote control capability is required

Benefits

- Preconfigured stand-alone solution without network support
- For flush mounting

TMS Basic Set



The rugged retrofit solution for single doors:

For providing cost-efficient security at individual emergency exit doors, with the option of networking

Benefits

- Minimal assembly and installation requirement thanks to preconfigured and preassembled components
- Suitable for networking
- Surface-mounted unit
- Ideal as entry-level and retrofit equipment
- With DCW® bus for flexible expansion

Overview of the various TMS system.

	TMS Basic Set	TMS Comfort	TMS Comfort Offline	TMS Standard, TMS Universal
Standard functions				
Short-time (3–180 sec)/Long time locking (3–120 min)	●		5 sec. /5 min.	●
Door-open monitoring (1–180 sec)	●	●	30 sec.	●
Pre-alarm/Main alarm	●	●	30 sec. / 90 sec.	●
Limitation of alarm duration	●	●	–	●
Immediate relocking on door closure	●	●	–	●
Integrated inputs/outputs (of which floating)	2/2	1/1	1/1	2/2
Special functions				
Configuration and visualization by PC	●	●	–	●
Access control	–	○	–	○
Actuation control logic for automatic door operators	●	○	–	●
Integrated timer	–	●	–	●
Event memory	–	●	–	●
Bidirectional escape direction TL inside/TL outside	○	○	–	○
Airlock control function	○	○	–	○
Networking				
LAN network/LON network	●	●	–	●
Compatible with SVP locks				
	○	○	–	○

● standard ○ optional

All TMS systems offer the following functions:

- Door release in an emergency and protection against abuse under normal operating conditions
- Authorized access release
- Short-time, long-time and permanent unlocking via key switch, plus emergency unlocking
- Automatic door locking action
- Anti-tamper and anti-sabotage monitoring
- Visual indication of lock status
- Visual and audible alarm on emergency pushbutton operation/tamper attempt
- Door-open alarm
- Direct connection of DCW® components

MODULAR EMERGENCY EXIT CONTROL

System components easy to combine.

We provide you with all the system components you need for your emergency exit control system – with all the benefits of single-source supply. Our modular system ensures

that you always get a solution properly tailored to your requirements.

Reliable control



TMS Universal
tailored solutions for complex requirements.



TMS Comfort
pre-configured for the control of networked doors



TMS Comfort Offline
for single door security



TMS Basic Set
for cost-efficient emergency exit control

Secure locking



SVP emergency escape lock with automatic locking action (also available as motor lock)



M-SVP multi-point emergency escape motor lock with automatic locking action



TV door locking device / Electronic keep



TV door locking device for concealed installation

Easy monitoring



PC software TMS Soft



TMS App



RZ emergency exit control units



TE control panel

Tailored expansion options



ED automatic operator



RM-N smoke detectors



MATRIX access control software

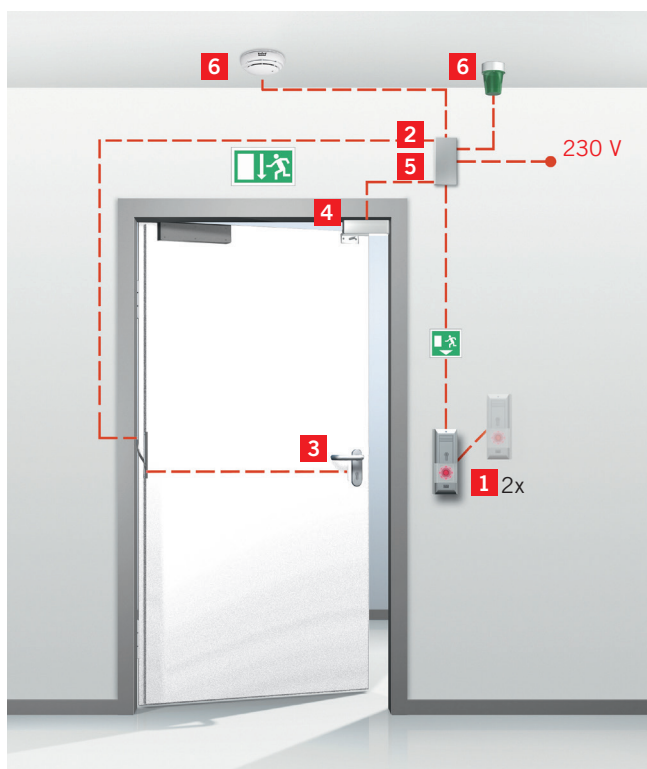
With the DCW[®] bus, the TMS can be further expanded without complication.

DCW[®] system bus

Two-way emergency exit accessibility

Two parties share an office floor separated by a door. Each area needs to be protected, with the emergency escape route passing through the rented area of the other party.

