



Energy-saving  
automatic sliding door  
**ST PRO Green**  
**ST PRO Green RC2**



#### **Our commitment to a sustainable future**

Environmental responsibility is one of our core values. dormakaba's goal is to make high-quality products that are energy- and resource-saving in their production, that use a high proportion of recyclables and that have a long product life.

At the product level, the sustainability of buildings is calculated using environment product declarations (EPD) based on overall life cycle assessments. The complete EPD is available at [www.dormakaba.com](http://www.dormakaba.com).

# Table of contents

<b>ST PRO Green</b>	
Elegant and sustainable. Safety first.	5
A secure and efficient solution.	6
Two door variants – to match your requirements	7
Profile system	8
Profile cross-sections	8
Technical data – sliding doors and sliding door drives	9
Horizontal sections	10
Vertical sections	11
Technical data – sliding doors	12
CAN bus technology connections	13
Conventional technology connections	13
Technical data – sliding door drives	14
<b>Locking devices</b>	16
<b>Casing variants</b>	17
<b>Master controller functions and optional expansion module functions</b>	18
<b>Door Pilot Interface</b>	19
<b>Accessories</b>	
Program switches	20
Activation switches	21
Key switch	22
LED touch key	22
Emergency activation buttons	23
Cover frame for buttons and switches	23
Active-infrared sensor and combined sensors	24
Accessories for active infrared sensor and combined sensors	25



**SUSTAINABLE,  
BEAUTIFUL  
AND SAFE**



# ST PRO Green

Elegant and sustainable.  
Safety first.

With the ST PRO Green automatic sliding door, dormakaba underlines its contribution to increased energy efficiency and sustainability. The anti-intruder protection, which has been tested and certified by the ift Rosenheim, also takes into account the increasing need for security.



# ST PRO Green

A solution for efficiency and security.

The ST PRO Green combines many functions – and is elegant and attractive thanks to the slim-line profiles. It therefore perfectly matches sliding doors of the dormakaba ST FLEX series.

The slim profile system can be equipped with double and triple type vitrification, which makes it possible to achieve particularly low  $U_D$  values.\*

#### **Thermally separated profile**

With thermal partition by the profile and the option of using triple type vitrification,  $U_D$  values (heat transfer coefficient) of up to 1.0 are achieved, which corresponds to the current requirements of the EnEV energy-saving regulation\*.

The ST PRO Green enables significant savings of perpetual energy and heating costs and the reduction of CO<sub>2</sub> emissions.

#### **Powerful drive unit**

Thanks to the new drive system ES PROLINE, door leaf weights of up to 400 kg can be moved particularly quickly and quietly.

The low energy demand of the sliding door drive also contributes to the positive energy balance of the door.

The drive unit is suitable for almost any application area, as well as use in emergency exit doors.



## Two door variants – to match your requirements

### ST PRO Green – comprehensive energy efficiency.

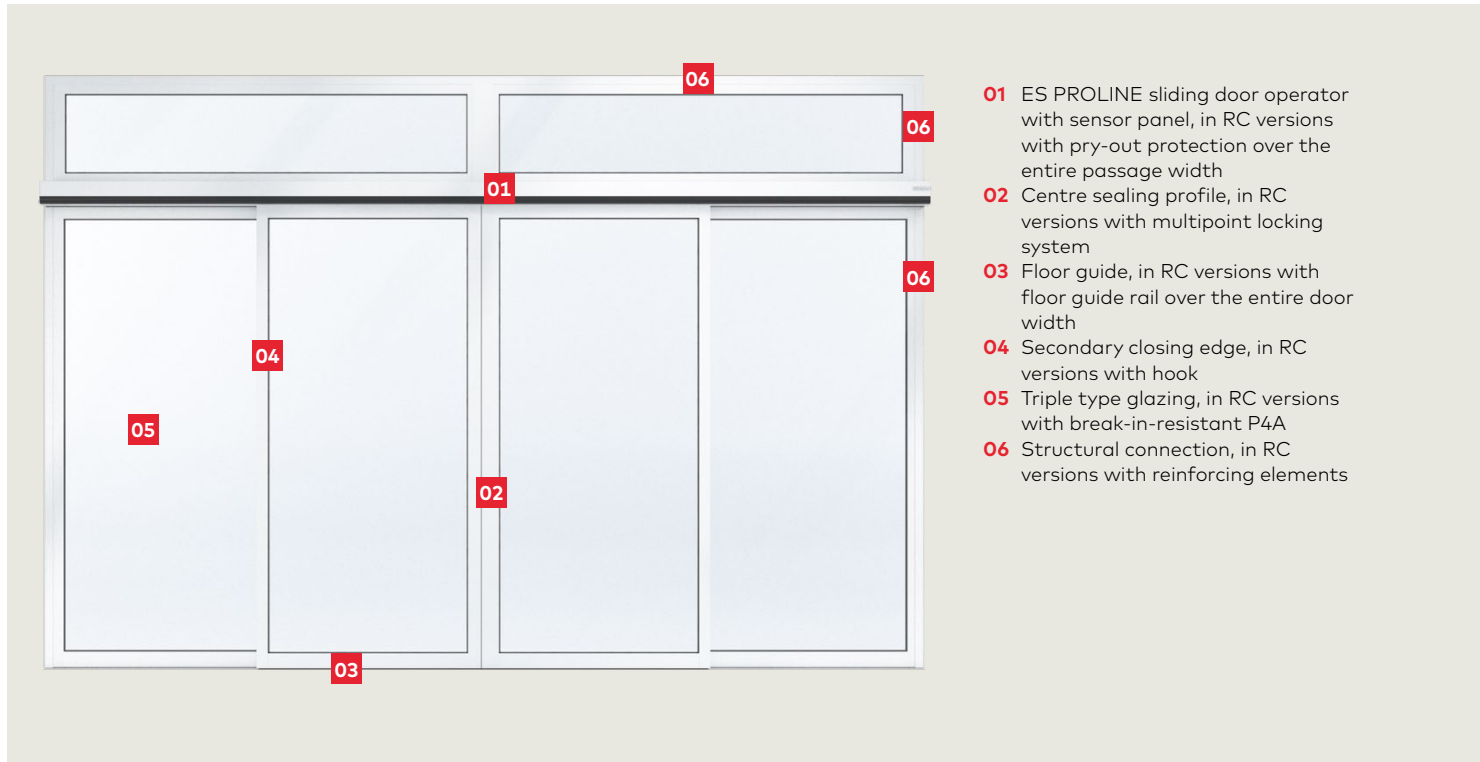
- Thermally isolated profile system
- Ultra-low  $U_D$  values of up to 1.0 (depending on the glazing used)
- 1-leaf and 2-leaf sliding doors
- For use in escape routes and emergency exits
- Energy-efficient sliding door drive ES PROLINE
- Double and triple type vitrification
- Minimises any temperature-influenced door deformation by using torsion-resistant struts
- Certified by independent testing institutes

### ST PRO Green RC2 – convincingly secure.

- Reinforced profile system
- RC2 tested and certified by the Rosenheim ift
- A continuous floor guide rail in the door leaf area and tamper protection in the drive unit prevent the door leaves being lifted out
- Additional security by means of a multi-point hook lock in the area of the main closing edge
- Hook on the secondary closing edge
- Burglar-proof vitrification

