dormakaba

Automatic sliding door operators **ES PROLINE**

Technical product brochure

Our dedication 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.

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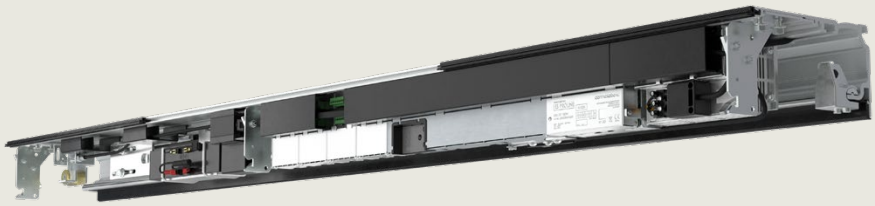
ES PROLINE

The new generation of sliding door operators – powerful, quick and networked.



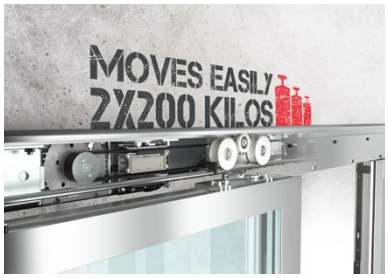
ES PROLINE EASY
Entry-level solution with
a Direct Drive Unit (DDU).

ES PROLINE
For standard sliding doors with door leaves weighing up to 2 x 200 kg and optional expansion modules.

ES PROLINE FST
For sliding doors used on escape routes with door leaves weighing up to 2 x 200 kg and optional expansion modules.

The new ES PROLINE drive system for automatic sliding doors is the ideal solution in almost all applications and areas of use. It features many enhanced functions and attributes compared to the previous drive system. The modular structure of the system enables it to be used with classic sliding doors, sliding doors with escape route functions and with telescopic sliding doors.

The ES PROLINE is a sound investment for the future. This drive system addresses current topical issues such as sustainability and digitisation. The ES PROLINE also complies with the current European and German standards and safety regulations DIN 18650 and EN 16005.

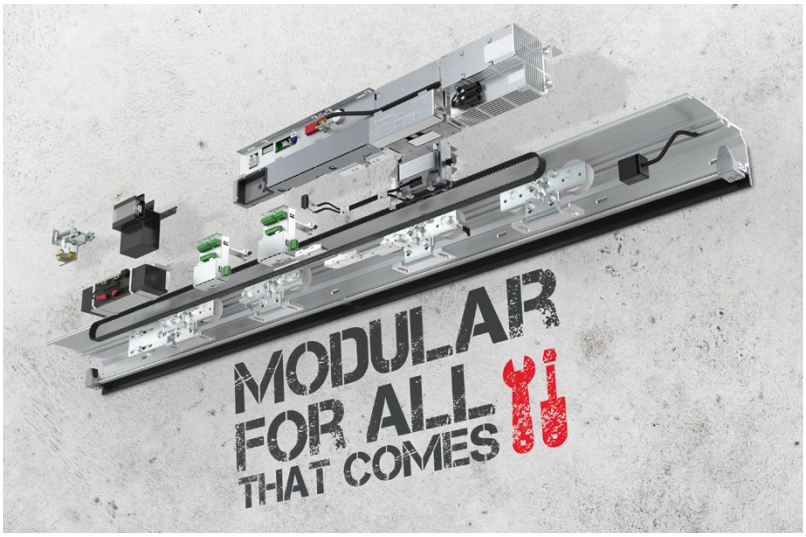


Powerful
The ES PROLINE is equipped with modern dormakaba Direct Drive motor technology for the dynamic opening and closing of sliding doors.
The ES 400 PRO drive model can be used for door leaves with a weight of up to 2 x 200 kg.

Durable
Verified dormakaba quality is the goal of the ES PROLINE. This drive system successfully passed tests involving **1.5 million opening and closing cycles**. This extends the service life of doors by 50%.

Quick
The ES PROLINE opens and closes automatic sliding doors swiftly. This ensures a smooth flow of users even in areas with a high volume of traffic.
It also contributes to reducing energy losses caused by open doors.

Modular
The adaptable ES PROLINE can be used to satisfy varying requirements for automatic sliding doors.
The modular kit can be universally combined with standard doors, escape route doors and telescopic sliding doors.
Converting existing systems (dormakaba ES 200) is quite straightforward.



Sustainable
The ES PROLINE modular system is economical and utilises dormakaba Direct Drive motor technology. In addition, the packaging material is 100% recyclable.

Quiet
Its gearless motor means that the ES PROLINE opens and closes sliding doors extremely quietly.
Making it ideal for use in applications particularly sensitive to noise.

Connected
The ES PROLINE drive can be equipped with a module that enables it to be controlled by an app.
The app also provides useful additional information and a direct link to dormakaba Service.

ES PROLINE
Data and features

Control module		**ES 250 PRO ES 400 PRO ES 250 PRO T ES 400 PRO T**	**ES 250 PRO FST ES 400 PRO FST ES 250 PRO T FST ES 400 PRO T FST**	**ES 250 PRO EASY ES 250 PRO T EASY**
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 accessories		●	●	●
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	2
Functions*				
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

Control module	ES 250 PRO ES 400 PRO ES 250 PRO T ES 400 PRO T	ES 250 PRO FST ES 400 PRO FST ES 250 PRO T FST ES 400 PRO T FST	ES 250 PRO EASY ES 250 PRO T EASY
Safety and activation (SiAK) expansion module**			
For connecting conventional (not CAN-bus-capable) safety and activation sensors	○	○	-
Program switch (MS) expansion module**			
For connecting conventional (not CAN-bus-capable) program switches	○	○	-
Auxiliary equipment			
Electro-mechanical belt locking device	○	○	○
Manual lock release for electro-mechanical locking device	○	○	○
Magnetic locking device, jam-free	○	○	-
Electromotive hook locking device (up to RC3)	○	○	-
Manual lock release for electromotive locking device	○	○	-
Battery set	○	●	○
Emergency power supply UPS (external)	○	○	○
Module for connection to LON/LAN building control systems	○	○	-
Potential-free relay contact	○	○	○

● as standard ○ optional

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

Sliding door operators
with and without FST escape route function

The innovative ES PROLINE sliding door drive system can be used for classic single-leaf or double-leaf sliding door applications without a hitch.
It can also be used on escape route and emergency exit doors, as well as with particularly heavy door leaves.