The solution: The door is equipped on both sides with an emergency exit control terminal. This is used solely for opening the door in the event of an emergency. Otherwise, the door remains locked.



- 1 2 x door terminals
- 2 RZ control unit
- 3 Emergency escape lock with monitoring contacts and automatic locking action; lever handles on both sides
- 4 DCW® door locking device/ electronic keep
- 5 DCW® I/O input/output module
- 6 Smoke detector, flashing lamp

Combination with intruder alarm system (IAS)

The outer door needs to be alarmed against unauthorized access but is also required as an emergency exit. A shunt lock or a blocking/bolting device would, however, negate the door's function as an emergency escape route.

The solution: Instead of a blocking device, an electromechanical door locking device of the type TV 101 DCW® is installed. This overrides the access control and is only released by the IAS.



- 1 Door terminal
- 2 RZ TMS VdS control unit (insurance-compliant)
- 3 DCW® door locking device
- 4 DCW® key switch on the opposite side of the door
- 5 Smoke detector

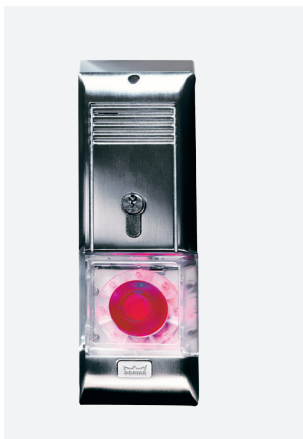
Whatever your door situation requires:
Talk to your customer consultant who will then work with you to specify the ideal system for your project.

RELIABLE CONTROL

The right installation type for each situation.

Our TL door terminals combine functional reliability with exceptional ease of operation while also, ensuring immediate release of electronically secured emergency exit doors. The red emergency pushbutton with its positive opening action

ensures that users instinctively know what to do in the event of danger. The door terminal can be supplied for the specific installation type you require.



Surface-mounted

The rugged surface-mounted TL-G terminal housing for installation of our TL-S interface board.

- Rugged aluminum alloy housing
- Anti-tamper protected
- Comprehensive range of accessories
- With pre-installed power supply unit option
- For installation of TL-S control PCBs

Flush-mounted

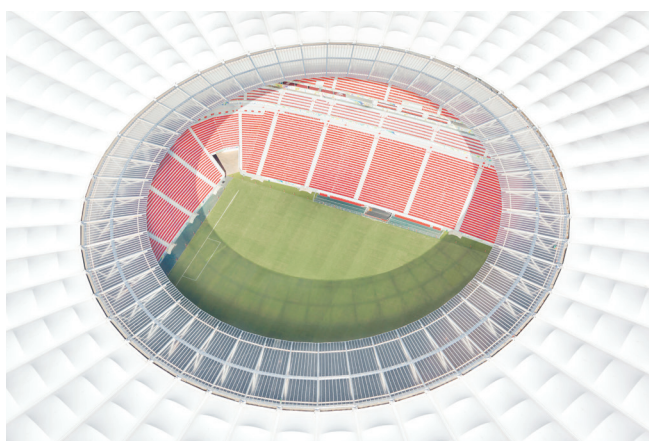
The elegant DCW® flush-mounted terminal TL-UP for connection to emergency exit controls by DCW® bus.

- Attractive design, matches all common switching device series (including Jung, GIRA System 55)
- Freely configurable with TMS Soft

Concealed installation in the door frame profile

The DCW® terminal TL-Profile for frame installation and connection to emergency exit control units by DCW® bus.

- For door frame or door leaf installation, suitable for most narrow-stile doors
- Blends harmoniously with the door surroundings
- Freely configurable with TMS Soft
- Ideal solution where space is tight or where freestanding columns are not desirable



Perfect team work: Emergency exit and escape route solutions for stadiums and multifunctional arenas.

Every week, hundreds of thousands of fans make their pilgrimage to stadiums, sports halls and multifunctional arenas. Our high-performance access solutions make sure that they remain safe and secure.

- Safe evacuation in an emergency, even with the likelihood of panic
- Safe departure also ensured after the game or concert
- Prevention of uncontrolled access (e.g. where large crowds have gathered; identification of barred individuals; confiscation of prohibited pyrotechnics)

World Cup stadium in Brasilia
We supplied a wide range of emergency exit systems (including PHA 2000) for this famous arena, enabling barrier-free emergency exit control together with maximum spectator safety.

RELIABLE RETENTION

Dependable locking and unlocking of doors.

In Europe, electromechanical door locking devices are required for regulation-compliant emergency exit security systems. They keep the doors securely closed and unlock them immediately on release/activation by the emergency pushbutton, an emergency unlocking operation, authorized release by key switch or keypad, and in the event of a power failure.