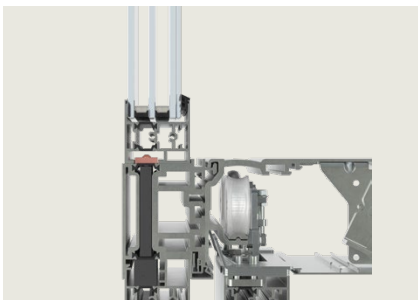
## Profile system

### Build-up of the ST PRO Green sliding door set

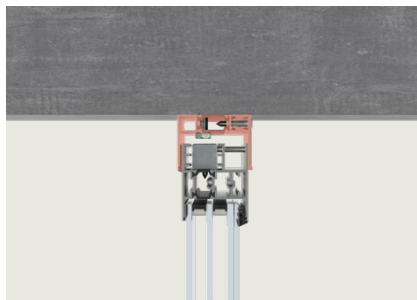


## Profile cross-sections

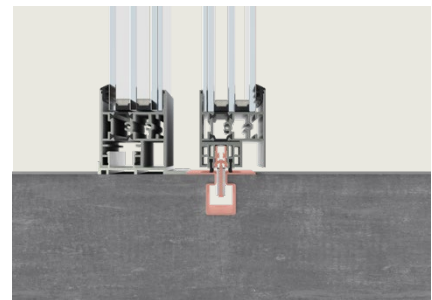
Skylight connection



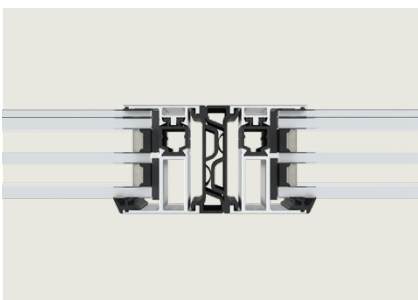
Attachment to structure



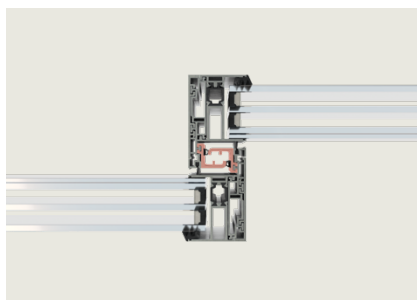
Floor guide



ST PRO Green main closing edge






ST PRO Green secondary closing edge





# Technical data: sliding doors and sliding door drives

			Version	ST PRO Green	ST PRO Green RC2
Drive type			Standard	ES 250 PRO/ES 400 PRO	ES 400 PRO
			Escape route 	ES 250 PRO FST/ES 400 PRO FST	ES 400 PRO FST
<b>Door parameters</b>					
System width (B) min. =	1-leaf	Passageway installation (without safety clearance)		2 x LW + 153 mm	2 x LW + 233 mm
		Wall mounting		2 x LW + 115 mm	2 x LW + 227 mm
	2-leaf	Passageway installation (without safety clearance)		2 x LW + 180 mm	2 x LW + 207 mm
		Wall mounting		2 x LW + 120 mm	2 x LW + 207 mm
Clearance width LW* <sup>2</sup>	1-leaf	Standard		700–3000 mm	800–3000 mm
		Escape route 		900–3000 mm	900–3000 mm
	2-leaf	Standard		800–3000 mm	1000–3000 mm
		Escape route 		900–3000 mm	1000–3000 mm
Max. door leaf weight	1-leaf	ES 250 PRO/ES 250 PRO FST		1 x 125 kg	
		ES 400 PRO/ES 400 PRO FST		1 x 250 kg	1 x 250 kg
	2-leaf	ES 250 PRO/ES 250 PRO FST		2 x 125 kg	
		ES 400 PRO/ES 400 PRO FST		2 x 200 kg	2 x 200 kg
Clear passage height LH*				2050–3100 mm	2050–3100 mm

\* The maximum practicable dimensions are subject to the respective door plans and door requirements and also depend on the profile system selected.

For doors with tested anti-intruder protection, increased requirements are placed on the structural tolerances as well as the careful design of the structure.

<sup>\*2</sup>The minimum clearance width for escape route sliding doors is laid down in the respective regional building codes and may vary in certain circumstances.

## Estimated door leaf weight

**Door leaf weight** ST PRO Green

$$\frac{LH [m] \times LW [m] \times \text{glass weight [kg/m}^2]}{\text{Number of door leaves}} + 7.5 \text{ kg}$$

Commonly used glass weight for triple type insulated glazing: 45 kg/m<sup>2</sup>

**Door leaf weight** ST PRO Green RC2

$$\frac{LH [m] \times LW [m] \times \text{glass weight [kg/m}^2]}{\text{Number of door leaves}} + 21.5 \text{ kg}$$

Commonly used glass weight for burglar-proof glazing (RC2): up to 59 kg/m<sup>2</sup>

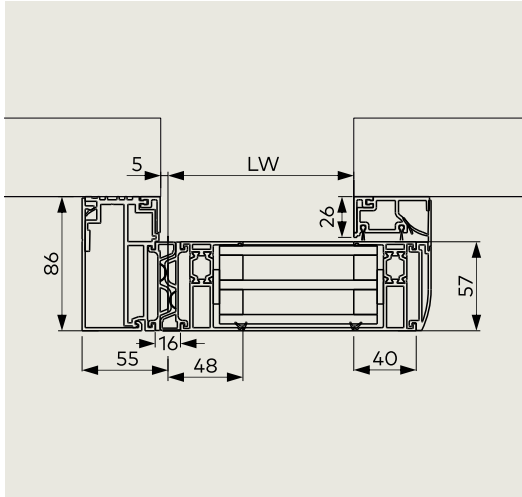
**Your sales engineer will be happy to assist you with planning the specific door leaf weights.**

