

# ES 200 EASY

## Sliding door operator



# Flexible, simple and modular

The ES 200 EASY in the attractive dormakaba design stands for simple automation of sliding door units in all areas of application.

It is the innovative drive system for door units up to 2 x 100 kg, is of modular construction with world-wide tried and trusted electronics and new mechanics comprising only a few components and can be used for both 100 and 150 mm height. The prefabricated MiniDriveUnit is also impressive; it is tested industrially with all the necessary electrical and electronic components.

The optimum solution for all customers who value simply assembly, low storage costs and ease of maintenance.

#### **High quality, excellent cost-effectiveness**

dormakaba offers a particularly cost-effective sliding door operator in the tried and trusted dormakaba quality with the ES 200 EASY. The basic version of the ES 200 sliding door operator is suitable for vastly differing applications and can be combined with all customary door profiles. It offers a number of adjustment possibilities, has excellent operation characteristics and is easy to maintain. The self-learning microprocessor controller guarantees reliable operation, ensures dynamic and smooth movements and fulfils the highest safety requirements according to all

European and German standards. The setting of all parameters is carried out quickly and easily via an integrated display with push-buttons. Operation is extremely simple and menu-assisted. Additional programming equipment is not required. dormakaba supplies, as the optimum supplement, program switches and pulse senders as well as door profiles specially matched to the drive.

#### **Features and advantages**

- Modular, flexible system
- For door units up to 2 x 100 kg
- Problem-free adaptation to individual requirements
- Low number of system components
- Industrially prefabricated and tested **MiniDriveUnit**
- Easy assembly of drive systems
- Multi-functional control, commissioning without programming equipment
- Easy fixing and commissioning
- Can be combined with all customary door profiles
- Reliable function and high safety standards
- Smooth movement
- Complete program at program switches
- Numerous standard connections
- Reliable investment due to compliance with all relevant European standards

