

A detailed black and white photograph of a sliding door's internal mechanism. It shows a large pulley wheel at the top, a drive roller, and a complex track system with various rollers and guides. The components are made of metal and show signs of wear and lubrication.

ES 200 EASY PLUS

Sliding door in compliance with DIN 18650 / EN 16005
with self-monitoring secondary closing edge protection

MORE FLEXIBILITY AND EFFICIENCY

The ES 200 EASYplus is the perfect solution ensuring that you are optimally prepared for any application and service requirement.

The ES 200 EASYplus comes preinstalled with the EN 16005 / DIN 18650 module for self-monitored protection of the secondary closing edges.

This allows you to dispense with costly safety screens where appropriate and connect additional sensors. New electronic system components also significantly extend its capacity range. The ES 200 EASYplus is tested and approved for door systems of up to 2 x 120 kg / 1 x 200 kg.

Much like the familiar ES 200 EASY, all basic parameters are easy to adjust using the integrated pushbuttons and display. No separate programming tools are necessary.

As the ES 200 Easy, ES 200 and ES 200 2D versions, the ES 200 EASYplus is equipped with DORMA PowerDrive technology and has identical mechanical components. With its extra powerful motor and dynamic driving phase control, the integrated PowerDrive system ensures safe and reliable operation.

Invest in the future and rely on decades of experience in the automatics business that sets DORMA apart as a market leader in drive and control systems.

The ES 200 EASYplus complies with all relevant European and German standards and the safety requirements of EN 16005 and DIN 18650.

The ES 200 EASYplus is available as a component kit, as a complete operator, or integrated in all DORMA sliding door systems.

DORMA furthermore provides program switches, activators and door profiles as ideal complementary components.



Features and benefits

- Preinstalled with EN 16005 / DIN 18650 module for self-monitored protection of secondary closing edges
- With DORMA PowerDrive: Dynamic driving phase control for particularly powerful operation with emergency power backup
- Industrially prefabricated and tested MiniDriveUnit with all necessary electrical and electronic components
- Integrated DCW® (DORMA connect and work) bus system for easy integration of DORMA DCW® sensors
- Easy commissioning via integrated display
- May be combined with all standard door profiles
- Fully comprehensive range of accessories
- Reliable investment due to compliance with all relevant European and German standards.

EN 16005

Our commitment to a sustainable future

We are committed to sustainable development as one of our business maxims. DORMA's aim is to ensure energy-saving and resource-conserving production, a high recycling ratio and the

longevity of our quality products. Environmental Product Declarations (EPD), based on a holistic life cycle assessment, are used for the calculation of the sustainability of buildings.

EPD certificates are on www.dorma.com available.



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

*Other dimensions on request.

Technische gegevens

Height	100 und 150 mm
Depth	180 mm
Opening and closing force max. 150 N	●
Opening speed (incremental setting)	10 – 55 cm/s
Closing speed (incremental setting)	10 – 50 cm/s
Hold-open time	0 – 60 s
Mains voltage, frequency	230 V, 50/60 Hz
Power consumption	250 W
International protection	IP 20
Admissible temperature	-20 to +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 EASYplus
Microprocessor controller	●
Functional programs	<ul style="list-style-type: none"> – Off ● – Automatic ● – Permanent open ● – Partial open ● – Exit only ● – Night-bank switch ●
Connection for	<ul style="list-style-type: none"> – locking device ● – light barriers ●
Setting of basic parameters via integrated display and push-buttons	●
24 V output for external consumption	●
Read-out error store with error codes	●
DCW® bus interface (Protokoll DORMA Connect and Work)	●

