



Revolving doors
2-wing design

DORMA

KTC-2
KTV-2



A sophisticated entrance system offering both safety and comfort.

The entrance area is the showcase of a building. No other part of the building has such a lasting first impression on visitors and thereby gives them an idea of their further stay. High requirements therefore have to be placed on the visual quality of a door system, on design and functionality. The DORMA KTC-2 two-wing revolving door offers plenty of scope for architectural creativity. Thanks to the

variability of its design and a broad selection of surface finishes, it will turn the entrance of any building into a prestigious entrée. Easy to operate and ideally suited for the requirements of wheelchair users (please refer to page 10 for further details), the DORMA KTC-2 also raises accessibility and convenience to a new level. The wide range of functions ensures high traffic capacity even during peak traffic

periods, plus unbeatable safety. And there are major additional benefits to be had from the suitability of these doors as display and advertising spaces. It is important for the economic operation of a building to guarantee effective protection of its interior against the cold, heat, draughts, noise and dust. The two-wing DORMA KTC-2 revolving door comprehensively meets all these requirements.

Available in three standard sizes, with two breakout door wings respectively – either as continuous arrangement without showcases or with external showcases – DORMA KTC-2 revolving doors are suitable for a variety of applications. System options include an integrated night shield and the choice of either drum walls with glazing or metal panelling.



Much space on little room

The two-wing revolving door KTV 2 is the small version of the KTC 2. It is available with a diameter of 3,000 mm and 3,400 mm and thus combines all benefits of the KTC 2/0 (version without showcase) with smaller installation dimensions. This makes the KTV 2 the suitable application where space is tight and nevertheless a maximum section size and an unobstructed

passage through the center of the door system is required. It is appropriate for hospitals or residential homes for the elderly, but also for office buildings or hotels. The KTV 2 also provides the elegance of the KTC 2 and will thus enhance the façade of your building. No matter if surface finishes in RAL colours, anodised surface finishes or stainless steel coatings of all qualities

– the KTV 2 combines a beautiful entrance area with an intelligent automatic door system.

Versions, functions, equipment, options

Technical data and features	DORMA KTC-2
Internal diameter in mm (D)	3600, 4200, 4800
External diameter in mm (B)	3828, 4428, 5028
Clear passage width in mm (LW)	1627, 1927, 2227
Escape route width in mm	= LW (clear passage width)
Clear passage height in mm (LH)	2100-2200*
Canopy height in mm	410-700
System height in mm (H)	Clear passage height + canopy height
Glazed drum walls	<input type="radio"/>
Drum walls with metal panelling	<input type="radio"/>
Suitable for installation in emergency exits and escape routes	<input type="radio"/>
Floor ring	<input checked="" type="radio"/>
Floor finish	<input type="radio"/>
4 downlights	<input checked="" type="radio"/>
Prepared for rainproof ceiling	<input type="radio"/>
German type approval in accordance with DIN 18650	<input type="radio"/>
Realised according to DIN 18650	<input type="radio"/>

● yes ○ option

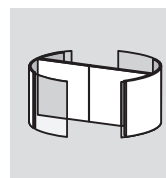
*larger clear passage heights on request

Benefits

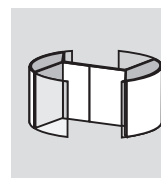
- Spacious entrance
- Easy transport of bulky goods
- Suitable for the needs of the disabled
- Large sections
- Integrated night shield
- Optional showcases provide advertising space
- Highest safety standard
- Suitable for application as escape route door
- Complete application with industrial precision and trusted quality

Versions

KTC-2/0

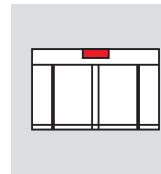
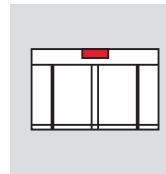


KTC-2/2



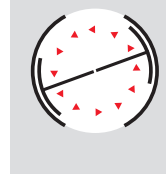
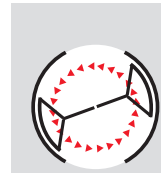
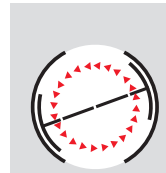
Operator types

Canopy-integrated drive unit



Automatic

I: The door starts and stops automatically.
II: The door rotates permanently at low speed. The speed is increased as soon as a person approaches the door system.

