



## SST

**Automatic break-out  
sliding door for  
application in  
emergency exits and  
escape routes with  
powerful ES operators**

## ... slide open to standard width, break-out to full width

### For every entrance, every application, all requirements

Thanks to their great flexibility, DORMA automatic break-out sliding door systems are the suitable application for all different kinds of structural openings, various structural requirements as well as your individual requirements.

### Powerful ES operators

DORMA door operators benefit from their fast, smooth motion cycles, their low noise emission and their high level of user friendliness. ES operators, with which the door systems presented herein are equipped, are especially powerful which means that they continue to perform efficiently even when put under strain.



### The classic door system for emergency exits and escape routes

With DORMA SST automatic break-out sliding door systems both the door leaves as well as the side screens are pivot-mounted to swing-out when required – without the need to disengage any locks. Thus doubling the passage width of the doorway – offering the decisive benefit in the event of an emergency but also during everyday use. Thanks to the break-out function of the door leaves and the side screens, the SST has the approval for application as escape route doors.

### Especially economical

Thanks to their variable dimensions, DORMA automatic break-out sliding door systems are especially economical. Yet every door system is designed and made to measure and then supplied ready for installation. Furthermore DORMA will also perform all installation and commissioning work if desired.

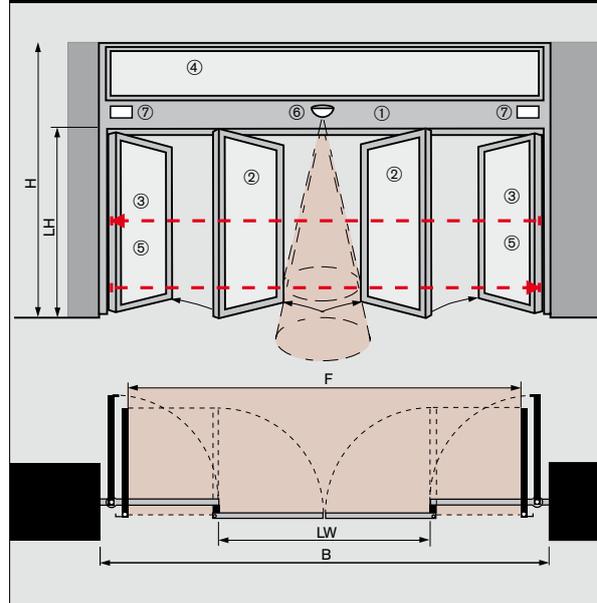
### Convenient and safe

Designed as microprocessor systems, the control units dispose of adjustable and self-learning parameters and thus easily cope with all requirements regarding the full range of functionality. At the same time they offer high reliability and provide the best possible operational safety due to the monitoring of the closing force. Due to the integrated locking device, individual requirements regarding the prevention of burglaries can be realised safely.



Quality-assured manufacture

### Construction and scope of delivery



- ① Self-supporting transom including operator with integrated control unit
- ② Break-out door leaves with toughened or laminated safety glass
- ③ Break-out side screens
- ④ Fanlight or cover
- ⑤ Safety light barriers
- ⑥ Activator, e.g. radar motion detector or sensors
- ⑦ Secondary closing edge protection according to the DIN 18650

LW = Clear opening width  
F = Escape route width  
B = System width  
LH = Clear passage height  
H = System height

### Features and benefits

- Unsurpassed scope of supply and services
- Easily adaptable to individual requirements
- Application at emergency exit and escape route doors thanks to break-out door leaves and side screens
- Highly economical and reliable due to proven standard components
- Wide range of adjustable parameters
- Extensive number of standard connections
- The doors can be provided with safety components (sensors) in accordance with the DIN 18650 if desired
- Supplied ready for installation, installation and commissioning on request

Dimensions and constructional details		SST
Design of sliding leaf and side screen		
– G fine-frame profile system	■	
– R frame profile system	■	
Fanlight	○	
Cover	○	
With break-out door leaves	●	
With break-out side screens	●	
Suitable for application in escape routes	●	
Number of door leaves	2	
Clear passage width (LW) SST-G	1000 – 2000 mm	
Clear passage width (LW) SST-R	1000 – 2500 mm	
System width B	2460 – 5540 mm	
Max. door leaf weight	2 x 100 kg	
Cross section of operator width x height (with square-edged cover)	202 x 200 mm	
Clear passage height (LH)	2100 – 2500 mm	
Safety clearance at secondary closing edges	○	
Software for secondary closing edge protection	○	