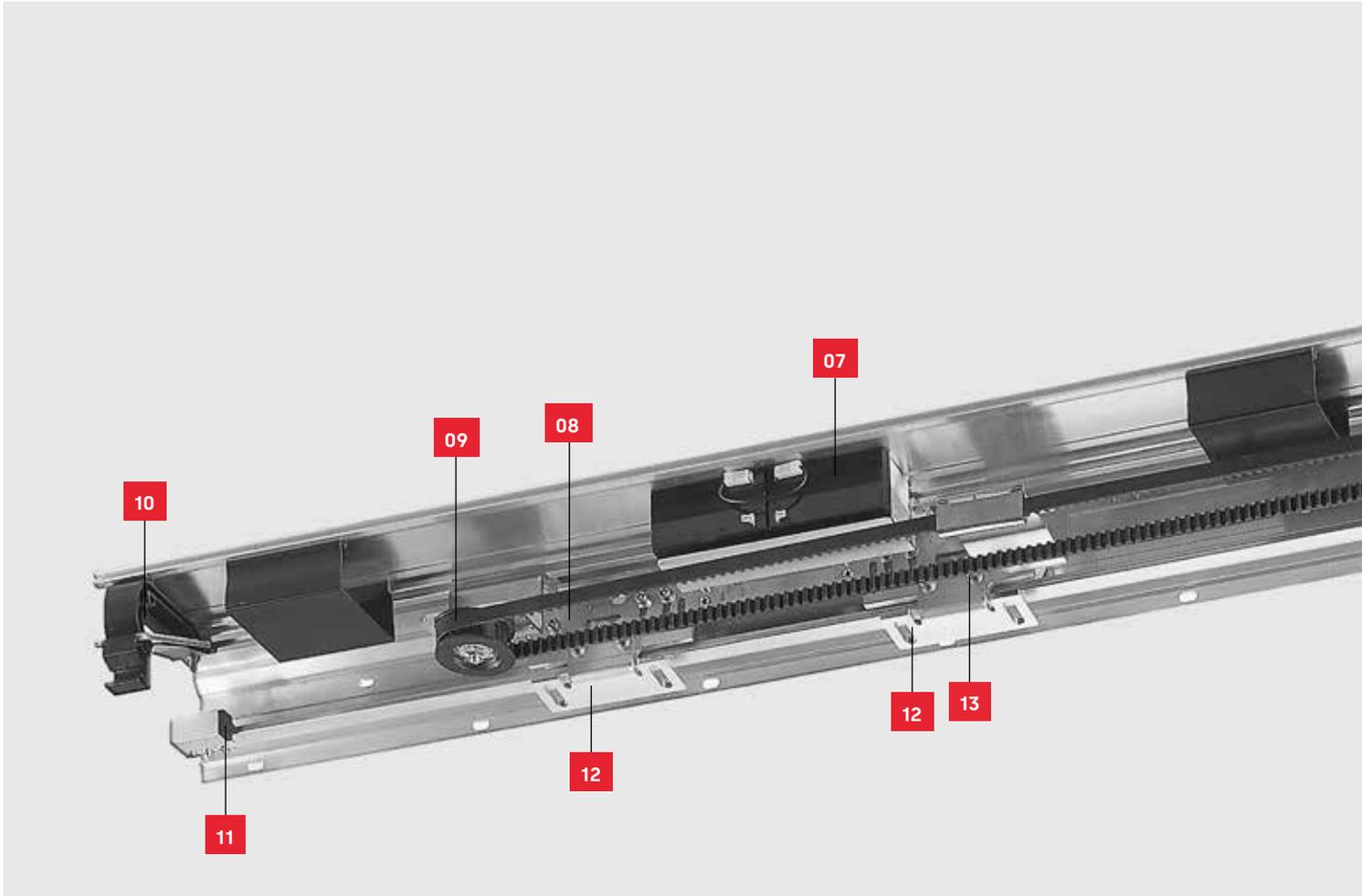
## Data and features

Door parameters		ES 200 EASY
1-panel sliding door	– Transit width LW – Door panel weight, max.	700 – 3000 mm 1 x 120 kg
2-panel sliding door	– Transit width LW – Door panel weight, max.	800 – 3000 mm 2 x 100 kg
Clear passage height*		2100 – 3200 mm
*Other dimensions on request.		

Technical data	
Height	100 and 150 mm
Depth	180 mm
Opening and closing force max. 150 N	●
Opening speed (incremental setting)	10 – 50 cm/s
Closing speed (incremental setting)	10 – 40 cm/s
Hold-open time	0,5 – 30 s
Mains voltage, frequency	230 V, 50/60 Hz
Power consumption	180 W
International protection	IP 20
Admissible temperature	- 20 – + 60 °C
Tested according to low-voltage guidelines	●
Manufacture according to ISO 9001	●
Environmental product declaration in accordance with ISO 14025 Programme holder: Institute Construction and Environment e.V. Declaration number: EPD-DOR-2013511-E	●

Basic module (BM)	ES 200 EASY
Microprocessor controller	●
Functional programs	●
– Off	●
– Automatic	●
– Permanent open	●
– Partial open	●
– Exit only	●
– Night-bank switch	●
Emergency off	●
Self-learning	●
Automatic reversing	●
Connection for bistable electro-mechanical locking	●
Connection for light barriers (max. 2 pairs)	●
Setting of basic parameters via integrated display and push-buttons	●
Emergency opening or closing (with use of battery pack)	●
24 V output for external consumption	●
Read-out error store with error codes	●

Additional equipment	
Electro-mechanical locking (bistable)	○
Manual unlocking for electro-mechanical locking	○
Light barriers	○
Battery pack (emergency opening, emergency closing)	○
Emergency power module USV	○
Module for coupling to EIB buildings control systems	○

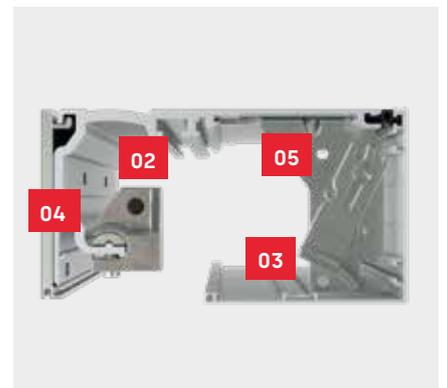
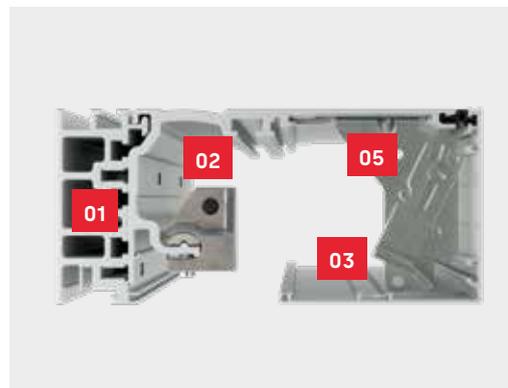


