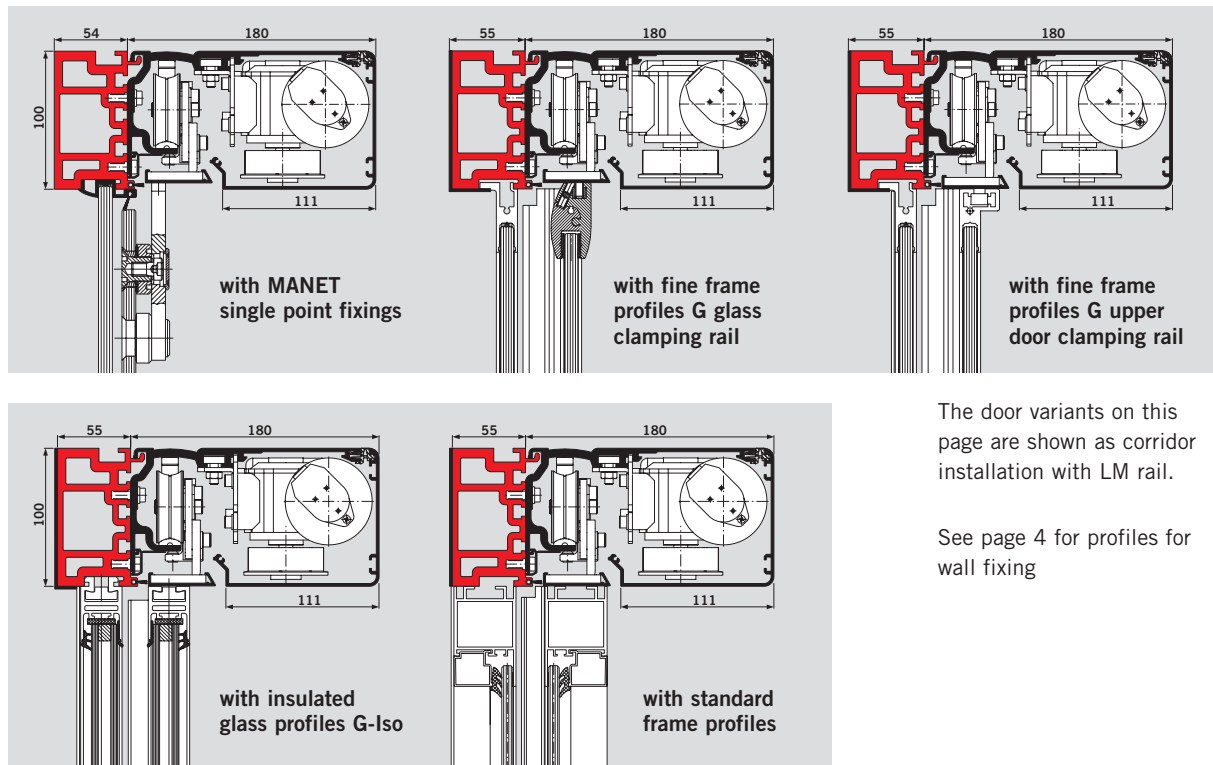**Sliding door operator**

DORMA | ES 200 *Easy*

ES 200 *Easy* – the drive for individual door design
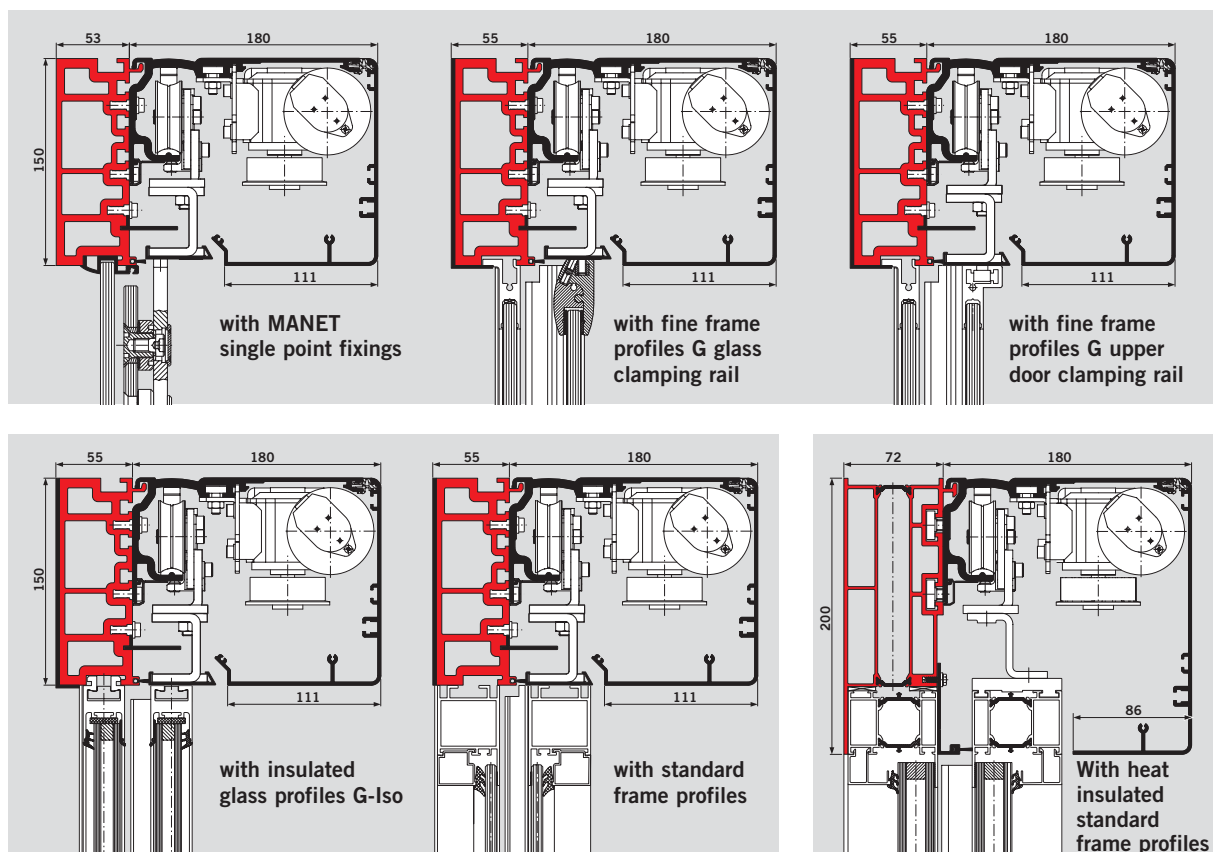
Door variants with ES 200 *Easy*, 100 mm height

**with MANET
single point fixings**

**with fine frame
profiles G glass
clamping rail**

**with fine frame
profiles G upper
door clamping rail**

**with insulated
glass profiles G-Iso**

**with standard
frame profiles**

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 height and special version "heat insulated profile R-Thermo"

**with MANET
single point fixings**

**with fine frame
profiles G glass
clamping rail**

**with fine frame
profiles G upper
door clamping rail**

**with insulated
glass profiles G-Iso**

**with standard
frame profiles**

**With heat
insulated
standard
frame profiles**

Flexible, simple and modular

It is time to rethink sliding door operators.
The new **ES 200 *Easy*** in the attractive DORMA 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 85 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 **Mini-Drive-Unit** 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
DORMA offers a particularly cost-effective sliding door operator in the tried and trusted DORMA quality with the new **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 simply and menu-assisted. Additional programming equipment is not required.

DORMA supplies, as the optimum supplement, program switches and pulse senders as well as door profiles specially matched to the drive.