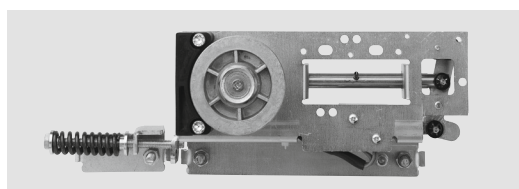
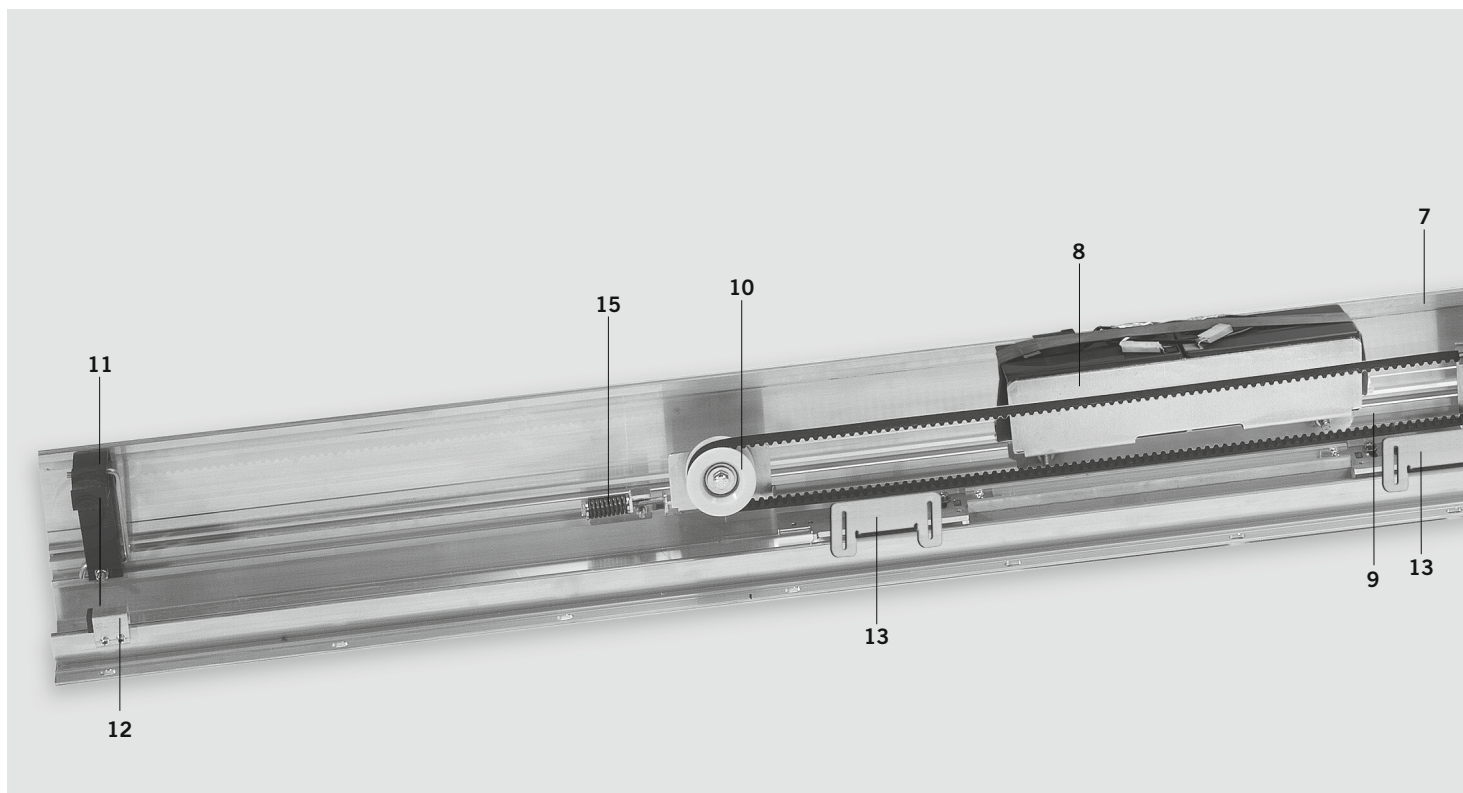
Function module EN 16005 and DIN 18650 – included

The function module enables the tested monitoring of the secondary closing edges in order to comply with the standards.	●
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Additional equipment