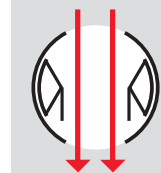
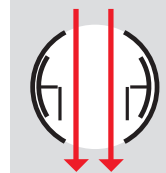
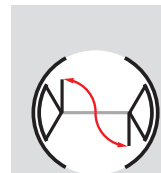
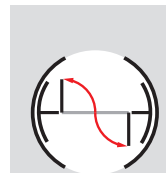


Speed limitation

This feature reduces the speed to approx. 1 rpm, for example for elderly people or the disabled.

Configurations

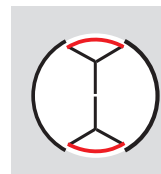
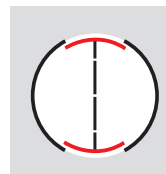
Summer configuration
This configuration is also perfectly suitable for the transport of bulky items or luggage and deliveries of goods.



Emergency escape configuration

Night shield

The rotor can be locked electrically.



Technical data and features	DORMA KTV-2
Internal diameter in mm (D)	3000, 3400
External diameter in mm (B)	3216, 3616
Clear passage width in mm (LW)	1362, 1562
Escape route width in mm	= LW (clear passage width)
Clear passage height in mm (LH)	2100 to 2200*
Canopy height in mm	min. 354, min. 364
Glazed drum walls	<input type="radio"/>
Drum walls with metal panelling	<input type="radio"/>
For emergency exits and escape routes	<input type="radio"/>
Floor ring	<input checked="" type="radio"/>
Floor finish	<input type="radio"/>
4 downlights	<input type="radio"/>
Prepared for rainproof ceiling	<input type="radio"/>
German type approval in accordance with DIN 18650	<input type="radio"/>

● yes ○ option

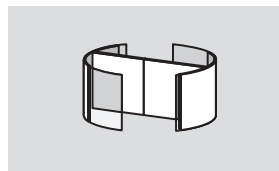
*larger clear passage heights on request

Benefits

- Flexible system that meets any requirement.
- Easy installation and fast commissioning.
- Guaranteed state of the art technology and compliance with all regulations.
- The perfect application in visual, technical and economical respect.
- Improves the building's energy balance.
- Effective noise control.
- Customised application with industrial precision and trusted quality.

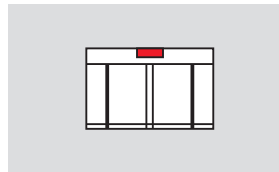
Versions

KTV-2/0



Operator types

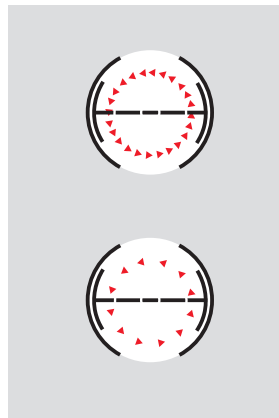
Canopy-integrated drive unit



Automatic

I: The door starts and stops automatically.

II: The door rotates permanently at low speed. The speed is increased as soon as a person approaches the door system.



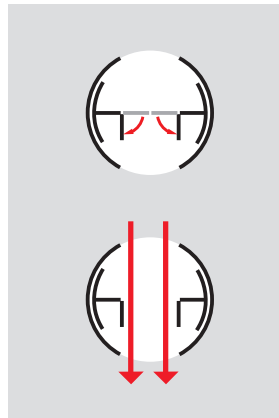
Speed limitation

This feature reduces the speed to approx. 1 rpm, for example for elderly people or the disabled.

Configurations

Summer configuration

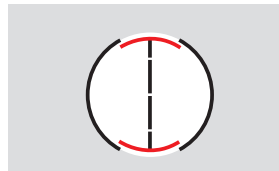
This configuration is also perfectly suitable for the transport of bulky items or luggage and deliveries of goods.



Emergency escape configuration

Night shield

The rotor can be locked electrically.