**Profiles for corridor installation, 100 mm**

**Profiles for wall fixing, 100 mm**

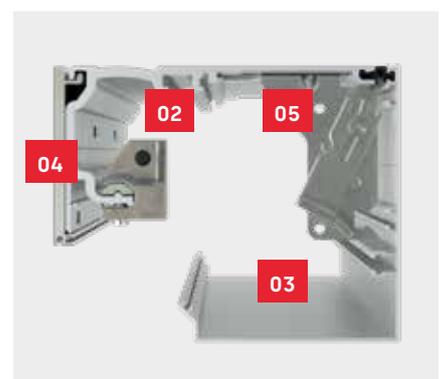
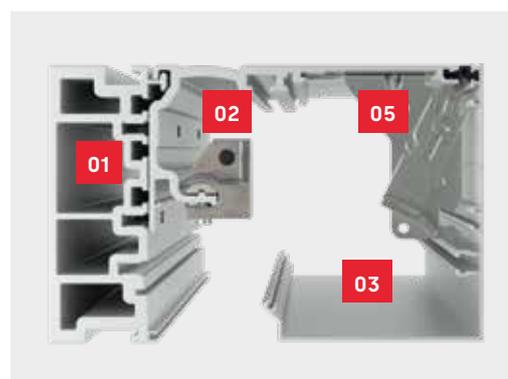
Profile for 100 mm and 150 mm height, for corridor or wall fixing guarantees adaptation for all possible applications.

The mechanical basic system, with a low number of components, is the same for both heights.

