



ES 200 T *Easy* ES 200 T ES 200 T-2D

Telescopic Sliding door operator

Large passage capacity with a small but powerful operator.

Outstanding solutions for tight spaces.

ES 200 T automatic telescopic sliding door operators create a large clear passage width despite a relaively narrow door set. But the reasons for their extensive applicability do not stop there. In the 2D version, they come with a redundant drive system, auxiliary safety control and special radar motion detector. They are thus supplied TÜV typeapproved as "automatic sliding doors without breakout, approved for use in emergency exits and escape routes" for opening widths up to 4000 mm.

The modular system

The modular design of the ES 200 T provides an ideal basis for the implementation of new ideas and individual concepts in the design and construction of sliding door systems.

The identical mechanical components can be used in all three versions of the operator (ES 200 *Easy*, ES 200 T and ES 200 T-2D).

DORMA has also opened up a new dimension with its control system. Now there is no longer any need to replace components when you want to expand the functionality of your system. In future, "docking" will be the order of the day. The modular control system comprises of the basic control module (BM) and the function module (FM). Consequently, upgrading in accordance with individual customer requirements can be carried out without problem. Particularly impressive is the prefabricated MiniDriveUnit, industrially tested and equipped with all the necessary electrical and electronic components.

Integrated power

With its extra-powerful motor and a dynamic acceleration/ deceleration (operating curve) control capability, the integrated *PowerDrive* system ensures safe and reliable operation.

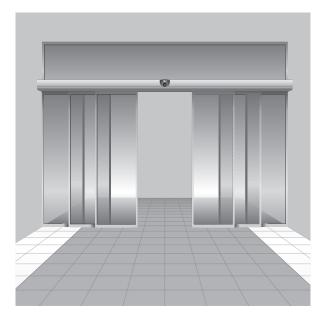
And it can readily cope with sliding door weights of up to 4 x 75 kg per door panel.

Exceptional cost-efficiency
With the ES 200 T, DORMA
offers a drive system of
modular design capable of
covering every application
on the basis of just a few
components. The system
offers easy assembly and
installation, reduced storage
and stocking costs, and
simple maintenance for
enhanced operational cost
efficiency.

A system for the future

With this system you are investing in the future. You also have the security derived from our decades of experience in the automatics business – a history that sets DORMA apart as the market leader in drive and control systems for doors. The ES 200 T corresponds to all the latest European and German standards and safety regulations.

The required safety devices according to DIN 18650 (Germany) result from the respective risk assessment.



Features and advantages

- Modular, flexible system
- With DORMA *PowerDrive*:
 Dynamically controlled acceleration and deceleration curves for particularly powerful operation and with emergency power backup in the form of a rechargeable battery pack
- Industrially prefabricated and tested *MiniDriveUnit*
- Modular control system upgradeable with additional functional modules
- Integrated DCW (DORMA Connect and Work) bus system for easy integration of DORMA DCW sensors and actuators

- Can be combined with all customary door profiles
- Fully comprehensive range of accessories
- Reliable investment due to compliance with all relevant European and German standards



Door parameters	ES 200 T <i>Easy</i>	ES 200 T	ES 200 T-2D
Application in emergency exits and escape routes			1 1 ≈
2-panel sliding door - Clear passage width LW - Door panel weight, max.	800 – 2400 mm	800 – 2400 mm	1000 – 2400 mm
	2 x 50 kg	2 x 75 kg	2 x 75 kg
4-panel sliding door - Clear passage width LW - Door panel weight, max.	1400 – 4000 mm	1400 – 4000 mm	1400 – 4000 mm
	4 x 43 kg	4 x 75 kg	4 x 65 kg

Technical data	
Height	100 and 150 mm
Overall depth	252 mm
Opening and closing force, max. 150 N	•
Opening speed (incremental setting)	10 - 70 cm/s
Closing speed (incremental setting)	10 - 50 cm/s
Hold-open time	0 - 180 sec.
Mains voltage, frequency	230 V, 50/60 Hz
Power supply	250 W
Class of protection	IP 20
Compliant with EU low-voltage directives	•
Manufactured to ISO 9001:2000	•

Modular design	•
Microprocessor-controlled function programs Off Automatic Permanent opening Partial opening Exit only Night-bank control	•
Connections for – electro-mechanical locking – light barriers	•
Adjustment of all basic parameters via integrated display and pushbuttons	•
PDA Organizer parameter setting	•
24 V output for external loads	•
Read-out error memory with error codes	•
DCW bus interface	•
Rechargeable battery pack for emergency operation	•

Function module (FM) – optional extra		
Pharmacy control	0	
Door status control (triple-mode)	0	
Main and secondary closing edge protection		
Emergency closing function		
Bell contact		
Airlock control		
Synchronising mode	0	

DIN 18650 function module – optional ES 200 T / T-2D

The DIN 18650 function module* enables the tested monitoring of the secondary closing edges in order to comply with the German standard DIN 18650.