Benefits:

- Side load immune opening
- Anti-tamper and door status monitoring with integrated checkback contacts
- Simple installation, ideal for retrofitting
- Suitable for mounting on fire and smoke check doors
- Suitable for integration within TMS (door management systems) and emergency exit control systems by DCW® bus



The dependable and cost-efficient retrofit solution

TV 100/200 series

- Electromechanical/electromagnetic door locking devices
- Installation on door frame makes them ideal for retrofitting
- TV 200 electromagnetic door locking device offers additional three-dimensional adjustability



Especially designed for doors in high-security areas

TV 300 series

- Electromagnetic door locking device
- High retention force thanks to several, individually monitored magnets
- Ideal for doors subject to particularly high security requirements (e.g. in prisons, forensic laboratories)
- Concealed installation for anti-tamper protection



Elegant, concealed door frame installation

TV 500 series

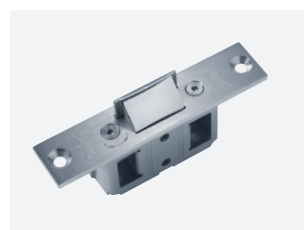
- Electromechanical door locking device
- Inconspicuous and tamper-proof thanks to frame integration
- As an “emergency escape electric strike,” combines the characteristics of an electric strike with those of a fail-safe electromechanical door lock



Lock and electronic keep in one

TV 550 series

- Unites the advantages of an electronic keep with those of a fail-safe electric lock
- Combines good design with high security
- Compact dimensions for inconspicuous installation



TV-Z 510 mortise latch lock

- Counterpart to the TV 500 for installation in the door leaf, with adjustable latch
- Adjustment without removing or dismantling of the latch lock



More security on the ground: Emergency exit solutions for airports.

In airports, our emergency exit security solutions are complemented by reliable access control systems. These ensure that only authorized personnel are able to enter the security area.

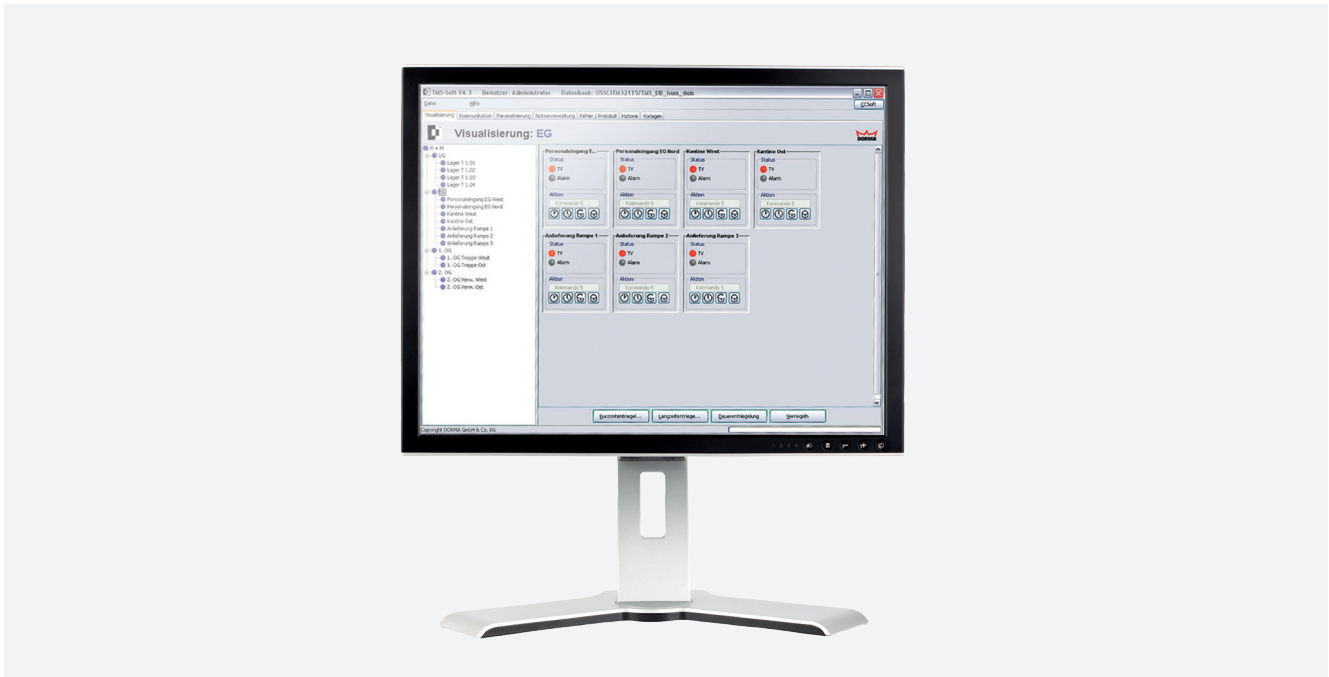
- Fast evacuation of passengers and staff in the event of an emergency
- Strict security regulations readily satisfied
- Simple integration of emergency exit security and access control systems (key, smart card or code-secured) by DCW® bus

Munich Airport

Over 500 doors within Munich Airport are monitored and controlled with our TMS door management system.