## Additional track rail suspension

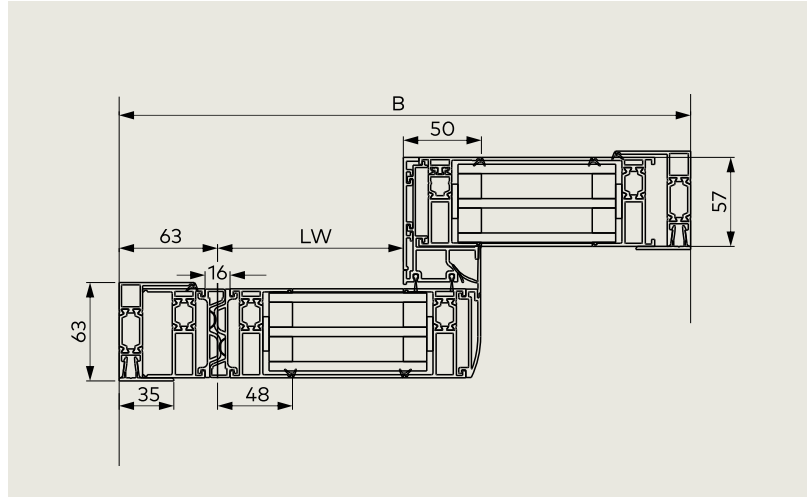


# ST PRO Green horizontal section

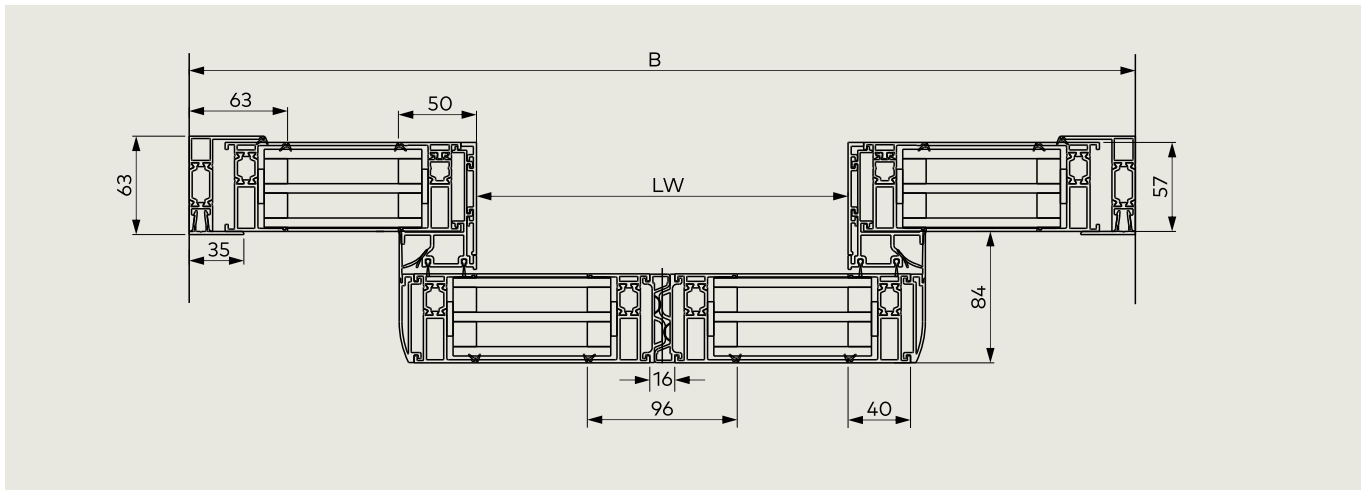
Unilateral lintel mounting opening



Passageway installation with unilateral side panel opening

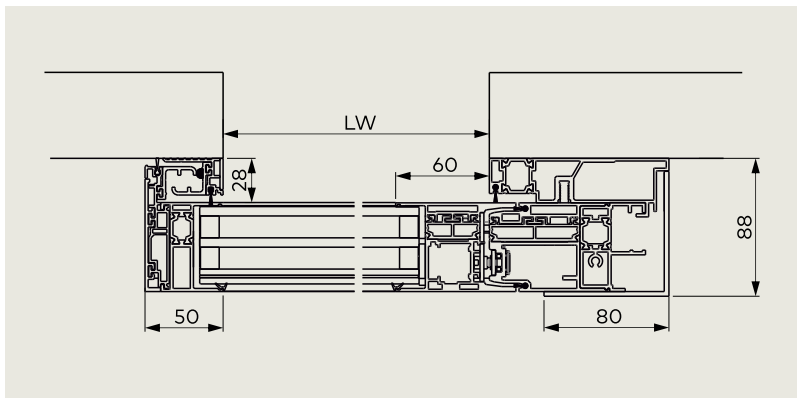


Passageway installation with side panel opening on both sides

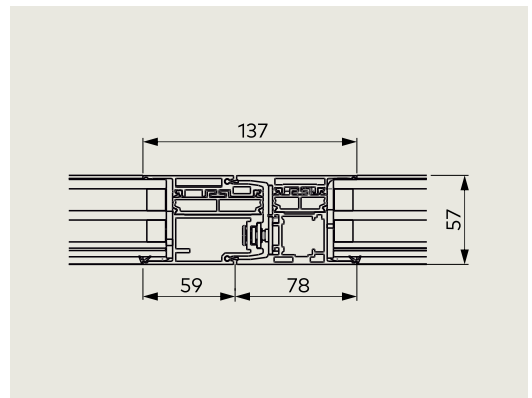


## Burglar-proof version RC2 horizontal sections

RC2 version unilateral lintel installation opening

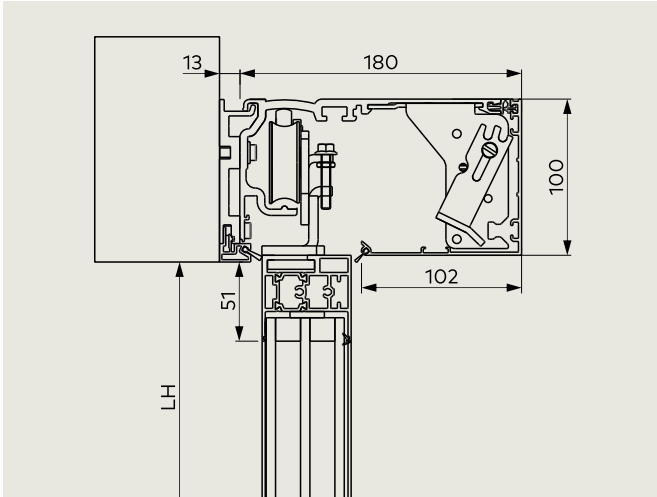


Main closing edge RC2 version

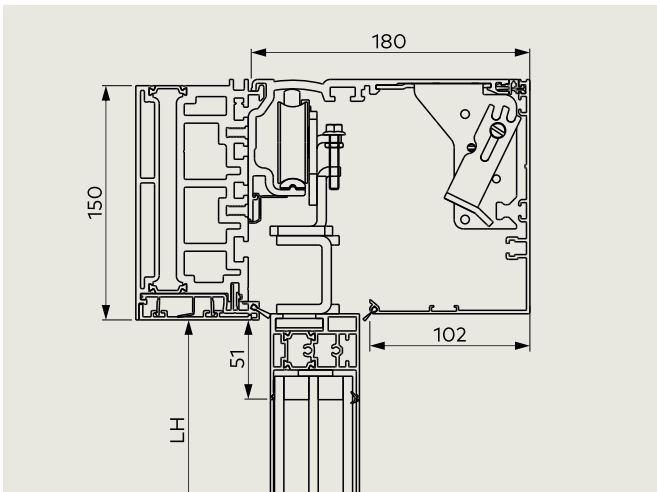


# ST PRO Green vertical section

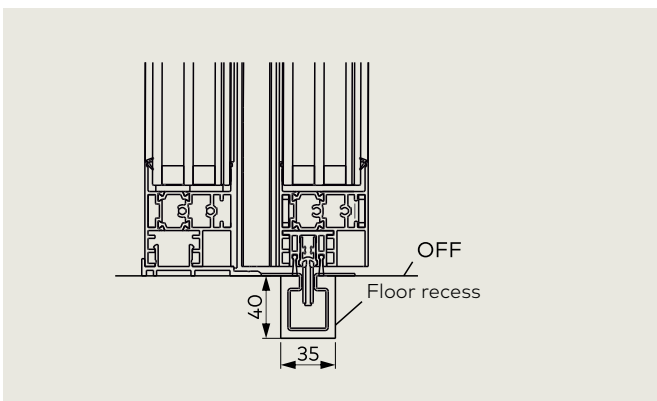
Lintel mounting height of 100 mm



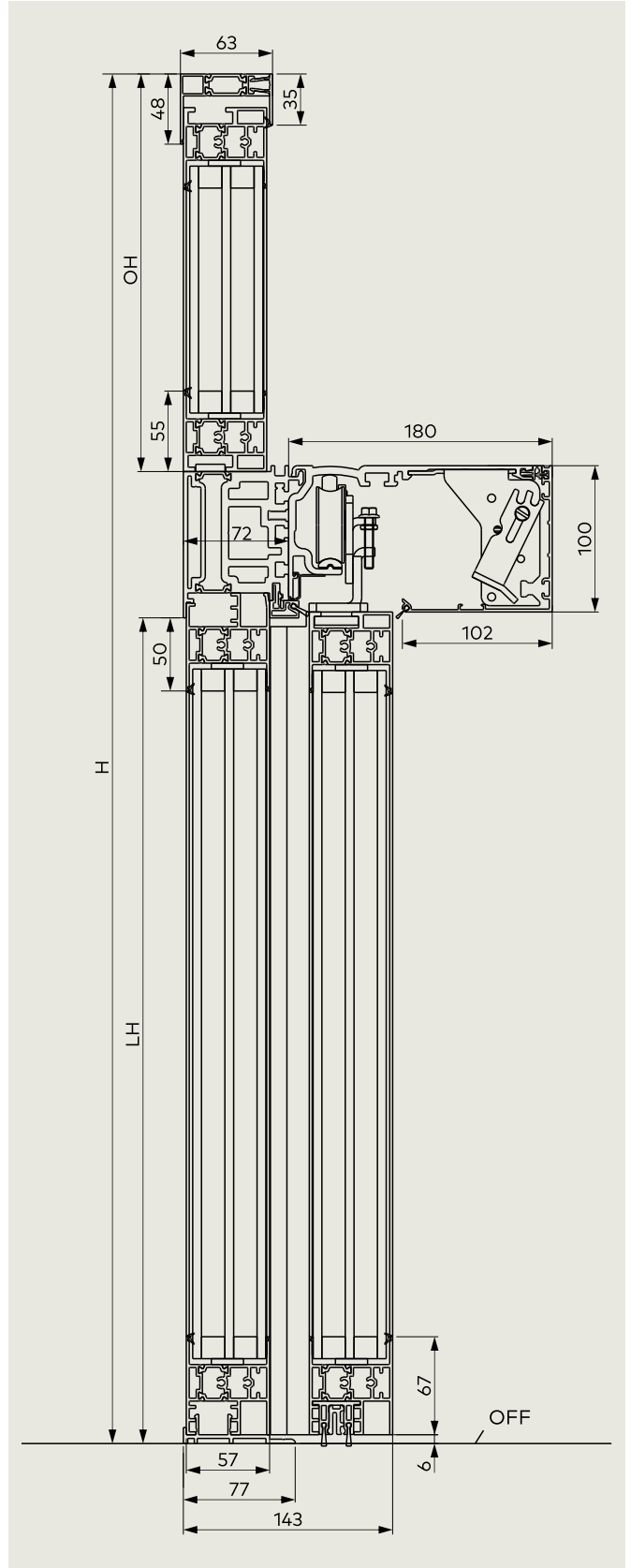
Drive variant at a height of 150 mm



Recessed installation



Passageway installation with side panel and skylight



# Technical data for sliding doors

<b>On-site preparation of the adjacent wall construction</b>	<b>ST PRO Green</b>	<b>ST PRO Green RC2</b>
Surrounding masonry for RC2 must feature the following characteristics:		
Masonry according to German Industrial Standard DIN 1053-1	<ul style="list-style-type: none"> <li>– Nominal thickness</li> <li>– Compression strength of the stones</li> <li>– Mortar group</li> </ul>	<ul style="list-style-type: none"> <li>≥ 115 mm</li> <li>≥ 12</li> <li>II</li> </ul>
Reinforced concrete according to German Industrial Standard DIN 1045	<ul style="list-style-type: none"> <li>– Nominal thickness</li> <li>– Strength class</li> </ul>	<ul style="list-style-type: none"> <li>≥ 100 mm</li> <li>B15</li> </ul>