0

Additional equipment	
Electro-mechanical locking (bistabil)	0
Manual release of electro-mechanical locking	0
Light barriers	
Backup battery pack (emergency opening, emergency closing) (ES 200 T-2D standard)	0
Module for coupling to EIB or LON building control systems*	0

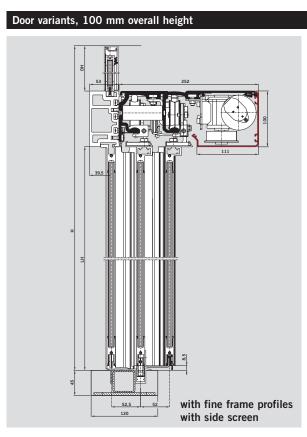
 $\bigcirc \ optional$

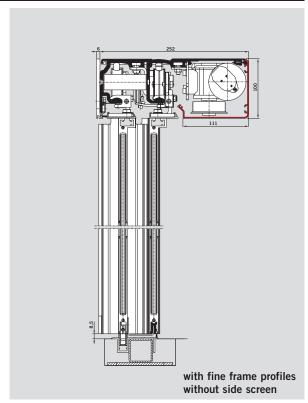
standard

^{*} Please ask your Sales Consultant for series start date.

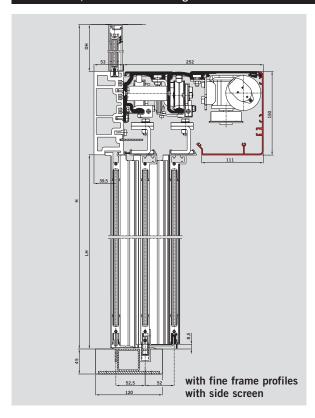
ES 200 T *Easy*, ES 200 T, ES 200 T-2D — The performance operators for generous passage widths

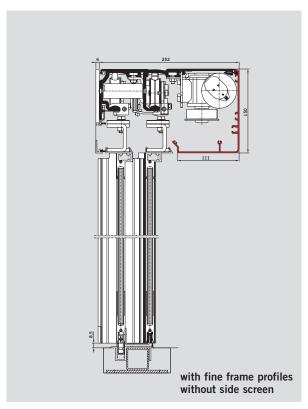
DORMA PowerDrive System for particularly punchy performance