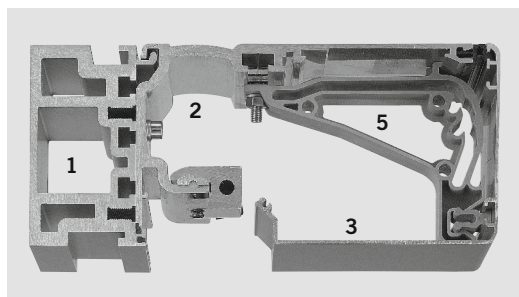
Electro-mechanical locking (bistable)	○
Manual unlocking for electro-mechanical locking	○
Light barriers	○
Battery pack (emergency opening, emergency closing)	○
Emergency power module USV	○

● standard ○ optional

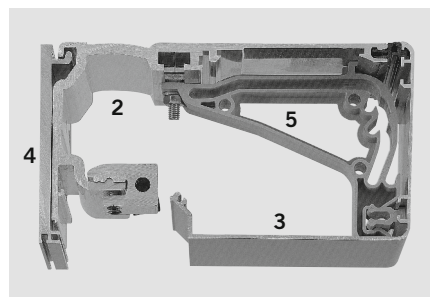


Pulley with integrated locking device and belt tensioning device

Profiles for corridor installation, 100 mm

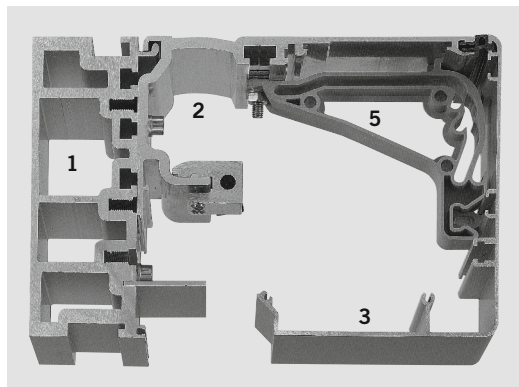


Profiles for wall fixing, 100 mm

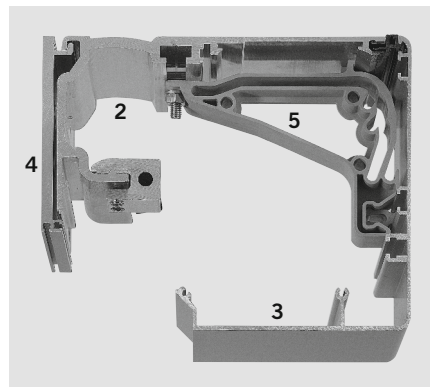


Profile for 100 mm and 150 mm height, for corridor or wall fixing guarantees adaptation for all possible applications. The mechanical basic system, with a low number of components, is the same for both heights.

