



ITM

INTELLIGENT DOOR MANAGEMENT

■ SYSTEM TECHNOLOGY FOR THE DOOR



CONTENT

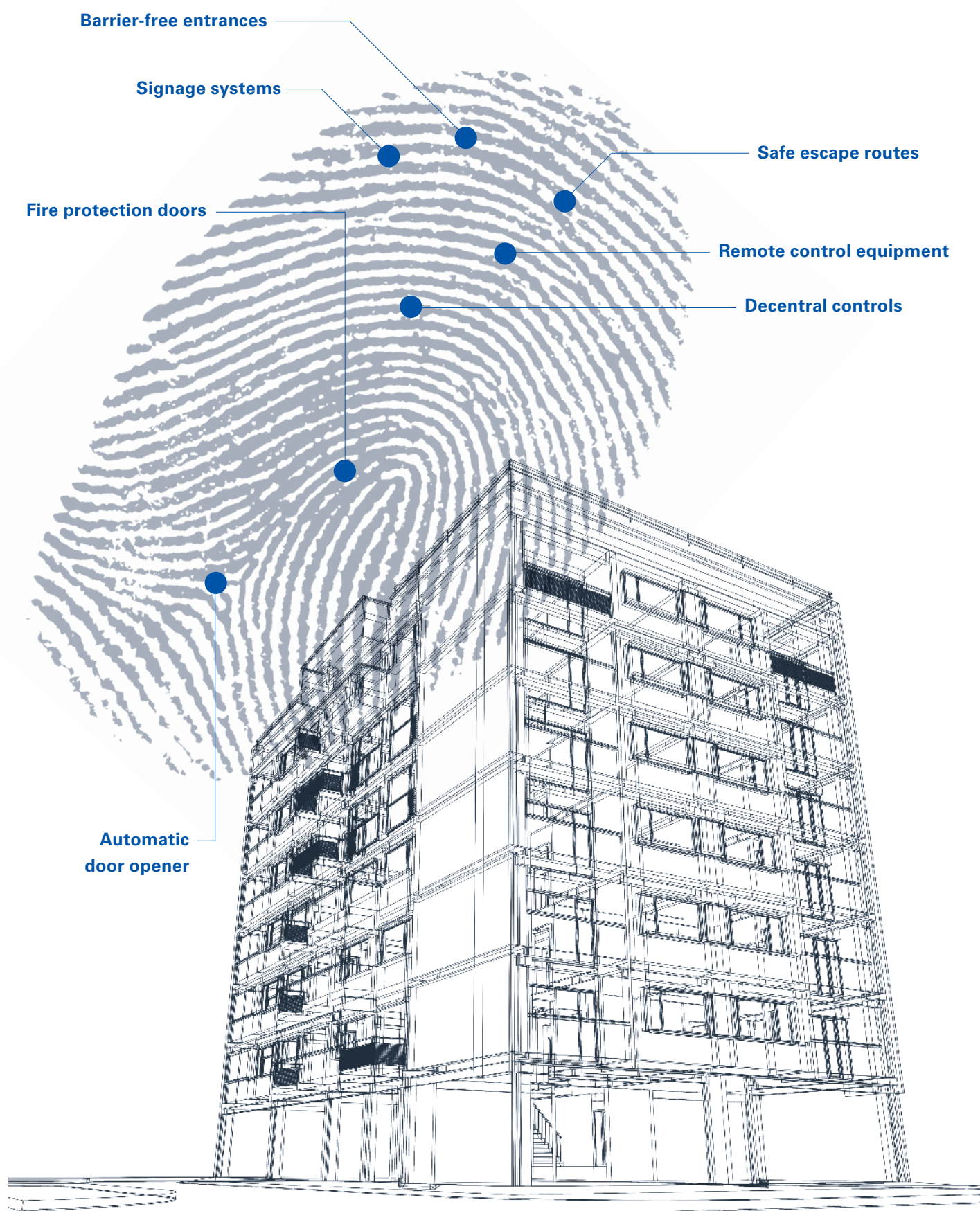
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HOW ELECTRONIC SHOULD YOUR DOOR BE?

Architecture goes Internet: The door is one of the central issues in the building management systems (BMS).

ECO Schulte offers open-interface solutions for individual needs. We guarantee you a future-proof solution.





ITM – INTELLIGENT DOOR MANAGEMENT

ALL OPTIONS ARE OPEN

Doors control access into and within a building. What could be more logical than automating this access or even integrating it into the building management system? Visitor flows can be more effectively controlled and monitored this way – in all situations, in everyday operations as well as in emergencies.

Mechanics, mechatronics and IT are merging at our company under the name **ITM – Intelligent Door Management**, which is producing revolutionary complete packages with corresponding **engineering and service products**.

ITM – solving complex tasks

Each building is a highly individual project that reflects the use, needs and aesthetic values of its owners and users. By extension this means that behind every door there is an extensive catalogue of requirements made up of user needs and security architecture. **Only networked doors can articulate a response to increasingly complex demands.**

But this complexity requires specialists in every sub-section. ECO Schulte is fully committed to upholding the **expertise of the specialist** and to concentrating on its core business. We cooperate closely with other medium-sized specialist enterprises to tackle the challenges of complexity.



From multi-storey car parks to clinics and from offices to banks: the level of door networking must be developed individually for each building.

FROM PLANNING TO THE **COMPLETE SOLUTION**

Intelligent Door Management makes high demands on both the mechanical and the electronic components. The planning for all parties involved in the construction process is just as demanding – no matter whether this is on the part of the contractors,

the architects, the specialist planners for technical building equipment or the companies that carry out the work.

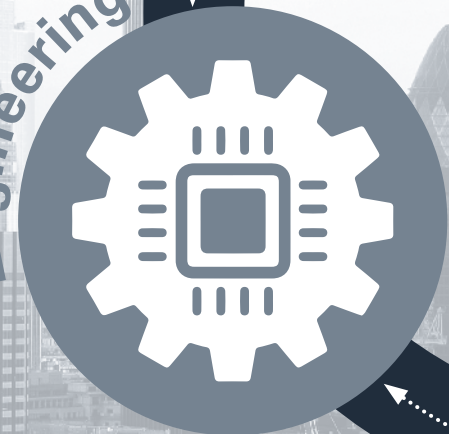
**DESIGN CONTRACT
COMPLEX
DOOR MANAGEMENT**



Mechanics



Engineering





As a system specialist for doors we are able to put together a complete, turnkey offer for any demanding door facilities. This can take account of all aspects including security, access control, escape routes and fire protection. ECO Schulte sees itself here as a system integrator – even for solutions involving different manufacturers. Any change of use of existing facilities are also possible here if, for example,

existing components can be taken over. Planners and contractors can expect a complete package of hardware, software and electronics as well as planning and service from ECO Schulte. And of course the guarantee that the system, as well as each individual component, conforms with the current standards. solution.



STAND-ALONE VS. CONNECTED INTELLIGENT SYSTEMS

Stand-alone

Decentralised applications regard the door as an autonomous functional area and enhance its mechanical core function with convenience or control features, or with additional security elements. These are particularly popular for smaller properties, commercial enterprises, surgeries or smaller educational

institutions. At the door, they are primarily aimed at security functions. Examples include access controls, alarms, smoke ventilation and fire protection. ECO Schulte offers solutions for this to create complete packages that fulfil every possible need.

Network

Building automation and higher levels of networking are required above all in industry, office buildings, hotels, clinics and large residential complexes. At ECO, we place a high priority on open-interface integration of door hardware into the building management system. We also formulate package solutions. These packages manage crisis situations as well as everyday routines. They enhance security, user

comfort, and efficiency. They display the door within the building infrastructure and create control instruments. ECO Schulte sees itself as a moderator of all network-connected technologies on the door: we design and develop solutions and coordinate interfaces for smooth development of the best, needs-based solution.