System dimensions and max. door leaf weight

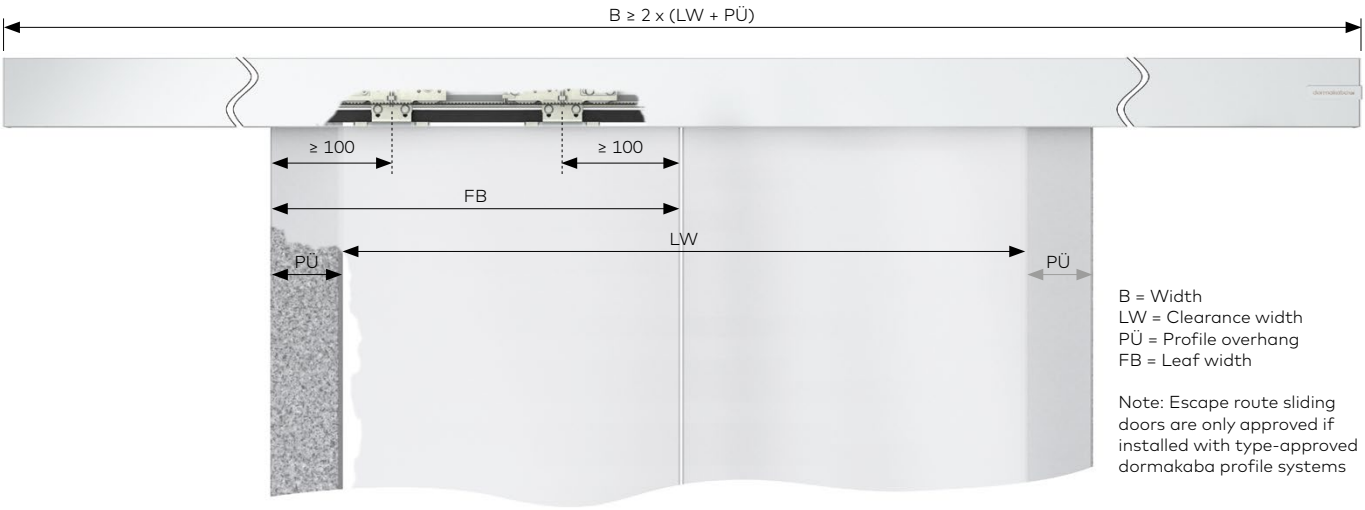
Door parameters	**1-leaf**		**2-leaf**	
	ES 250 PRO ES 250 PRO FST ES 250 PRO EASY	**ES 400 PRO ES 400 PRO FST**	**ES 250 PRO ES 250 PRO FST ES 250 PRO EASY**	**ES 400 PRO ES 400 PRO FST**
Max. door leaf weight	1 x 125 kg	1 x 250 kg	2 x 125 kg	2 x 200 kg
Clear passage width LW*	700–3000 mm		800–3000 mm	
Clear passage height LH	2000–3000 mm		2000–3000 mm	

Estimated door leaf weight

Door leaf weight $= \frac{\text{LH [m] x LW [m] x weight of glass [kg/m²]}}{\text{Number of door leaves}}$

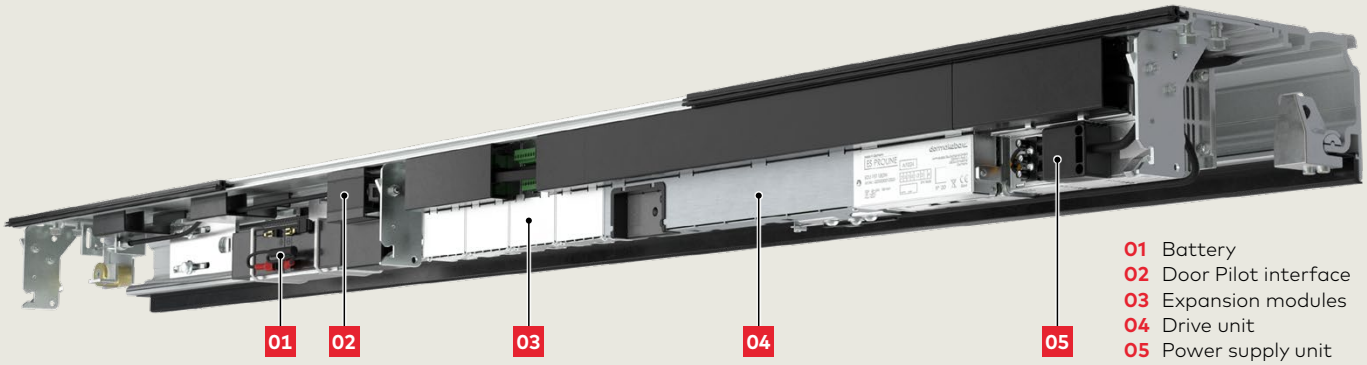
Normal glass weights: 10 mm glass thickness e.g. toughened safety glass 10: 25 kg/m², 12 mm glass thickness e.g. double glazing 22, 2 x laminated safety glass 6: 30 kg/m²

*The minimum clear passage width for escape route sliding doors is specified in the relevant regional building codes and may vary. The maximum practicable dimensions are subject to the respective door plans and door requirements and also depend on the selected profile system.



B = Width
LW = Clearance width
PÜ = Profile overhang
FB = Leaf width

Note: Escape route sliding doors are only approved if installed with type-approved dormakaba profile systems



01 Battery
02 Door Pilot interface
03 Expansion modules
04 Drive unit
05 Power supply unit

Technical data for sliding door operators

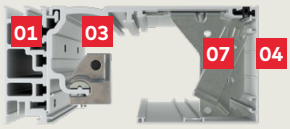
	Standard sliding door			Escape route sliding door	
Door parameters	**ES 250 PRO**	**ES 400 PRO**	**ES 250 PRO EASY**	**ES 250 PRO FST**	**ES 400 PRO FST**
Min. operator length	2 LW	2 LW	2 LW	2 LW	2 LW
Operator depth in mm	180	180	180	180	180
Operator height in mm	100	100	100	100	100
Use in escape routes 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)	< 47 dB(A)
Settings					
Opening speed (adjustable in increments)	10–70 cm/s	10–90 cm/s	10–70 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	10–70 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	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	25–300 cm
Low-speed travel OPEN/CLOSE	0–30 cm	0–30 cm	0–30 cm	0–30 cm	0–30 cm
Power supply					
Supply voltage	230 V, 50/60 Hz	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	130 W	180 W
On-site line fuse	10 A	10 A	10 A	10 A	10 A
Degree of protection	IP 20	IP 20	IP 20	IP 20	IP 20
Power supply for peripheral equipment under network conditions	24 V DC/2A	24 V DC/2A	27 V DC/1A	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	Optional 21–27 V DC/1A	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	- 20 to + 60 °C
Permissible air humidity (relative) (non-condensing)	max. 93%	max. 93%	max. 93%	max. 93%	max. 93%
Standardisation and testing					
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.	●	●	●	●	●

Header profiles

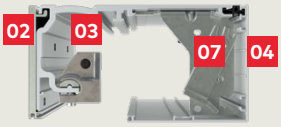
Profiles for 100 mm and 150 mm drive heights, for corridor or wall installation, enable the system to be adapted to all conceivable areas of application.
The basic mechanical system has a low number of components and is the same for both drive heights.