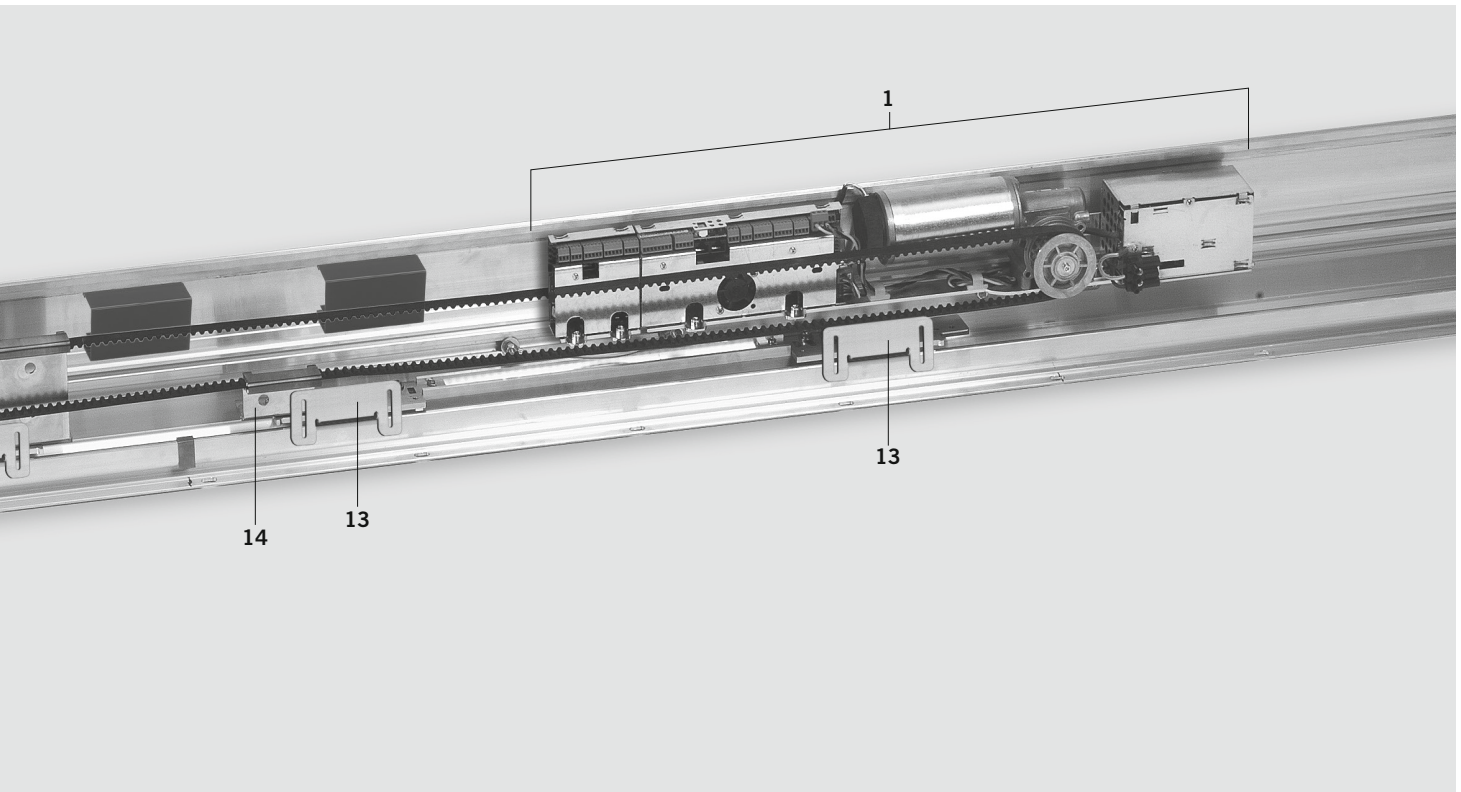
Profiles for corridor installation, 150 mm



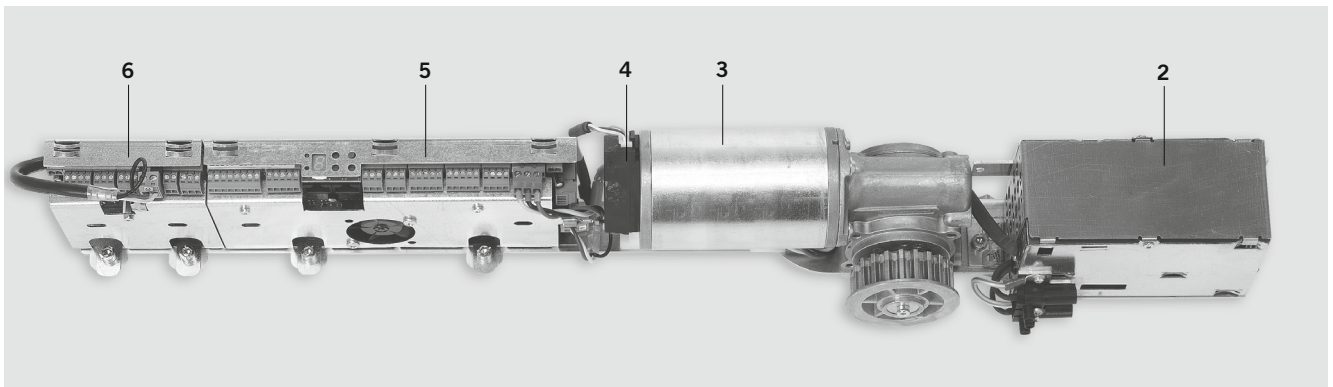
Profiles for wall fixing, 150 mm



- 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 (MDU)



The heart of the ES 200 EASYplus

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.