EASY MONITORING

Convenient door management by PC and App.



TMS Soft: The PC software for enhanced door management convenience.

TMS Soft has been developed for the clear visualization and easy real-time

- control
- administration
- monitoring and
- documentation

of an unlimited number of doors and door functions within our door management systems.

Everything centrally controlled

All functions and settings can be readily configured via the clear and uncluttered user interface.

Ideal for complex systems

Customer-specific requirements can also be simply satisfied with TMS Soft without undue expense.

Limitless expandability

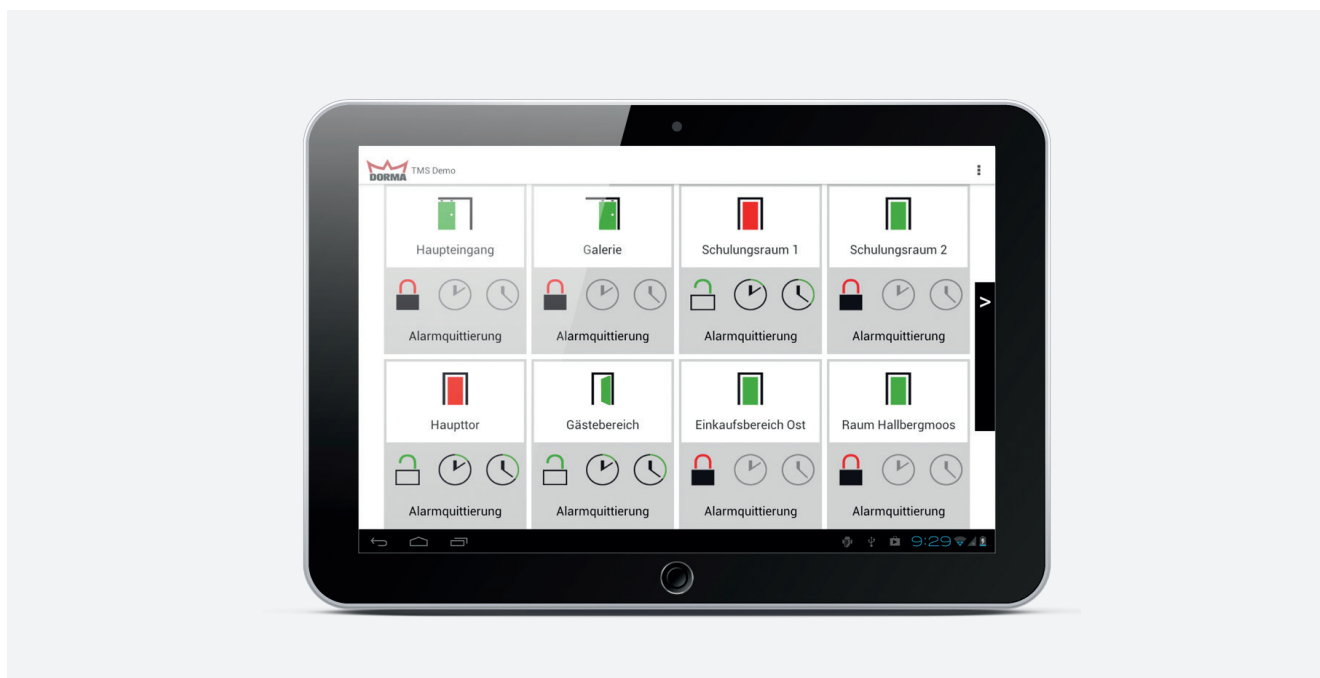
- Networking via LAN or LON
- Implementation of airlock control functionalities
- Integration and real-time control of other DCW® components (e.g. automatic swing and sliding door operators, SVP/M-SVP locks, access control readers)

Compatible with the all common third-party systems

With the expansion module TMS OPC Server and the ESPA software interface, TMS Soft can be integrated via LAN/LON, OPC and ESPA within all commonly installed building and security management systems.

DoorManager for realistic building visualization

The DoorManager's freely configurable graphic interface allows the incorporation of individual building and floor plans. All emergency and escape route functions can thus be displayed and controlled with even greater accuracy.