Technical data	SST
Opening and closing force infinitely adjustable, max. 150 N	●
Opening speed, infinitely adjustable	●
Opening speed, infinitely adjustable – Operator ES 200	100 – 700 mm/s
Closing speed, infinitely adjustable	100 – 500 mm/s
Cycle at low (creep) speed, infinitely adjustable	30 – 90 mm/s
Supply voltage, frequency	230 V, 50/60 Hz
Max. power consumption	250 W
External power supply	24 V, 2 A
Class of protection	IP 20
TÜV type-approval	●
Compliant with the Low Voltage Directives	●
Quality-assured manufacture, registered to ISO 9000	●

● standard ■ alternatively ○ optional

Operator and control unit	SST
Operator version ES 200	●
Microprocessor control	●
Function programs	
– Off	●
– Automatic	●
– Permanent Open	●
– Partial Open	●
– Exit Only	●
– Night-/Bank Function	●
Connection for airlock control	○
Delayed opening for cheque/code card reader or key switch	●
Self-learning	●
Potential-free contact	●
Light barriers, self-monitored (2 pairs)	●
Equipped according to DIN 18650	○
Automatic reversing	●
Fail-safe design*	●
Fail-secure design*	○
Panic Closing Function (consider rules)	○
Program switch	○
Connection for access control system	●
Bell contact	●
Door status contact	○
Module for connection to EIB building control system	○
Optical error display	○
Rechargeable battery pack	●
USV emergency power supply unit	○
System stop following break-out of door leaves	●

\* Ensure compliance with latest regulations

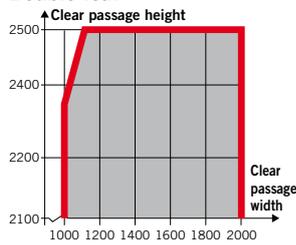
Optional accessories	SST-G	SST-R
Locking devices		
Electro-mechanical combi lock incl. manual lock release with internal pull rod	○	○
Electro-mechanical combi lock incl. external manual lock release	○	○
Mechanical locking device (rods, handles, with profile cylinder lock, switching-off of control voltage)		○
Integrated door closer IST 96 for door leaves and side screens		○

## With G fine-frame profile system

### Automatic break-out sliding door systems in all-glass design

Thanks to the fine-frame system G, developed by DORMA, automatic break-out sliding door systems equipped with this frame system offer the aesthetic elegance of an all-glass door system. At the same time the light frame system offers optimum sealing performance and the best-possible protection of the glass edges. DORMA SST-G automatic break-out sliding door systems is the appropriate application wherever ensuring safety in escape routes is the highest priority. At the same time they offer maximum light penetration, visibility and architectural compatibility.