Networking of all doors, control and monitor by APP or PC





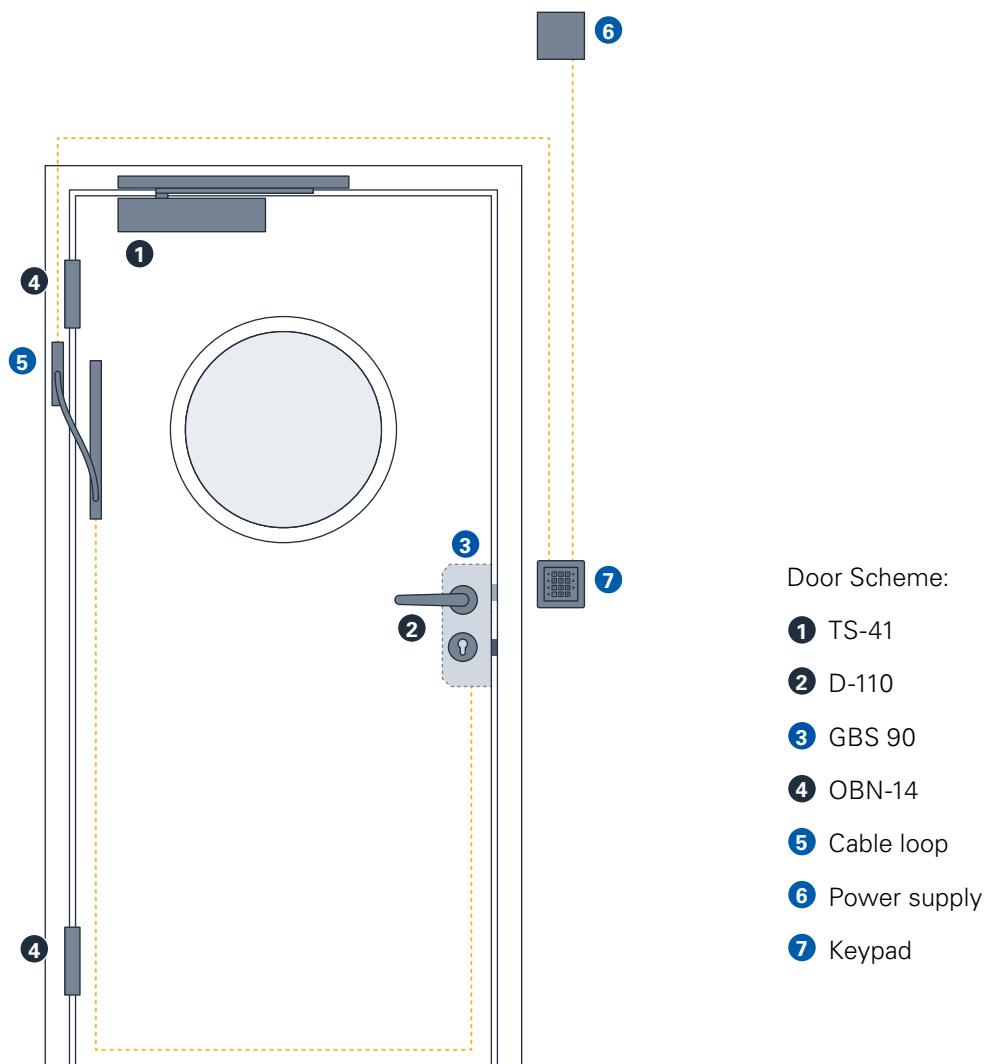
PLANNING MADE EASY

SET SOLUTIONS

Sometimes, there is a simple solution to complex tasks. This is where ECO door planning comes in. It helps to visualize the complete door schematics and thus make it easier understandable for all involved parties. The door schematics include the recommended product positioning on the door as well as the required cabling. Some door schematics were added to the product categories on the next pages.

These pre-assembled schematics represent sample set solutions which cover typical tasks in the planning, design and networking of a door.

We think for you, from your perspective – and this perspective is your next door. Your next door is our benchmark.



HARMONIOUS DOOR MOVEMENT

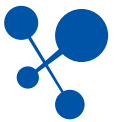
ETS OPERATORS

The ETS door operators from ECO are powerful, low-noise, electromotive drives for internal and external doors up to 400 kg (250 kg for fire protection / smoke protection doors). Equally suitable for new facilities and modernisations.

Versions and functions:

- Slide rails pushing (BG) and pulling (BS)
- 1- and 2-leaf systems with continuous cover
- Integrated, concealed closing sequence control for fire/smoke protection doors (in the universal cladding)
- Integrated, concealed smoke detector





THE HIGHLIGHTS

ETS OPERATORS

Low energy mode

The Low Energy setting is specially developed for private households or office and work areas with limited public frequency. Safety sensors can be dispensed with here, there are limitations, however, on door weights and movement speed.



Powerful device

The ECO ETS has a strong power unit that safely opens and closes door leaves up to 250 kg in weight and up to 1.600 mm in width (EN 7). This provides secure automation for external doors that may experience strong wind loads as well as heavy fire protection doors.



User-friendly settings

The ETS has a simple, user-friendly setting function for all parameters. This is provided by the display panel with joystick function on the control board. A menu style checklist makes it easy to configure the initial operation on site. All parameters can also be configured at a later date or to suit any new operational requirements.



Wind load control

The wind load control is there to adapt the smooth operation of outer doors to different air pressure conditions. A briefly occurring increased wind load (e.g. a strong gust) is recognised by the drive. The control now calculates the additional motor performance so the door can operate in a virtually unimpeded way.





ETS 73 swing door operator

- Power size EN 3-7
- Max. door width 1,600 mm
- Max. door weight 250 kg
- Special version for max. door weight 500 kg available on request
- Size (length x depth x height) 690x120x95 mm
- Certified to DIN 18650, EN 16005 and EN 1634
- Built in full power and low energy mode
- Adjustable spring closing force (in non-electric mode)
- Stainless steel cover
- Built in display and joystick
- Adjustable parameters (e.g. opening and closing speed, delayed action)
- Easy operation with illuminated keys in the side panel (Automatic-Permanent Operation-Manual-Exit-Night)
- Supply voltage 24 V DC
- Operating voltage 230 V AC



ETS 42 swing door operator

- Power size EN 2-4
- Max. door width 1,100 mm
- Max. door weight 150 kg
- Size (length x depth x height) 730x125x70 mm
- Certified to DIN 18650, EN 16005 and EN 1634
- Built in full power and low energy mode
- Adjustable spring closing force (in non-electric mode)
- Stainless steel cover
- Built in display and joystick
- Adjustable parameters (e.g. opening and closing speed, delayed action)
- Easy operation with illuminated keys in the side panel (Automatic-Permanent Operation-Manual-Exit-Night)
- Supply voltage 24 V DC
- Operating voltage 230 V AC



NG-ETS standard arm

- For push or pull mounting
- Used with ETS-73 or ETS-42
- NG-ETS 250 for max. 250 mm lintel depth
- NG-ETS 400 for max. 400 mm lintel depth



GS-ETS slide rail

- For push or pull mounting
- Used with ETS-73 or ETS-42
- Slide rail GS-ETS 620 for max. 30 mm lintel depth
- Slide rail GS-ETS 830 for max. 200 mm lintel depth



Smoke switch ORS 142 W - Standard

- Smoke switch
- White color (RAL 9016)
- Supply voltage 18 to 24 V DC
- Incl. covering hood



D-BEDIX control device for ETS

- Operating console for ETS
- For door setting and operation mode change
- Display shows the type of operation, menu settings and possible errors