The TMS App: Smart door management for offices, schools and more.

With the TMS App for Android devices, we are able to make the most important functions of TMS Soft available within the mobile environment – ideal for caretakers and security personnel in office buildings, schools and many other establishments.

Real-time status display

- Intuitive door-open monitoring function – immediate visualization of which doors are open and need to be locked
- Automatic swing and sliding doors can also be incorporated

Easy operation

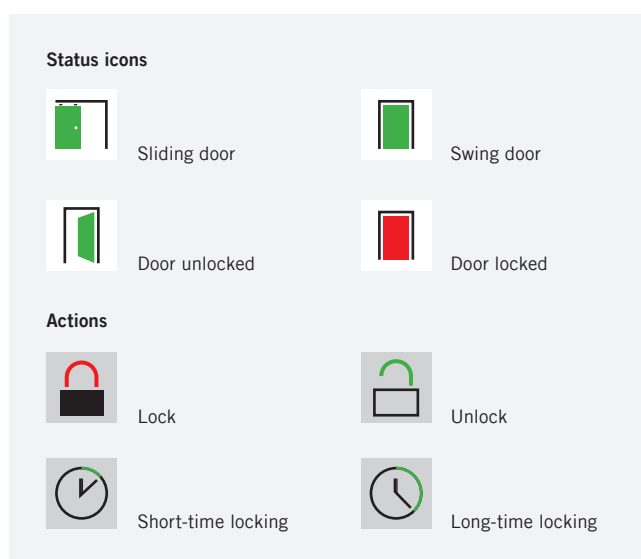
- Uncluttered, user-friendly display
- Reduced down to the primary functions
- Avoidance of accidental programming error

Fast alarm response

- Immediate indication and localization of incoming alarm signals
- Tablet with app can be taken on patrol through the building – a particular benefit in the event of an alarm*

Inexpensive and flexible

- Several tablets can be incorporated and individually configured
- Password protection possible
- No GSM costs as operates within local network



* Within the area covered by the existing WLAN

INDIVIDUAL EXPANDABILITY

Accessories for reliable opening, closing, locking and controlling.



PHA panic hardware system

- Rugged panic bar range for single and double emergency exit doors
- Satisfies the highest requirements relating to security, reliability and aesthetic elegance



ST 55 DCW® key switch

- Easy to install, tamper-protected key switch for TMS door management systems
- Also available with DCW® system bus and LED status indicator (red/green)
- For surface and flush mounting
- Functions can be configured within TMS Soft



TMS panel

- For the central control of emergency exit doors and standard doors
- Ideal for airlock control applications or security areas in which emergency exit doors have no emergency pushbutton of their own and therefore have to be externally released



RM-N smoke detector

- For the early detection of smoldering and open fires with smoke or fume development
- Can be connected to all DORMA hold-open systems



ED 100/200 automatic swing door operators

- Ideal in combination with PHA panic bars on emergency exit doors



MATRIX software platform

- This intelligent software platform enables you to expand your TMS door management system with ease to include the components
- Access control
 - Time recording and
 - Time management



MATRIX AIR system

- The first electronic fitting that is as flat as a standard door fitting
- The flattest-ever electronic fitting
 - Fast, simple, wireless installation thanks to app
 - Telescopic technology: cylinder can be installed without detailed measurement of the door; cylinder adapts to the door thickness



SES-UP

- Illuminated escape route sign

**By the way:**

Automatic sliding doors provide for barrier-free access in many retirement homes and hospitals. But what happens if there is a power failure? Then, a back-up storage battery ensures that the doors are automatically actuated to their open position, enabling safe escape.

ACCESS SECURITY



SECURE FROM THE OUTSIDE, EASY PASSAGE FROM THE INSIDE

The new generation of emergency escape locks with automatic locking action for solid doors.

The emergency escape locks and multi-point locks with automatic locking action are the ideal solution to ensuring door security. The automatic locking function ensures that the door is always locked by a 20 mm throw deadbolt as soon as

the door latch re-engages. With the integrated emergency escape function, the door can be opened at any time in the escape direction by simply operating the lever handle.