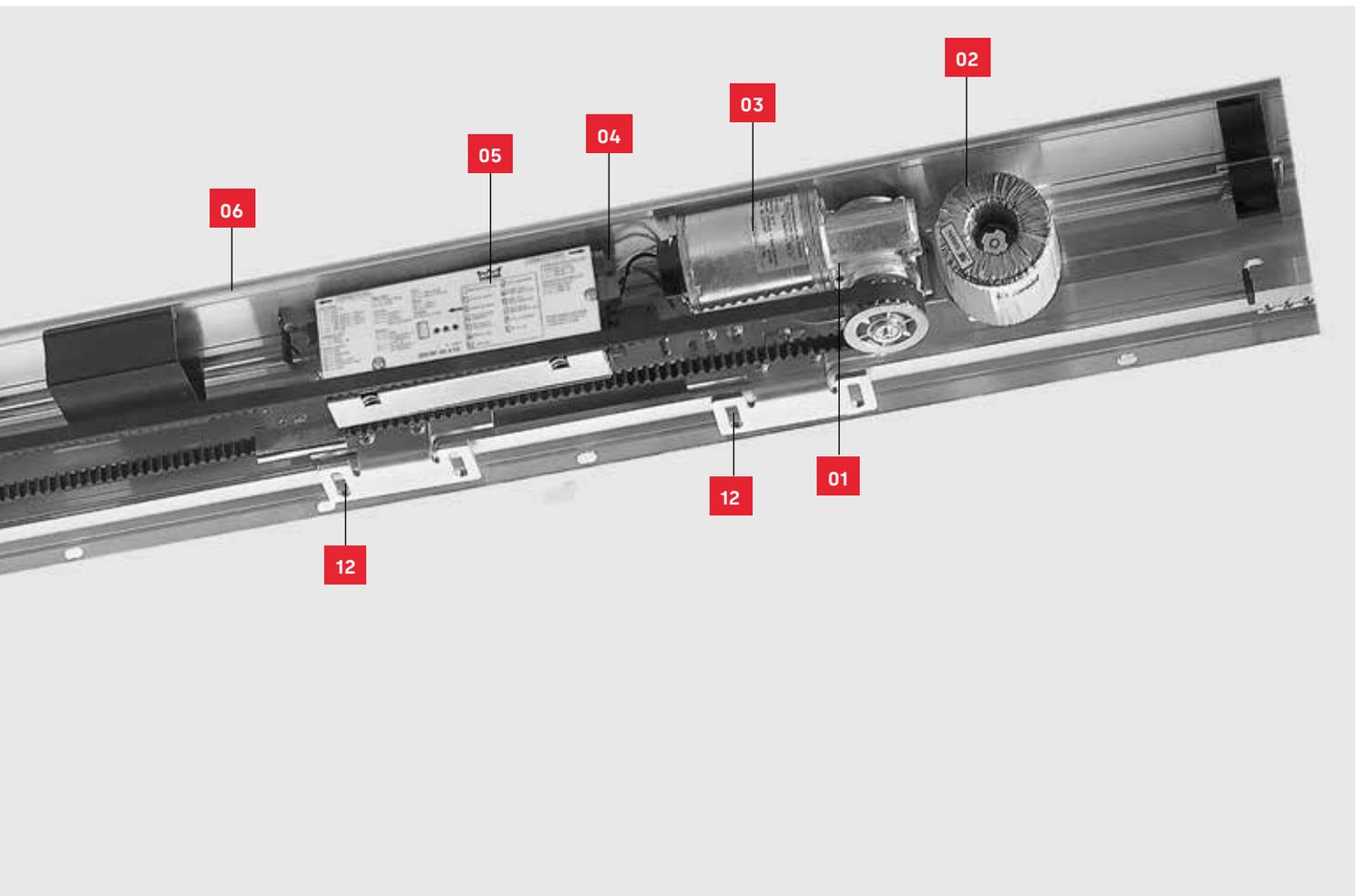


**Profiles for corridor installation, 150 mm**

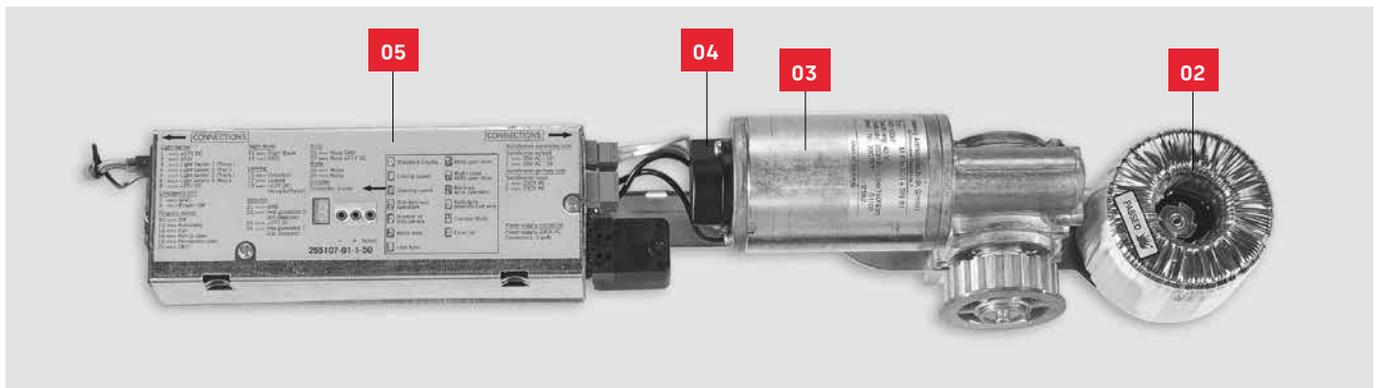
**Profiles for wall fixing, 150 mm**



- 1 LM rail
- 2 Basic drive profile
- 3 Interior cover in 100 or 150 mm height
- 4 Wall fixing profile
- 5 Service cover holder



## MiniDriveUnit



### The heart of the ES 200 EASY

The prefabricated **MiniDriveUnit** with all the electrical components necessary is industrially tested and facilitates the assembly and maintenance of drive units. The control unit has proven its worth a thousand times in all imaginable fields of application throughout the world.

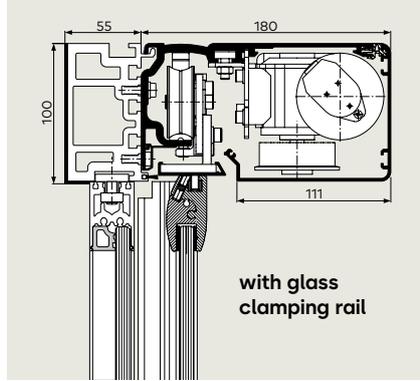
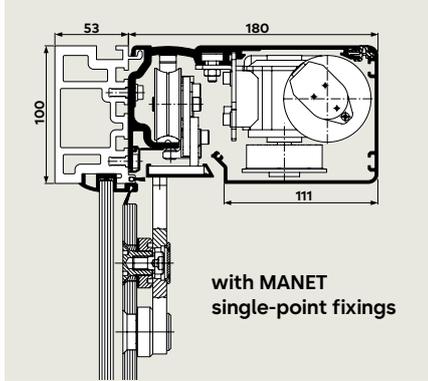
### Components

- 1 **MiniDriveUnit**
- 2 Transformer
- 3 Motor
- 4 Decoder
- 5 Control unit EC2
- 6 Run and installation profile
- 7 Battery pack (optional)

- 8 Carriage
- 9 Deflection roller
- 10 Service cover holder
- 11 End stopper
- 12 Door suspension with adjustment device
- 13 Belt connection

