



BST/FBST COMFORT LINE

Curved Sliding Doors

Attractive visual appearance, various fields of application.

DORMA BST COMFORT LINE automatic curved sliding doors are the perfect answer to providing entrance areas with a customised and aesthetically pleasing appearance.

The systems can be delivered in half-circle (180°) and full-circle (360°) design. They are available in 6 wellestablished diameters. The façade connection is realised with a flexible connection profile.

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The door systems are manufactured as concave and convex versions. Tailored to your architectural concept, DORMA BST COMFORT LINE automatic curved sliding doors can be designed to either contrast or harmonise with the building façade, providing an all-glass appearance complemented and augmented by the slender profiles of their fine-framing.

They can also be combined with other automatic doors.

Reliable and safe

As in the case of all components and systems from the DORMA portfolio, DORMA BST COMFORT LINE curved sliding doors excel in reliability and user convenience. The self-learning microprocessor control unit keeps the system running smoothly and reliably. Combining with the integrated presence sensor, it also ensures maximum operational safety.

The doors are designed to order, manufactured to fit and supplied ready for installation. If required, DORMA will also perform the installation and commissioning work. If desired, the doors can be equipped with safety components (sensors) in accordance with DIN 18650.

For emergency exits and escape routes

Under the designation FBST COMFORT LINE, these curved sliding doors can also be supplied with a redundant operator, an additional control unit for safety purposes and a special radar motion detector.

The FBST is typed-approved by the German TÜV as an "automatic sliding door without breakout for use in escape routes".

If desired, the doors can be equipped with safety components (sensors) in accordance with DIN 18650.





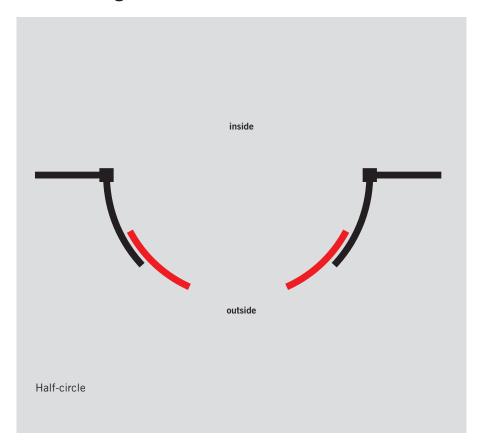


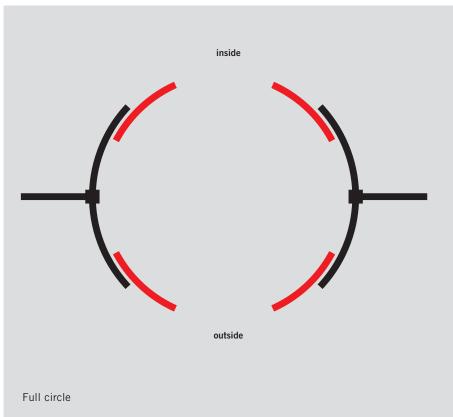
DORMA FBST with approval for application in emergency exits and escape routes according to DIN 18650





Basic configurations





Data and features	BST COMFORT LINE	FBST COMFORT LINE		
Clear passage width LW 2)	1235, 1519, 1660,	1660, 1802		
	1802, 1943, 2085	1943, 2085		
Escape route		1660, 1802		
		1943, 2085		
Installation width B, min. ²⁾	2100) mm		
Passage height H	2200 / 2	500 mm ¹⁾		
Half-circle radius r	1000, 1200, 1300,	1300, 1400		
	1400, 1500, 1600	1500, 1600		
Full circle radius r	1000, 1200, 1300,	1300, 1400		
	1400, 1500, 1600	1500, 1600		
Number of sliding panels	2	2		
2-panel, symmetrical				
Fixed side screens				
Canopy height (min.)	260	260 mm		
Canopy height extension ¹⁾	260 – 5	500 mm		
Sliding panel, convex				
Max. weight per door panel	80 kg	80 kg		

¹⁾ Standard dimensions (other dimensions on request)

 $^{^{2)}}$ Depending on radius r

Technical data	BST COMFORT LINE FBST COMFORT LINE		
Power consumption, max.	250 W		
Power consumption, average	30 W		
Supply voltage/frequency	230 V / 50 – 60 Hz		
External power supply	27 V DC / 2 A		
TÜV type-approved	•		
Compliant with the Low Voltage Directive	•		
Manufactured to ISO 9001	•		