KTC-2/0 without showcases

- The two-wing KTC-2/0 revolving door system is available in three standard sizes with 2 breakout door wings including brush seals
- The integrated night shield is equipped with 8.7 mm laminated safety glass (with foil)
- The drum walls are available with glazing or metal panelling

KTC-2/2 with showcases

- The KTC-2/2 version is additionally equipped with two external triangular showcases
- Max. weight of showcase décor = 30 kg

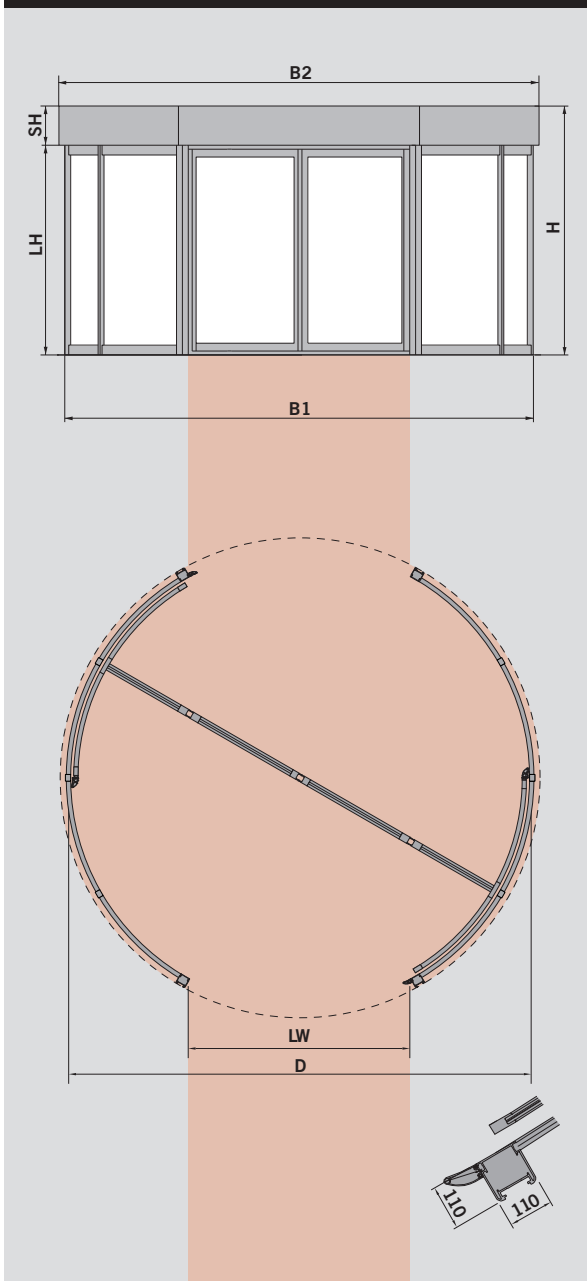
Dimensions

Internal diameter (D)	3600	4200	4800
External diameter (B1)	3692	4292	4892
External diameter (B2)	3828	4428	5028
Clear passage width (LW)	1627	1927	2227
Clear passage height (LH)	2100-2200*		
Canopy height (SH)	410-700		
System height (H)	Clear passage height + canopy height		