Features and advantages at a glance:

– Modular, flexible system
– For door units up to 2 x 85 kg
– Problem-free adaptation to individual requirements
– Low number of system components
– Industrially prefabricated and tested **Mini-Drive-Unit**
– 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
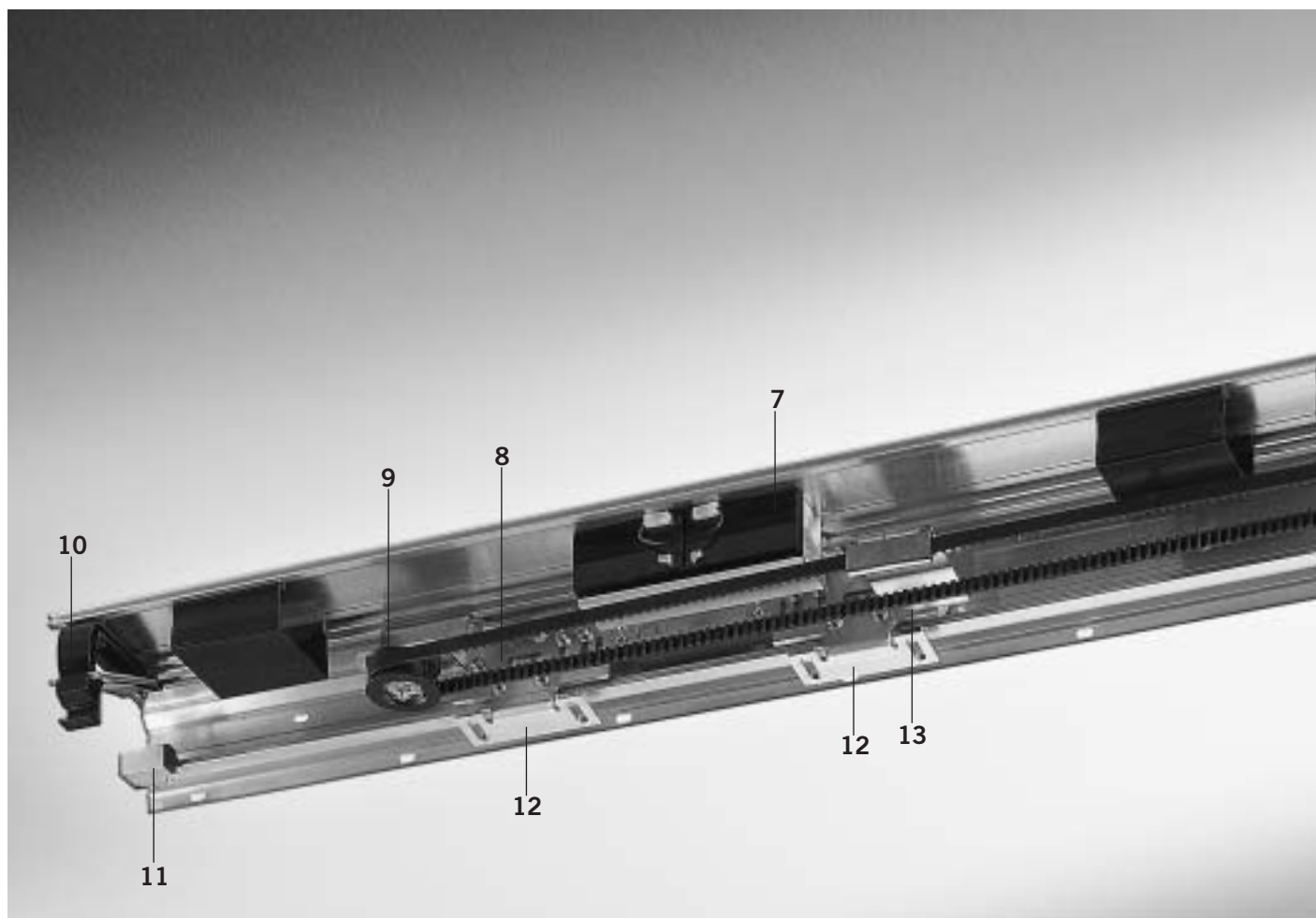– Reliable investment due to compliance with all relevants European standards