Clamping pieces

- Extension shaft for special mounting
- Clamp short (-13 mm)
- Clamp 20 (+20 mm)
- Clamp 50 (+50 mm)





Radar Eagle One

- Motion detector with microwave technology and unidirectional sensor
- Mounting height from 1.8 to 4 m
- Supply voltage 12 V to 24 V AC, 12 V to 24 V DC



Flatscan

- Sensor for swing doors to secure the width and height of the door leaf
- Black color (RAL 9005)
- Supply voltage 12 V to 24 V DC
- Set consisting of 2 sensors (hinge side and hinge opposite side)



Sensor strip set IV

- Sensor for swing doors to secure the movement area
- Supply voltage 12v to 24V AC , 12V to 24V DC
- Set consisting of 2 sensor stripes per leaf, max. width 1,600 mm



Sensor strip set IV S

- Sensor for swing doors to secure the movement area
- Supply voltage 12v to 24V AC , 12V to 24V DC
- Set consisting of 2 sensor stripes per leaf, width 400 mm



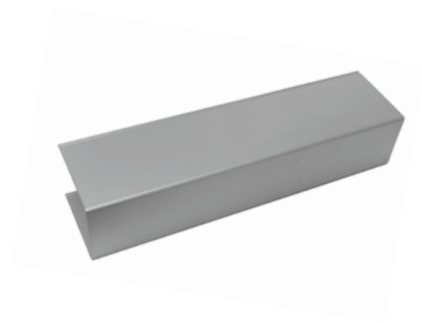
Remote control

- Remote control for ETS
- Range up to 10 m
- Set consisting of remote print for ETS and hand transmitter



Cladding for double leaf doors

- Consisting of assembly profile, stainless steel cladding and accessories
- Set 1 1,200 mm long for two-leaf doors up to 2,600 mm



Open stop for ETS (OA)

- Mounted on the power unit to provide additional mechanical open stop
- Can be used in combination with the standard arm and slide rails (not possible in combination with the short clamps)



Mounting plate for ETS (MPL)

- Necessary for use in fire protection and for mounting on walls or narrow frame facings



THE COMBINATION TALENT

FTA ECO VENT

In projects there are many challenges, especially if exit security with smoke/heat ventilation requirements and security must be combined.

It works in daily operation as an easy opening door closer, in case of panic like an emergency exit terminal and in case of fire like a smoke extraction system.

The new FTA ECO-Vent meets all these challenges in a unique system – which is completely installed on the inside of the building.





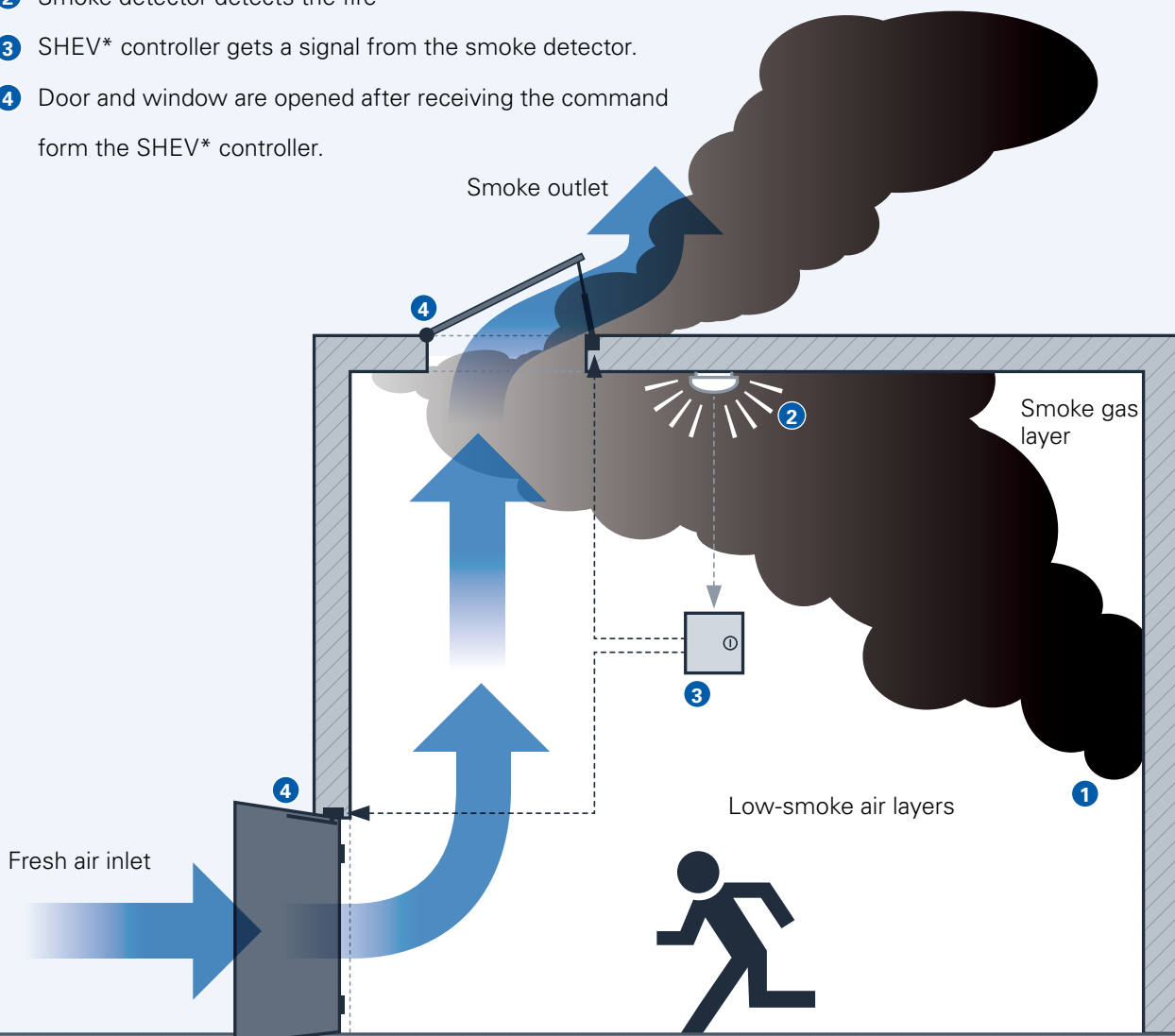
SMOKE EXTRACTION CONCEPT

FTA ECO VENT

For smoke extraction concepts based on natural uplift principles, precisely trimmed opening of doors and windows is necessary to ensure that poisonous gases escape from the building as quickly as possible. Over a certain period, this produces stable, low-smoke air layers near the floor that allow people

to escape by themselves, thus saving many lives. Smoke extraction also makes the fire brigade's job more efficient and prevents or at least delays the dreaded flash-over, in which pyrolysis gases can ignite suddenly.

- 1 Fire
- 2 Smoke detector detects the fire
- 3 SHEV* controller gets a signal from the smoke detector.
- 4 Door and window are opened after receiving the command from the SHEV* controller.