Adjustable parameters	BST COMFORT LINE FBST COMFORT LINE
Opening speed per panel, adjustable	100 – 750 mm/s
Closing speed per panel, adjustable	100 – 500 mm/s
Low (creep) speed per panel, adjustable	30 – 90 mm/s
Opening and closing force, adjustable	•
Max. force on contact with obstacle	150 N



Operator and control unit	BST	FBST	
Operator	ES 200	ES 200 2D	
Microprocessor control unit	(
Integrated presence sensor	0		
Equipped in accordance with DIN 18650	()	
Obstruction self-recognition	(•	
Automatic reversing cycle on obstruction contact		•	
Complete system self-test	•		
Connection for airlock function	• -		
Parameter adjustment capable	(•	
Self-learning	(
Class of protection	IP	20	
Pulse expansion for cheque and code card readers or key switches		•	
Potential-free contact	•		
Bus-capable	•		
Door status contact, locking device for door system	()	

Program modes	BST FBS1			
Off	•			
Automatic	•			
Exit Only	•			
Permanent Open	•			
Partial Open, Exit Only	•			
Night-/Bank Function	•			

Design of ceiling	
Ceiling, melamine, white	•
Upper dust-proof ceiling	•
Rain-proof ceiling with	
drainage spouts (prepared)	0

Profiles and glazing		BST	FBST
Fine-frame profile system with 8 mm ESG	- G		•
Fine-frame profile system with 8,76 mm VSG	- G	()

Accessories	BST FBST
Straight panel board for top	
façade connection	0
Lateral façade connection	
glass/panel board	0
Aluminium girder	
with aluminium cover, external	•
Aluminium girder	•
Downlights	
Ceiling aperture for downlights	
by others	0
Halogen spot, 20 W, including	
ceiling aperture and accessories	0
Floor finish	
Emco floor mat	0
Arwei floor mat	0
Floor guide rail	
Surface-mounted floor guide	
without floor ring	•
Surface-mounted floor guide	
with floor ring	0
Flush-mounted floor guide with floor	
ring (Compulsory for clear passage	
widths (LW) beyond 1500 mm)	0

Accessories/Safety equipment	BST	FBST
Locking device		
Electro-mechanical locking device	0	0
Fail-safe via emergency		
power supply unit	0	•
Monitored rechargeable battery pack	0	•
Intrinsically safe activator		
in escape direction	_	•
Radar motion detector, external	()
Radar motion detector, internal	()
Emergency pushbuttons		
Emergency Off function	0	_
Emergency Opening function	_	0

standard

O optional

Half-circle and full-circle configurations

Standard dimensions			
Clear passage height	LH		
Canopy height	SH		
System height	Н		
Actual radius	r		
Internal width	S		
System width	В		
Clear passage width	LW		

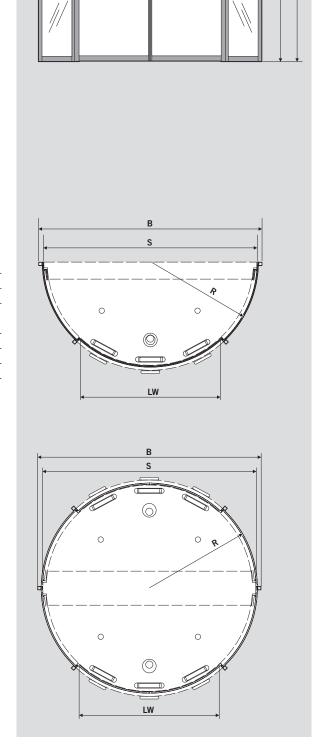


Half-circle and full-circle configurations

Fine-frame profile system G

LH		22	00	25	00	
SH			26	50		
Н			LH -	+ SH		
r	1000	1200	1300	1400	1500	1600
S	1960	2360	2560	2760	2960	3160
В	2100	2500	2700	2900	3100	3300
LW	1235	1519	1660	1802	1943	2085