Door parameters	ES 200 *Easy*
1-panel sliding door	
– Transit width LW	700 – 3000 mm
– Door panel weight, max.	1 x 100 kg
2-panel sliding door	
– Transit width LW	800 – 3000 mm
– Door panel weight, max.	2 x 85 kg

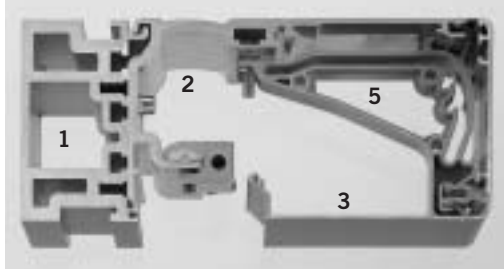| Technical data	
Height	100 und 150 mm
Depth	180 mm
Opening and closing force max. 150 N	●
Opening speed (incremental setting)	10 – 50 cm/s
Closing speed (incremental setting)	10 – 40 cm/s
Hold-open time	0,5 – 30 sec.
Mains voltage, frequency	230 V, 50/60 Hz
Power consumption	180 W
International protection	IP 20
Tested according to low-voltage guidelines	●
Manufacture according to ISO 9001:2000	●

● standard
○ optional

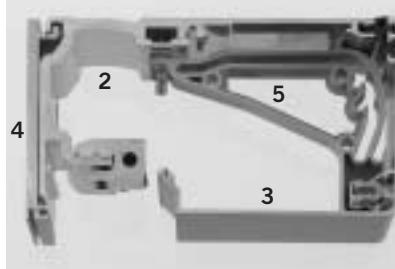| Control unit	
Microprocessor controller	●
Functional programs	
– Off	●
– Automatic	●
– Permanent open	●
– Partial open	●
– Exit only	●
– Night-bank switch	●
Emergency off	●
Self-learning	●
Automatic reversing	●
Connection for bistable electro-mechanical locking	●
Connection for light barriers (max. 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	○

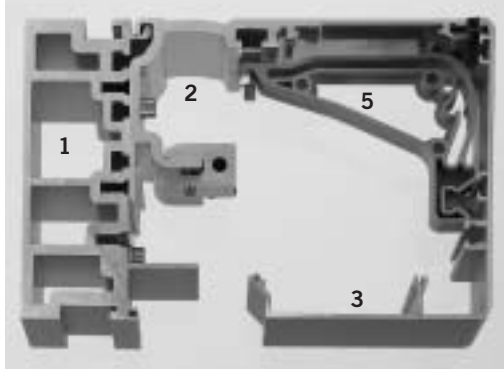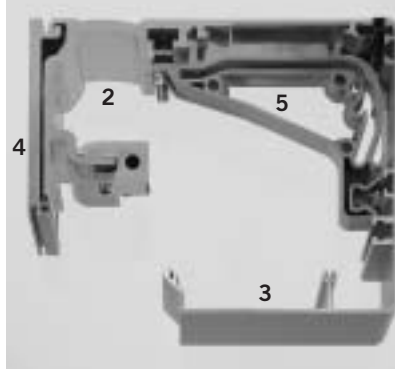| Profiles for corridor installation, 100 mm	Profiles for wall fixing, 100 mm