## Drive unit and door system tested for 1.5 million operating cycles

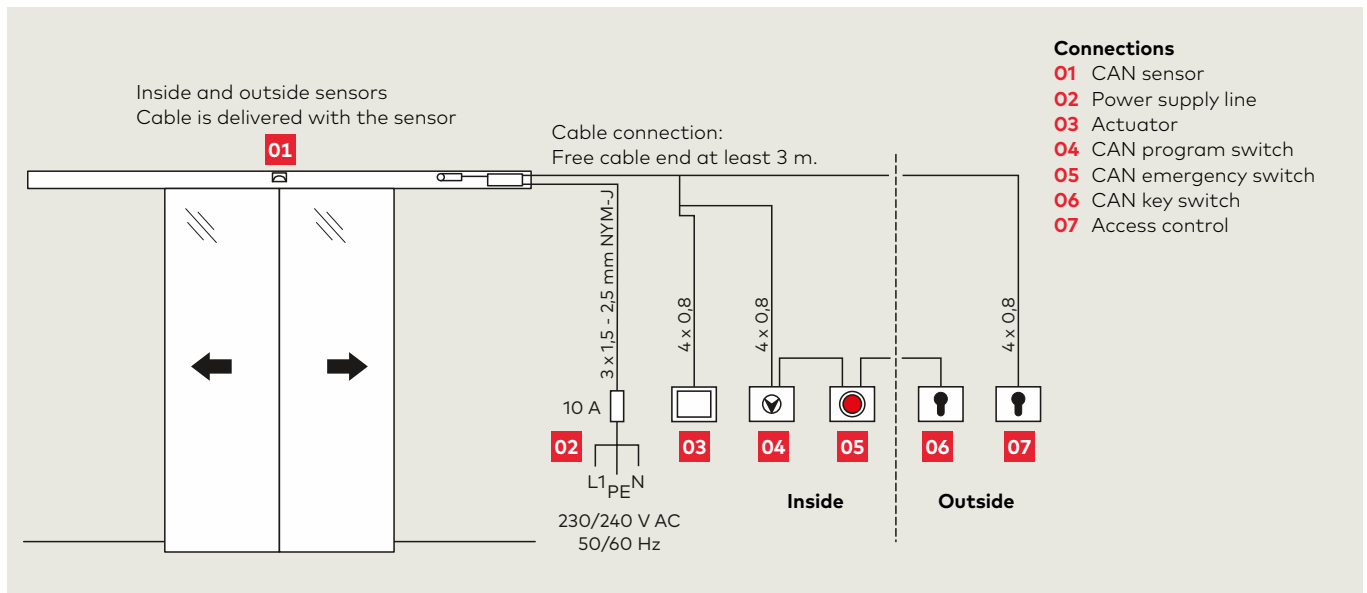
### Versions

Glass version	Security insulating glass	●	
	Security insulating glass According to DIN EN 356 grade P4A	○	●
Construction	With side panels	○	○
	With skylight	○	○
	With safety screens	○	○
	Continuous floor guide	○	●
Locking device	Electro-mechanical belt locking device	○	○*
	Manual lock release for electro-mechanical locking device	○	○*
	Magnetic locking device, jam-free	○	○
	Electromotive hook locking device	○	●
	Manual lock release for electromotive locking device	–	○

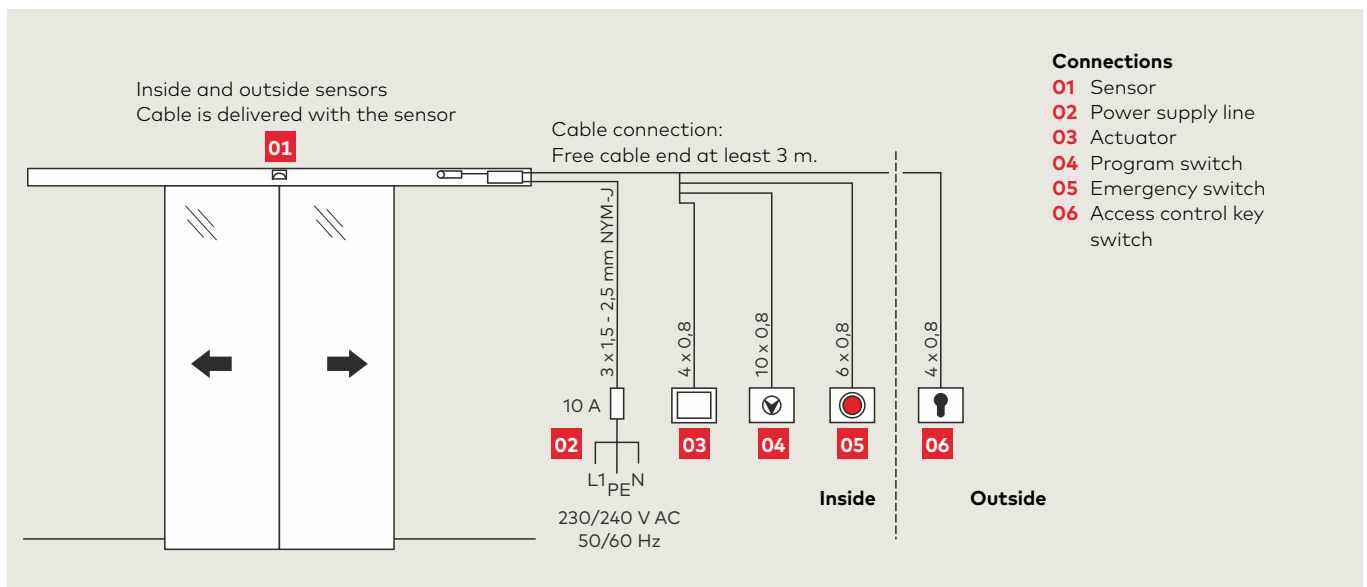
● Yes ○ Optional – No \*Not for escape routes





## Connections with CAN-bus technology



## Conventional technology connections



# Technical data for sliding door operators

Door parameters	Standard sliding door		Escape route sliding door	
	ES 250 PRO	ES 400 PRO	ES 250 PRO FST	ES 400 PRO FST
Min. drive length	2 CW	2 CW	2 CW	2 CW
Operator depth in mm	180	180	180	180
Operator height in mm	100	100	100	100
Use in escape routes and emergency exits	-	-		
Force limitation in accordance with EN 16005/DIN 18650	●	●	●	●
Operating noise	< 47 dB(A)	< 47 dB(A)	< 47 dB(A)	< 47 dB(A)
Drive unit and door system tested for 1.5 million operating cycles	●	●	●	●
<b>Settings</b>				
Opening speed (adjustable in increments)	10–70 cm/s	10–90 cm/s	Approx. 20–70 cm/s	Approx. 20–90 cm/s
Closing speed (adjustable in increments)	10–70 cm/s	10–90 cm/s	10–70 cm/s	10–90 cm/s
Low speed OPEN	0–9 cm/s	0–9 cm/s	0–9 cm/s	0–9 cm/s
Low speed CLOSE	3–9 cm/s	3–9 cm/s	3–9 cm/s	3–9 cm/s
Hold-open time, night/bank hold-open time	0–180 s	0–180 s	0–180 s	0–180 s
Night/bank opening delay	0–10 s	0–10 s	0–10 s	0–10 s
Partial opening	25–300 cm	25–300 cm	25–300 cm	25–300 cm
Low-speed travel OPEN/CLOSE	0–30 cm	0–30 cm	0–30 cm	0–30 cm
<b>Power supply</b>				
Supply voltage	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
Power consumption	130 W	180 W	130 W	180 W
On-site line fuse	10 A	10 A	10 A	10 A
Degree of protection	IP 20	IP 20	IP 20	IP 20
Power supply for peripheral equipment under network conditions	24 V DC/2A	24 V DC/2A	24 V DC/2A	24 V DC/2A
Power supply for peripheral equipment in the event of a power failure (battery operation)	Optional 21–27 V DC/2A	Optional 21–27 V DC/2A	21–27 V DC/2A	21–27 V DC/2A
Temperature range	- 20 to + 60 °C	- 20 to + 60 °C	- 20 to + 60 °C	- 20 to + 60 °C
Permissible air humidity (relative) (non-condensing)	max. 93 %	max. 93 %	max. 93 %	max. 93 %
<b>Standardisation and testing</b>				
Compliant with the Low Voltage Directive and the EMC Directive	●	●	●	●
Monitoring of secondary closing edges verified to fulfil German standard DIN 18650 and EN 16005.	●	●	●	●
Manufactured to ISO 9001	●	●	●	●
Environmental product declaration according to ISO 14025; declaration holder: Institut Bauen und Umwelt e.V.	●	●	●	●