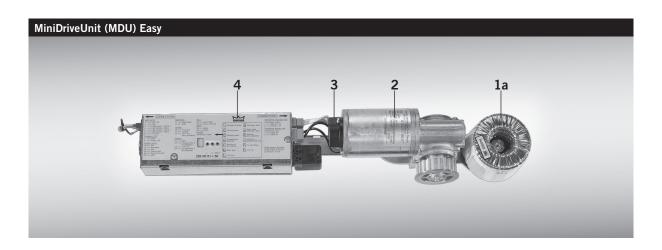


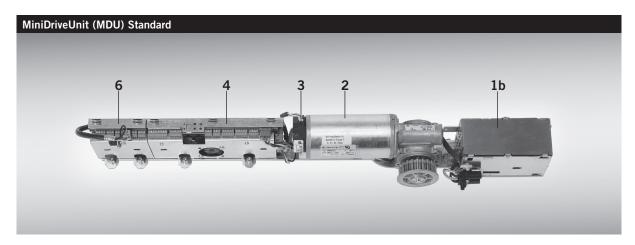
Door variants, 150 mm overall height

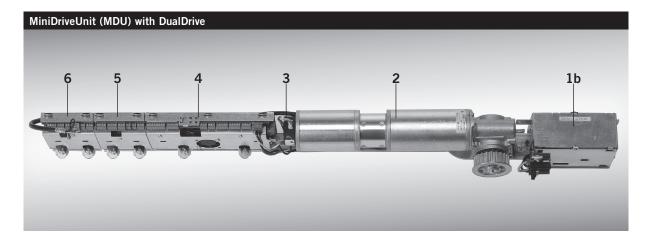










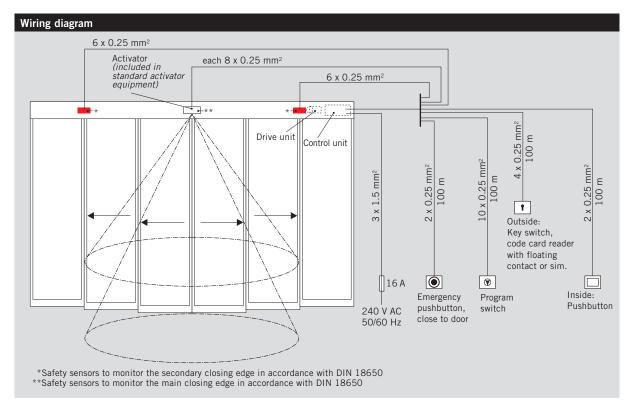


At the heart of the ES 200 T operator is a pre-assembled *MiniDriveUnit* (MDU), which comes in various versions: *Easy*/Standard/2D. It has been industrially tested with all the necessary electrical components and, as a handy single unit, greatly facilitates the installation and maintenance of operator assemblies.

Components

MiniDriveUnit with DualDrive

- 1a Transformer
- 1b Power supply unit
- 2 Motor
- 3 Decoder
- 4 Basic control module (BM) Easy or Standard
- 5 *DualDrive*-Modul (2D unit)
- 6 Function module (FM)



Program switch

When combining the system with a program switch out of the DORMA accessory range, the automatic door system even meets individual requirements and offers easy handling.

These program switches are available in various designs have been conceived for all kinds of demands.

Furthermore they offer various options, from a mechanical to a full-electronic version alternatively also lockable via Euro profile half-cylinder or in a fullelectronic way via code.

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

Program switches
PG-S1

Program switch	es for sliding door operators		
Designation	Specification	Installation system	Order No.
PG-S1	5-position, aluminium, white, UP, 80 x 80 x 40 mm	Gira S-Color	19135401150
PG-S2	5-position, lockable, aluminium, white flush-mounting, $80 \times 80 \times 40$ mm		19135602150
PG-FST2*	5-position, lockable via Euro profile half-cylinder, also suitable for FST syst aluminium, white, for flush-mounting, 105 x 80 x 65 mm Box for surface-mounting: 19142201170	·	19135602150
EPS-S	Full-electronic program switch in System 55 design, 5-position, lockable via code or additional key switch TL-ST S55, membrane keypad, aluminium-coloured, white, flush-mounting, 80 x 80 mm	System 55	16556901150
For header installation** PS-FST3	5-position, lockable, also suitable for FST systems		25006014150

^{*} Illustration see page 7

^{**} no illustration



Program switches for sliding door operators in emergency exits and escape routes (FST)

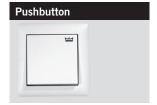
Program switch	es
II 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
H-1-H & 6 1-1-H	
DORMA -1-	DO FOT1
	PG-FST1
	
, o	PG-FST2
·- · ==	
	EPS-FST

Program switches for sliding door operators in emergency exits and escape routes (FST)				
Designation	Specification	Installation system	Order No.	
PG-FST1	5-position, lockable, aluminium, white, flush-mounting, 80 x 80 mm	Gira S-Color	19135603150	
PG-FST2	5-position, lockable via Euro profile half-cylinder, white, aluminium, flush-mounting, 105 x 80 x 65 mm, Box for surface-mounting: 191422011 (see page 11)	Deutsche Solenoid 70	19142001170	
EPS-FST	Full-electronic program switch in System 55 design, 5-position, lockable code or additional key switch TL-ST S5 membrane keypad, white, aluminium-co flush-mounting, 80 x 80 mm	5,	16556801150	
For header installation* PS-FST3	5-position, lockable		25006014150	

^{*} no illustration

Pushbuttons

Key switch



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Designation	Specification	Installation system	Order No.
Pushbutton	Single-pole changeover contact, standard frame, white, flush-mounting	System 55	19144701170

Key switch

Key switch	KT 3-1 AP/UP
ZU AUF	KT 8 AP/UP

itey switch		
Designation	Specification	Order No.
KT 3-1	1 NO contact, with Euro profile half-cylinder (can be rep by any half-cylinder of a master-key system), you can on the key when it is in zero position, aluminium, metal, 75	ly withdraw
KT 3-1 UP	flush-mounting	05054531332
KT 3-1 AP	surface-mounting	05054631332
KT 8	Lettering "Auf, Zu" (German for "Open/Closed"), 2 NO contacts, with Euro profile half-cylinder (can be replaced by any master-key system half-cylinder), key only retractable in neutral position, aluminium, metal, 75 x 75 x 60 mm	
KT 8 UP	flush-mounting	05054831332
KT 8 AP	surface-mounting	05054931332