#### Double-leaf



B1 = System width incl. safety clearance

H = System height

LH = Clear passage height

LW = Clear opening width

F = Escape route width

All dimensions in mm

#### Calculation of door dimensions

with safety clearance

$$B1 = LW \times 2 + 460$$

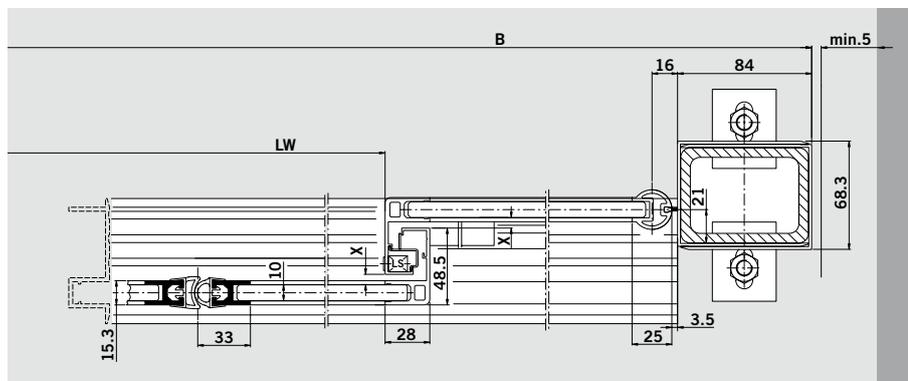
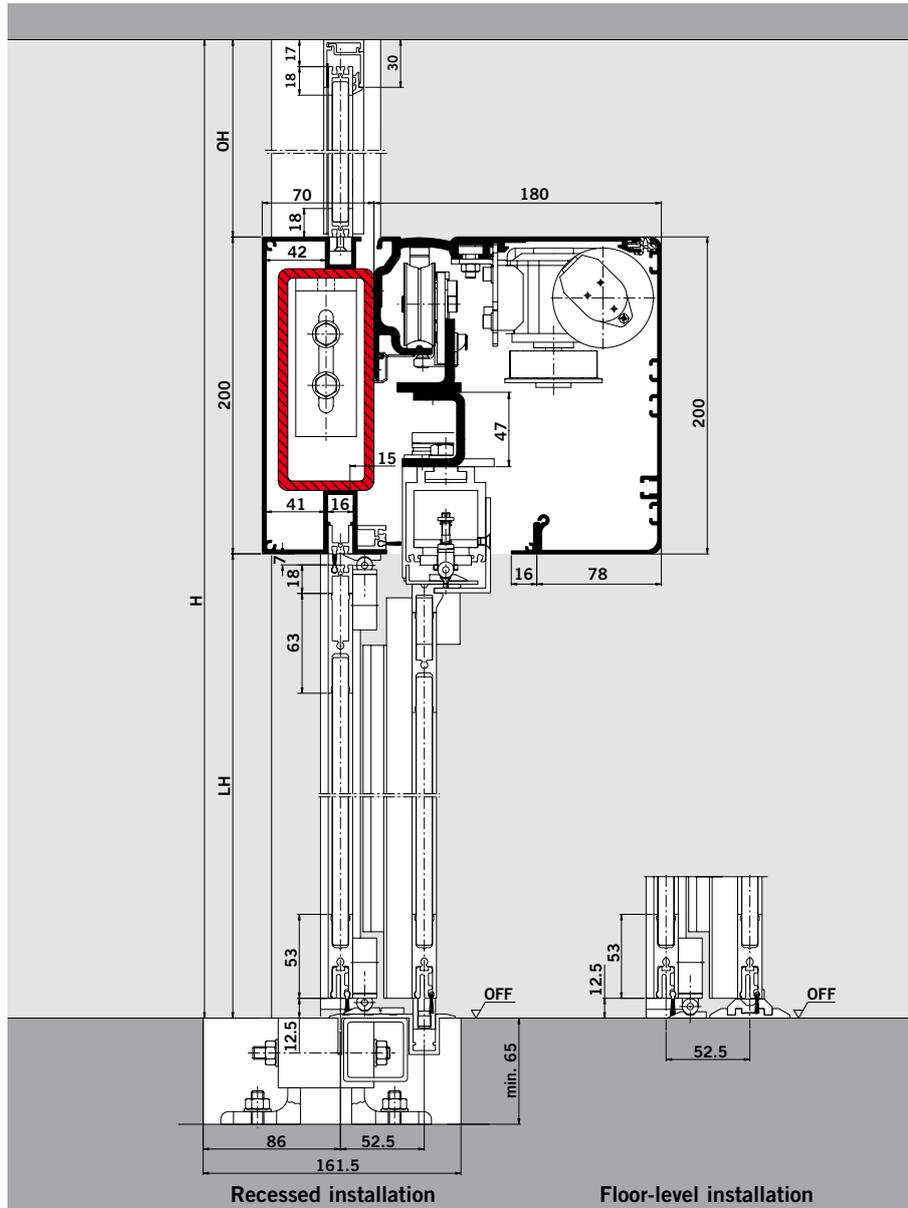
$$LW = (B1 - 460) / 2$$

without safety clearance

$$B2 = LW \times 2 + 290$$

$$LW = (B2 - 290) / 2$$

$$F = LW \times 2 + 25$$



#### DORMA SST-G standard dimensions

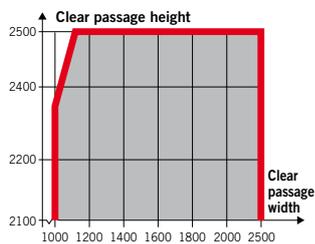
Version	01	02	03	04	05	06	07	08	09	10	11
LW	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
B1	2460	2660	2860	3060	3260	3460	3660	3860	4060	4260	4460
F	2025	2225	2425	2625	2825	3025	3225	3425	3625	3825	4025