*SHEV: Smoke and Heat Exhaust Ventilator

FTA ECO-Vent

- System for smoke and heat extraction
- Set consisting of TS-62 door closer, FTA 600 R folding arm drive, assembly angle and stainless steel cover
- Certified to EN 1154 A and EN 12101-2
- CE-marked
- Compatible with all common RWA systems
- Fullcover made of SS 304
- Usage

In daily operation the door is controlled by the TS-62 cam-action door closer

In emergency situation the door is opened by the folding arm drive to provide natural ventilation in the building





TS-62

- Power size EN2-5
- Max. door width 1400 mm
- Latching speed, closing speed, back-check and delayed action continuously adjustable
- Cam-action door closer for easy access and low opening forces
- Complies with "Barrier Free Access" standards around the world such as DIN Spec. 1104, DIN 18040, BS 8300:2001 DDA, PMR

FTA 600 R

- Supply voltage 24 V DC
- Max. opening angle 90 degrees
- Running cycle 45 seconds (2° per second)
- Torque max. (opening and closing) 250 Nm
- Pullout force 300 kg



SECURITY THAT STANDS OUT

ELECTRONIC LOCKS

The electronic lock product range is the ideal and proven solution wherever security becomes important. The locks follow the proven concept of automatic locking through all available bolts. The result: increased security with smarter opening comfort.

The opening comfort was well thought through during the design stage. From fully motorised locks (MT-Series) to half motorised (AT-Series) or simple

solenoid panic locks for access management. All doors can be operated electronically or be controlled through the Building Management System.

The electronic lock range from ECO Schulte leaves no door unlocked.





THE HIGHLIGHTS

ELECTRONIC LOCKS

Innovative combination of bolts

The hook bolts grab into the special strike plate to provide a reliable and secure locking of the door.

Different locking points

The MT-Series offers in total 8 locking bolts thereof 2 hook bolts for a secure fixation inside the frame or passive leaf. The AT-Series offers 6 locking bolts thereof 2 hook bolts.



MT 881GL AT 836

Unlocking in less than 0.5 seconds

The automatic function eliminates the locking process. The motorised opening is realized with a powerful double motor principle resulting in an unlocking in less than 0.5 seconds.



Noise-free operation

The AT-Series is equipped with silent latches as well as special components inside the lock case to reduce the noise and ensure a soft closing.



High performance magnets

Maintenance-free and durable release of the bolts (AT-Series) through high-performance magnets.





MT 881GL



AT 836

MT 881GL

- Multi point motor lock
- Opening and closing by motor
- Usage
Security housing entrance doors with a connected access control system (e.g. card reader, finger print) from the outside or standard doors that are controlled by an access control system and require additional security
- PZ 92
- Backset 35, 55 and 65 mm
- 8 or 9 mm follower
- 20 mm bolt throw
- 8 locking points thereof 2 hook bolts for extra security
- U-type forend 24 mm x 6 mm
- Forend length 1790 mm
- Motor drive equipped with LED connector for lock status indication on the outside of the door

AT 836

- Multi point motor lock
- Opening by motor and automatic mechanical closing
- Usage
Security housing entrance doors with a connected access control system (e.g. card reader, fingerprint) from the outside or standard doors that are controlled by an access control system and require additional security
- PZ 92
- Backset 35, 55 and 65 mm
- 8 or 9 mm follower
- 20 mm bolt throw
- 6 locking points thereof 2 hook bolts for extra security
- Silent latch bolt for noise reduction
- Energy saving through the automatic and mechanical locking
- U-type forend 24 mm x 6 mm
- Forend length 1790 mm
- Motor drive equipped with LED connector for lock status indication on the outside of the door



GBS 90

- Solenoid panic lock with automatic locking
- Usage

Emergency exits with panic function from the inside and restricted access from the outside (e.g. access control systems with card reader) or standard doors controlled by an access control system (e.g. card reader, finger print)
- PZ 72
- Backset 55 and 65mm
- 8 mm or 9 mm follower
- 20 mm bolt throw
- Special functions
 - 02 = monitored dead bolt
 - 03 = blocked handle on both sides (fail safe)
 - 04 = blocked handle on both sides (fail secure)
 - 05 = handle on one side blocked (fail safe), blocked side to be defined (hinge vs. hinge opposite side)
 - 06 = handle on one side blocked (fail secure), blocked side to be defined (hinge vs. hinge opposite side)
 - 08 = 24 V version
- Excluding cable
- Certified to EN 12209, EN 179, EN 1125 and EN 1634



INNOVATION STRIKES AGAIN

ELECTRIC STRIKES

ECO Schulte has designed one of the most compact electric strikes in the world without sacrificing on the quality and safety. Every element has been reinvented to make the electric strike even smaller. Thus the ES 480 series is the perfect match for all kind of doors. The strikes feature new internal mechanisms to measure up to the highest technical requirements.



With less features than the ES 480 series, the series 350 has been designed to deliver the basic features into a small and compact model. Completely symmetric it incorporates a new configurable system that allows dual voltage.





THE HIGHLIGHTS

ELECTRIC STRIKES

New radial system

The new radial system of the ES 480 allows the keeper to rotate on its own axis. When the rotation is performed inside the mechanism of the box the installation of an electric strike becomes easier, less time consuming and more aesthetically pleasing.



Innovative new unlocking

The traditional mechanical unlocking system of the electric strikes was reinvented. Now it's much more precise and durable.



Longer lifespan of coils

The aim was to guarantee a longer lifespan for the electric strike. The DC 100% coils are equipped with an electronic protection to prevent electrical overload.



New coil positioning

Reliability assured with the coil's new position. The internal mechanism is more accurate and allows the product to work on any kind of door, whether it is DIN L or DIN R.





ES 480 Series

- ES 480 Electric strike series
- 9-24 V AC / DC
- Dynamic strength (door impact) 440 kg
- Break-in resistance (keeper's pressure) 480 kg
- Certified to EN14846
- Adjustable keeper made of zamac
- Stainless steel cover
- Various types:
 - ES 480-O = fail safe
 - ES 480-OS = fail safe with monitoring
 - ES 480-C = fail secure
 - ES 480-CS = fail secure with monitoring
 - ES 480-CK = fail secure with mechanical unlocking
 - ES 480-CF = fail secure F
 - ES 480-CSF = fail secure with monitoring F



ES 350 Series

- ES 350 Electric strike series
- 12 V AC / DC
- Dynamic strength (door impact) 440 kg
- Break-in resistance (keeper's pressure) 350 kg
- Certified to EN14846
- Adjustable keeper made of zamac
- Nylon cover
- Various types:
 - ES 350-O = Fail-safe
 - ES 350-C = Fail-secure
 - ES 350-CK = Fail-secure with mechanical unlocking



L01

- Forend 250x25x3 mm, square
- SS 304



S01

- Forend 159x25x3 mm, square
- SS 304



Fail-safe

The electric strike is locked when electrically activated.



ES480-O

Fail-safe with monitoring

The electric strike is locked when electrically activated. It features a microswitch that detects the status of the door (opened/closed).



ES480-OS

Fail-secure

The electric strike is unlocked when electrically activated.



ES480-C

Fail-secure with monitoring

The electric strike is unlocked when electrically activated. It features a microswitch that detects the status of the door (opened/closed).



ES480-CS

Fail-secure with mechanical unlocking

The electric strike is unlocked when electrically activated. It features a mechanical lever for manual release.



ES480-CK

SIMPLIFIED ACCESS

EM-LOCKS

Doors can be locked and unlocked by simply using the holding force of a low-voltage magnet. The ECO EM-Series offers solutions for high traffic areas inside a building. The various mounting applications can be covered through the wide range of acces-

sories and mounting brackets. All electromagnetic locks are equipped with a monitoring sensor to communicate the door status to the Building Management System as well as a LED to show the door status to the user.





THE HIGHLIGHTS

EM-LOCKS

On-site locking indication

A Bond sensor gives a visual to the user that the lock is powered; the fixing plate is in position and bonded through the magnet.



Door status monitoring

The integrated Reed switch sensor communicates the position of the door (opened vs. closed) to the Building Management System.



Noise-free operation

The electromagnetic locks are without any buzzing and provide throughout the day a silent operation inside the building.