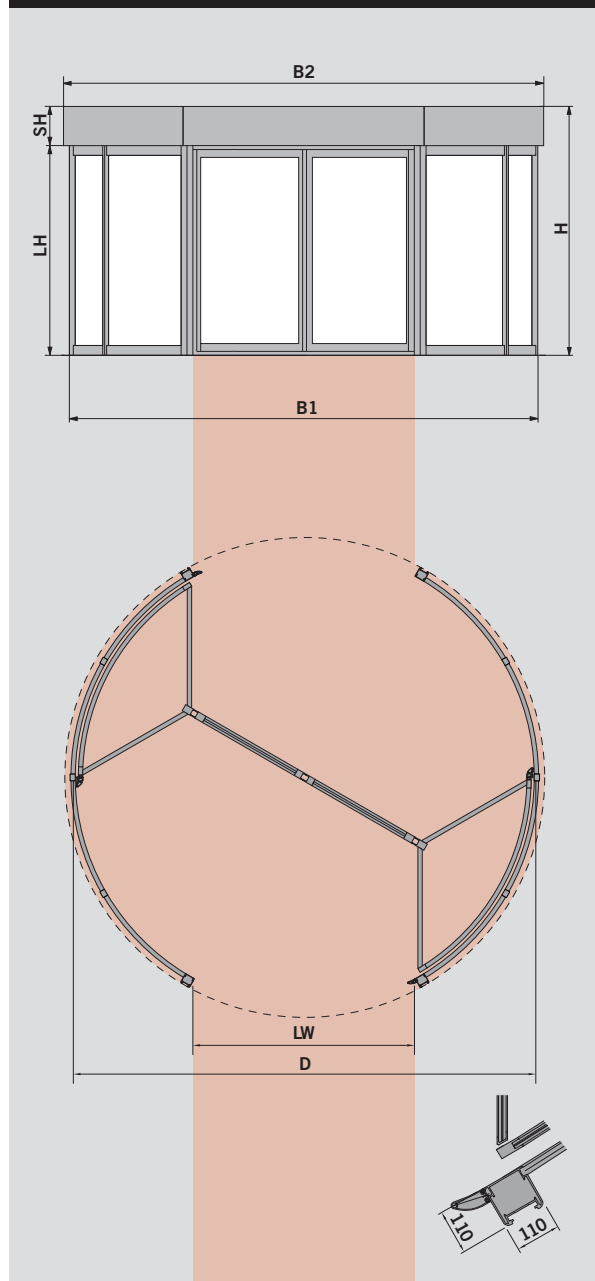
All dimensions in mm.

*larger clear passage heights on request

KTC-2/0 without showcases



KTC-2/2 with showcases



KTV-2

Two-wing version with integrated night shield and breakout wings for summer configuration. Full-automatic doors with integrated safety package:

You may chose between two types of drum walls

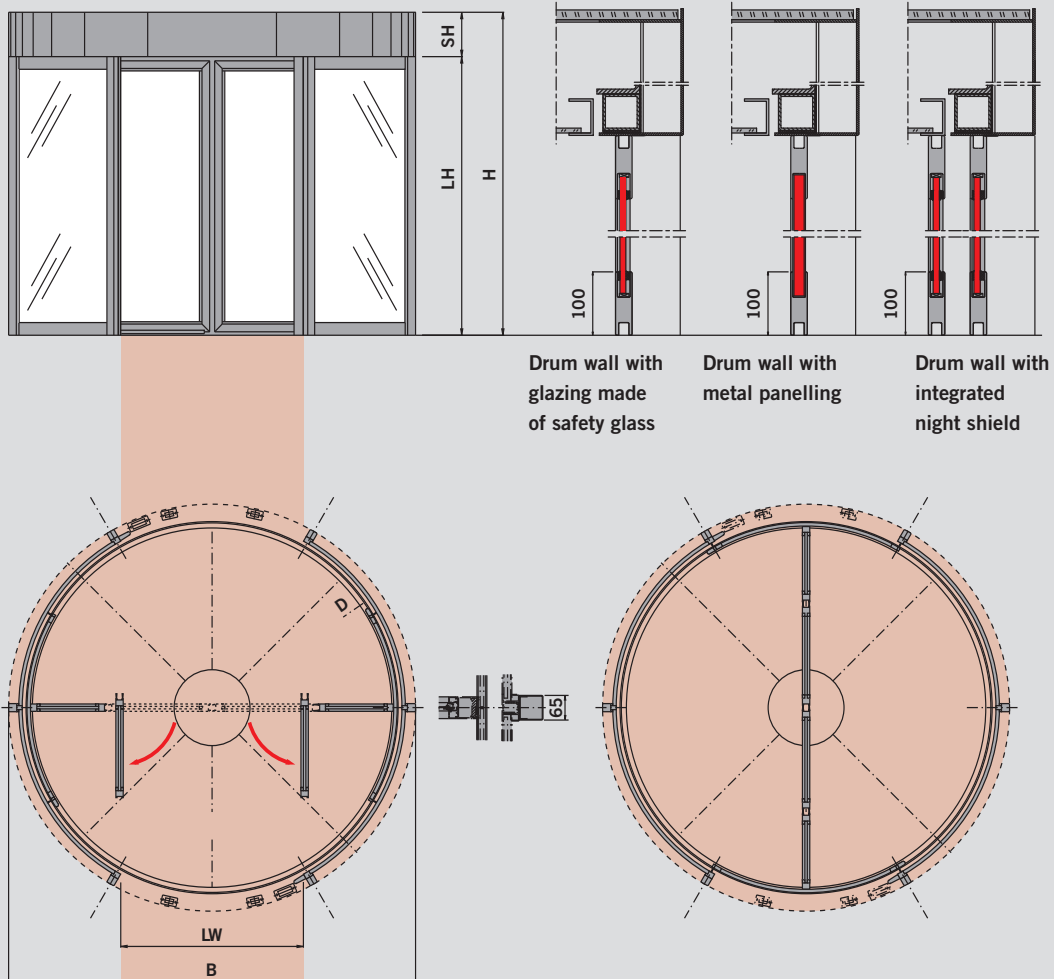
- Aluminium frame with glazing
- Aluminium frame with metal panelling