<b>Control module</b>	<b>ES 250 PRO ES 400 PRO</b>	<b>ES 250 PRO FST ES 400 PRO FST</b>
Modular design	●	●
Function programs	●	●
– Off	●	●
– Automatic	●	●
– Permanent open	●	●
– Partial open	●	●
– Exit	●	●
Automatic reversing	●	●
Connection for securing the passageway (on both sides)	●	●
Tested in accordance with EN 16005/DIN 18650	●	●
Securing main and secondary closing edge(s) according to EN 16005/DIN 18650	●	●
Basic parameters set using integrated display and buttons	●	●
Parameterisation via Operator Service Interface (OSI)	●	●
Door Pilot interface (Bluetooth)	○	○
Automatic opening/closing in the event of a power failure (if a battery set is used)	●/●	●/– (Battery set supplied as standard)
Emergency battery operation (if a battery set is used)	●	–
24 V DC output for external appliances	●	●
Readable fault memory with fault codes	●	●
CAN interface for connecting a program switch	●	●
CAN interface for connecting additional CAN-bus components	●	●
Multiports for connecting accessory components	4	4
<b>Functions*</b>		
Pharmacy function	●	●
Door status signal contacts	●	●
Panic closing (observe regional regulations!)	●	●
Door bell contact	●	●
Airlock control	●	–
Synchronous operation	●	●
Safety deactivation	●	●
Night/bank function	●	●
Emergency open	–	●
Emergency stop	●	–
Configurable partial opening distance	●	●
Slide and Go	●	●
Close/open on malfunction	●	●
Fire service switch function	●	●
*The functions can be implemented by the master controller or by the 4 I/O modules. For further information, see page 18		
<b>Safety and activation (SiAK) expansion module**</b>		
For connecting conventional (not CAN-bus-capable) safety and activation sensors	○	○
<b>Program switch (MS) expansion module**</b>		
For connecting conventional (not CAN-bus-capable) program switches	○	○
<b>Auxiliary equipment</b>		
Battery set, mandatory for ST PRO Green RC2, even non-FST!	○	●
Emergency power supply UPS (external)	○	○
Module for connection to LON/LAN building control systems	○	○
Potential-free relay contact	○	○

● Standard ○ Optional

\*\* Further information on the expansion modules can be found on page 18

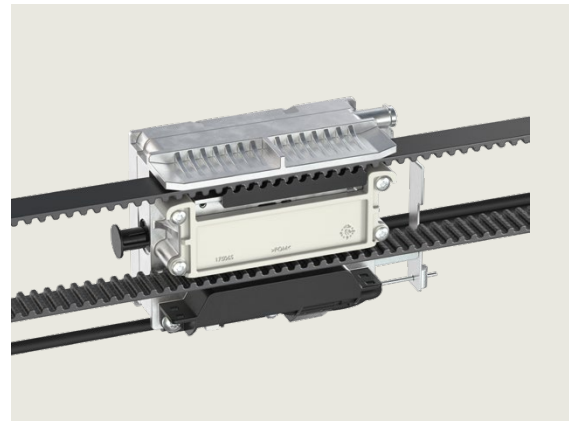
# Locking devices

dormakaba offers a range of locking device variants for the ES PROLINE to prevent unauthorised access to buildings by opening the sliding door.

## Electro-mechanical belt locking device

The self-adjusting locking device is attached directly to the drive unit of the operator. The standard lock status signal contacts increase the operational safety of the door.

The locking device function is configured ex works to be bistable; this means that the locking device status is maintained in the event of a power failure. Versions with other functions (monostable with Failsafe: opens the locking device in the event of a power failure and Fail-safe: closes the locking device in the event of a power failure) are also available.



## Magnetic locking device (FIA) for escape route and emergency exit doors

When using the magnetic locking device and the ES PROLINE control variant, you can lock an escape route sliding door in all automatic program switch positions, even when persons are present in the building.

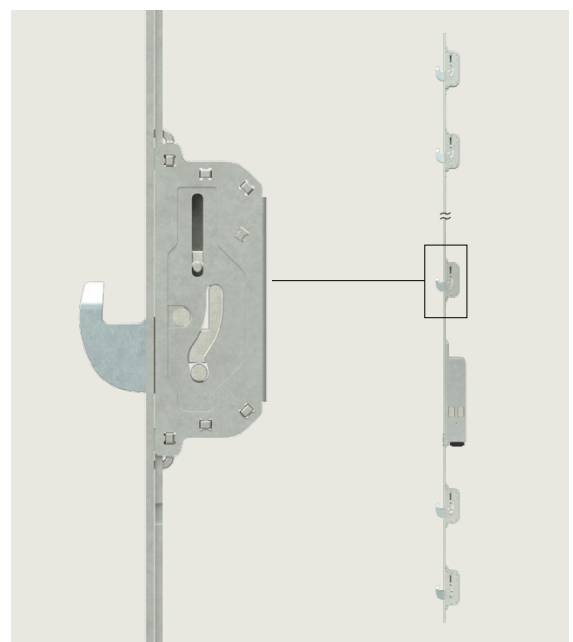
The locking device system has been type-approved by the German Technical Inspectorate and does not require approval in each individual case.

This variant is suitable for all properties that are used 24 hours a day, such as self-service areas in banks, hotels, hospitals, schools, etc. Any person can leave the building safely in case of an emergency and the door provides protection against uninvited guests.



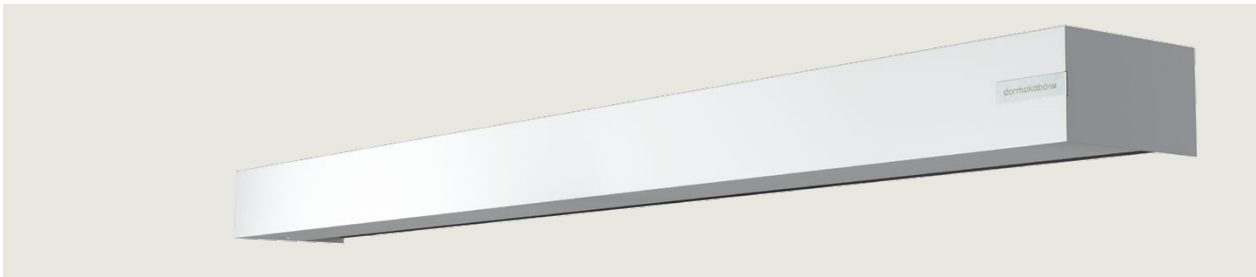
## Electromotive hook locking device

This particularly robust multipoint locking device provides a very high level of break-in protection for standard sliding doors and doors of resistance classes RC 2 (doors with increased anti-intruder protection are equipped with these locking devices as standard). Solid swing bolts are extended by a motor to lock the door. Mechanical unlocking devices for opening doors manually are optionally available.





# Casing variants



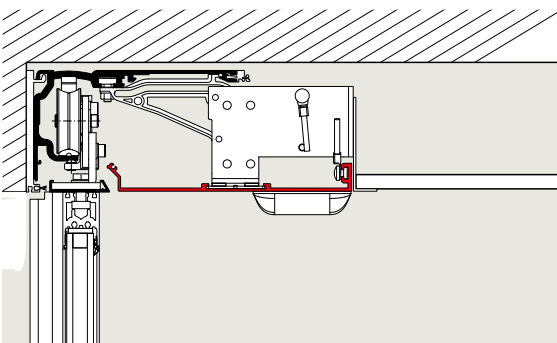
## Standard casing

The standard casing for ES PROLINE operators is available in two different versions (height 100 mm, 150 mm). A cover bracket is supplied as standard and allows the casing to be opened in three different positions.



## Sensor casing

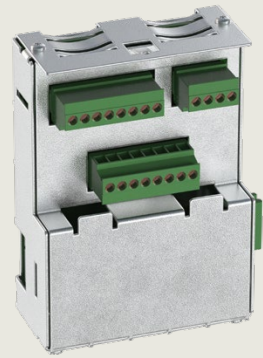
Sensor casing is the right solution when it comes to premium design requirements. It creates a sleek look for doors with 100 mm drive heights. Activation and safety sensors are integrated into the drive system. There is no need for disruptive additional units and visible components. The sensor casing is approved for doors with a clear passage height of max. 3000 mm.



## Integrated casing

Integrated casing allows the ES PROLINE operator to be elegantly concealed in suspended ceilings. The operator cover can be detached from below to allow easy access to all the components when carrying out maintenance tasks. Special accessories sets make it possible to integrate the safety sensors in the cover so that the entire height of the passage area can be used.

# Master controller functions and optional expansion module functions



A wide variety of functions can already be tapped into just using the master controller for the ES PROLINE sliding door operators. The optional expansion modules can be used to implement various special functions and connect conventional accessories that are not based on CAN-bus technology.