Fail-safe design

The electromagnetics locks come with a fail-safe design which means the door is unlocked in case of emergency (e.g. power cut).





EM 280

- Electromagnetic lock
- For single leaf door
- 280 kg holding force
- 12 V / 24 V DC adjustable
- With monitoring and LED indicator



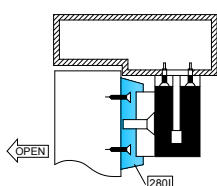
EM 280 D

- Electromagnetic lock
- For double leaf door
- 280 kg holding force
- 12 V / 24 V DC adjustable
- With monitoring and LED indicator



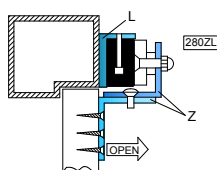
DL 300SLD

- Electric drop bolt
- Break-in resistance 800 kg
- 12 V DC
- With monitoring and LED
- Autolock delay (0/3/6/9 sec)



280I

- Bracket for fixing armature plate on door leaf
- Hinge-opposite mounted
- 192 x 45 x 16 mm
- High strength aluminum with sandblasting finish



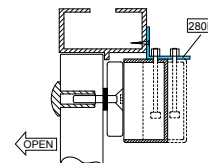
280ZL

- Z bracket for fixing armature plate on door leaf and a L bracket for fixing magnetic lock on frame
- Hinge side mounted
- Z: 180 x 50 x 50 mm
- L: 250 x 47 x 28 mm
- High strength aluminum with sandblasting finish



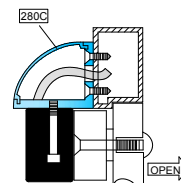
280L

- Bracket for fixing magnetic lock on narrow frame
- Hinge opposite side mounting
- 250 x 47 x 28.5 mm
- High strength aluminum with sandblasting finish



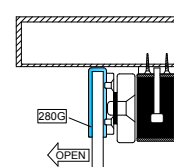
280C

- Bracket for fixing magnetic lock on frame
- Hides and protects wires
- Hinge opposite side mounting
- 250 x 48 x 42 mm
- High strength aluminum with sandblasting finish



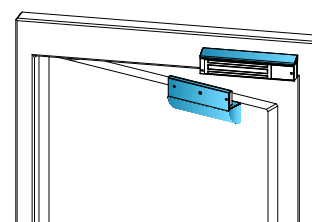
280G

- Bracket for fixing armature plate on door leaf
- For glass door leaf
- 184 x 45 x 37.5 mm
- High strength aluminum with sandblasting finish



280ZLC

- L Bracket for fixing magnetic lock on frame and C Bracket for fixing armature plate on door leaf
- Single leaf door available
- Hides and protects wires
- Hinge side mounting
- L: 253 x 30 x 61 mm
C: 207 x 56 x 103.5 mm
- High strength aluminum with sandblasting finish



280DZLC

- L continuous bracket for fixing magnetic lock on frame and C bracket for fixing armature plate on door leaf
- Double-leaves doors available
- Hides and protects wires
- Hinge side mounting
- L: 503 x 30 x 61 mm
C: 207 x 56 x 103.5 mm
- High strength aluminum with sandblasting finish



EFFORTLESS OPENING

CONTROL ELEMENTS

The purpose of control elements is the communication between the user and the door. This can happen through a simple switch next to a door. The switch sends a signal to the connected hardware and unlocks or open the door. More sophisticated control

elements are card readers or fingerprints. They grant only entrance to those who are authorized to be there. This means that the access can be monitored and managed.





THE HIGHLIGHTS

CONTROL ELEMENTS

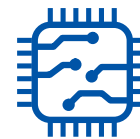
Timeless and durable design

The cover of the card reader is made by toughened glass which advantages are the increased strength and durability compared to normal glass. With a height of only 8.5 mm it offers a timeless design.



Patented sensor chips

Patented line sensor chips are used in the fingerprints FL11-02 and FL93-02. This sensor is using a patented swipe technology that provides high-quality images despite impairments such as wet, dry or worn-out fingerprints.



Simple and high-performance fingerprints

The fingerprints are offered in two versions (wall mounted and door or frame mounted). The concealed mounting in the door or frame provides a minimalistic solution with a size of only 75 x 44 mm.



Magic opening

The Magic Switch is a contactless sensor with a reach of up to 0.5 m which is five times more than normal contactless switches.




OPB 05

- Standard exit button
- Current Rating: Max. 3A, 36 V DC
- Output contact: NO / COM
- Nylon


OPB 06

- Piezoelectric exit button
- Current Rating: Max. 1A, 12 V DC
- Output contact: NO / COM
- Stainless steel


OPB 07

- Infrared sensor exit button
- Detection range: 4~10cm adjustable
- 12 V DC
- Output contact: NO / NC / COM
- Stainless steel
- With LED and time delay (1~25s adjustable)



FL11-02



FL93-02

FL11-02 / FL93-02

- Finger print reader for on-wall or in-wall mounting (FL11-02) OR concealed mounting in the door or frame (FL93-02)
- Programming via master finger or position number and key pad
- 8-24 V DC
- Line sensor ATMEL fingerprint, memory capacity 150 fingers
- With LED indicator
- Front plate: Stainless steel, white cover frame



Contactless motion detector (magic switch)

- Only for interior applications
- Responds from 10 to 50 cm
- Adjustment of detection field by potentiometer
- Incl. 84 x 84 mm nylon cover
- Suitable for flush-mounted assembly



CR 03

- Card reader
- 12 V DC
- Detection range: ≤ 50 mm
- IC and ID cards available
- Toughened glass surface
- With LED and buzzer



CR 04

- Card reader with touch keypad
- 12 V DC
- Detection range: ≤ 50 mm
- IC cards available
- With LED indicator and buzzer



CW 02

- Card issuer
- 5 V DC, USB port
- IC and ID cards available



IC Key Fob

- Type of chip: Mifare 1K
- Working frequency: 13.56 MHz
- Read/write range: 2.5~10 cm
- Response time: 1~2 ms
- Working temperature: $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$



INNOVATIVE ESCAPE ROUTE MONITORING **TERMINAL SOLUTIONS**

Doors equipped with an emergency exit terminal serve different purposes. Usually the emergency exit terminal consists of an emergency button, keypad or cylinder switch as well as a LED indicator. In normal operation people who want to leave the building through this dedicated emergency exit have to use the keypad or cylinder switch. This disables the locking of the door and releases the door without sending an alarm signal to the building management system. In case of emergency users unlock the door by pushing the emergency button. At the same time an alarm starts to signal that the alarm button was used. The unlocking of the door can be delayed up to 10 seconds.

The emergency exit terminal is provided with contacts for an external signal (siren, lamp, horn).

The emergency-open command can also be given directly by a facility management centre. The locking of the door is done through electromagnetic locks or additional electric strikes in combination to the normal panic door hardware.