01 Aluminium girder
02 Mounting profile
03 Header profile
04 Internal casing for 100 mm drive height
05 Sensor casing for 100 mm drive height
06 Internal casing for 150 mm drive height
07 Cover bracket

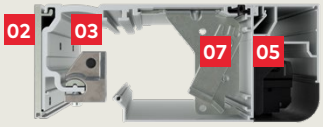
Profiles for corridor installation: 100 mm



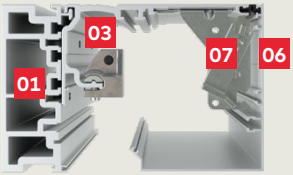
Profiles for wall installation: 100 mm



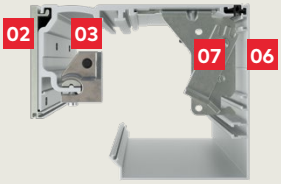
Profiles for wall installation: 100 mm with sensor casing



Profiles for corridor installation: 150 mm

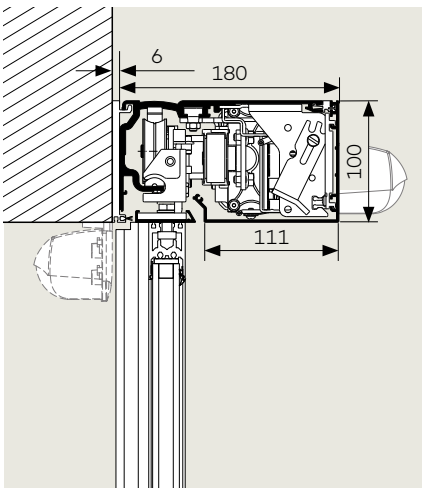


Profiles for wall installation: 150 mm

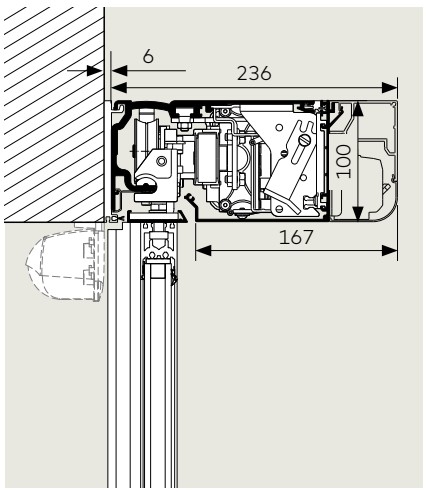


Schematic illustration of door cross-section
(operator and sliding panel)

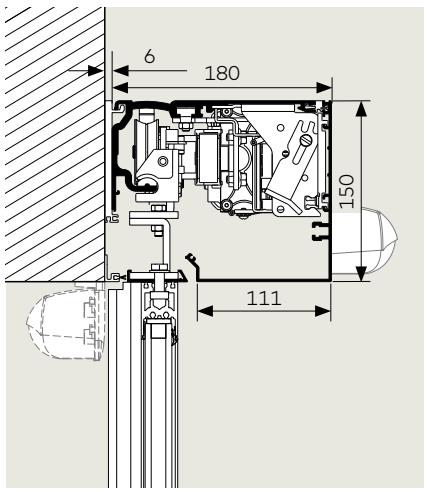
Schematic illustration of door cross-section: wall mounted, drive height 100 mm



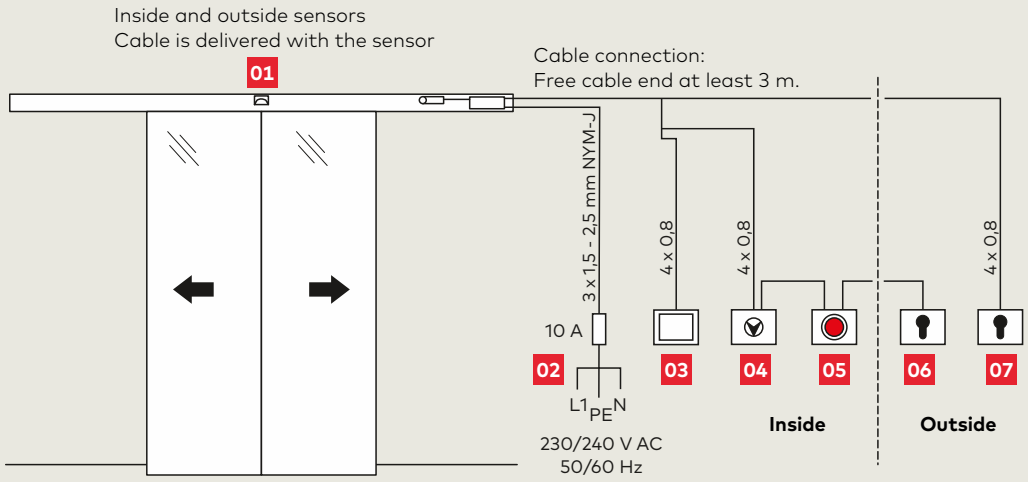
Schematic illustration of door cross-section: wall mounted, sensor casing, drive height 100 mm



Schematic illustration of door cross-section: wall mounted, drive height 150 mm



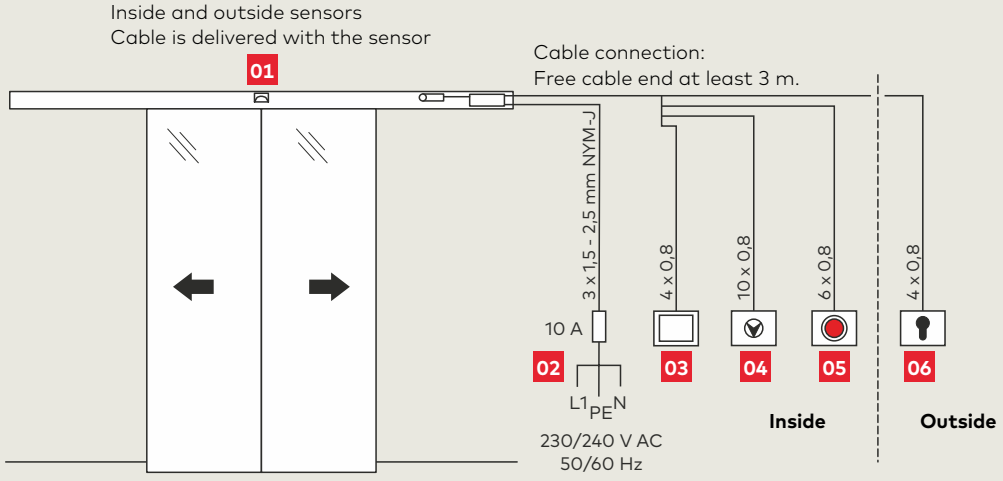
Connections with CAN-bus technology



Connections

01 CAN sensor
02 Power supply line
03 Activation switch
04 CAN program switch
05 CAN emergency switch
06 CAN key switch
07 Access control

Conventional technology connections



Connections

01 Sensor
02 Power supply line
03 Activation switch
04 Program switch
05 Emergency switch
06 Access control key switch

Telescopic sliding door operators
with and without FST escape route function

Automatic telescopic sliding door operators can be used to construct wide passageways with comparatively slim systems. And that is not the only reason they are so versatile: they can also be used for escape route and emergency exit doors with opening widths of up to 4000 mm.