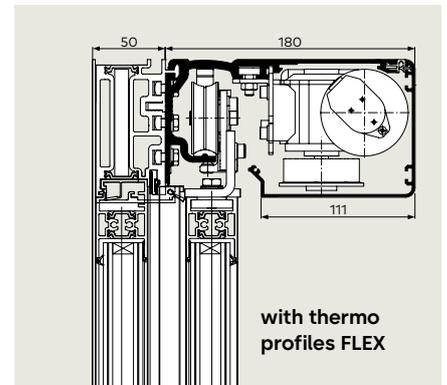
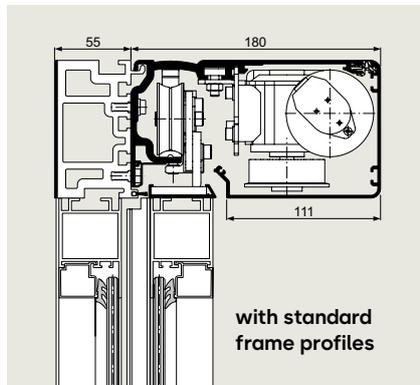
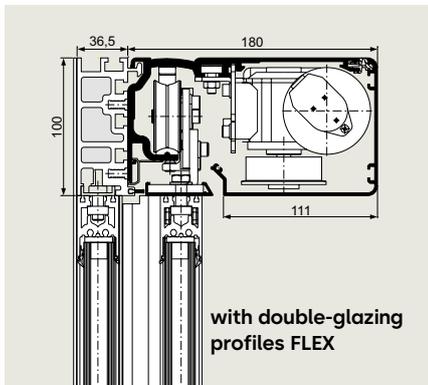
# The drive for individual door design

## Door variants with ES 200 EASY, 100 mm installation height and special "profile" version

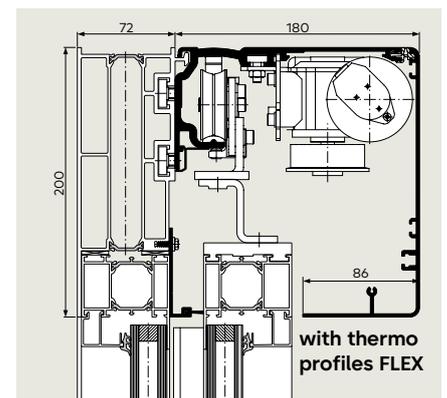
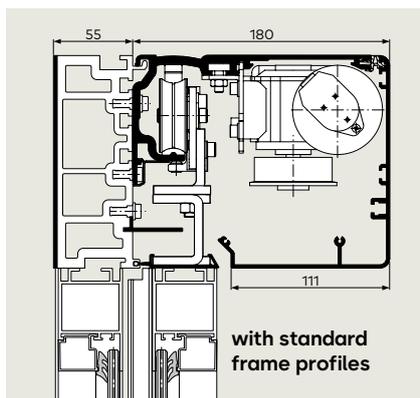
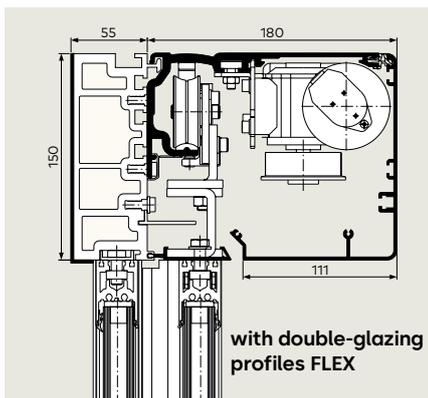
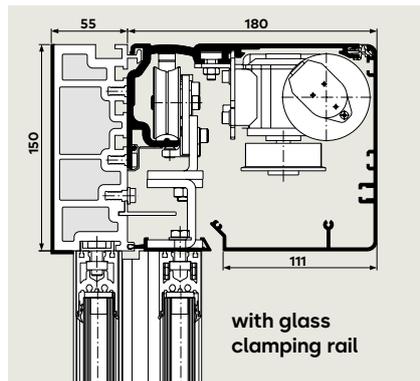
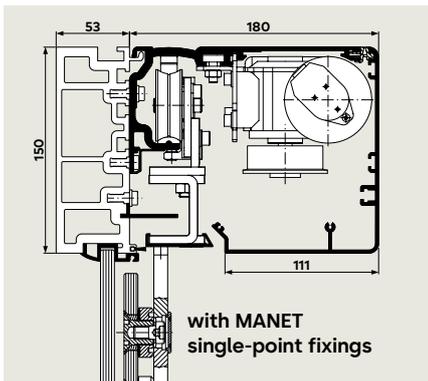


The door variants on this page are shown as corridor installation with LM rail.