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.
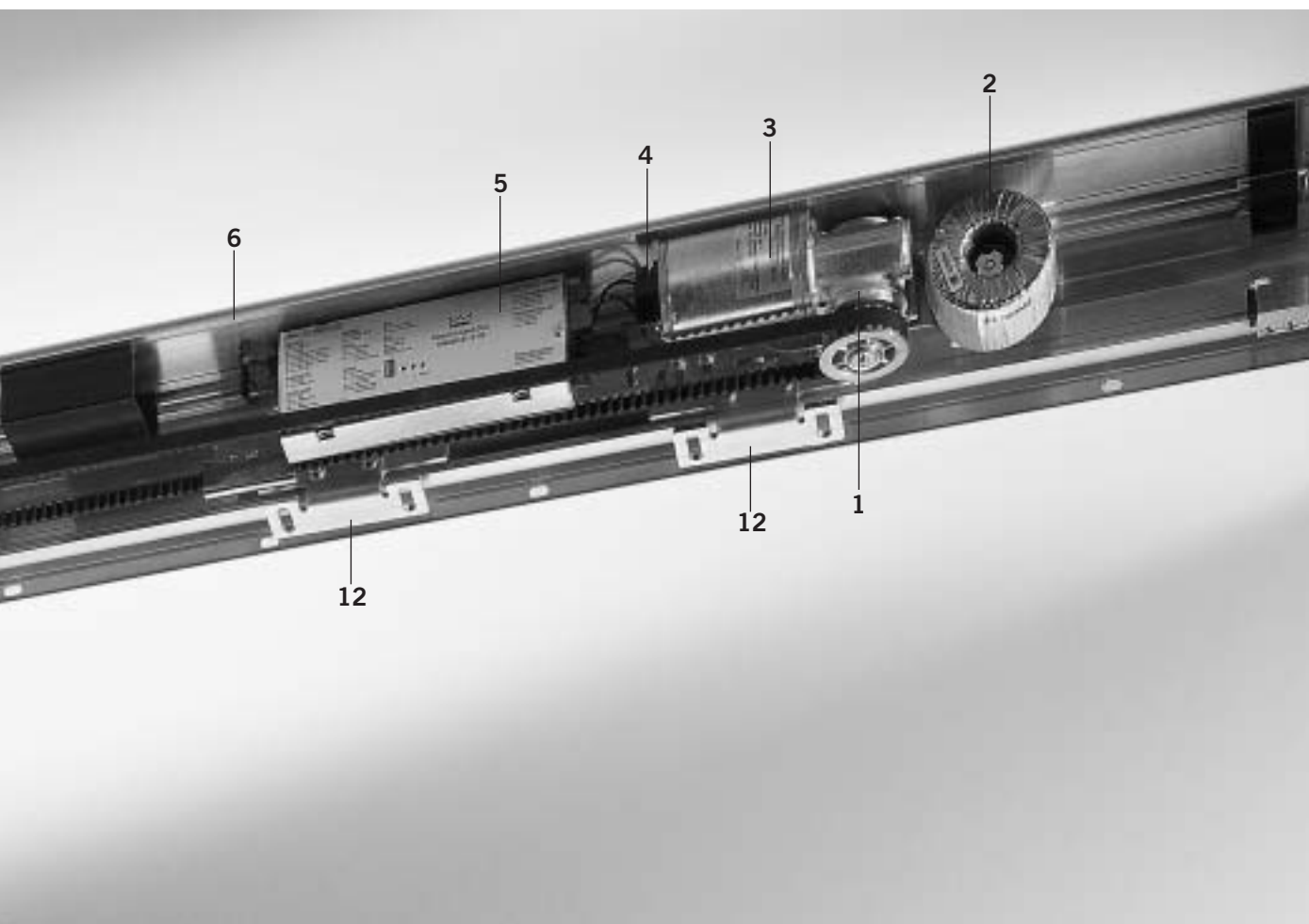
Profiles for corridor installation, 150 mm	Profiles for wall fixing, 150 mm

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

Mini drive unit

The heart of the **ES 200 *Easy***: the prefabricated **Mini-Drive-Unit** with all the electrical components necessary is industrially tested and facilitates the assembly and maintenance of drive units.