System dimensions and max. door leaf weight

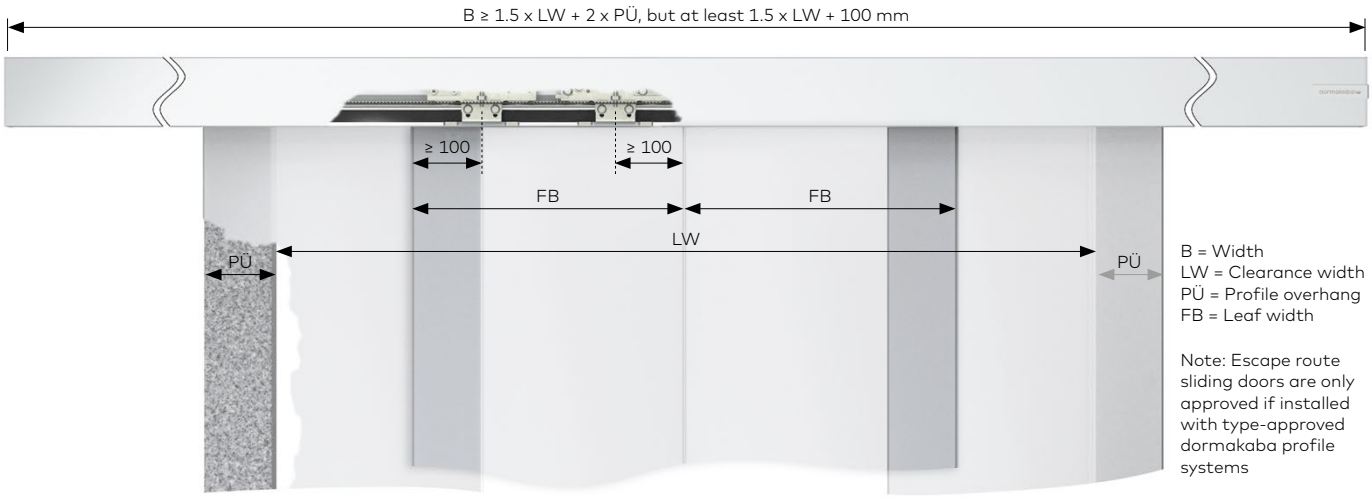
Door parameters	2-leaf		4-leaf	
	ES 250 PRO T ES 250 PRO T FST ES 250 PRO T EASY	**ES 400 PRO T ES 400 PRO T FST**	**ES 250 PRO T ES 250 PRO T FST ES 250 PRO T EASY**	**ES 400 PRO T ES 400 PRO T FST**
Max. door leaf weight	2 x 65 kg	2 x 100 kg	4 x 65 kg	4 x 100 kg
Clear passage width LW*	800–2400 mm		1400–4000 mm	
Clear passage height LH	2000–3000 mm		2000–3000 mm	

Estimated door leaf weight

door leaf weight $= \frac{\text{LH [m] x LW [m] x weight of glass [kg/m²]}}{\text{Number of door leaves}}$

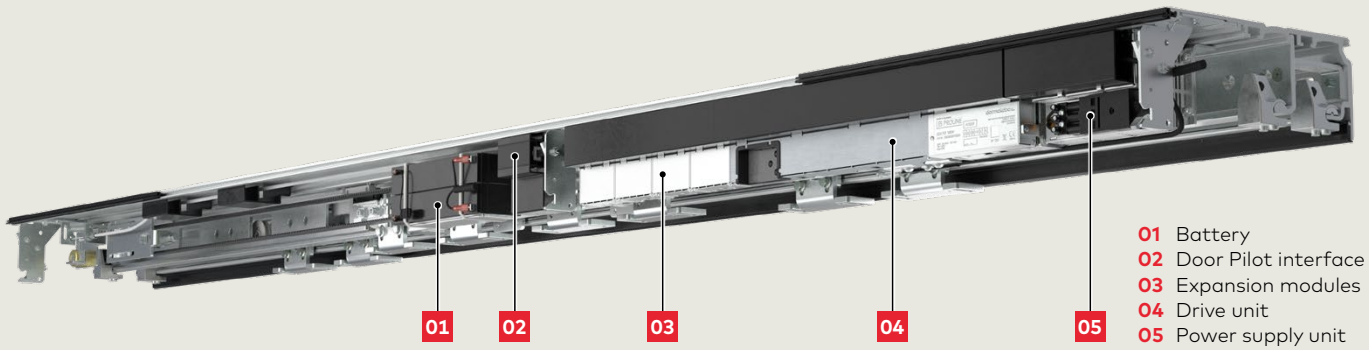
Normal glass weights: 10 mm glass thickness e.g. toughened safety glass 10: 25 kg/m², 12 mm glass thickness e.g. double glazing 22, 2 x laminated safety glass 6: 30 kg/m²
A drive suspension is required from a leaf weight of 2 x 75 kg or 4 x 75 kg.

***The minimum clear passage width for escape route sliding doors is specified in the relevant regional building codes and may vary. The maximum practicable dimensions are subject to the respective door plans and door requirements and also depend on the selected profile system.



B = Width
LW = Clearance width
PÜ = Profile overhang
FB = Leaf width

Note: Escape route sliding doors are only approved if installed with type-approved dormakaba profile systems



01 Battery
02 Door Pilot interface
03 Expansion modules
04 Drive unit
05 Power supply unit

Technical data for telescopic sliding door operators

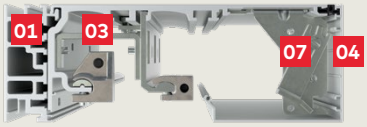
	Standard telescopic sliding door			Escape route telescopic sliding door	
Door parameters	**ES 250 PRO T**	**ES 400 PRO T**	**ES 250 PRO T EASY**	**ES 250 PRO T FST**	**ES 400 PRO T FST**
Min. operator length	1.5 LW+100	1.5 LW+100	1.5 LW+100	1.5 LW+100	1.5 LW+100
Operator depth in mm	252	252	252	252	252
Operator height in mm	100	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)	< 47 dB(A)
Settings					
Opening speed (adjustable in increments)	10–70 cm/s	10–90 cm/s	10–70 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	10–70 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	0–180 s
Night/bank opening delay	0–10 s	0–10 s	–	0–10 s	0–10 s
Partial opening	25–400 cm	25–400 cm	25–400 cm	25–400 cm	25–400 cm
Low-speed travel OPEN/CLOSE	0–30 cm	0–30 cm	0–30 cm	0–30 cm	0–30 cm
Power supply					
Supply voltage	230 V, 50/60 Hz	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	130 W	180 W
On-site line fuse	10 A	10 A	10 A	10 A	10 A
Degree of protection	IP 20	IP 20	IP 20	IP 20	IP 20
Power supply for peripheral equipment under network conditions	24 V DC/2A	24 V DC/2A	27 V DC/1A	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	Optional 21–27 V DC/1A	21–27 V DC/2A	21–27 V DC/2A
Temperature range	- 20–+ 60 °C	- 20–+ 60 °C	- 20–+ 60 °C	- 20–+ 60 °C	- 20–+ 60 °C
Permissible air humidity (relative) (non-condensing)	max. 93%	max. 93%	max. 93%	max. 93%	max. 93%
Standardisation and testing					
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.	●	●	●	●	●

Header profiles

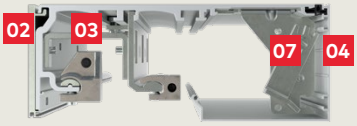
Profiles for 100 mm and 150 mm installation heights, for corridor or wall installation, enable the system to be adapted to all conceivable areas of application.
The basic mechanical system, with a low number of components, is the same for both installation heights.