Dimensions in mm

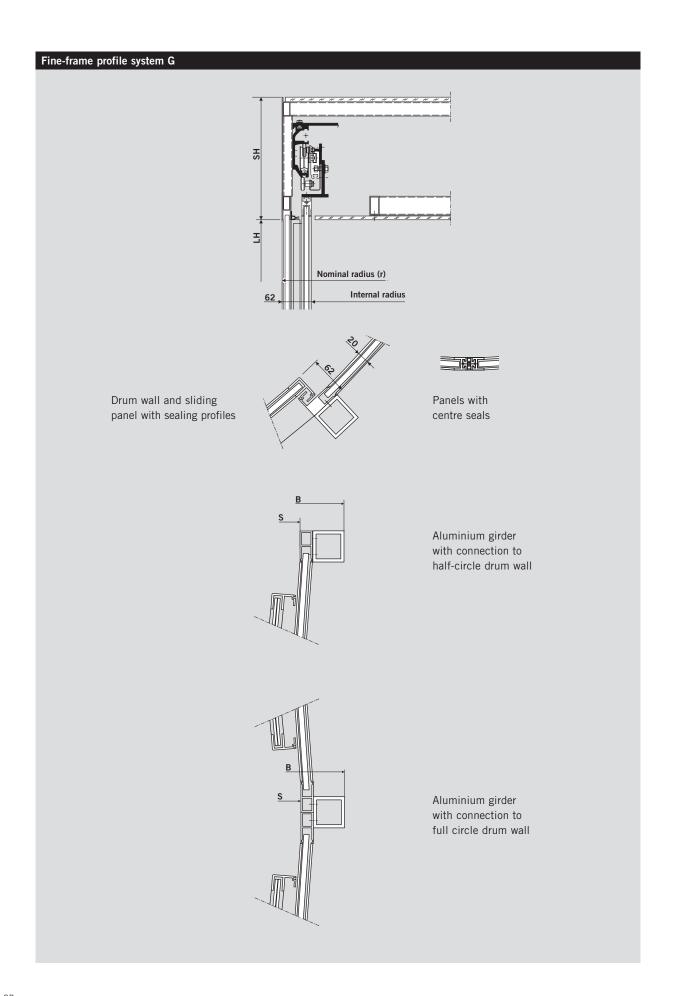


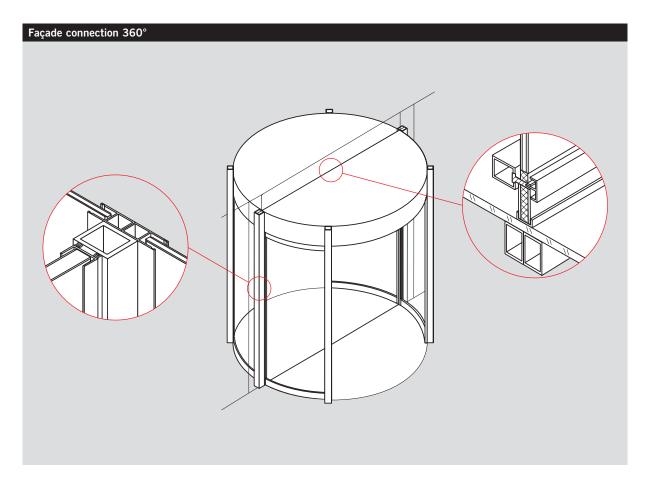
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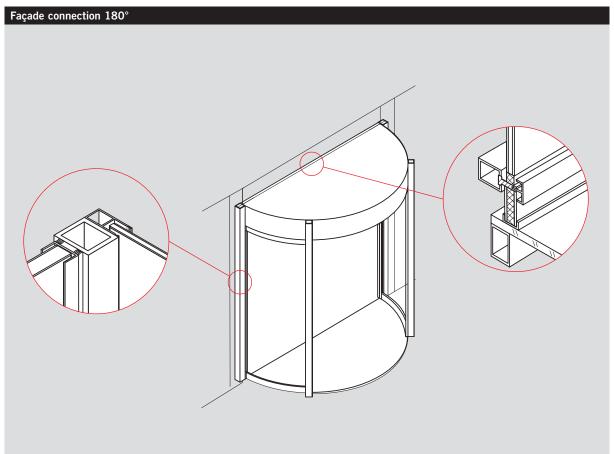


DORMA FBST with approval for application in emergency exits and escape routes according to DIN 18650