SVP 5000 / 6000



SVP emergency escape locks

The improved functions of the emergency escape locks not only simplify door opening, they also offer multiple installation advantages. Pre-configured, they are ready for operation:

Security:

- Automatic door locking after each closure
- Property insurance compliant lock with 20mm deadbolt throw
- Two-point locking with deadbolt and engagement of the clawbolt latch
- Emergency escape function ensures the door will always open in the escape direction by simple operation of the lever handle

(not access control locks with automatic locking action)

- Trip latch operates as a function of door direction
- Pre-configuration of the trip latch for a failure-free, quick and easy installation
- **NEW:** Certification in accordance with EN 1125, EN 12209 and EN 14846

Convenience:

- Improved power ratio for smooth unlocking even under impeding conditions

SVP solutions available in various configurations for timber/wide stile doors:

SVP 5000:

- Mechanical lock for easy retrofitting without wiring

SVP 4000:

- Electrical switch-monitored lock

SVP 2000 DCW®:

- Motor lock with electrical sequential control for increased protection
- **NEW:** Simple integration within the DCW® bus system (DORMA Work & Connect) for effortless control of communication between several access control components in a building

SVP 6000:

- Electrically monitored lock with decoupling external lever handle
- **NEW:** Flexible adaptation of fail-safe and fail-secure modes
- Universal voltage alignment from 12V to 24V DC



Power Reserve Module

The Power reserve module applies in an event of a power failure during an unlocking action to ensure ongoing door security. Thus, the lock re-engages, drives into its original position and shuts down.

THE BATTERY-POWERED EMERGENCY ESCAPE LOCK

SVP 7000 Air. For wireless integration.

The innovative SVP 7000 Air enables hassle-free integration in an access control system for existing buildings in which a more invasive retrofit is not possible. The integral battery-powered radio unit offers all the benefits of stand-alone wireless locking and unlocking of the door, making the system ideal for use on emergency exit, fire and smoke control doors.


Convenience:

- Effortless retrofitting thanks to wireless installation
- Easy programming of up to 100 users directly at the radio lock
- Seamless integration in existing access control system (e.g. with the DORMA MATRIX Software platform)

Security:

- Automatic locking action keeps doors secure once they are closed
- Thanks to the emergency escape function, the door can always be opened in the escape direction by operation of the lever handle
- Ideal solution to implement an electronic access control compliant with property insurance requirements
- Handheld radio transmitter required for authorized access from the secure side



The radio-controlled SVP 7000 Air. 



The handheld radio transmitter



THE MULTI-POINT EMERGENCY ESCAPE LOCKS

M-SVP. For double-leaf and single doors.

Thanks to their automatic three-point automatic locking action, our multi-point locks offer an even higher degree of protection against burglars and intruders when fitted to the right kind of door system.

NEW: The new generation of M-SVP locks can also be fitted to double-leaf doors.



Advantages:

- Automatic locking action keeps doors secure once they are closed
- Thanks to the emergency escape function, the door can always be opened in the egress direction by operation of the lever handle
- Increased anti-intruder security with automatic multi-point locking by means of 20 mm dead-bolts, with extra latch bolts on top and bottom for additional protection
- Certification in accordance with EN 179 and EN 1125

M-SVP solutions available in various configurations:

M-SVP 5000 (single door) / 5500 (double-leaf door)

- Purely mechanical multi-point lock with emergency escape function

M-SVP 3000 (single door) / 3500 (double-leaf door)

- Electro-mechanical multi-point lock with emergency escape function and motorized unlocking

M-SVP 2200 DCW®

- Motorized emergency escape multi-point lock with integrated interface to DCW® bus system (DORMA Work & Connect)

M-SVP SB (single door)

- Strike plates for the top and bottom latch bolts and magnetic contacts

M-SVP GK (double-leaf door)

- Panic keep for M-SVP 3500 and M-SVP 5500 locks for unlocking at the inactive leaf

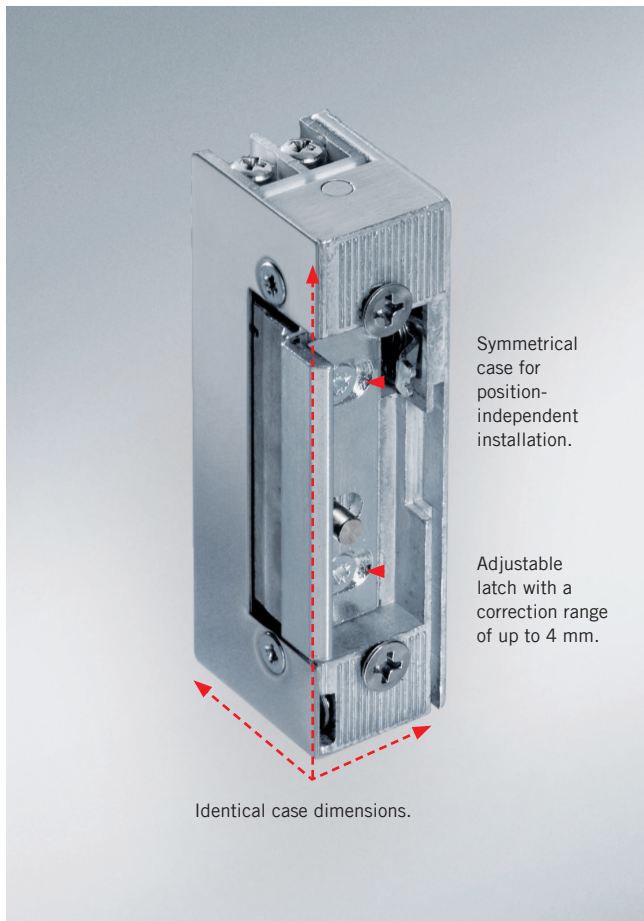
M-SVP 3500

ACCESS AT THE PUSH OF A BUTTON

Electric strikes for convenient door security.