01 Aluminium girder
02 Mounting profile
03 Header profile
04 Internal casing for 100 mm drive height
05 Sensor casing for 100 mm drive height
06 Internal casing for 150 mm drive height
07 Cover bracket

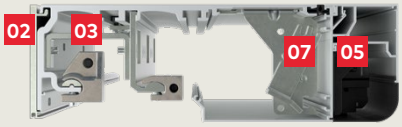
Profiles for corridor installation: 100 mm



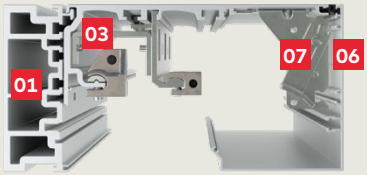
Profiles for wall installation: 100 mm



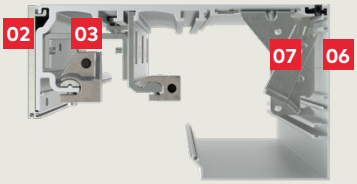
Profiles for wall installation: 100 mm with sensor casing



Profiles for corridor installation: 150 mm



Profiles for wall installation: 150 mm

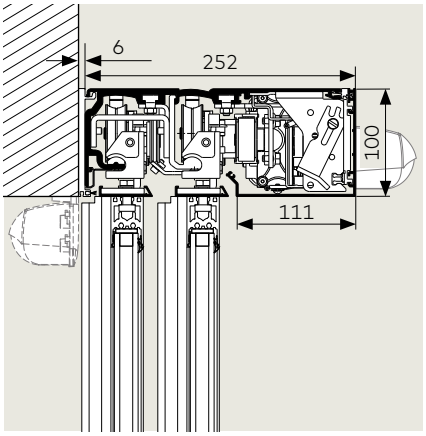


Additional suspension guide rail

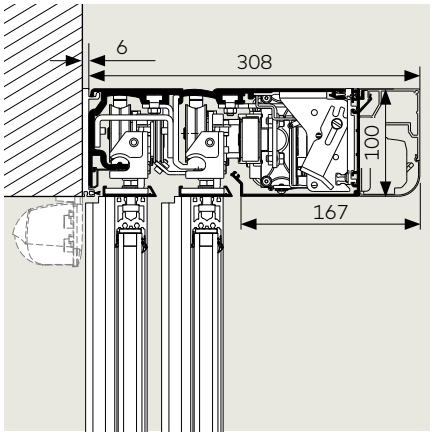
If the door leaf weight exceeds 75 kg, the use of a suspension of the guide rail is required. Strongly recommended from 3 m opening width.

Schematic illustration of door cross-section
(operator and sliding panel)

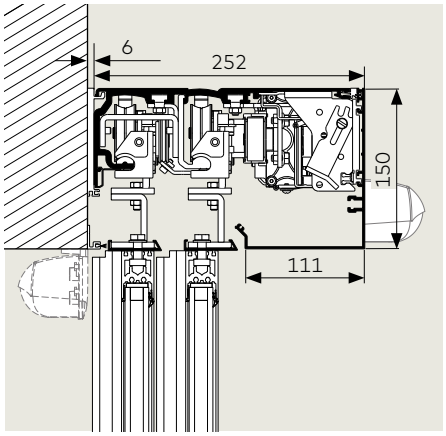
Schematic illustration of a door cross-section: wall mounted, drive height 100 mm



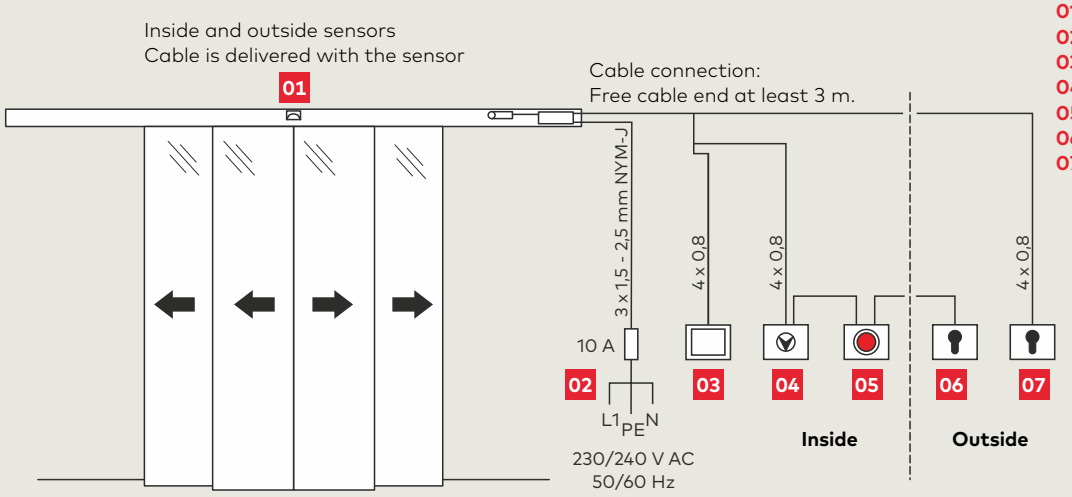
Schematic illustration of door cross-section: wall mounted, sensor casing, drive height 100 mm



Schematic illustration of a door cross-section: wall mounted, drive height 150 mm

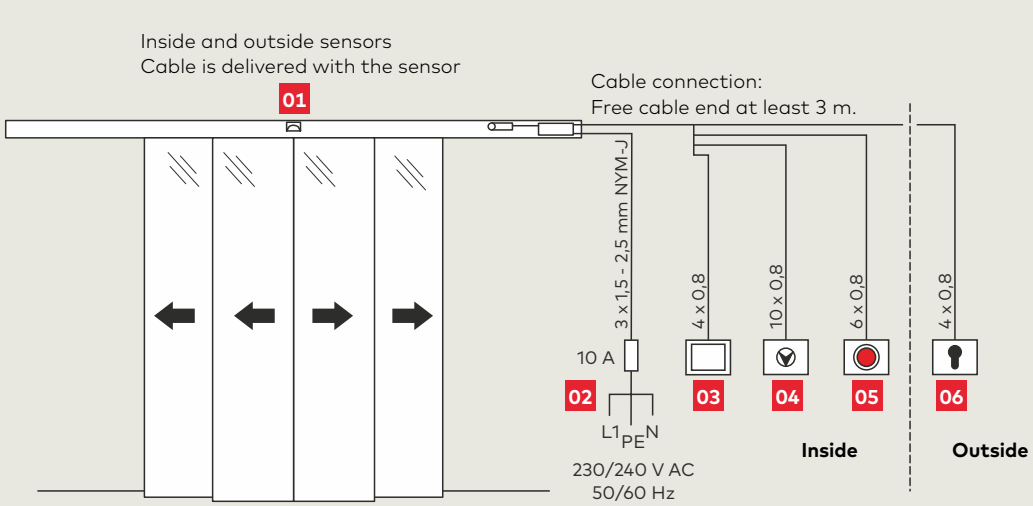


Connections with CAN-bus technology



Connections
- **01** CAN sensor
- **02** Power supply line
- **03** Activation switch
- **04** CAN program switch
- **05** CAN emergency switch
- **06** CAN key switch
- **07** Access control