Kev switch TL-ST kev switch out of STA range

TL-ST S55

Ney SWITCH IL-ST Key SWITCH OUT OF STA range			
Designation	Specification	Installation system	Order No.
TL-ST S55	Switch with single-pole changeove Euro profile half-cylinder by others cam centre 30 – 32.5 mm, overall Locking cam position left (90°), in not suitable for box for surface-mo Euro profile half-cylinder, not inclu	s to DIN 18252, locking I length 40.5 – 43,5 mm, I length 40.5 – 43,5 mm, I length 40.5 – 43,5 mm, I length 55, I length 60,5 locking	
TL-ST S55 W	white	System 55	56330710
TL-ST S55 S	silver	System 55	56330701
TL-ST S55 A	anthracite	System 55	56330715

Switches

Switches



Designation	Specification	Installation system	Order No.
On / Off switch	white, aluminium, 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

Key switches

Key switches	
DORMA	
& & & & & & & & & & & & & & & & & & &	
KT 3-2	

Designation	Specification	Order No.
KT 3-2	1 NO contact with Euro profile half-cylinder, can be replace master key system half-cylinder, key only retractable in neu interchangeable cover, lettering "Ein, Aus" (German for "O aluminium, for flush-mounting: 125 x 100 mm, for surface-mounting: 70 x 90 mm	itral position,
KT 3-2.1*	2 changeover contacts, with Euro profile half-cylinder, replaceable by any master-key system half-cylinder, key only retractable in neutral position, lettering "Ein, Aus" (German for "On/Off"), aluminium, for flush-mounting: 125 x 100 mm, for surface mounting: 70 x 90 mm 0503263133	

^{*}no illustration

Emergency pushbutton

NAT 1 TL-N S55 NAT 4

Designation	Specification
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Installation system Order No.

To interrupt the automatic movement of the door. Emergency pushbutton (Function: Emergency Off) for automatic door operators. Manufactured according to ZH 1/494 (German Guidelines for power-operated windows, doors and gates) and BGR 232 (German Employer's Liability Insurance Association Rule) as well as DIN 18650 (German Industrial Standard). Red knob with yellow centre insert. Maximum load current: max. 10 A at 230 V AC.

NAT 1	NO contact: 1, NC contact: 1, whi flush-mounting, 80 x 80 mm	te frame, System 55	90400025
	Hush-Hounting, 60 x 60 Hill	System 55	90400023
NAT 2*	Function: "Emergency Open" with NO contact: 1, NC contact: 1, Max current: 10 A at 230 V AC, white f	rame,	
	flush-mounting, 80 x 80 mm	System 55	90400035

0 ,	inated emergency pushbutton environr g status indication, optical and acoust		
via yellow fla	ashlight and integrated alarm siren, sa	botage-proof,	
behind glass	, not including frame		
TL-N S55	NO contact: 1, NC contact: 1, Maximum load current: 1 A at 24 V flush-mounting, 80 x 80 mm	DC, System 55	56330500
NAT 3*	Behind glass, NO contact: 1, NC co for flush-mounting, 120 x 87 mm	intact: 1	90400023
NAT 4	NO contact: 1, NC contact: 1, for surface-mounting, 68 x 68 mm		05027031332

^{*} no illustration



Infrared detectors

These detectors are designed to safeguard automatic doors by detecting moving people or objects

Light barriers



Designation	Specification	Order No.
	To safeguard the passage area of sliding doors by detecting the presence of people and objects	
LB 03	Counter light barrier comprising transmitter and receiver	05102331332

Active infrared detector



Designation	Specification	Order No.
	Active infrared system to safeguard the passage area and the secondary closing edges of sliding doors. Designed to detect the presence of people and objects	
AIR 30/31	Including background evaluation, black	16503601170
AIR 30-H/31	Including background suppression, black	16503701170
WH 30	Rain protection cover, black	16500901170

Crystal Presence



Crystal Presence				
Designation	Specification	Order No.		
	 For improved protection of passage areas and secondary closing edges of sliding doors Designed to detect the presence of people and object 	S		
Crystal Presence	Presence detection curtain for improved protection thanks to exactly adjustable detection range, black	16504301170		
System for ceiling mounting	for Crystal Presence, white	05094731332		

Combined sensors



Designation	Specification	Order No.
This system of an integra This combine	open) and protect automatic sliding doors is designed to substitute light barriers with the aid ted active infrared function. ed sensor opens sliding doors via radar and protects discondary closing edges via an active infrared system.	
Activ8.2	Direction recognition, black	16518301170
Activ8.3-N	Direction recognition, self-monitoring, suitable for application on FST doors (fire and smoke doors), black	16555001170
Jupiter	Direction recognition with cross-traffic suppression, black	16563201170
Jupiter SE	Direction recognition with cross-traffic suppression, self-monitoring, suitable for application on FST doors (fire and smoke doors), black	16563301170