THE HIGHLIGHTS

TERMINAL SOLUTIONS

FT3 Basic

- Emergency exit terminal
- Emergency button, red backlighted with two positive-guided contacts (opener/opener)
- On-wall mounting or in-wall mounting (installation height 20 mm)
- LED display for door status and integrated buzzer
- Key switch for operation
- 12-24 V DC



FTI

- Emergency exit terminal
- On-wall mounting or in-wall mounting (installation height 13.5 mm)
- LED display for door status and integrated buzzer
- Illuminated pictogram
- Code keypad for operation
- Flush emergency button
- 12-24 V DC
- With LED indicator and buzzer

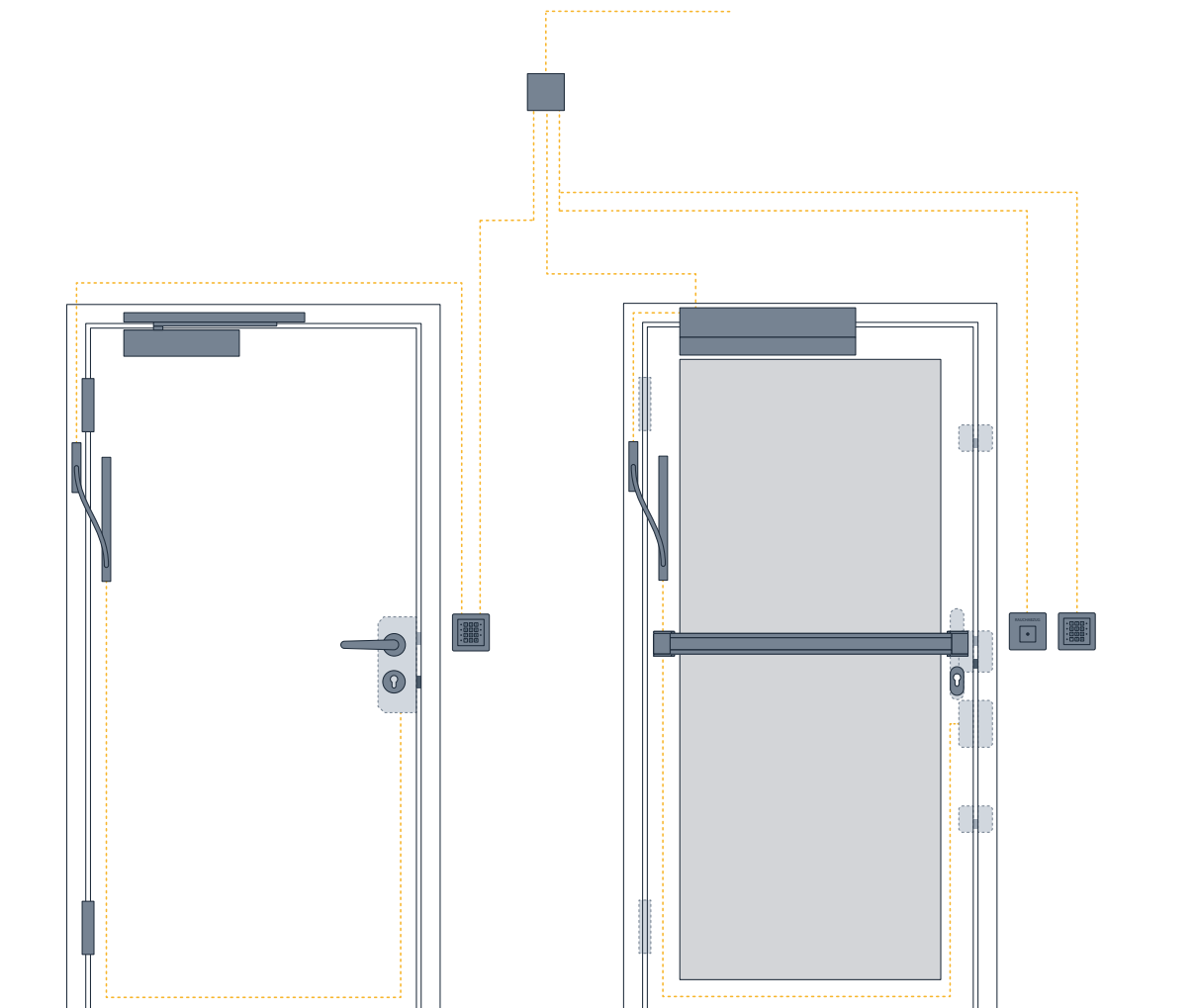


MUST HAVE'S FOR THE TOTAL SOLUTION

ITM ACCESSORIES

The intelligent management of the doors can only be achieved if the doors are energized. The ITM accessories include various access controller and power supplies, cable loops or door retainers.

The access controllers can manage up to 4 doors and work on a Transmission Control Protocol/Internet Protocol (TCP/IP) network.





DH602S Extended Wall-Mounted Door Holder (with monitoring)

- Size: 80 mm x 80 mm x 103 mm
- Holding Force: 50 kg
- Rated operating voltage: 12 V DC / 24 V DC (adjustable)
- Power input: 140 mA / 12 V DC; 70 mA / 24 V DC
- Integrated with manual door release button
- Delivery incl. an adjustable anchor plate



DH604S Standard Wall-Mounted Door Holder (with monitoring)

- Size: 71 mm x 44.5 mm x 86 mm
- Holding Force: 50 kg
- Rated operating voltage: 12 V DC / 24 V DC (adjustable)
- Power input: 180 mA / 12 V DC; 70 mA / 24 V DC
- Integrated with manual door release button
- Delivery incl. an adjustable anchor plate



DH605S Standard Floor-Mounted Door Holder (with monitoring)

- Size: 118 mm x 93 mm x 110 mm
- Holding Force: 50 kg
- Rated operating voltage: 12 V DC / 24 V DC (adjustable)
- Power input: 180 mA / 12 V DC; 70 mA / 24 V DC
- Integrated with manual door release button
- Delivery incl. an adjustable anchor plate



CL 290

- Cable loop
- 290 mm x 25 mm x 12 mm
- Material: Iron chrome



Door magnetic contact

- Minimum installation depth is 28mm
- Material is brass
- Cable length is 6m





AC 12

- Controller and power supply
- Power input: 100~240 V AC (Output 12 V DC)
- For one door with double way controller (2 readers)
- Standard TCP/IP network available
- With LED indicator and buzzer
- Supports Ethernet communication
- Box dimensions 356 x 265 x 62 mm



AC 22

- Controller and power supply
- Power input: 100~240 V AC (Output 12 V DC)
- For up to two doors with double way controller (2 readers per door)
- Standard TCP/IP network available
- With LED indicator and buzzer
- Supports Ethernet communication
- Box dimensions 356 x 265 x 62mm



AC 41

- Controller and power supply
- Power input: 100~240 V AC (Output 12 V DC)
- For up to four doors with single way controller (1 reader per door)
- For multi-door single-way, 4 readers available
- Standard TCP/IP network available
- With LED indicator and buzzer
- Supports Ethernet communication
- Box dimensions 356 x 280 x 65mm



PS 2212

- Power supply
- Size(mm): 88(L) X 78(W)X 38(H)
- Input voltage: 85 V AC ~ 265 V AC
- Output voltage: 12 V DC
- Rated output current: 3 A
- With output short circuit protection



FL-RP22-DIN

- Control for fingerprint
- Standalone access control for DIN-rail mounting
- Operating voltage 12 - 24V max. 100 mA
- Sabotage contacts 30 V
- Plug in terminals with screw contacts
- Status indication green, red, yellow, blue and buzzer