## Master controller

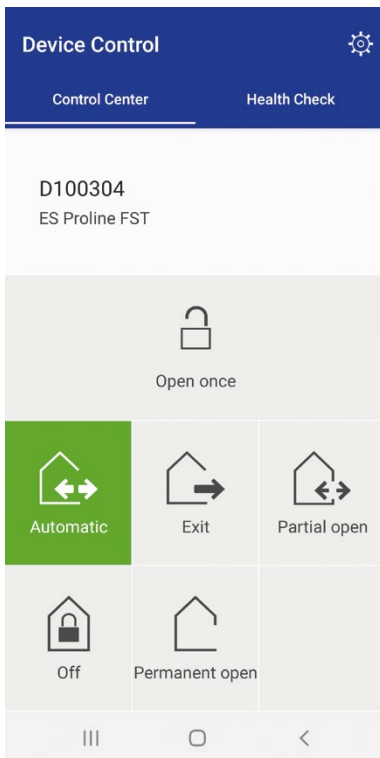
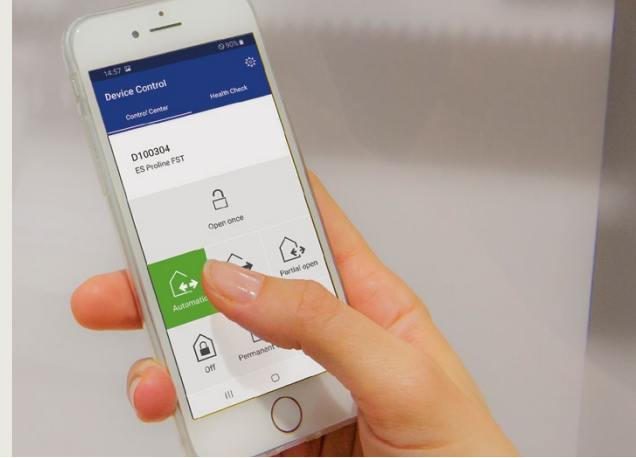
The master controller provides four programmable inputs and outputs that can be used to implement the following functions.

<b>Pharmacy function/pharmacy door opening</b>	The door can be <b>locked in a partially open position</b> apart from when the program switch is in the "Off" position. This allows a pharmacy to dispense goods securely outside business hours, for example.
<b>Door status signal contacts</b>	This function issues door statuses. E.g. Door open/closed/locked, System OK, Current door position.
<b>Panic closing</b>	This function closes the door immediately and switches off passage security and force limitation. This function is only permissible in certain countries (observe regional regulations).
<b>Door bell contact</b>	For connecting an on-site door bell or an audible indicator.
<b>Airlock function</b>	The doors can be switched to function as a personal interlock (not for escape route systems).
<b>Synchronous operation</b>	For instance, two doors opening on one side can be switched to act as one large, double-leaf door. This allows particularly wide opening distances or high door leaf weights to be achieved.
<b>Safety deactivation</b>	The door can be opened or closed in scanning mode.
<b>Night/bank function</b>	Allows the connection of access controls, key switches etc. with the program switch in the "Off" position. The door unlocks – opens – closes – locks.
<b>Fire service function</b>	Used to deliberately open and close a door via a separate signal input.
<b>Slide and Go</b>	An opening signal can be triggered by gently pushing the door leaf.
<b>Unlock/lock in case of malfunction</b>	In case of system malfunction, a door can be deliberately triggered to close and lock or unlock and open.

## Expansion modules

<b>4 I/O expansion module</b>	The 4 I/O module features four inputs and four outputs. The master controller functions can be implemented if the master controller connections have already been assigned. Only one module can be used at a time.
<b>Safety and activation (SiAK) expansion module</b>	The safety and activation (SiAK) expansion module is used to connect conventional accessories, such as sensors and radar detectors. Safety sensors can be connected either for the main closing edge (MCE) or the secondary closing edge (SCE). Two modules are required in order to combine these safety functions (MCE/SCE).
<b>Program switch (MS) expansion module</b>	Used to connect a conventional program switch (mode switch/MS) that is not based on CAN-bus technology. Only one module can be used at a time.

# Door Pilot interface

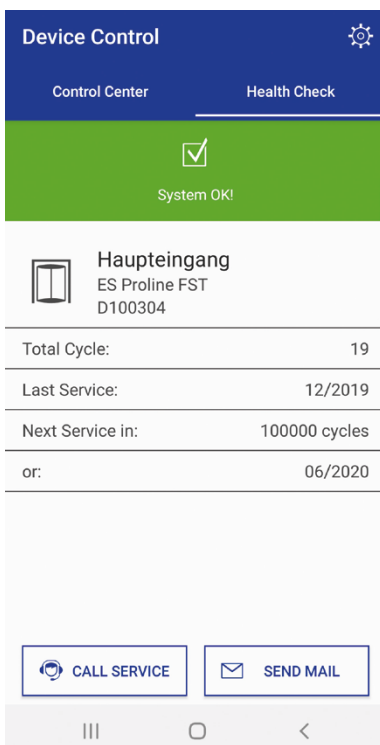


The dormakaba Door Pilot app allows automatic doors to be easily controlled from a smartphone. Operators from the ES PROLINE series can be equipped with the Door Pilot interface as an option. The app is available in iOS and Android versions and can be obtained from the respective app store.




## Program switch functions

Use 6 different functions:

<b>automatic</b>	Opens from the inside and outside – perfect for normal opening hours.
<b>Partial opening</b>	Opens from the inside and outside with reduced opening width – ideal for cold winter days.
<b>Output</b>	Opens from the inside only – ideal for use shortly before closing time.
<b>Permanent Open</b>	Door is permanently open – suitable for deliveries or ventilation.
<b>Off</b>	Door remains closed (and perhaps locked) and can only be opened by changing the program switch position or by an externally controlled impulse.
<b>Open-once</b>	For easy opening in close proximity (not possible with the program switch in the "Off" position).



## Door status signal contacts

 System OK!	 Service due!	 Error detected, system check necessary!
System OK	Maintenance due	Fault detected, service due

## Customer benefits

- Complement to the program switch, convenient operation from a smartphone.
- Check functions easily without needing specialist knowledge.
- No need to incorporate into existing building network.
- Direct contact function for simplified/direct access to dormakaba Service.

# Wide range of accessories from dormakaba

## Program switches

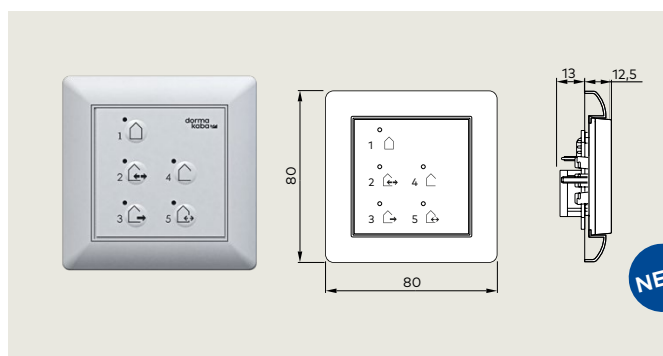
When combined with a program switch from the dormakaba accessories range, the automatic door system can satisfy all kinds of individual operating requirements and is easy to use.

The program switches have been designed in various versions and for a wide range of requirements.

The options range from mechanical to fully electronic versions locked by your choice of profile cylinders, round cylinders or fully electronic coding.

- Up to 5 different functions: Off, automatic, exit only, partially open, permanent open
- Electronic program switches in System 55 design for the most discerning aesthetic demands

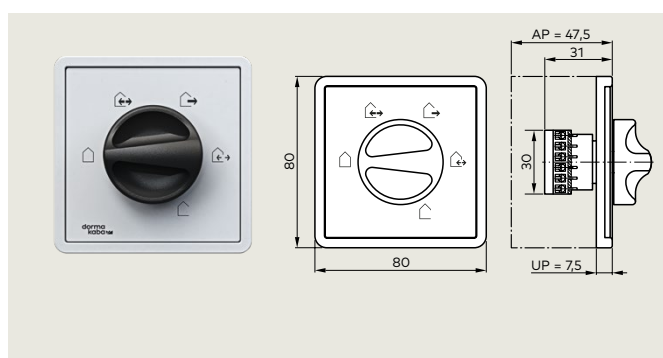
### For sliding door operators without escape route and emergency exit requirements



#### EPS fully electronic program switch

System 55 design, 5 positions, lockable using coding or additional TL-ST S55 key switch, membrane keypad, concealed, 80 x 80 mm