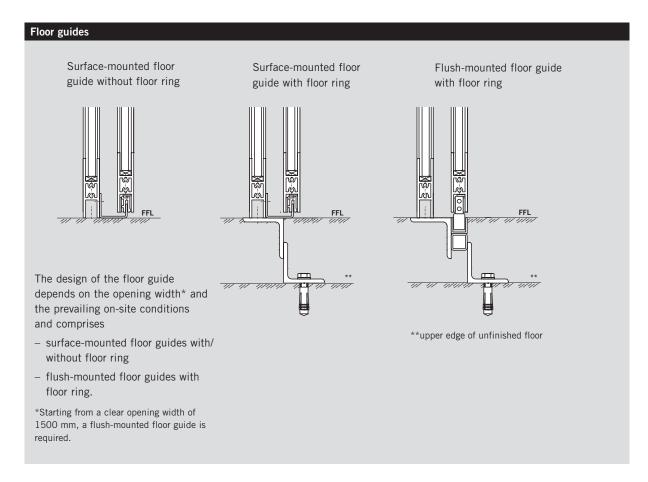


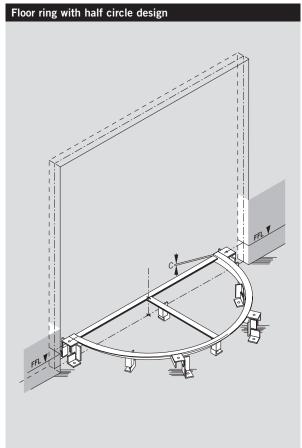


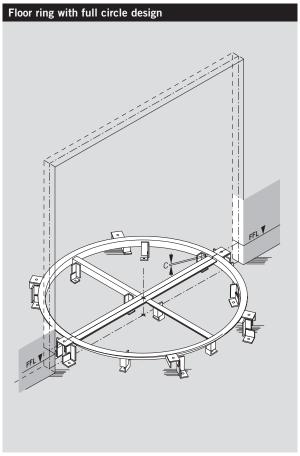






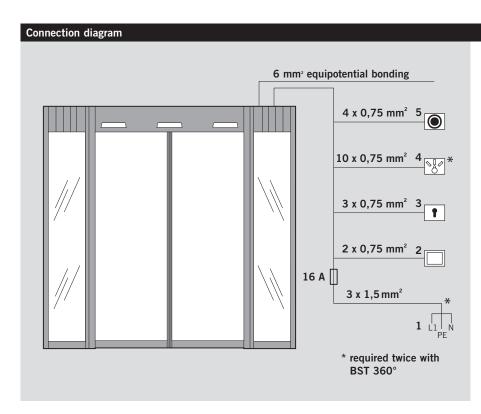








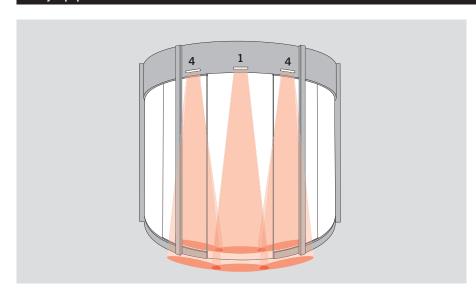




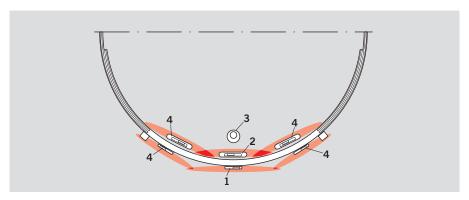
- 1 Feeder
- 2 Internal pushbutton
- 3 Key switch
- 4 Program switch
- **5** Emergency pushbutton (option)

The external Emergency Off pushbutton must be installed close to the door. The maximum cable length amounts to 30 m. The cable can be laid together with the cable for the program switch. The maximum length of the cable connecting the external program switch is 30 m. If the cable is laid with other cables, it must be provided with a shield..

Safety equipment



- 1 External radar motion detector/combined sensor, external (compulsory with DIN 18650)
- 2 Integrated infrared safety sensor to monitor the passage area
- 3 Internal radar motion detector
- 4 Infrared safety sensor (optional, compulsory with DIN 18650)





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 — Electronic program half-cylinder or in a fullelectronic way via code.