Dimension of KTV-2

Internal diameter (D)	3000	3400
External diameter (B)	3216	3616
Canopy height (SH)	min. 354	min. 364
Clear passage width (LW)	1362	1565

All dimensions in mm.

KTV-2



Theoretical traffic capacity for KTC-2

All indicated traffic capacities are to be regarded as theoretical values, calculated for passage from both directions (one direction = half the value).

The actual traffic capacity depends, among others, on the shape of the showcase and the operational environment.

Therefore the actual values may be lower than the indicated theoretical values.

Passage without shopping trolley

Speed at the end of the door wing:	0.6	m/sec
Required space per person:	0.7	m ²
Area utilisation per section:	80	%

Diameter (m):	3.6	4.2	4.8
People per section:	3.0	5.0	6.0
Rotations per minute (rpm):	3.2	2.7	2.4
People per hour:	1145.9	1637.0	1718.9

Theoretical traffic capacity per hour
= Number of door wings x people per section x rotations per minute x 60 min

Passage with shopping trolley

Speed at the end of the door wing:	0.6	m/sec
Required space per person:	2.0	m ²
Area utilisation per section:	60	%

Diameter (m):	3.6	4.2	4.8
People per section:	1.0	1.0	1.0
Rotations per minute (rpm):	3.2	2.7	2.4
People per hour:	382.0	327.4	286.5

Theoretical traffic capacity per hour
= Number of door wings x (people + shopping trolleys per section) x rotations per minute x 60 min

Passage with wheelchairs

Speed at the end of the door wing:	0.3	m/sec
Required space per person:	2.0	m ²
Area utilisation per section:	60	%

Diameter (m):	3.6	4.2	4.8
People per section:	1.0	1.0	1.0
Rotations per minute (rpm):	1.6	1.4	1.2
People per hour:	191.0	163.7	143.2

Theoretical traffic capacity per hour
= Number of door wings x (people + wheelchair per section) x rotations per minute x 60 min

Theoretical traffic capacity for KTV-2

All indicated traffic capacities are to be regarded as theoretical values, calculated for passage from both directions (one direction = half the value).

The actual traffic capacity depends, among others, on the shape of the showcase and the operational environment.

Therefore the actual values may be lower than the indicated theoretical values.

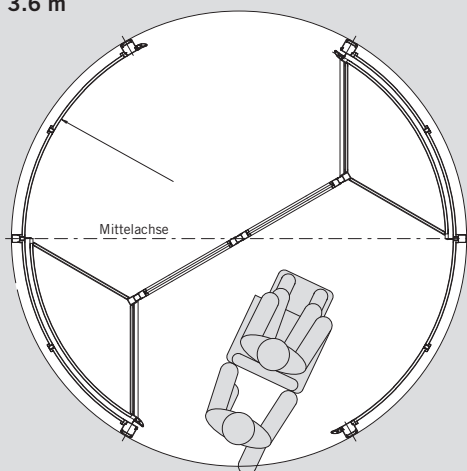
Passage without shopping trolley

Speed at the end of the door wing:	0.6	m/sec
Required space per person:	0.7	m ²
Area utilisation per section:	80	%