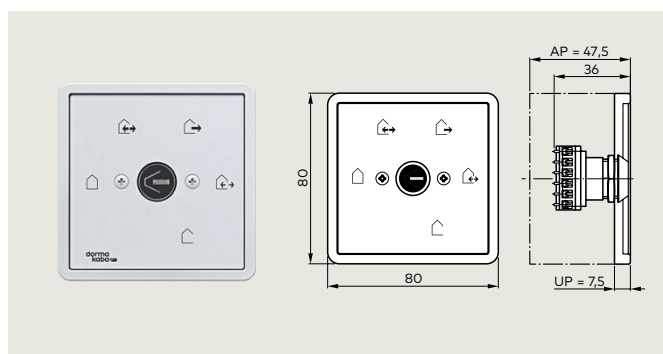
		Article no.
EPS	White	16556901150
EPS CAN	White	16712501150
Box for surface mounting		5158533332
EPS CAN (44 x 50 mm)		16712401150



#### PG-S1 program switch

5 positions, aluminium, concealed, 80 x 80 x 40 mm

		Article no.
PG-S1	White, Gira S-Color	19135401150
Box for surface mounting		5080531332



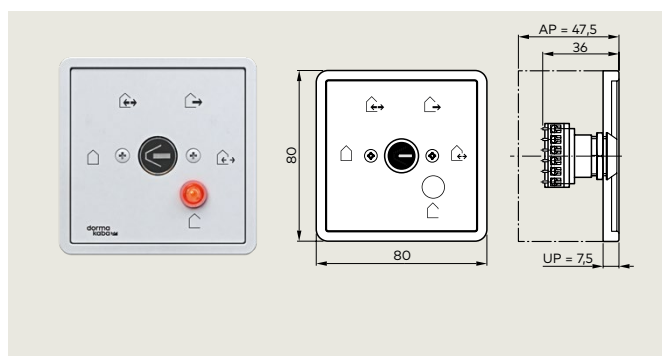
#### PG-S2 program switch

5 positions, lockable, aluminium, concealed, 80 x 80 x 40 mm

		Article no.
PG-S2	White, Gira S-Color	19135602150
Box for surface mounting		5080531332



## For sliding door operators in escape routes and emergency exits

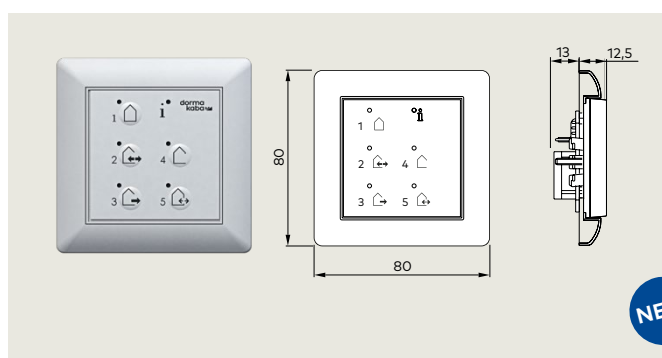


### PG-FST1 program switch

5 positions, lockable, aluminium, concealed, 80 x 80 x 40 mm

#### Article no.

<b>PG-FST1</b>	White, Gira S-Color	19135603150
Box for surface mounting		5080531332



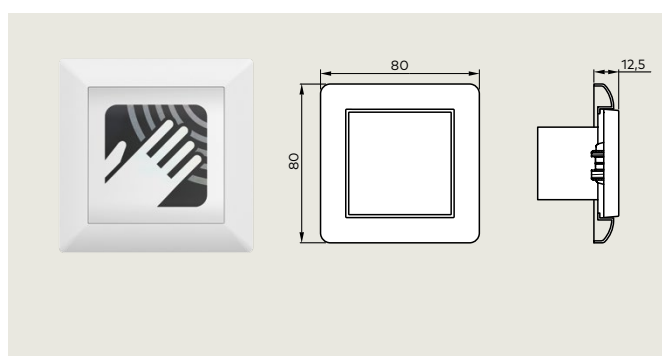
### EPS-FST fully electronic program switch

System 55 design, 5 positions, lockable using coding or additional TL-ST S55 key switch, membrane keypad, concealed, 80 x 80 mm

#### Article no.

<b>EPS-FST</b>	White	16556801150
<b>EPS CAN</b>	White	16712501150
Box for surface mounting		5158533332

## Activation switches

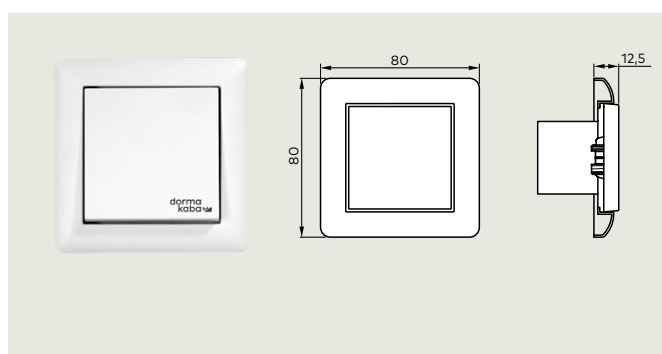


### Magic Switch

Contactless radar sensor, concealed installation, including box for concealed mounting, dimensions: 84.2 x 84.2 mm, decal included in scope of delivery, includes adapter for installation in System 55 systems

#### Article no.

<b>Magic Switch</b>	White	05076831332
---------------------	-------	-------------



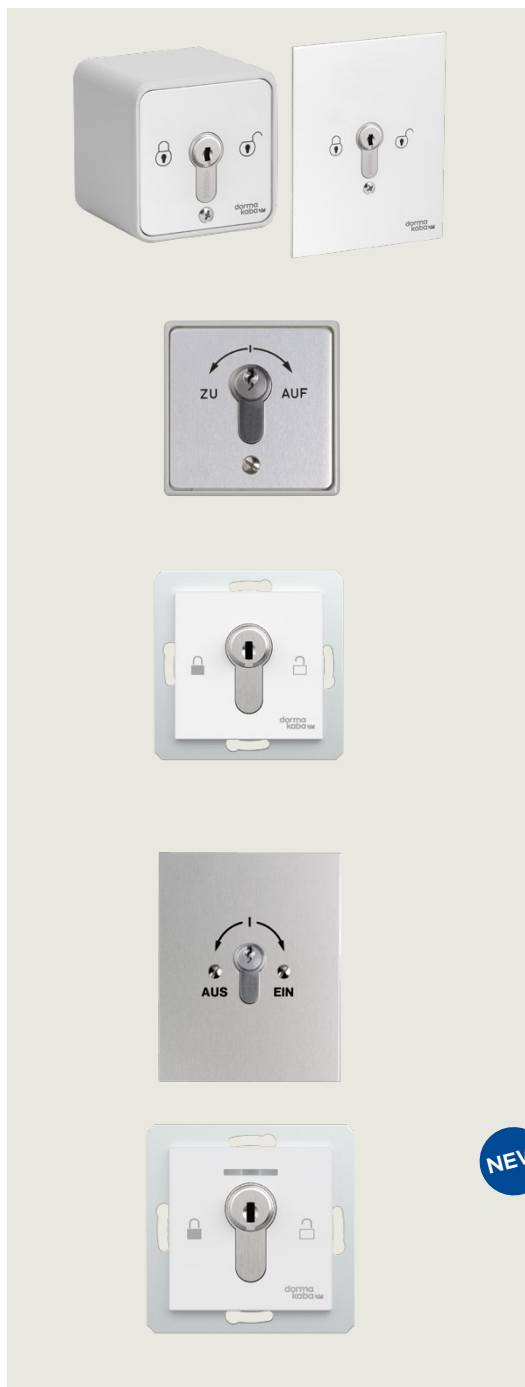
### Manual release switch

Single-pole change-over contact, single frame, concealed, System 55

#### Article no.

<b>Manual release switch</b>	White	19144701170
------------------------------	-------	-------------

## Key switch



### KT 3-1

1 NO contact with Europrofile half-cylinder in line with DIN 18252, half 30–32.5 mm, length 40.5–43.5 mm, locking cam position left (90°) (interchangeable with master-key system half-cylinder), key can only be removed in neutral position, aluminium, metal, 75 x 75 x 60 mm

<b>KT 3-1 UP</b>	Concealed	05054531332
------------------	-----------	-------------

<b>KT 3-1 AP</b>	Surface-mounted	05054631332
------------------	-----------------	-------------

### KT 8

Labelled "Open"/"Closed", 2 NO contacts with Europrofile half-cylinder in line with DIN 18252, half 30–32.5 mm, length 40.5–43.5 mm, locking cam position left (90°) (interchangeable with master-key system half-cylinder), key can only be removed in neutral position, aluminium, metal, 75 x 75 x 60 mm

<b>KT 8 UP</b>	Concealed	05054831332
----------------	-----------	-------------

<b>KT 8 AP</b>	Surface-mounted	05054931332
----------------	-----------------	-------------

### TL-ST S55

Push button with single-pole changeover contact for on-site Europrofile half-cylinder in line with DIN 18252, half 30–32.5 mm, length 40.5–43.5 mm, locking cam position left (90°), with cover for System 55, not suitable for surface-mounted boxes, without Europrofile half-cylinder, **without frame.**

<b>TL-ST S55 W</b>	White	56330710
--------------------	-------	----------

<b>TL-ST S55 S</b>	Silver	56330701
--------------------	--------	----------

<b>TL-ST S55 A</b>	Anthracite	56330715
--------------------	------------	----------

### KT 3-2

1 NO contact with Europrofile half-cylinder, interchangeable with master-key system half cylinder, key can only be removed in neutral position, cover panel for replacement, labelled "Open"/"Closed", aluminium, concealed: 125 x 100 mm, surface-mounted: 70 x 90 mm

<b>KT 3-2</b>		05054731332
---------------	--	-------------

### Key switch CAN

Switch with single-pole changeover contact, with Europrofile half-cylinder in line with DIN 18252, half 30–32.5 mm, length 40.5–43.5 mm, locking cam position left (90°) (interchangeable with master-key system half-cylinder), with cover for System 55, not suitable for surface-mounted boxes, without frame.