Electric strikes, i.e. combined with intercom systems, provide easy-release access on most doors encountered in private, public and commercial premises. They offer pushbutton con-

venience while enabling effective control of who is allowed into a building, ensuring the secure locking of doors in various service duty categories.



Standard electric strike range for DC and AC voltage:

Uniform features:

- Position-independent installation thanks to symmetrical electric strike case (LH/RH reversibility)
- Adjustable latch to compensate for fixing tolerances
- Optional checkback signaling function for status monitoring
- All DC voltage strikes rated for 100% continuous duty

All DC voltage strikes also available with integrated lucky strike function:

- Reliable unlocking and release of the door under pre-load
- Switch-off of audible signal tone on activation
- Multi-voltage capability: 12-24V DC
- Additional GL rectifier module enables the operation of Lucky Strike for AC voltage

Basic (standard-duty model)

- Available as a fail-safe and fail-secure unit
- Optional mechanical holding and mechanical deactivation functions

Smoke (smoke-rated model)

- Certificate of approval as a reversible smoke-rated unit

Fire (fire-rated model)

- Certificate of approval as a reversible fire-rated unit



SECURITY FOR DOUBLE-LEAF DOORS

HZ automatic inactive-leaf locking devices.



HZ inactive-leaf locking devices are an excellent solution for all double doors featuring automatic re-engage SVP emergency escape locks and/or automatic operators:

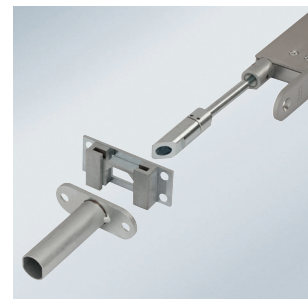
- Different flush bolt models for timber and metal doors
- Flush bolts suitable for installation top and bottom
- LH, RH and non-handed models
- Suitable for use on fire and smoke check doors

Unlocking

Automatic release of inactive leaf once active leaf is ajar

Locking

- Closing of active leaf prior to inactive leaf by door coordinator
- Automatic locking of the inactive leaf by the active leaf pushing in the side latch of the HZ component causing the flush bolt to extend



Flexible components ensure functional reliability

HZ 43-F

- Simplified installation through the insertable split spindle preventing the opening and removal of the corner of the door leaf
- Angled and flexibly mounted latchbolt to enable absorption of assembly and installation tolerances while increasing functional reliability

ABLY RETENTIVE

EM. Easy retrofit with electro magnetic locking.

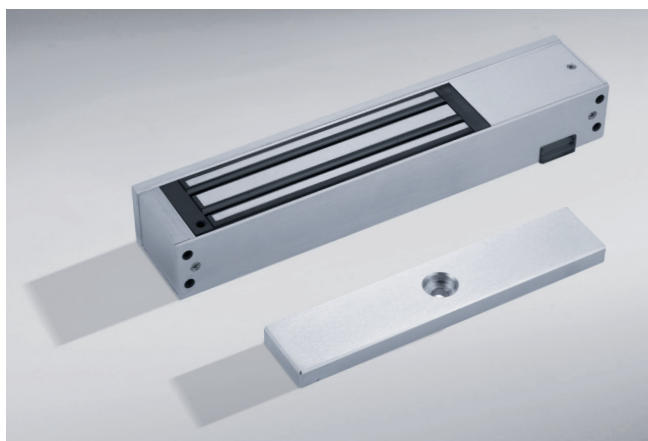
EM magnets can be used wherever there are no emergency exit or escape route requirements to be fulfilled. They come in a range of models to suit every safety demand and can be combined, for example, with an access control system or used instead of an electric strike where higher holding forces are required. Thanks to their ease of installation and incon-

spicuous appearance, EM magnets are an excellent retrofit solution:

- All magnets with electro-magnetic locking
- Anti-corrosion protected, sturdy metal case
- Suitable for temperatures between -60 and +80°C
- Designed for connection to 12 V or 24 V DC supplies