The control system is based on the tried and trusted EC2 system which has proven itself thousands of times world-wide in all possible applications.
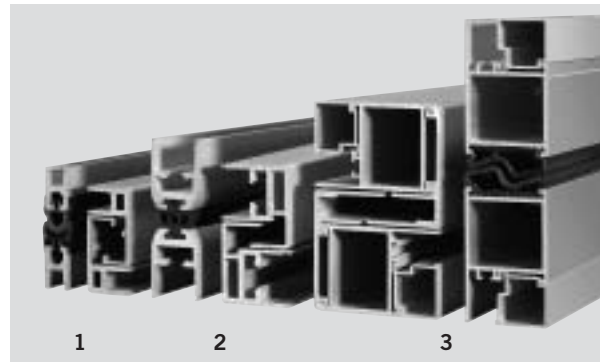
Components

1 **Mini-Drive-Unit**
  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

Door profiles

DORMA supplies door profile for doors in full-glass and for framed doors as the optimum addition to the **ES 200 *Easy***.
MANET single point fixings and a glass clamping strip complement the program.

1 Fine frame profile system G
2 Insulated glass profile system G-Iso
3 Standard frame profile

1   2   3

System accessories

Program switch to select the operating mode of DORMA automatic doors.

– Up to 5 different functions:

Off, Automatic, Exit, Partial open, Permanent open

– Electronic program switch in design system 55 for the highest aesthetic demands

– Material variants for frames from polished steel, abrasive blasted silk-mat stainless steel, aluminium and brass to glass, ebony or terra-cotta

– Also lockable by key or electronic code

– For internal or external installation as well as flush-mounted or surface-type installation
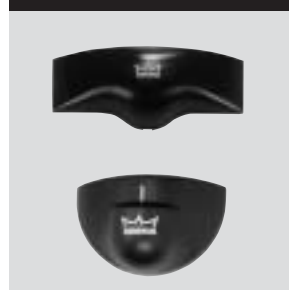

Program switch system 55

Push-button and switch: Electric, pneumatic or by radio.

– To open and close DORMA automatic doors

– Via key or manually by switch or touch

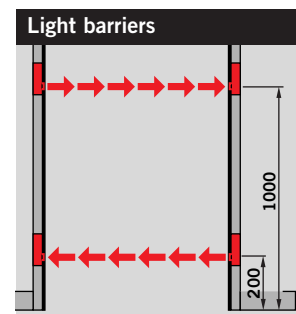– For a variety of installation situations: flush or surface mounted or in the case

The widely diversified automatic system accessories from DORMA are complemented by further components which are specially matched to various safety measures.
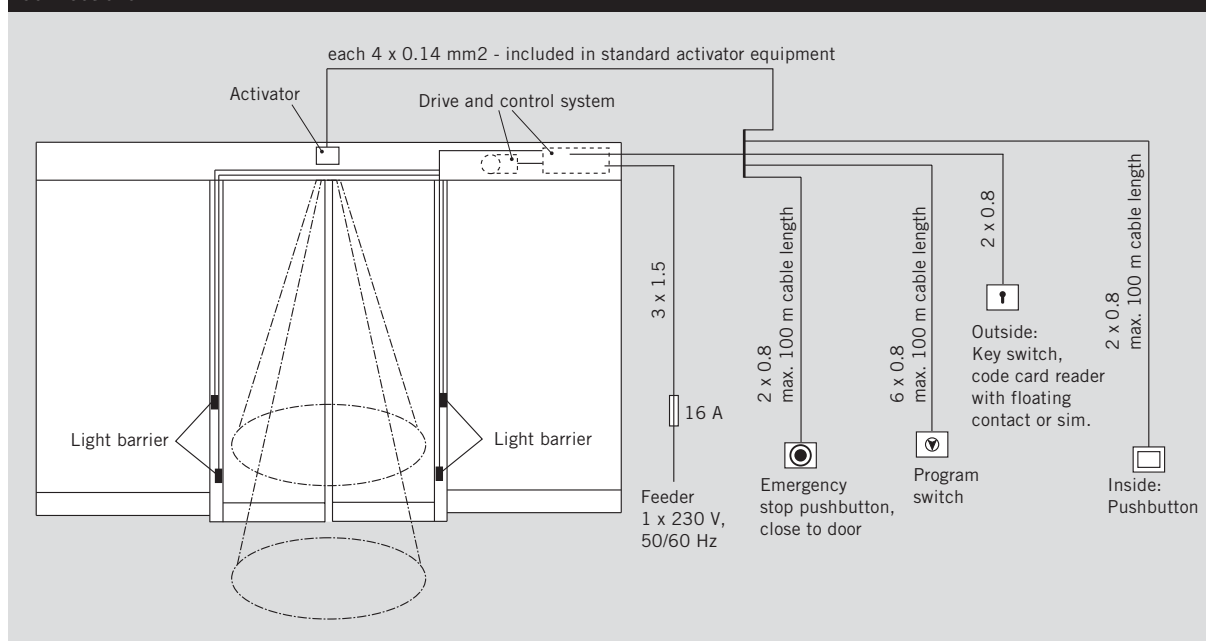
Radar motion detectors