Radar motion detectors

Not-Befehlseinrichtung	Designation	Specification	Colour	Order No.		
Eagle	what kind of The DORMA for the differ level of user	endliness of automatic doors depends a lot on f activator is used and its construction. sensor range combines the flexibility that is require rent fields of application with reliability and the high friendliness. Furthermore it effectively detects movi spects in order to activate (open) automatic doors.	est			
	Standard mo	otion detectors				
DORMA	Eagle 2	Standard	black	16503201170		
			white	16503203170		
Merkur			silver	16507502170		
	Merkur M	Standard	black	16537501170		
Books	Direction red	tors with direction recognition cognition for perfectly controlled opening and closing		1650012115		
	Eagle 1	Direction recognition	black	16503101170		
System for ceiling			white	16503103170		
installation Eagle			silver	16503102170		
	Merkur	Cross-traffic suppression with direction recognition	black	16532201170		
Rain protection cover Eagle	Self-monitoring motion detector (FST application – for door with application in emergency exits and escape routes) Radar motion detector for doors in emergency exits and escape routes with self-monitoring function and electronics in redundant design					
		Self-monitoring, direction recognition	black	1655161170		
			white	1655163170		
			silver	1655162170		
	Merkur SE/R	Self-monitoring, direction recognition with				
Special bracket		cross traffic suppression	black	16532201170		
(Eagle)		for Fords data store				
	Accessories	for Eagle detectors System for ceiling mounting	white	16502901170		
•		Rain protection cover		: 05090731332		
		Infrared remote control to adjust all	transparem	. 03030731332		
		radar motion detectors	black	16503001170		
		Special bracket, for projections of up to 500 mm	black	19138903150		
System for ceiling						
installation (Merkur)	Accessories	for Merkur-type detectors System for ceiling installation (Merkur)	white	05102231332		
		ojete for sering metanation (mental)	.,,,,,,,	00102201002		



DORMA AutoSwitch transponder



Designation	Specification	Order No.
The "active" transpor control unit as soon a approx. 2.5 m. This s operation of the syste perfect access contro		
DORMA AutoSwitch	Receiver/control unit, surface-mounted version, white	16571101175
	Programming-(Transponder-) key, yellow	16571201175
	Standard-(Transponder-) key, blue	16571301175

Frames and boxes for surface-mounted pushbuttons and switches



Designation	Specification	All dimensions in mm (W x H x D)	Installation system	Order No.
System 55 FR-S55 1 FR-S55 2 FR-S55 3	Cover frame (STA range) Single-type frame, Standard 55, white Double-type frame, Standard 55, white Triple-type frame, Standard 55, white	151.8 x 80.7	System 55	56391110 56391210 56391310
FR-E2W 1	Single-type frame, E2 55, white	80.8 x 80.8	System 55	56392110
FR-E2W 2	Double-type frame, E2 55, white	151.9 x 80.8		56392210
FR-E2W 3	Triple-type frame, E2 55, white	223.4 x 80.8		56392310
FR-E2S 1	Single-type frame, E2 55, silver	80.8 x 80.8	System 55	56392101
FR-E2S 2	Double-type frame, E2 55, silver	151.9 x 80.8		56392201
FR-E2S 3	Triple-type frame, E2 55, silver	223.4 x 80.8		56392301
FR-E2A 1	Single-type frame, E2 55, anthracite	80.8 x 80.8	System 55	56392115
FR-E2A 2	Double-type frame, E2 55, anthracite	151.9 x 80.8		56392215
FR-E2A 3	Triple-type frame, E2 55, anthracite	223.4 x 80.8		56392315

Please see STA price list for further frames and versions.

System 55 Boxes for surface-mounting for Standard 55 frames							
ST-AP 55-1* Single-type frame.	Boxes for surface-mounting for Standard 55 frames Single-type frame,						
pure white, RAL 9010 81.0 x 52.5 x 44.5 System ST-AP 55-2* Double-type frame,	m 55 515853332						
pure white, RAL 9010 152.0 x 81.0 x 44.5 System ST-AP 55-3* Triple-type frame.	m 55 515863332						
pure white RAL 9010 224.0 x 81.0 x 44.5 System	m 55 515873332						
Box for For mechanical program switch PG-FST2 with Euro profile half-cylinder Deuts Single-type frame, white 100 x 80 x 65 Soleno							

^{*} no illustration

Door Control



Automatic



Glass fittings and Accessories



Security Time and Access (STA)



Movable Walls

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052