Conventional technology connections



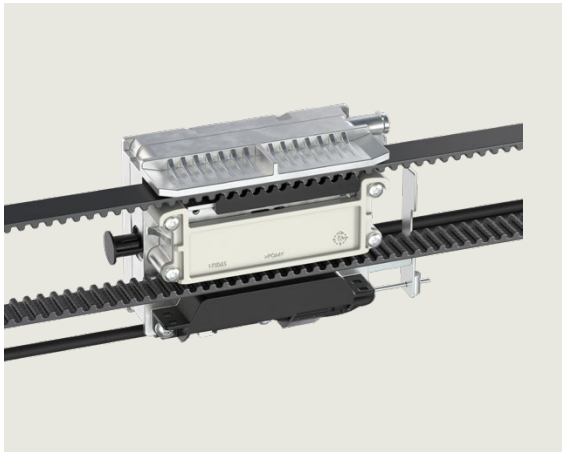
Connections
- **01** Sensor
- **02** Power supply line
- **03** Activation switch
- **04** Program switch
- **05** Emergency switch
- **06** Access control key switch

Locking devices

dormakaba offers a range of locking device variant for ES PROLINE sliding door systems to prevent unauthorised access to buildings.

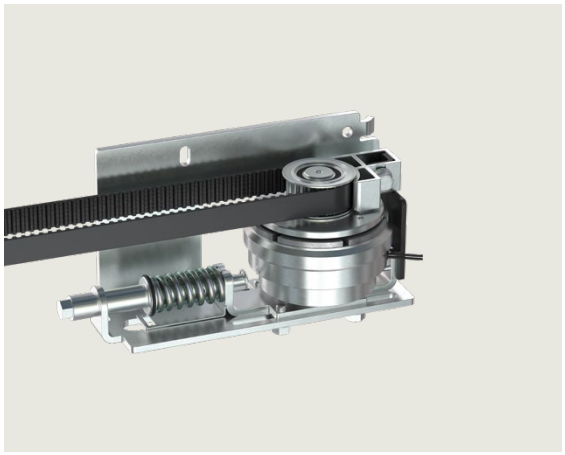
Electro-mechanical belt locking device

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 Failsecure: closes the locking device in the event of a power failure) are also available.



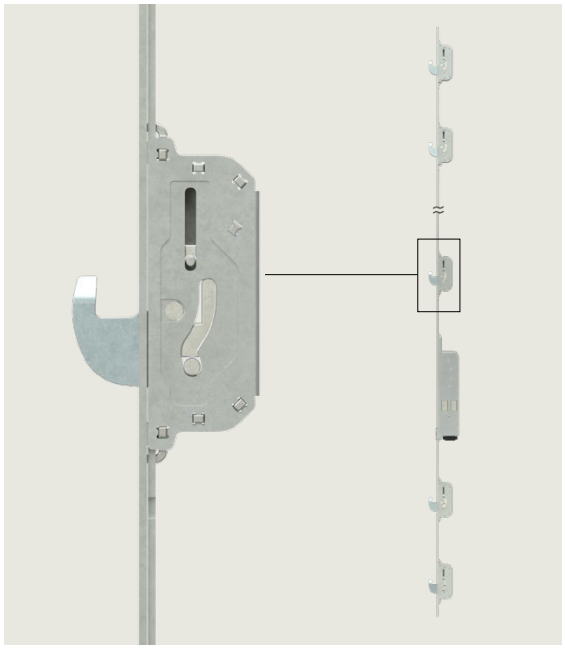
Magnetic locking device (FIA) for escape route and emergency exit doors

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.

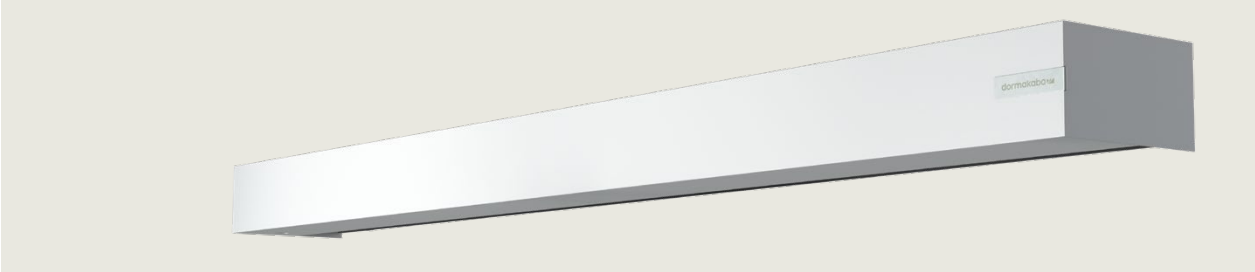


Electromotive hook locking device (RC2/RC3)

This particularly robust multipoint locking device provides a very high level of intruder protection for standard sliding doors and doors of resistance classes RC 2 and RC 3 (doors with resistance classes RC 2 and RC 3 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

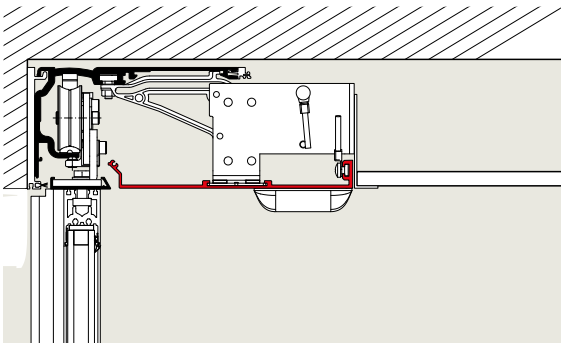


Standard casing

The standard casing for ES PROLINE operators is available in two different versions (in heights of 100 mm, 150 mm or 200 mm) and is used for ST sliding doors as well as for TST telescopic sliding doors. A cover bracket is supplied as standard and allows the casing to be opened in three different positions.

Sensor casing

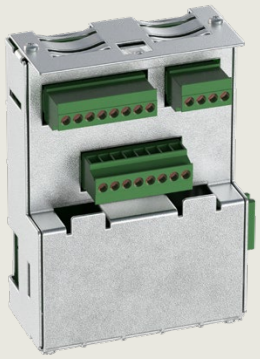
For doors with 100 m drive heights Sensor casing is the solution when it comes to premium design requirements. Activation and safety sensors are integrated into the cover to create a sleek look. The sensor casing is approved for doors with a maximum passage height of 3000 mm.