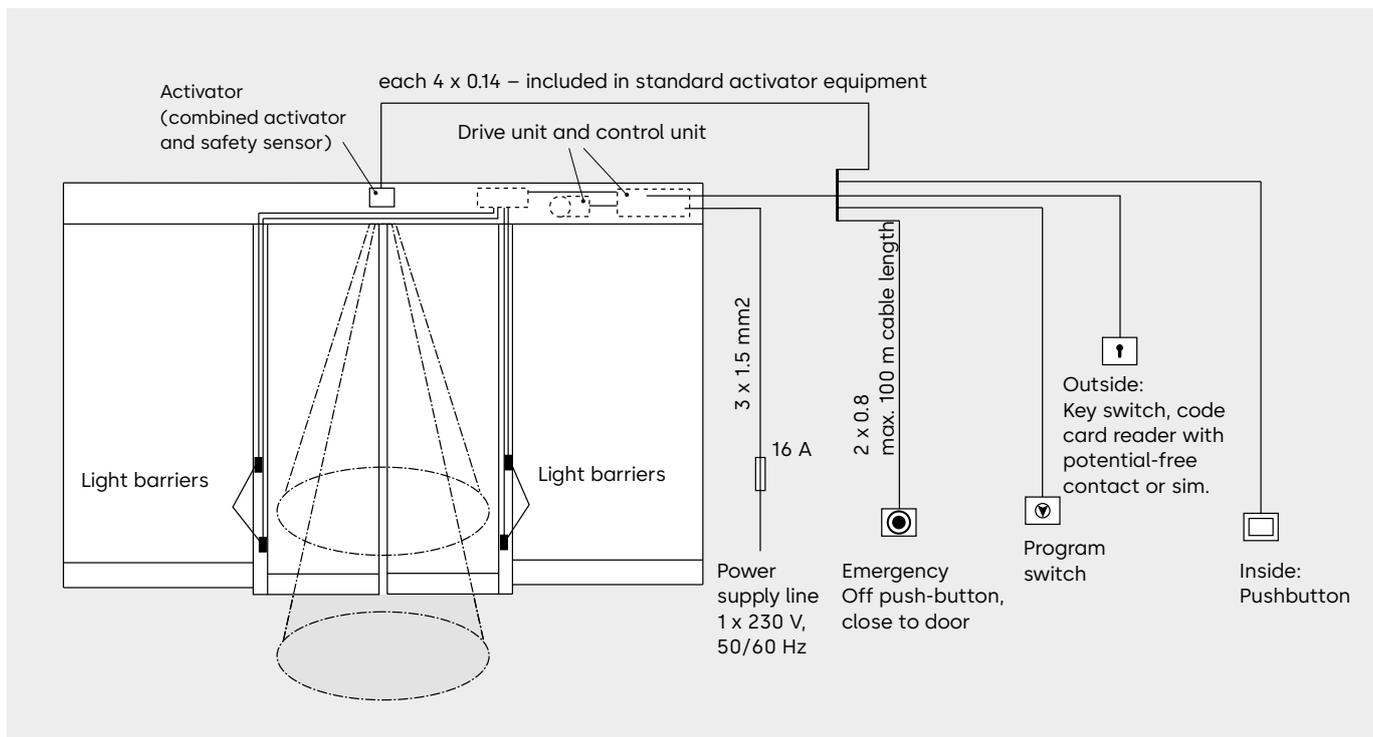
See page 4 for profiles for wall fixing.



## Door variants with ES 200 EASY, 150 mm installation height and special version "heat insulated profiles"



# Connections



## Program switches

A program switch from dormakaba's broad range of accessories allows the automatic door system to meet individual requirements and provides easy handling. The corresponding 3-position program switches are available in various designs and suitable for all kinds of applications. They offer various options, from a mechanical to a full-electronic version,

alternatively also lockable via profile half-cylinder or in a full-electronic way via code.

- Up to 5 different functions:  
Off, Automatic, Exit Only, Partial Open, Permanent Open
- Electronic program switches in System 55 design to meet the highest aesthetical demands

For sliding door operators	Designation	Specification	Installation system	Order No.
	PG-S1	5-position, aluminum, white, flush-mounted version, 80 x 80 x 40 mm	Gira S-Color	19135401150
	PG-S2	5-position, lockable, aluminum, white, flush-mounted version, 80 x 80 x 40 mm	Gira S-Color	19135602150
	EPS-S	Full-electronic program switch in System 55 design, 5-position, lockable via code or additional TL-ST S55 key switch, membrane keypad aluminum-colored, white, flush-mounted version, 80 x 80 mm	System 55	16556901150

## Switches

	Designation	Specification	Installation system	Order No.
	<b>On/Off switch</b>	White, aluminum, flush-mounting, 80 x 80 mm	Gira S-Color	19135403150
	<b>Radar switch</b>	"MAGIC SWITCH", proximity-type radar switch responds to movement, for flush-mounting, 80 x 80 mm		05076831332