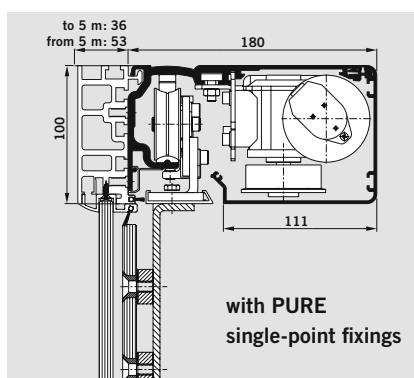
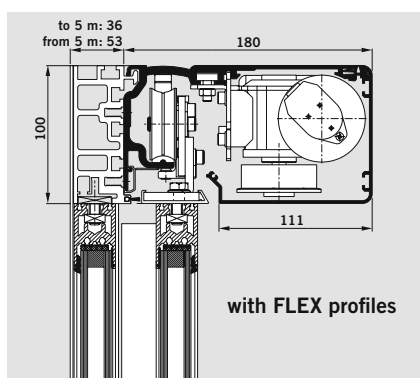
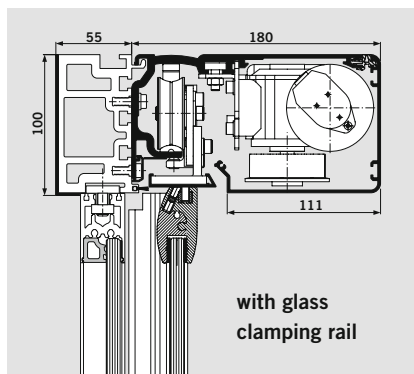
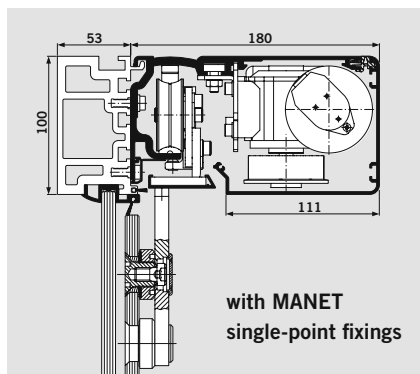
The MiniDriveUnit of the ES 200 EASYplus is equipped with the DIN 18650 / EN 16005 module as standard.

Components

- | | |
|--------------------------------------|--|
| 1 MiniDriveUnit | 7 Run and installation profile |
| 2 Transformer | 8 Battery pack (optional) |
| 3 Motor | 9 Carriage |
| 4 Decoder | 10 Deflection roller |
| 5 Basic module (BM) | 11 Service cover holder |
| 6 EN 16005- / DIN 18650-Modul | 12 End stopper |
| | 13 Door suspension with adjustment device |
| | 14 Belt connection |
| | 15 Riemenspannvorrichtung |