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. With special accessories sets, the safety sensors can be integrated in the casing 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

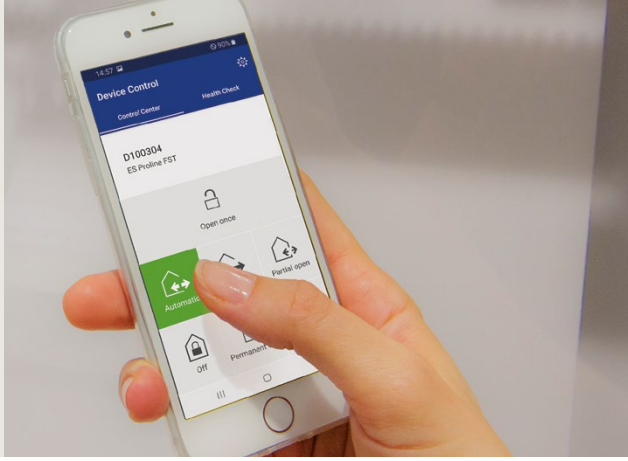
The master controller provides four programmable inputs and outputs that can be used to implement the following functions.

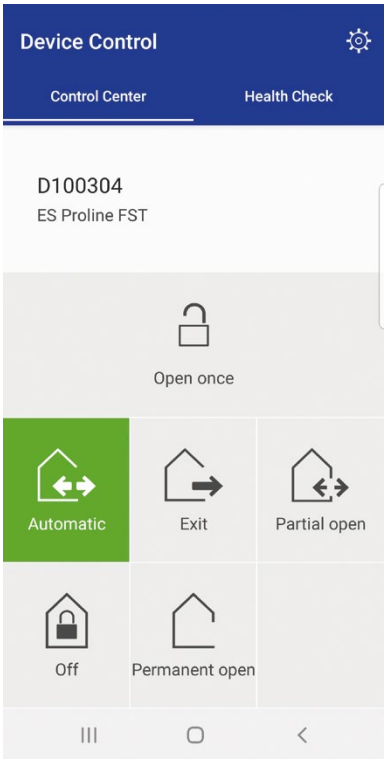
Pharmacy function/pharmacy door opening	The door can be **locked in a partially open position** apart from when the program switch is in the "Off" position. This allows a pharmacy to dispense goods securely outside business hours, for example.
Door status signal contacts	This function issues door statuses. E.g. Door open/closed/locked, System OK, Current door position.
Panic closing	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).
Door bell contact	For connecting an on-site door bell or an audible indicator.
Airlock function	The doors can be switched to function as a personal interlock (not for escape route systems).
Synchronous operation	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.
Safety deactivation	The door can be opened or closed by pressing a button.
Night/bank function	Allows the connection of access controls, key switches etc. with the program switch in the "Off" position. The door unlocks – opens – closes – locks.
Fire service function	Used to deliberately open and close a door via a separate signal input.
Slide and Go	An opening signal can be triggered by gently pushing the door leaf.
Unlock/lock in case of malfunction	In case of system malfunction, a door can be deliberately triggered to close and lock or unlock and open.

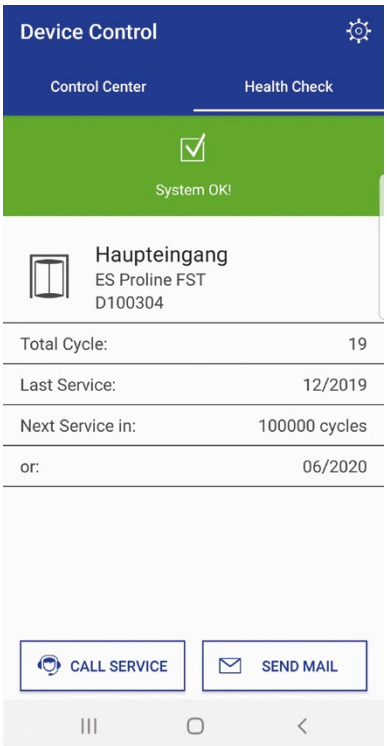
Expansion modules

4 I/O Expansion module	The 4 I/O module is capable of 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.
Safety and activation (SiAK) expansion module	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).
Program switch (MS) expansion module	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







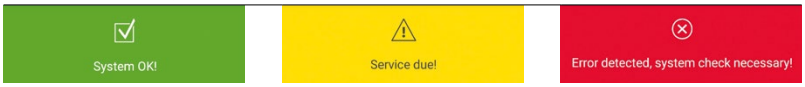
The dormakaba Door Pilot app allows automatic doors to be easily controlled from a smartphone. Operators from the ES PROLINE series can be equipped with the Door Pilot interface as an option. The app is available in iOS and Android versions and can be obtained from the respective app store.

Program switch functions

Use 6 different functions:

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

Door status signal contacts



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

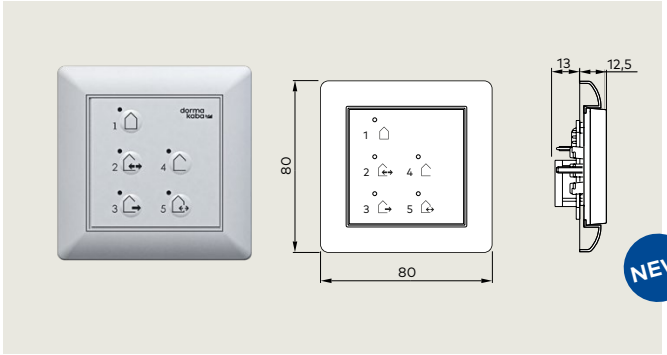
Program switches

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.

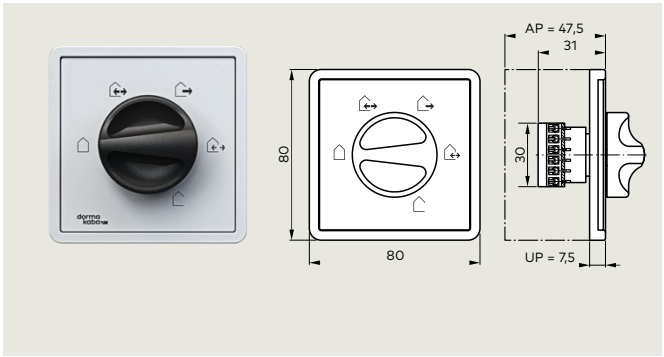
- Up to 5 different functions: Off, automatic, exit only, partially open, permanent open
- Electronic program switches in System 55 design for the most discerning aesthetic demands