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

Program switches for sliding door operators



Frogram switches for shaing door operators					
Designation	Specification	Installation system	Order No.		
PG-S2	5-position, lockable, aluminium, white, flush-mounting, 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 key switch TL-ST S55, membrane keypad, aluminium-coloured, white, flush-mounting, 80 x 80 mm	System 55	16556901150		



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:	Deutsche Solenoid	19142001170 19142201170
EPS-FST	Full-electronic program switch in System 55 design, 5-position, lockable via code or additional key switch TL-ST S55, membrane keypad, white, aluminium-coloured, flush-mounting, 80 x 80 mm	System 55	16556801150



Pushbuttons

Pushbuttons



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

Key switch



-		
Designation	Specification	Order No.
KT 3-1	1 NO contact, with Euro profile half-cylin (can be replaced by any half-cylinder of a master-key system), you can only withdraw the key when it is in zero position, aluminium, metal, 75 x 75 x 60 mm	nder
KT 3-1	flush-mounting	05054531332
KT 3-1	surface-mounting	05054631332
КТ 8	Lettering "Auf, Zu", 2 NO contacts, be replaced by any half-cylinder of a master-key syste you can only withdraw the key when it is zero position, aluminium, metal, 75 x 75 x 60 mm	
KT 8	flush-mounting	05054831332
KT 8	surface-mounting	05054931332

Emergency pushbutton



Designation	Specification	Installation system	Order No.
NAT 1	To interrupt the automatic movement of the door. Emergency pushbutton (Function Emergency Off) for automatic door operat Manufactured according to ZH 1/494 (Geoguidelines for power-operated windows, dand gates) and BGR 232 (German Employ Liability Insurance Association Rule) as w DIN 18650 (German Industrial Standard) Red knob with yellow centre insert. Maxim load current: max. 10 A at 230 V AC. NO contact: 1, NC contact: 1, white fram flush-mounting, 80 x 80 mm	ors. Irman Joors yer's Pell as I.	90400025
NAT 2*	Function: "Emergency Open" with green I NO contact: 1, NC contact: 1, Maximum load current: 10 A at 230 V AC white frame, flush-mounting, 80 x 80 mm	2,	90400035

^{*}no illustration



Active infrared system to protect the passage area and the secondary closing edges

of sliding doors. To detect the presence of people and objects.

Active	infr:	ared	safe	tν	sensor
ACLIVE		an Gu	Sale	w	SCHSUL

Name of the last o
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Designation	Specification

IRIS ON black

Radar motion detectors

The user-friendliness of automatic doors depends a lot on what kind of activator is used and its construction. The DORMA sensor range combines the flexibility that is required for the different fields of application with reliability and the highest level of user friendliness.

Furthermore it effectively detects moving people or objects in order to activate (open) automatic doors.

Order No.

16503201170

Radar motion detectors



Eagle



System for ceiling installation Eagle



Rain protection cover Eagle

Designation Specification Standard motion detectors

Eagle 2	Standard, black	

Motion detectors with direction recognition

Direction recognition for perfectly controlled opening and closing cycles.

Eagle 1	Direction recognition, black	16503101170
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Self-monitoring motion detector

(FST application – for doors with application in emergency exits and escape routes)

Radar motion detector for doors in emergency exits and escape routes with self-monitoring function and electronic systems in redundant design.

Eagle 3-N Self-monitoring, direction recognition, black	16551601170
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Accessories for Eagle detectors

System for ceiling installation, white	16502901170
Rain protection cover, transparent	05090731332



Combined sensors

To activate (open) and protect automatic sliding doors. This system is designed to substitute light barriers with the aid of an integrated

active infrared function. This combined sensor opens sliding doors via radar and protects the main and secondary closing edges with the aid of an active infrared system.



Designation	Specification
Activ8 One on	Direction recognition, black
Activ8 Three on	Direction recognition, self-monitoring, suitable for application on FST doors (fire and smoke doors), black







Door Control



Automatic



Glass fittings and Accessories



Security Time and Access (STA)



Movable Walls

Region China

DORMA GmbH + Co. KG DORMA Platz 1 D-58256 Ennepetal Phone +49 2333/793-0 Fax +49 2333/793-495 www.dorma.com.sg