## With R frame profile system

### The robust solution for heavy-duty applications

Equipped with the R frame profile system developed by DORMA, these automatic break-out sliding door systems ensure especially high levels of stability, torsional rigidity, sealing capacity and security. With their glass panels clearly separated, DORMA SST-R door systems signal an unequivocal barrier function. At the same time, with the almost unbeatable safety that they embody, they constitute the optimum application for heavily frequented entrances and internal doors in emergency exits and escape routes.

### Double-leaf



B1 = System width incl. safety clearance

H = System height

LH = Clear passage height

LW = Clear opening width

F = Escape route width

All dimensions in mm

### Calculation of door dimensions

with safety clearance

$$B1 = LW \times 2 + 540$$

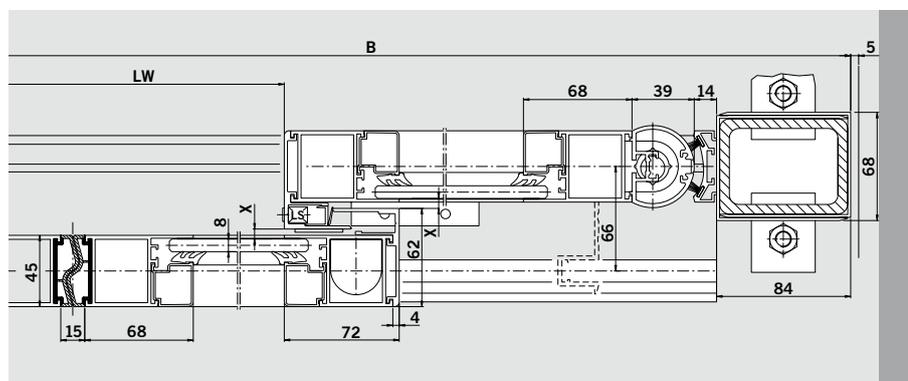
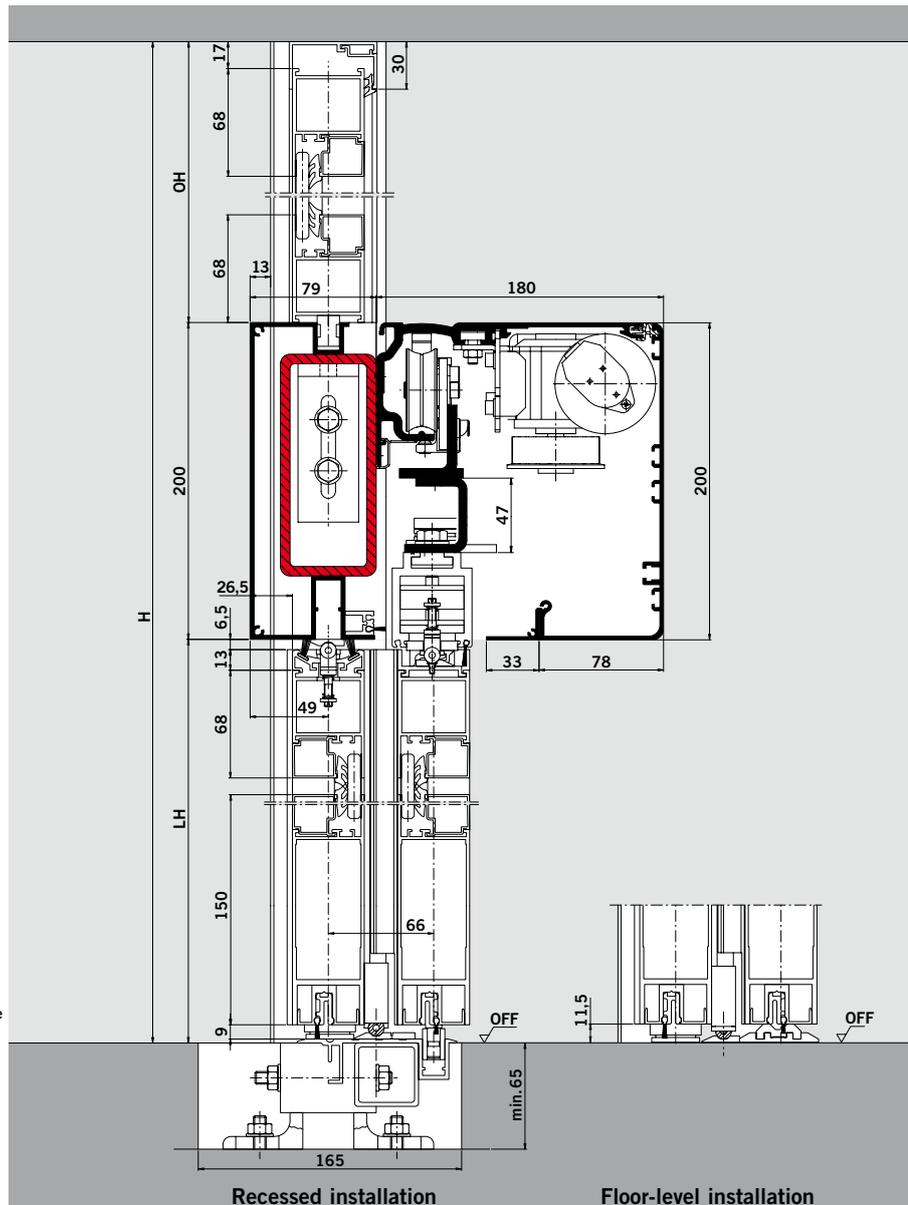
$$LW = (B1 - 540) / 2$$