For sliding door operators without escape route and emergency exit requirements



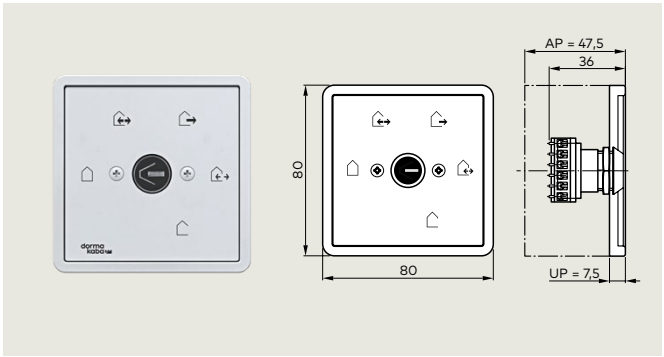
EPS fully electronic program switch
System 55 design, 5 positions, lockable using coding or additional TL-ST S55 key switch, membrane keypad, concealed, 80 x 80 mm

		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

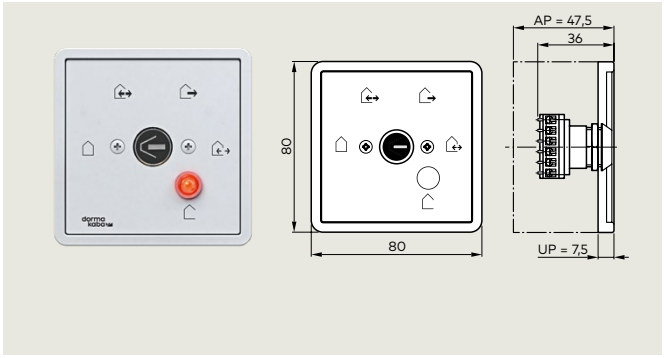
		Article no.
PG-S1	White, Gira S-Color	19135401150
Box for surface mounting		5080531332



PG-S2 program switch
5 positions, lockable, aluminium, concealed, 80 x 80 x 40 mm

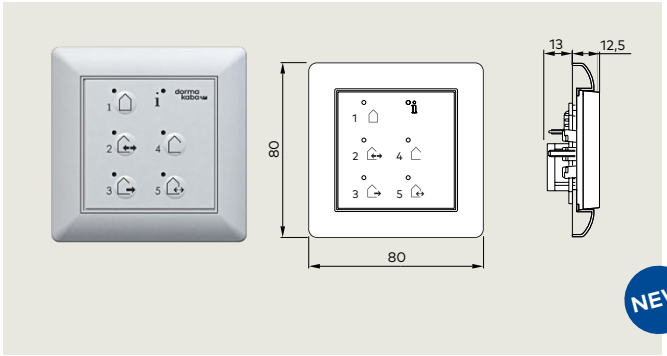
		Article no.
PG-S2	White, Gira S-Color	19135602150
Box for surface mounting		5080531332

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.
PG-FST1	White, Gira S-Color	19135603150
Box for surface mounting		5080531332

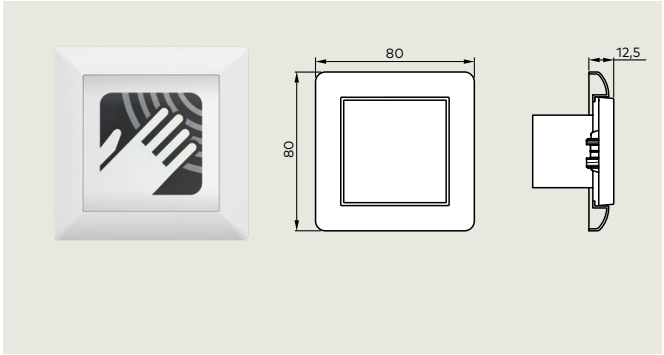


NEW

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

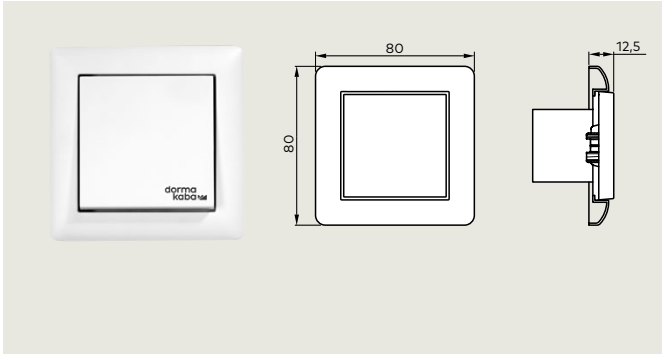
		Article no.
EPS-FST	White	16556801150
EPS CAN	White	16712501150
Box for surface mounting		5158533332

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.
Magic Switch	White	05076831332



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

		Article no.
Manual release switch	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

KT 3-1 UP	Concealed	05054531332
KT 3-1 AP	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

KT 8 UP	Concealed	05054831332
KT 8 AP	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.**

TL-ST S55 W	White	56330710
TL-ST S55 S	Silver	56330701
TL-ST S55 A	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

KT 3-2	05054731332

NEW

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.

CAN key switch	16715801150

LED touch key

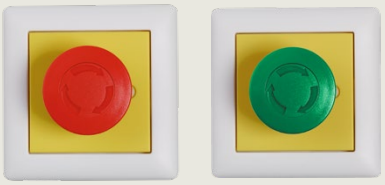
LED touch key
Manual actuator with plastic frame in white, similar to RAL 9016 and traffic grey similar to RAL 7043

LED touch key	16672601170

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

LED touch key	16672901170

Emergency activation buttons



Emergency switch CAN NEW

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

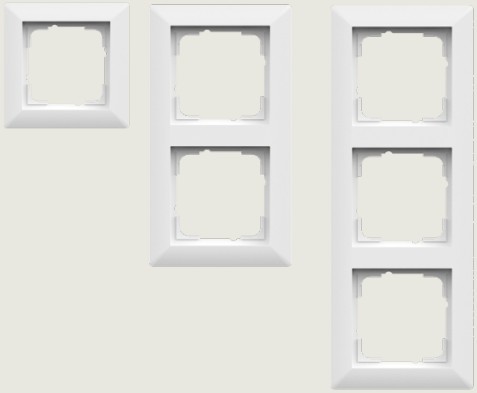
TL-N S55	56330500

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

IXIO-DT1	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

IXIO-DT3	Black	86800004
	Silver	86800005
	White	86800006

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

IXIO-ST	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)

IXIO-D CAN	Black	86800053
	Silver	86800057
	White	86800056

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

IXIO-S CAN	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.

Integrated IXIO-D CAN	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.

Integrated IXIO-S CAN	86800052

Accessories for active infrared sensor and combined sensors

Ceiling installation set

Ceiling installation system for IXIO-DT and IXIO-S

Ceiling installation set	Black	86800019
	White	86800020

Rain protection cover

Rain protection cover for IXIO-DT and IXIO-ST

Rain protection cover	Black	86800021

Fixing bracket

Fixing bracket for IXIO-DT and IXIO-ST

Fixing bracket	Black	86800016

WN 05522051532, 03/21, ES PROLINE, EN
Subject to technical modifications without notice

Door Hardware

Automatic Door Systems

System Solutions Access and Time

Glass Systems

Mechanical Lock Systems

Service

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