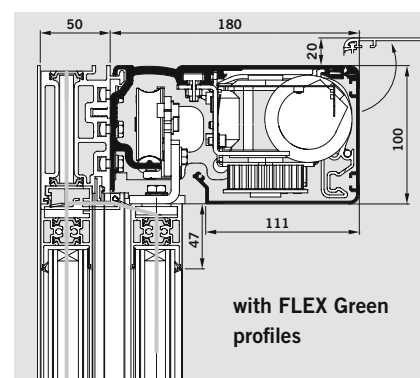
THE DRIVE FOR INDIVIDUAL DOOR DESIGN

Door variants with ES 200 EASYplus, 100 mm installation height

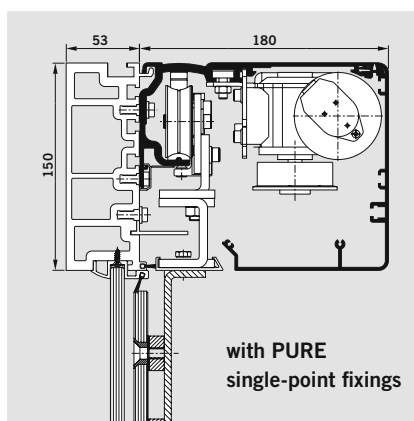
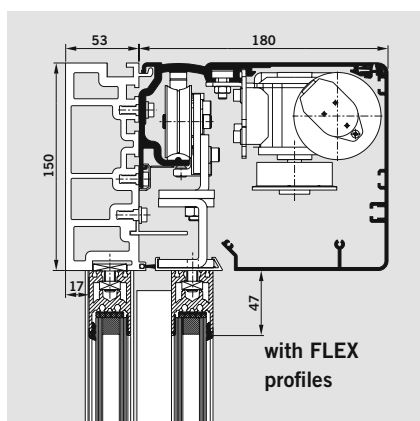
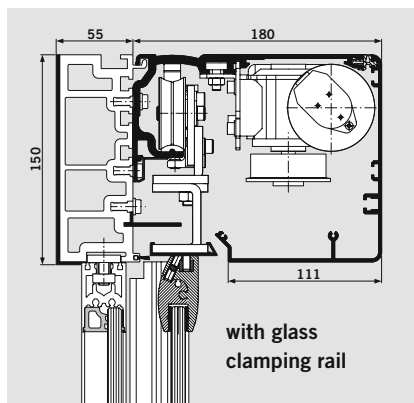
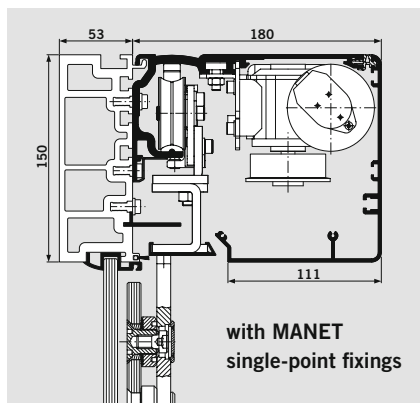


DORMA PowerDrive System for particularly punchy performance

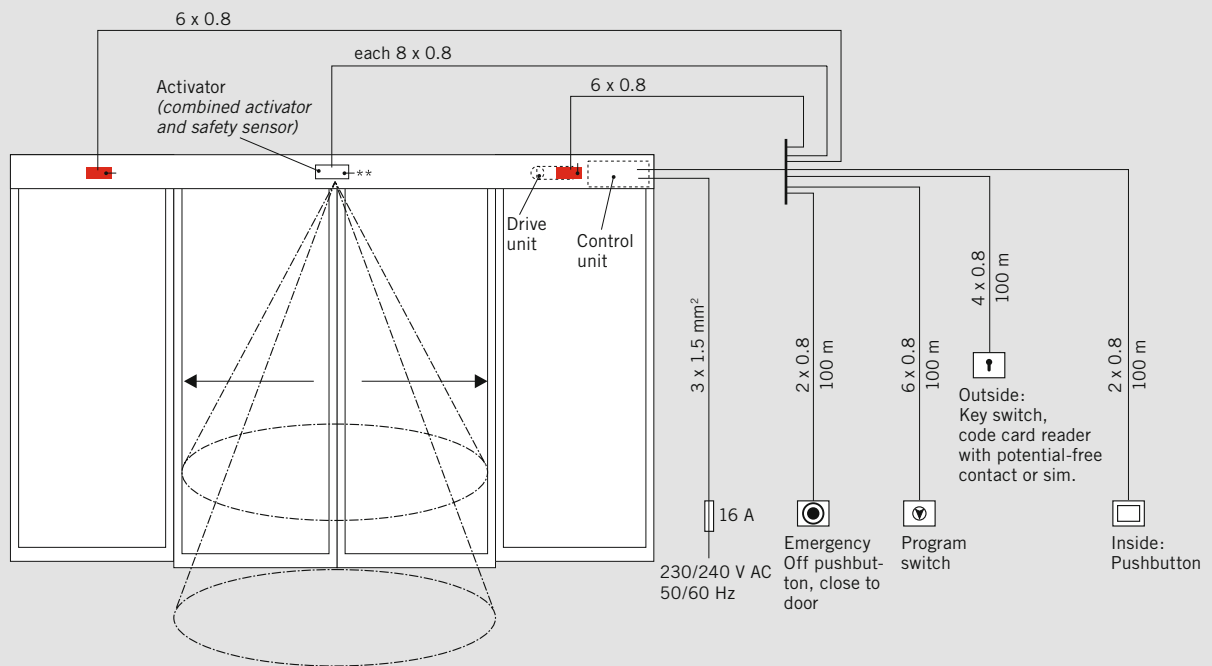
The door variants on this page
are shown as corridor installation with
aluminum girder (LM).