– Directional sensitive, standard version

– Directional non-sensitive

– Radar detector for any combination

– No effect on pacemakers due to the low output, approx. 2 mW

Light barriers

– According to the counter-light principle

– Additional securing of locking area, installation 200 and 1000 mm above floor level

Connections

each 4 x 0.14 mm2 - included in standard activator equipment

Activator

Drive and control system

Light barrier

Light barrier

3 x 1.5

16 A

Feeder
1 x 230 V,
50/60 Hz

2 x 0.8
max. 100 m cable length

Emergency
stop pushbutton,
close to door

6 x 0.8
max. 100 m cable length

Program
switch

2 x 0.8

Outside:
Key switch,
code card reader
with floating
contact or sim.

2 x 0.8
max. 100 m cable length

Inside:
Pushbutton

Specification text

Automatic sliding door operator for
( ) 1-panel   ( ) 2-panel sliding door
( ) 150 mm height   ( ) 100 mm height

Dimensions (H x T): 150/100 x 180 mm.
Microprocessor control, self-learning, reversing when
obstruction is encountered.

Transit width:
1-panel 700 – 3000 mm
2-panel 800 – 3000 mm

Door weight:
1-panel max. 1 x 100 kg
2-panel max. 2 x   85 kg

Function programs:
Off, Automatic, Permanent open, Exit only, Partial open,
Night-bank switch, Emergency off. Basic parameter of door
adjustable via integrated display and push-buttons. Choice
between emergency opening and emergency closing in the
event of a power cut (with optional battery pack).

Produced according to the guidelines for power-operated
windows, doors and gates BGR 232, the UVV and the VDE
regulations. TÜV design tested, tested according to the low-
voltage guidelines, production according to ISO 9001:2000
certification. Fulfils the DIN V18650 (prEN 12650).

Connection:
230 V, 50/60 Hz

Switch, push-button:
( ) Program switch:
    ( ) external concealed/flush-mounted
    ( ) external surface-mounted
    ( ) internal   ( ) lockable

( ) Emergency off push-button installation:
    ( ) external concealed/flush-mounted
    ( ) external surface-mounted
    ( ) internal
    ( ) double socket external
    ( ) under glass

Additional equipment:
( ) Battery pack, fitted in transom, for emergency opening
    or emergency closing

Pulse sender:
( ) Radar system
    ( ) directional sensitive .... pcs.
    ( ) non-directional sensitive .... pcs.
( ) other .... pcs.
( ) Light barriers, comprising receiver and transmitter
    (only 3-wire technology) .... pcs.

Locking:
( ) electro-mechanical locking, bistable
( ) door status detector, locking detector
( ) manual unlocking

Colour light alloy parts:
( ) silver, anodised E6/C0
( ) RAL ....

Drive unit dimensions:
Total length B .... mm
Transit width LW .... mm

Make:
DORMA **ES 200** *Easy*

DORMA

www.dorma.com

Door Control

Automatic

Glass
Fittings and
Accessories

Security/
Time and
Access (STA)

Movable
Walls

Indonesia Representative Agen

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