## Pushbutton

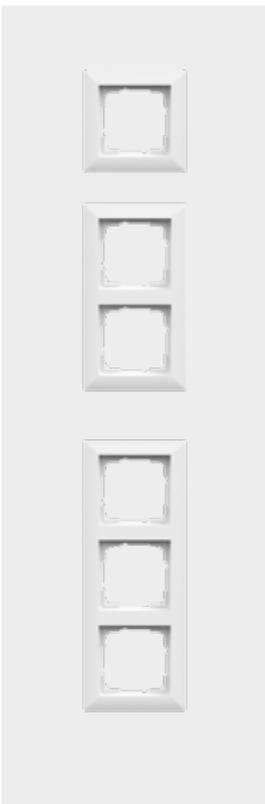
Palm pushbutton	Designation	Specification	Installation system	Order No.
		Single-pole changeover contact, single-type frame, white, flush-mounted version	System 55	19144701170

Key switches	Designation	Specification	Installation system	Order No.
	<b>KT 3-1</b>	1 NO contact with profile half-cylinder, may be replaced for any profile half-cylinder of a master key system, key only retractable in neutral position, aluminum, metal, 75 x 75 x 60 mm		
	<b>KT 3-1 UP</b>	flush-mounted version		05054531332
	<b>KT 3-1 AP</b>	surface-mounted version		05054631332
	<b>KT 8</b>	Lettering "Auf/Zu" (German for "Open/Closed"), 2 NO contacts, with profile half-cylinder, may be replaced for any profile half-cylinder of a master key system, key only retractable in neutral position, aluminum, metal, 75 x 75 x 60 mm		
	<b>KT 8 UP</b>	flush-mounted version		05054831332
	<b>KT 8 AP</b>	surface-mounted version		05054931332
	<b>TL-ST S55</b>	Switch with single-pole changeover contact, for profile half-cylinder by others to DIN 18252, locking cam centre 30 – 32.5 mm, overall length 40.5 – 43.5 mm, locking cam position left (90°), incl. cover for System 55, not suitable for box for surface-mounting, not including profile half-cylinder, <b>not including frame</b>		
	<b>TL-ST S55 W</b>	White	System 55	56330710
	<b>TL-ST S55 S</b>	Silver-colored	System 55	56330701
	<b>TL-ST S55 A</b>	Anthracite	System 55	56330715
	<b>KT 3-2</b>	1 NO contact with profile half-cylinder, may be replaced for any profile half-cylinder of a master key system, key only retractable in neutral position, exchange cover, "Ein/Aus" lettering (German for "On/Off"), aluminum, flush-mounted version: 125 x 100 mm, surface-mounted version: 70 x 90 mm		05054731332

# Emergency pushbuttons

	Designation	Specification	Installation system	Order No.
	<b>NAT</b>	Designed to interrupt the automatic movement of the door, emergency pushbutton (function: Emergency Off) for automatic door operators, manufactured to ZH 1/494 or BGR 232, DIN 18650 and EN 16005, red knob with yellow centre insert, max. load current: 10 A at 230 V AC		
	<b>NAT 1</b>	NO contact: 1, NC contact: 1, white frame, flush-mounted version, 80 x 80 mm	System 55	90400025
	<b>NAT 2</b> without illustration	Function "Emergency Opening" with green knob, NO contact: 1, NC contact: 1, max. load current: 10 A at 230 V AC, white frame, flush-mounted version, 80 x 80 mm	System 55	90400035
	<b>NAT 4</b>	NO contact: 1, NC contact: 1, surface-mounted version, 68 x 68 mm		05027031332
	<b>TL-N S55</b>	Highly-illuminated emergency pushbutton environment with visual locking status indication, optical and acoustic alarm via yellow flashlight and integrated alarm siren, sabotage-proof, behind glass, not including frame NO contact: 1, NC contact: 1, max. load current: 1 A at 24 V DC, flush-mounted version, 80 x 80 mm	System 55	56330500