Door variants with ES 200 EASYplus, 150 mm installation height



CONNECTIONS



* Safety sensors to monitor the secondary closing edges in accordance with EN 16005 and DIN 18650

** Safety sensors to monitor the main closing edge in accordance with EN 16005 and DIN 18650



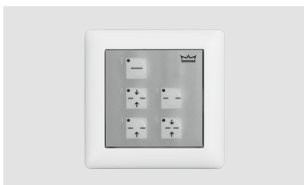
PROGRAM SWITCHES

A program switch from DORMA's broad range of accessories allows the automatic door system to meet individual requirements and provides easy handling.


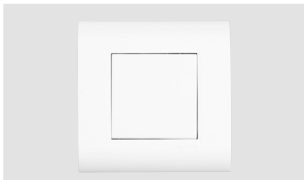
The corresponding 3-position program switches are available in various designs and suitable for all kinds of applications.

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 aesthetic 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

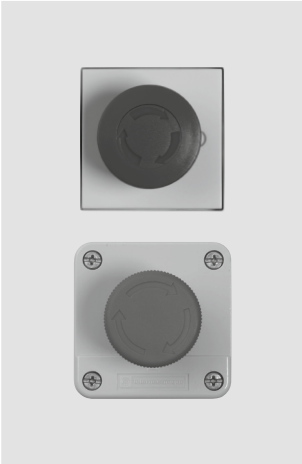

	Designation	Specification	Installation system	Order No.
	On/Off switch	White, aluminum, flush-mounting, 80 x 80 mm	Gira S-Color	19135403150
	Radar switch	"MAGIC SWITCH", proximity-type radar switch responds to movement, for flush-mounting, 80 x 80 mm		05076831332

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.
	KT 3-1	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		
	KT 3-1 UP	flush-mounted version		05054531332
	KT 3-1 AP	surface-mounted version		05054631332
	KT 8	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		
	KT 8 UP	flush-mounted version		05054831332
	KT 8 AP	surface-mounted version		05054931332
	TL-ST S55	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, not including frame		
	TL-ST S55 W	White	System 55	56330710
	TL-ST S55 S	Silver-colored	System 55	56330701
	TL-ST S55 A	Anthracite	System 55	56330715
	KT 3-2	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.
	NAT	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		
	NAT 1	NO contact: 1, NC contact: 1, white frame, flush-mounted version, 80 x 80 mm	System 55	90400025
	NAT 2 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
	NAT 4	NO contact: 1, NC contact: 1, surface-mounted version, 68 x 68 mm		05027031332
	TL-N S55	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

LIGHT BARRIERS

	Designation	Specification	Order No.
	Prosecure light barrier	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 / Combi sensors	Designation	Specification	Colour	Order No.
	Prosecure Opti Scan	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
	Prosecure Opti Scan 1	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
	Prosecure Opti Combi	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
	Prosecure Opti Combi 1	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.
	Prosecure Easy Motion Mono	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
	Prosecure Easy Motion Stereo	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
	Prosecure Opti Motion Mono	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
	Prosecure Opti Motion Stereo	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.
	Rain protection cover	For Easy Motion detectors		86031900
	Rain protection cover/ ceiling angle bracket	For Opti Motion detectors		86131900
	Prosecure Remote Control	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



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