THE SYSTEM IN FOCUS ECO SETS

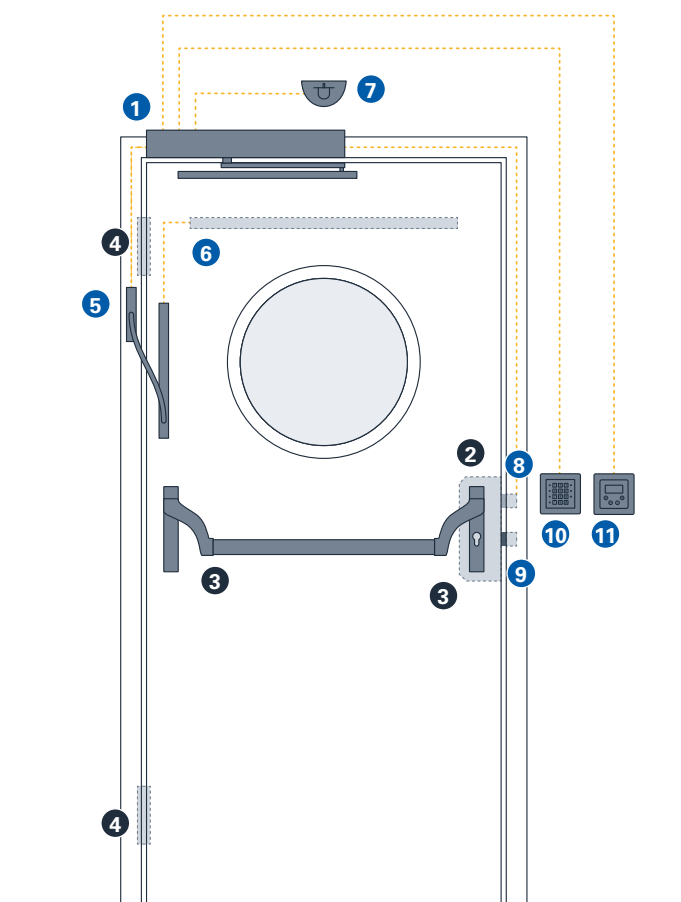


#01: SINGLE-LEAF STEEL DOOR

SET SOLUTION

- | | |
|------------------------|----------------------------|
| 1 ETS-73 | 7 Eagle One Radar |
| 2 D-110 counter handle | 8 ES-480-CF |
| 3 EPN 900 IV + GBS 92 | 9 Dead bolt switch contact |
| 4 OBN-18 4141/160 | 10 CR 03 Card Reader |
| 5 CL 290 cable loop | 11 Bedix |
| 6 Sensor stripe Set IV | |

- | | |
|-------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> | ETS OPERATORS |
| <input type="checkbox"/> | FTA ECO VENT |
| <input type="checkbox"/> | ELECTRONIC LOCKS |
| <input checked="" type="checkbox"/> | ELECTRIC STRIKES |
| <input type="checkbox"/> | EM-LOCKS |
| <input checked="" type="checkbox"/> | CONTROL ELEMENTS |
| <input type="checkbox"/> | TERMINAL SOLUTIONS |
| <input checked="" type="checkbox"/> | ITM ACCESSORIES |



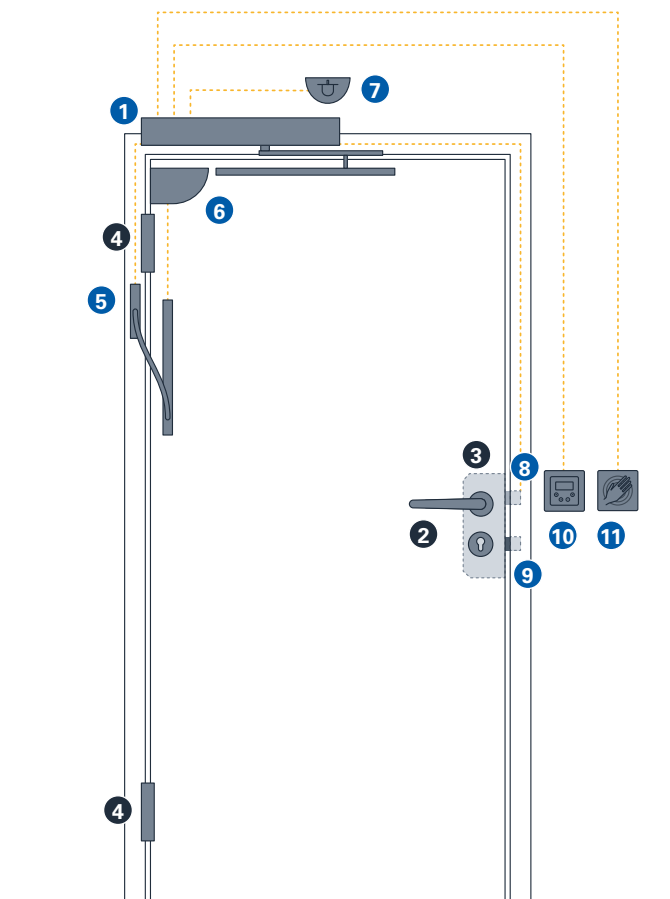


#02: SINGLE-LEAF WOODEN DOOR

SET SOLUTION

- 1 ETS-42
- 2 D-410
- 3 GBS 31 F
- 4 OBN-14
- 5 CL 290 cable loop
- 6 Flatscan
- 7 Eagle One Radar
- 8 ES-350-C
- 9 Dead bolt switch contact
- 10 Bedix
- 11 Magic Switch

- ☒ ETS OPERATORS
- ☐ FTA ECO VENT
- ☐ ELECTRONIC LOCKS
- ☒ ELECTRIC STRIKES
- ☐ EM-LOCKS
- ☒ CONTROL ELEMENTS
- ☐ TERMINAL SOLUTIONS
- ☒ ITM ACCESSORIES

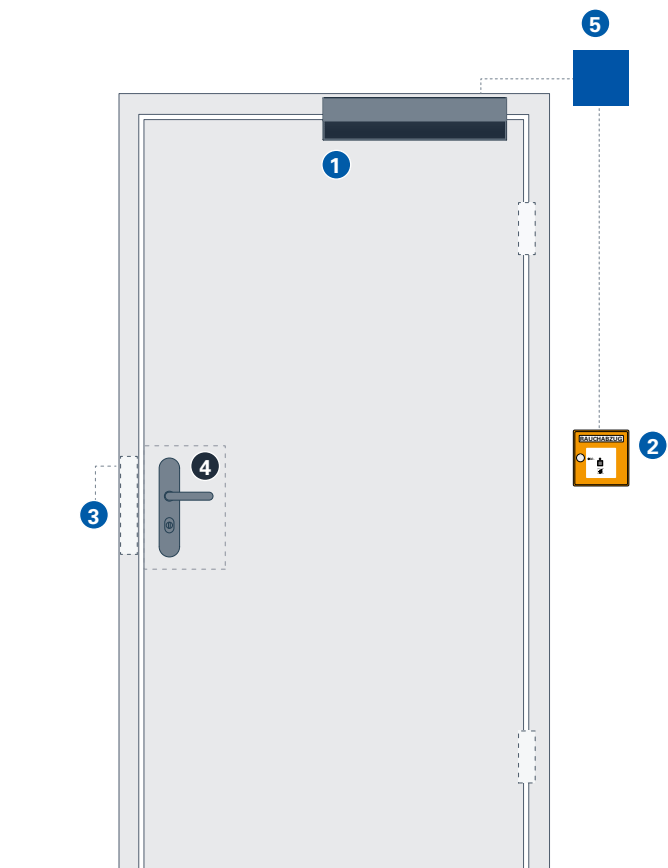


#03 : SINGLE-LEAF SECTION DOOR

SET SOLUTION

- ❶ FTA ECO-Vent
- ❷ Emergency button for smoke extraction
- ❸ ES-480-O
- ❹ D-110
- ❺ SHEV (Smoke and Heat Exhaust Ventilator) controller

<input type="checkbox"/>	ETS OPERATORS
<input checked="" type="checkbox"/>	FTA ECO VENT
<input type="checkbox"/>	ELECTRONIC LOCKS
<input checked="" type="checkbox"/>	ELECTRIC STRIKES
<input type="checkbox"/>	EM-LOCKS
<input type="checkbox"/>	CONTROL ELEMENTS
<input type="checkbox"/>	TERMINAL SOLUTIONS
<input checked="" type="checkbox"/>	ITM ACCESSORIES