without safety clearance

$$B2 = LW \times 2 + 420$$

$$LW = (B2 - 420) / 2$$

$$F = LW \times 2 + 45$$



### DORMA SST-G standard dimensions

Version	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
LW	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
B1	2540	2740	2940	3140	3340	3540	3740	3940	4140	4340	4540	4740	4940	5140	5340	5540
F	2045	2245	2445	2645	2845	3045	3245	3445	3645	3845	4045	4245	4445	4645	4845	5045

**For break-out door leaves and side screens**

**Softline profile – for maximum safety with added benefits**

Pressure applied against the door leaves and side screens of DORMA SST automatic break-out sliding door systems suffices to activate the break-out function, leaving the way out free.

Fast escape from buildings equipped with this automatic break-out sliding door system is thus ensured, even in a crush. Once broken out, the pivoted door leaves and side screens remain in their position, however, they can easily be moved aside by



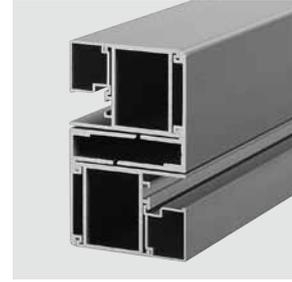
hand. Such an opening could of course also be welcome on hot summer days, furthermore it can be utilised to turn the entrance area of shops and department stores into additional sales space. When closed, DORMA SST automatic break-out sliding

**Fine-frame profile system G**



door systems effectively protect the interior against heat loss and draughts thanks to their especially developed frame profiles with integrated high-performance seals. At the same time, the Softline cross sections and the minimum

**Frame profile system R**



clearances between the door leaves and the side screens provide maximum safety in the event of user contact with the door leaves. Effective finger guard thanks to specially shaped pivot profiles at the break-out side screens.

**Program switch**



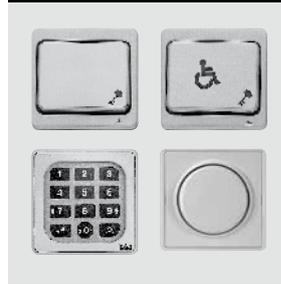
- External installation
- Flush-mounted/surface-mounted installation
- Lockable/Rotary knob
- Suitable for standard flush-mounted boxes
- Can be integrated with an emergency-off pushbutton in a double-frame
- Key switches in flush-mounted/surface mounted design