<b>CAN key switch</b>		16715801150
-----------------------	--	-------------

## LED touch key



### LED touch key

Manual actuator with plastic frame in white, similar to RAL 9016 and traffic grey similar to RAL 7043

<b>LED touch key</b>		16672601170
----------------------	--	-------------

### LED hygienic touch key

Manual actuator, tempered glass encapsulated, glass button surface, hygienic version in line with EN 1672-1/2

<b>LED touch key</b>		16672901170
----------------------	--	-------------

## Emergency activation buttons



NEW

### Emergency switch CAN

CAN-bus emergency activation button, red knob (emergency activation button off) or green knob (emergency open), System 55, without frame.

**Emergency switch CAN, red** 16718501150

**Emergency switch CAN, green** 16718502150

### TL-N S55 conventional

The area around the emergency button is brightly illuminated and has a visual display of the locking status, an acoustic and visual alarm siren, is tamper-protected under glass, without frame, one NO contact and one NC contact, concealed, 80 x 80 mm, System 55

**TL-N S55** 56330500

### Conventional emergency switch

Emergency activation button (Emergency Off function with red knob and Emergency Open function with green knob) with yellow central plate

**NAT 1** One NO contact and one NC contact, white frame, concealed, 80 x 80 mm, System 55 90400025

**NAT 2** Emergency Open version with green knob, white frame, concealed, 80 x 80 mm, System 55 90400035

**NAT 4** One NO and one NC contact, surface-mounted 68 x 68 mm Concealed 05027031332

## Cover frame for buttons and switches



### Standard System 55

**FR-S55 1** Single frame, white, 80.7 x 80.7 56391110

**FR-S55 2** Double frame, white, 151.8 x 80.7 56391210

**FR-S55 3** Triple frame, white, 223.3 x 80.7 56391310

### E2 System 55 (not shown)

**FR-E2W 1** Single frame, E2 55, white, 80.8 x 80.8 56392110

**FR-E2W 2** Double frame, E2 55, white, 151.9 x 80.8 56392210

**FR-E2W 3** Triple frame, E2 55, white, 223.4 x 80.8 56392310

**FR-E2S 1** Single frame, E2 55, silver, 80.8 x 80.8 56392101

**FR-E2S 2** Double frame, E2 55, silver, 151.9 x 80.8 56392201

**FR-E2S 3** Triple frame, E2 55, silver, 223.4 x 80.8 56392301

**FR-E2A 1** Single frame, E2 55, anthracite, 80.8 x 80.8 56392115

**FR-E2A 2** Double frame, E2 55, anthracite, 151.9 x 80.8 56392215

**FR-E2A 3** Triple frame, E2 55, anthracite, 223.4 x 80.8 56392315

## Active infrared sensor and combined sensors



### Combined sensor IXIO-DT1

Combined sensor featuring radar detector with direction recognition and safety curtain for non-escape route systems

<b>IXIO-DT1</b>	Black	86800001
	Silver	86800002
	White	86800003

### Combined sensor IXIO-DT3

Combined sensor featuring self-monitored radar detector with direction recognition and safety curtain for escape route systems

<b>IXIO-DT3</b>	Black	86800004
	Silver	86800005
	White	86800006

### Safety curtain IXIO-ST

Safety curtain (tested) IXIO-ST for monitoring closing edges

<b>IXIO-ST</b>	Black	86800010
	Silver	86800011
	White	86800012

NEW



### Combined sensor IXIO-D CAN

Combined sensor featuring radar detector with direction recognition and safety curtain for escape route systems and non-escape route systems (CAN-bus technology)

<b>IXIO-D CAN</b>	Black	86800053
	Silver	86800057
	White	86800056

### Safety curtain IXIO-S CAN

Safety curtain (tested) IXIO-S CAN for monitoring closing edges (CAN-bus technology)

<b>IXIO-S CAN</b>	Black	86800055
	Silver	86800059
	White	86800058

### Integrated combined sensor IXIO-D CAN

Combined sensor (without cover) featuring self-monitored radar detector with direction recognition and safety curtain for escape route and non-escape route systems for integration into the sensor casing.

<b>Integrated IXIO-D CAN</b>	86800050
------------------------------	----------

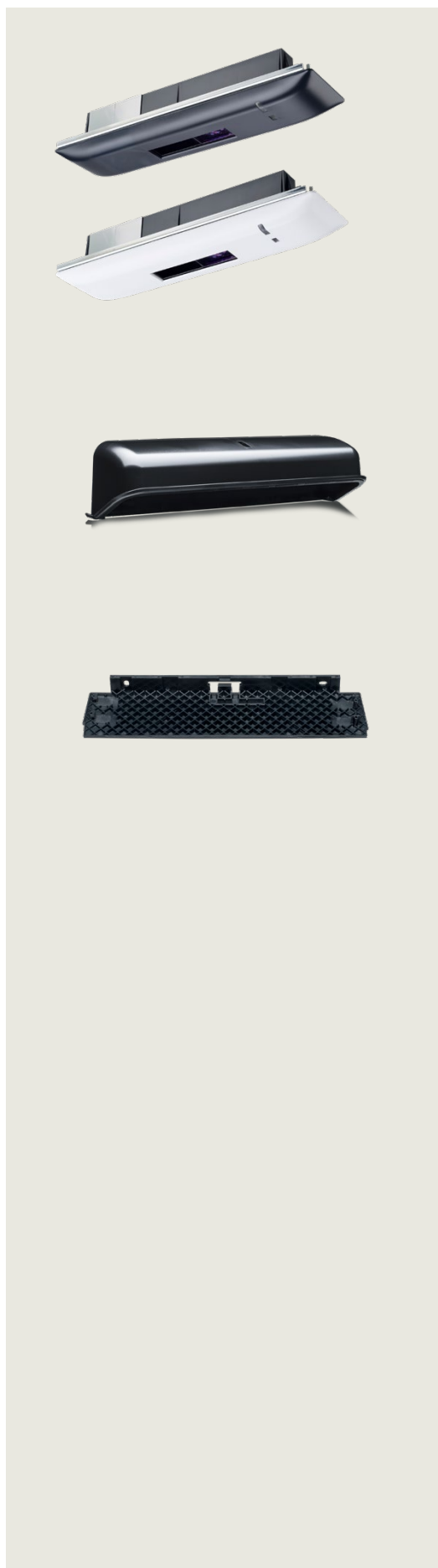
### Integrated safety curtain IXIO-S CAN

IXIO-S CAN safety curtain (tested, without cover) for monitoring closing edges (CAN-bus technology), for integration into the sensor casing.

<b>Integrated IXIO-S CAN</b>	86800052
------------------------------	----------



## Accessories for active infrared sensor and combined sensors



### Ceiling installation set

Ceiling installation system for IXIO-DT and IXIO-S

<b>Ceiling installation set</b>	Black	86800019
	White	86800020

### Rain protection cover

Rain protection cover for IXIO-DT and IXIO-ST

<b>Rain protection cover</b>	Black	86800021
------------------------------	-------	----------

### Fixing bracket

Fixing bracket for IXIO-DT and IXIO-ST

<b>Fixing bracket</b>	Black	86800016
-----------------------	-------	----------







**Door Hardware**



**Automatic Door  
Systems**



**System Solutions  
Access and Time**



**Glass Systems**



**Mechanical  
Lock Systems**



**Service**

**dormakaba**  
**International Holding AG**  
Hofwissenstrasse 24  
CH-8153 Rümlang  
T +41 44 818 90 11  
info@dormakaba.com  
www.dormakaba.com