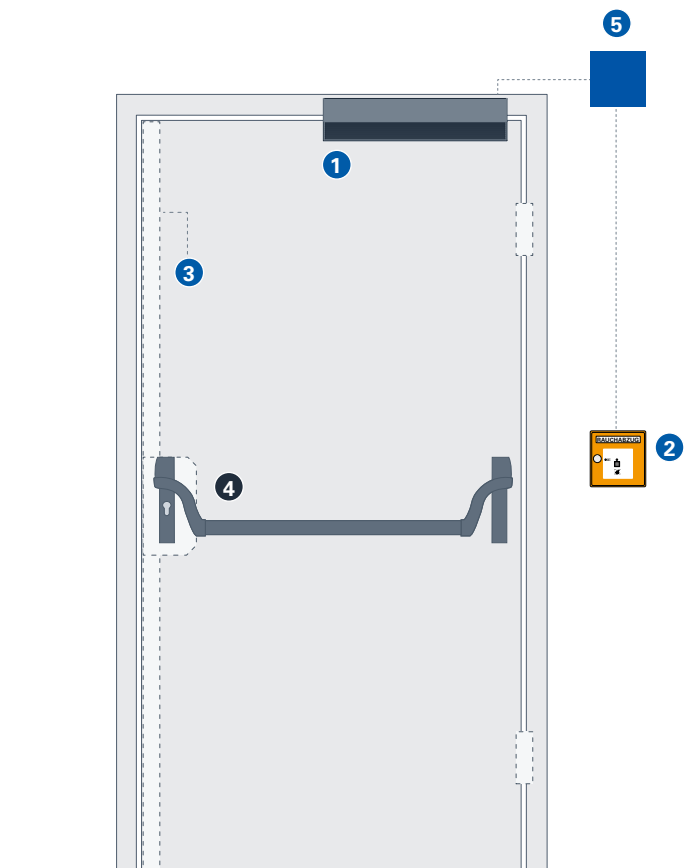
#04: SINGLE-LEAF SECTION DOOR

SET SOLUTION

- ❶ FTA ECO-Vent
- ❷ Emergency button for smoke extraction
- ❸ MT 811 GL
- ❹ EPN 900 IV
- ❺ SHEV (Smoke and Heat Exhaust Ventilator) controller

Installation only possible on the push side

<input type="checkbox"/>	ETS OPERATORS
<input checked="" type="checkbox"/>	FTA ECO VENT
<input checked="" type="checkbox"/>	ELECTRONIC LOCKS
<input type="checkbox"/>	ELECTRIC STRIKES
<input type="checkbox"/>	EM-LOCKS
<input type="checkbox"/>	CONTROL ELEMENTS
<input type="checkbox"/>	TERMINAL SOLUTIONS
<input checked="" type="checkbox"/>	ITM ACCESSORIES



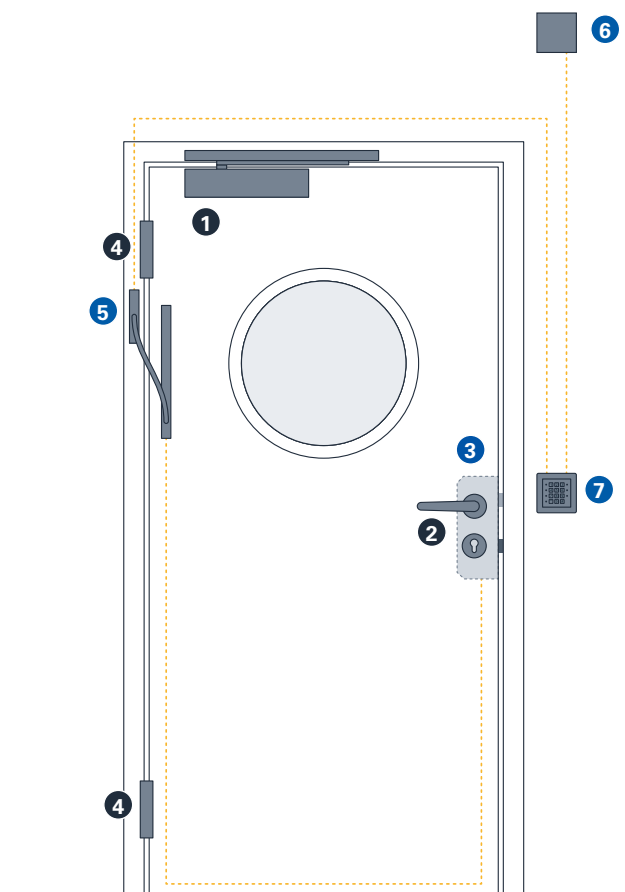
#05 : SINGLE STEEL DOOR

SET SOLUTION

- ❶ TS-61
- ❷ D-110
- ❸ GBS 90
- ❹ OBN-14

- ❺ CL 290 cable loop
- ❻ AC 12 controller and power supply
- ❼ CR 03 Card Reader

- ☐ ETS OPERATORS
- ☐ FTA ECO VENT
- ☒ ELECTRONIC LOCKS
- ☐ ELECTRIC STRIKES
- ☐ EM-LOCKS
- ☒ CONTROL ELEMENTS
- ☐ TERMINAL SOLUTIONS
- ☒ ITM ACCESSORIES



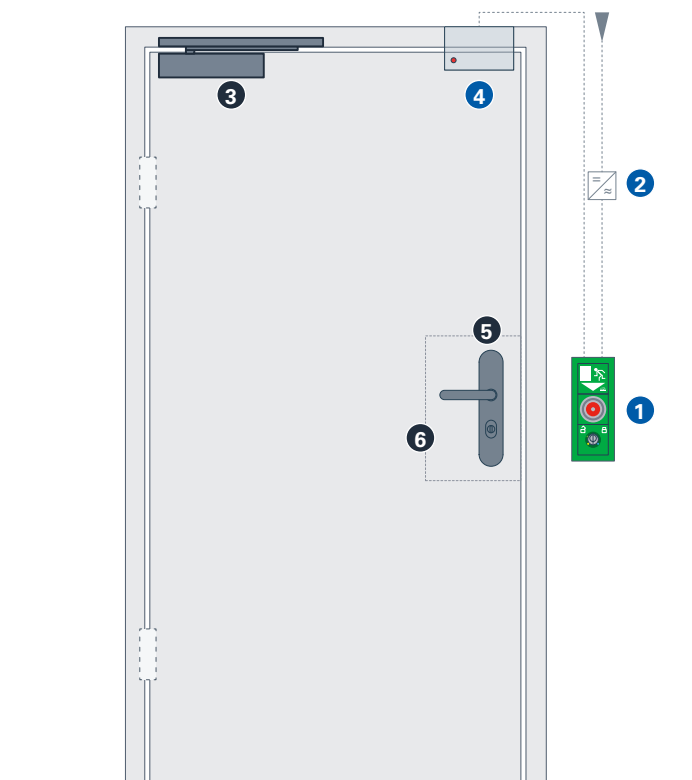


#06: SINGLE-LEAF SECTION DOOR

SET SOLUTION

- 1 FT3 Basic
- 2 PS 2212
- 3 TS-41
- 4 EM280 electromagnetic lock
- 5 D-110 ES1 security handle
- 6 GBS 92

- ☐ ETS OPERATORS
- ☐ FTA ECO VENT
- ☐ ELECTRONIC LOCKS
- ☐ ELECTRIC STRIKES
- ☒ EM-LOCKS
- ☐ CONTROL ELEMENTS
- ☒ TERMINAL SOLUTIONS
- ☒ ITM ACCESSORIES





INDIVIDUALLY FOR YOU ECO ITM

■ SYSTEM TECHNOLOGY FOR THE DOOR



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■ SYSTEM TECHNOLOGY FOR THE DOOR