**Radar motion detector**



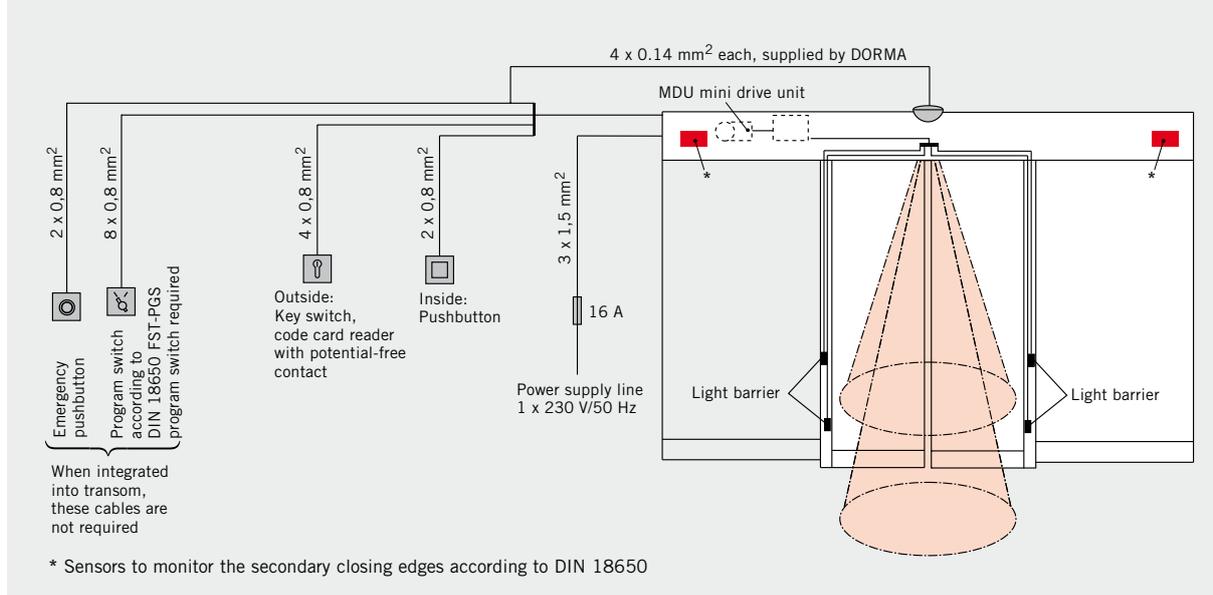
- Eagle system
- Direction-sensitive or standard version
- Radar motion detectors can be used in any combination
- No effect on heart pace-makers due to very low output of just approx. 2 mW
- No interference from mobile phones

**Pushbuttons/switches**



- Flush-mounted/surface-mounted installation
- Stainless steel finishes
- Water resistant versions
- Keypads for access control systems
- Pushbuttons/switches

Wiring diagram DORMA SST



The external emergency pushbutton has to be installed in the close range of the door. Max. cable length: 50 m. Can be run in one cable with the program switch. The cable length for the external program switch must not exceed 50 m.

At the same time the cable must be shielded when ran with other wires (e.g. LIYCY 6 x 0.25 mm<sup>2</sup> flexible company Lapp).

## Specification text

DORMA SST-G automatic break-out sliding door system with fine-frame design and hinged door leaves firmly secured to the transom; break-out function in escape route direction and with side screens having Softline profiles in crushing-free design. Fail-safe design (rechargeable battery pack), self-regulating and monitoring of the door leaf movement. Manufactured according to the German guidelines for power-operated windows, doors and gates, ZH 1/494, the German UVV (accident prevention) and VDE (Association of German Engineers) regulations latest edition in each case. Quality-assured manufacture, registered to ISO 9000. Equipped with two self-monitoring light barriers. TÜV type-approval on the basis of the DIN (German Industrial Standard) 18650. Power supply line: 230 V AC, 50 Hz. DORMA ES 200 mm sliding door operator with microprocessor control, self-learning.