Division Automatic worldwide

Region Australasia

Australia DORMA Automatics Pty. Ltd. Phone +61 3 8795 0666 www.dorma.com.au

DORMA HORIZON NZ LTD Phone +64 9 573-1999 www.dorma.com.nz

Region Central Europe

Belgium DORMA foquin N.V./S.A. Phone +32 50 451570 www.dorma.be

Germany DORMA Automatic GmbH + Co. KG Phone +49 2333 793-0 www.dorma.de

Luxembourg Subsidiary Automatic Phone +49 2333 793-216 www.dorma.de

Netherlands DORMA Nederland B.V. Phone +31 488 418100 www.dorma.nl

DORMA Schweiz AG Phone +41 718864646 www.dorma.ch

Region Emerging Markets

DORMA-BALKAN EOOD Phone +359 2 9714 904 www.dorma.com

DORMA Representation Greece Phone: +30 21 09944388 www.dorma.com

India DORMA Door Controls India Pvt. Ltd. Phone +91 44 28585097 www.dorma.com

DORMA GmbH + Co. KG Phone +49 2333 793-0 www.dorma.com

DORMA Polska sp. z o.o. Phone +48 22 7365900 www.dorma.pl

DORMA Russia Phone +7 495 981-1433

South Africa DORMA Door Controls (Pty.) Ltd Phone +27 11 8300280 www.dorma.com

Turkey DORMA Kapi Kontrolleri Ltd. Sti Sahraticedid Mah. Phone: +90 216 3600056

Ukraine DORMA Sales Representative Vasyl Stuchylin Phone +38 44 5183526 www.dorma.com

China DORMA China Ltd. Phone +86512 67612481

DORMA Door Controls (Suzhou) Co., Ltd. Phone +852 25034632 www.dorma.com.sg

Region Far East

Indonesia, Japan, Malaysia, Vietnam DORMA Emerald Entrance Systems Pte Ltd Phone +65 459 5733 www.dorma.com.sg

Philippines DORMA Door Controls Pte. Ltd. Phone +632 893 4077/8 www.dorma.com.sg

DORMA Far East Pte. Ltd. (Sales) Phone +65 64151898 www.dorma.com.sg

South Korea DORMA Emerald Entrance Systems Pte Ltd Phone +65 459 5733 www.dorma.com.sg

DORMA Door Controls Pte. Ltd. Phone +886 2 9182987

Region France

DORMA Accueil S.A.S. Phone +33 4 79348924 www.dorma.fr

Region Gulf

Saudi Arabia DORMA Arabia Automatic Doors Ltd. Kingdom of Saudi Arabia Phone +9663 847 2394 www.dorma.com

United Arab Emirates DORMA Gulf Door Controls FZE Dubai, United Arab Emirates Phone +971 48 839014

Region North America

DORMA Door Controls Phone +1 905 6701281 www.dorma.com

Mexico DORMA México, S. de R.L. de C.V. Phone +52 55 5272-6937 www.dorma.com

DORMA Automatics Inc. Phone +1 847 295-2700 www.dorma-usa.com

Region Scanbalt

Denmark DORMA Danmark A/S Phone +45 44 543000 www.dorma.dk

Estonia DORMA Representation Estonia Phone +372 6707064 www.dorma.com

DORMA Finland Oy Phone +358 9 8789130 www.dorma.fi

Lithuania DORMA Norge AS Phone +47 23 176800 www.dorma.com

Norway DORMA Norge AS Phone +47 23 176800 www.dorma.no

Sweden DORMA Sverige AB Phone +46 31 289520 www.dorma.se

Region South America

DORMA Sistemas de Controles para Portas Ltda Phone +54 11 45051032 www.dorma.com

Brazil DORMA Sistemas de Controles para Portas Ltda. Phone +55 11 46899128 www.dorma.com.br

Region South-East Europe

DORMA Austria GmbH Phone +43 6225 8636-0 www.dorma.at

DORMA Croatia d.o.o. Phone +385 0 1 46 06 944 www.dorma-croatia.hr

Czech Republik DORMA dverní technika CR, s.r.o. Phone +420 2 671321-78 www.dorma.com

Hungary DORMA AKS Automatic GmbH Phone +36 1 2065127 www.dorma.com

Romania DORMA Romania S.R.L. Phone +40 31 806 916 0 www.dorma.com

DORMA Slovensko spol. s.r.o. Phone +421 2 50221-283

DORMA Representation Slovenia ICL d.o.o. Phone +386 2 5302010 www.dorma.com

Region South Europe

Italy DORMA Italiana S.r.l. Phone: +39 039 244031 www.dorma.it

Portugal DORMA Portugal para Portas, Lda. Phone +351 252 860490 www.dorma.com

DORMA Ibérica, S.A. Phone +34 91 8757850

Region UK/Ireland

DORMA Ireland Limited Phone +353 1 295-8280 www.dorma.ie

Great Britain DORMA UK Limited Phone +44 1462 477600 www.dorma-uk.co.uk