# pushbuttons and switches

	Designation	Specification	Dimensions in mm (W x H x D)	Installation system	Order No.
	<b>System 55</b>	<b>Cover frame (Programm STA)</b>			
	<b>FR-S55 1</b>	Single-type trim, Standard 55, white	80,7 x 80,7	System 55	56391110
	<b>FR-S55 2</b>	Double-type trim, Standard 55, white	151,8 x 80,7	System 55	56391210
	<b>FR-S55 3</b>	Triple-type trim, Standard 55, white	223,3 x 80,7	System 55	56391310
	<b>FR-E2W 1</b>	Single-type trim, E2 55, white	80,8 x 80,8	System 55	56392110
	<b>FR-E2W 2</b>	Double-type trim, E2 55, white	151,9 x 80,8	System 55	56392210
	<b>FR-E2W 3</b>	Triple-type trim, E2 55, white	223,4 x 80,8	System 55	56392310
	<b>FR-E2S 1</b>	Single-type trim, E2 55, silver	80,8 x 80,8	System 55	56392101
	<b>FR-E2S 2</b>	Double-type trim, E2 55, silver	151,9 x 80,8	System 55	56392201
	<b>FR-E2S 3</b>	Triple-type trim, E2 55, silver	223,4 x 80,8	System 55	56392301
	<b>FR-E2A 1</b>	Single-type trim, E2 55, anthracite	80,8 x 80,8	System 55	56392115
	<b>FR-E2A 2</b>	Double-type trim, E2 55, anthracite	151,9 x 80,8	System 55	56392215
	<b>FR-E2A 3</b>	Triple-type trim, E2 55, anthracite	223,4 x 80,8	System 55	56392315

Please see STA price list for further trims and versions.

## Light barriers

	Designation	Specification	Order No.
	<b>Prosecure light barrier</b>	Designed to safeguard the passage area of automatic sliding doors via presence detection of moving people and objects (not compliant with DIN 18650 and EN 16005). Counter light barrier comprising transmitter and receiver.	86210500

## Active infrared detectors

Safety sensors	Designation	Specification	Colour	Order No.
	<b>Prosecure Opti Scan</b>	The active infrared curtain according EN 16005 ensures optimum protection of the area at the side of the door. It protects people in the danger area of the opening door panel.	black silver colored white	86301100 86302100 86303100
	<b>Prosecure Opti Scan 1</b>	The active infrared curtain according DIN 18650 and EN 16005 ensures optimum protection of the area at the side of the door. It protects people in the danger area of the opening door panel.	black silver colored white	86301101 86302101 86303101
	<b>Combi sensors</b>			
	<b>Prosecure Opti Combi</b>	Quick and easy to install, wide field can be used as a light barrier substitute, LCD display, Precise positioning of the AIR curtain thanks to inclination angle display on a clear scale, direction recognition (DIN 18650 and EN 16005)	black silver colored white	86711400 86712400 86713400
	<b>Prosecure Opti Combi 1</b>	Very flexible field settings, active infrared curtain is self-monitoring, crossing traffic optimization, precise positioning of the AIR curtain thanks to inclination angle display on a clear scale, direction recognition. (DIN 18650 and EN 16005)	black silver colored white	86711401 86712401 86713401

# Motion detectors

Motion detectors	Designation	Specification	Colour	Order No.
	<b>Prosecure Easy Motion Mono</b>	Full-automatic access on pulse activation; adjustable inclination angle, inclined field of view and field size, LED status indicator, not in accordance with EN 16005 Ambient temperature -20 to +60° C	black silver colored white	86001000 86002000 86003000
	<b>Prosecure Easy Motion Stereo</b>	Adjustable inclination angle, inclined field of view and field size, direction recognition, cross-traffic suppression, immunity, LED status indicator, not in accordance with EN 16005 Ambient temperature -20 to +60° C	black silver colored white	86011000 86012000 86013000
	<b>Prosecure Opti Motion Mono</b>	Adjustable inclination angle, inclined field of view and field size, direction recognition, immunity, LED status indicator Ambient temperature -20 to +60° C	black silver colored white	86101000 86102000 86103000
	<b>Prosecure Opti Motion Stereo</b>	Adjustable inclination angle, inclined field of view and field size, direction recognition, cross-traffic suppression, Slow Motion function, immunity, LED status indicator Ambient temperature -20 to +60° C	black silver colored white	86111000 86112000 86113000
Accessories	Designation	Specification		Order No.
	<b>Rain protection cover</b>	For Easy Motion detectors		86031900
	<b>Rain protection cover/ ceiling angle bracket</b>	For Opti Motion detectors		86131900
	<b>Prosecure Remote Control</b>	Remote control for programming Prosecure Opti Motion detectors or products from other brands, for the convenient and exact adjustment of high-mounted sensors, self-explaining menu navigation, LCD display, Ambient temperature -20 to +60° C		86991900

## Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

[www.dormakaba.com/sustainability](http://www.dormakaba.com/sustainability)



## Our offering

### Access Automation Solutions

Entrance Automation  
Entrance Security



### Access Control Solutions

Electronic Access & Data  
Escape and Rescue Systems  
Lodging Systems



### Access Hardware Solutions

Door Closers  
Architectural Hardware  
Mechanical Key Systems



### Services

Technical Support  
Installation and commissioning  
Maintenance and Repair



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