Series	EM 1800	EM 3000	EM 5300	EM 6900	EM 7500	EM 15000
Holding Force	1800 N	3000 N	5300 N	6900 N	7500 N	15000 N
For mounting on the frame	•	•	•	•	•	•
For installation within the frame	•	•	–	•	–	–
Checkback signalling (locked/unlocked status)	○	○	•	•	•	•
Lock status indicator	–	○	○	•	–	–
Use in conjunction with double-action door	–	–	–	–	•	•
2 magnets for double-leaf doors	–	–	•	–	–	–
Water-protected stainless-steel construction	–	–	–	–	•	–
For external applications	–	–	–	–	•	–
Slender design	–	•	–	–	–	–

• yes – no ○ optional



EM 3000



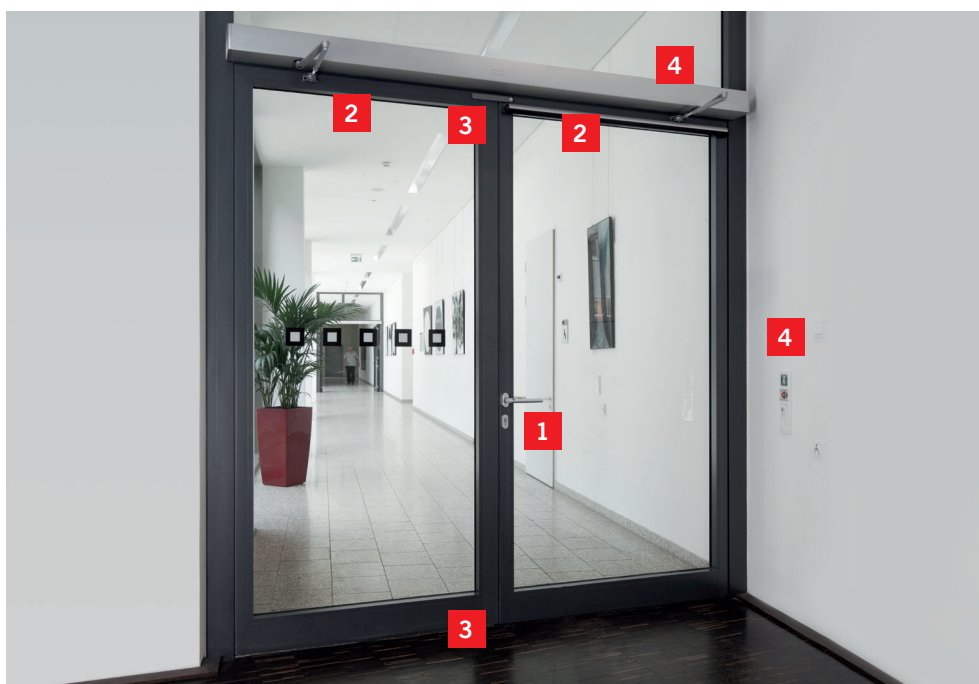
EM 6900

FOR EMERGENCY EXIT AND ACCESS CONTROL

Operation of access security components in integrated systems.

The specific strength of our product portfolio becomes particularly apparent in the combination of different components in a system, involving complex emergency exit control systems. Access security components make an essential

contribution to satisfying special functional requirements in tailored door systems, increasing reliability, convenience and protection of doors.



Example of emergency exit and access control

1 SVP 2000 emergency escape motor

Motor lock with tamper-protected detectors

- Access control function: Once the ID reader has confirmed authorised access, it disengages the motor lock
- Emergency exit control function: The door can be instantly opened via its

panic unlocking mechanism to allow unhindered escape

2 TV 500 DCW® electronic keep

Electro-mechanical door locking device/electric strike designed for concealment in the door frame

- Access control function: Once the ID reader has responded to an authorized access ID, it releases the electronic keep

Emergency exit control function:

- Door can be opened without ID to allow unhindered escape
- Operation of the emergency pushbutton immediately disengages the electronic keep

3 HZ 43-F automatic inactiveleaf locking device

- Suitable for all double-leaf door systems
- Emergency exit and

access control functions:

- ED 250 automatic swing door operator first opens the active leaf after the disengagement of SVP 2000 and TV 500
- HZ inactive-leaf locking devices disengage subsequently and ED 250 opens second leaf
- Door coordinator in the operator ensures closure of inactive leaf prior to closure of active leaf
- Initiation of automatic relocking

4 Other DORMA components illustrated in the example

- RZ TMS 2 emergency exit control
- Concealed System 55 TL door terminal including emergency pushbutton and keyswitch
- System 55 DCW® ID device reader
- ED 250 automatic swing door operator



DORMA Deutschland GmbH
DORMA Platz 1
58256 ENNEPETAL
GERMANY
Phone +49 2333 793-0
Fax +49 2333 793-4950
www.dorma.com