**Track rail design:**

- not replaceable (Standard)
- replaceable

**Locking devices:**

- electromechanical combi lock with internal manual lock release
- electromechanical combi lock with external manual lock release

**Activator:**

- Radar motion detector (Standard)
- Radar motion detector (directional-sensitive)
- Pushbutton
- Other activators, type = ...
- Protection according to DIN 18650

**Operator options:**

- Module for connection to EIB building control system
- Safety software for closing edge protection of the secondary closing edges with safety clearances of less than 20 mm via force limitation
- External power supply unit for 30 minutes of continuous operation

**Program switch modes:**

- Off, Exit Only, Permanent Open, Automatic, self-regulating Partial Open
- Night-/Bank Function
  - Airlock control for two successive doors

**Program switch design:**

- lockable
- lockable, with replaceable Euro profile half cylinder

**Installation of lockable program switch:**

- external, flush-mounting
- external, surface-mounting
- internal

## DORMA SST-G

**Installation of emergency off pushbutton:**

- external, flush-mounting
- external, surface-mounting
- external, behind glass
- internal
- without

**Dimensions:**

- System width B = ... mm
- System height H = ... mm
- Clear passage width (LW) = ... mm
- Clear passage height (LH) = ... mm

**Way of mounting for floor guide rail:**

- continuous, recessed installation
- sectional, floor level

**Glazing of sliding leaves and side screens:**

- Toughened safety glass, 10 mm, clear
- Special glazing = ...

**Fanlight:**

- Without fanlight, without panel cover
- With fanlight
- With panel cover

**Fanlight design:**

- single-piece
- two-piece
- three-piece

**Glazing of fanlight:**

- Float glass, 10 mm, clear = ...
- Same glazing as sliding leaves and side screens
- Special glazing

**Colour of aluminium parts:**

- silver, anodised E6/CO
- RAL = ...
- Special colour = ...

**Specification text**
**DORMA SST-R**

DORMA SST-R automatic break-out sliding door system with fine-frame design and hinged door leaves firmly secured to the transom; break-out function in escape route direction and with side screens having Softline profiles in crushing-free design. Fail-safe design (rechargeable battery pack), self-regulating and monitoring of the door leaf movement. Manufactured according to the German guidelines for power-operated windows, doors and gates, ZH 1/494, the German UVV (accident prevention) and VDE (Association of German Engineers) regulations latest edition in each case. Quality-assured manufacture, registered to ISO 9000. Equipped with two self-monitoring light barriers. TÜV type-approval on the basis of the DIN (German Industrial Standard) 18650. Power supply line: 230 V AC, 50 Hz. DORMA ES with an operator height of 200 mm, with microprocessor control, self-learning, incl. intelligent RS 485 interface.


**Track rail design:**

- not replaceable (Standard)
- replaceable

**Locking devices:**

- electromechanical combi lock with internal manual lock release
- electromechanical combi lock with external manual lock release
- mechanical rod lock system with manual lock release

**Activator:**

- Radar motion detector (Standard)
- Radar motion detector (directional-sensitive)
- Pushbutton
- Other activators, type = ...
- Protection according to DIN 18650

**Operator options:**

- Module for connection to EIB building control system
- Safety software for secondary closing edge protection for safety clearances of less than 200 mm via force limitation
- External power supply unit for 30 minutes of continuous operation

**Program switch modes:**

- Off, Exit Only, Permanent Open, Automatic, self-regulating Partial Open
- Night-/Bank Function
- Airlock control for two successive doors

**Program switch design:**

- lockable
- lockable, with replaceable Euro profile half cylinder

**Installation of lockable program switch:**

- external, flush-mounting
- external, surface-mounting
- internal

**Installation of emergency off pushbutton:**

- external, flush-mounting
- external, surface-mounting
- external, behind glass
- internal
- without

**Dimensions:**

- System width B = ... mm
- System height H = ... mm
- Clear passage width (LW) = ... mm
- Clear passage height (LH) = ... mm

**Way of mounting for floor guide rail:**

- continuous, recessed installation
- sectional, floor level

**Glazing of sliding leaves and side screens:**

- Laminated safety glass, 8 mm, clear
- Toughened safety glass, 8 mm, clear
- 24 mm double-glazing made of safety glass
- Special glazing = ...

**Fanlight:**

- Without fanlight, without panel cover
- With fanlight
- With panel cover

**Fanlight design:**

- single-piece
- two-piece
- three-piece

**Glazing of fanlight:**

- Float glass, 8 mm, clear
- 24 mm double-glazing made of float glass = ...
- Same glazing as sliding leaves and side screens
- Special glazing

**Colour of aluminium parts:**

- silver, anodised E6/CO
- RAL = ...
- Special colour = ...

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**Door Control**



**Automatic**



**Glass fittings and Accessories**



**Security Time and Access (STA)**



**Movable Walls**