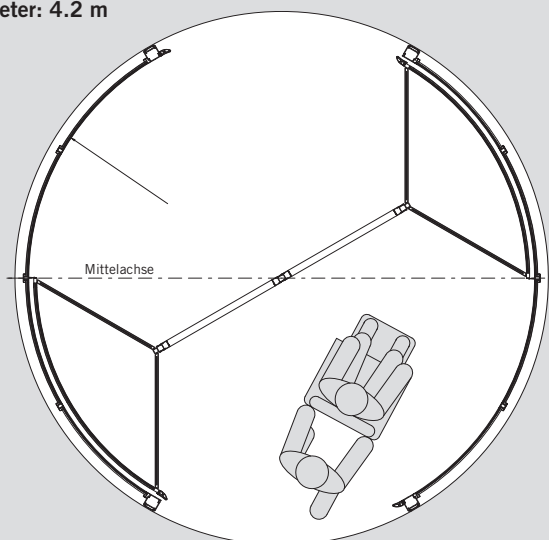
Diameter (m):	3.0	3.4
People per section:	2.0	3.0
Rotations per minute (rpm):	3.8	3.4
People per hour:	916.7	1213.3

Theoretical traffic capacity per hour
= Number of door wings x people per section x rotations per minute x 60 min

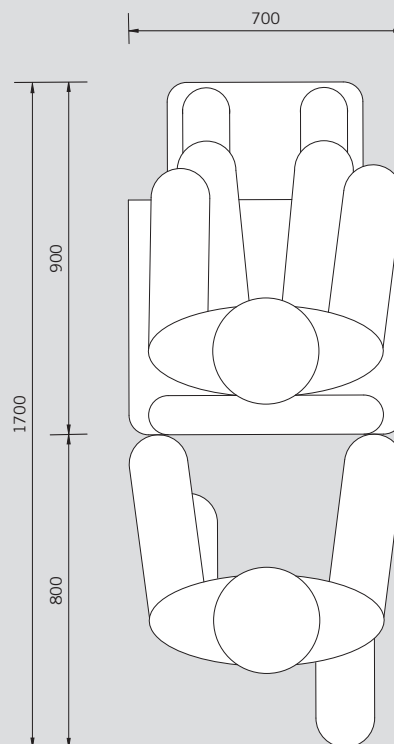
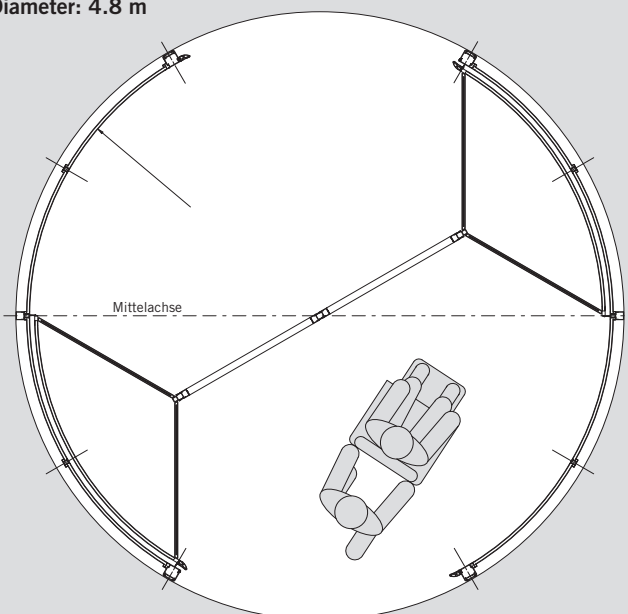
Diameter: 3.6 m



Diameter: 4.2 m



Diameter: 4.8 m



When entering the door with a wheelchair, several factors are relevant for the comfortable accessibility of the door system. The most important of all is the size of the section. The drawings indicate the space required for comfortable access with a wheelchair plus escort.

The required dimensions for a wheelchair user plus escort are estimated by the manufacturer DORMA KT-Systems, who recommends doors with a diameter of at least 4,200 mm for this purpose. As a low rotational speed is another important factor, a disabled access pushbutton should be installed so that the speed may be reduced to approx. 1 rpm in order to ensure comfortable access for wheelchair users.

It should therefore be considered during planning, that the door system has to be equipped with additional safety sensors as an option. The additional safety equipment should be installed according to the facility operator's requirements.

Escape route (select escape route package).

In the event of an emergency activation, the rotor returns to its starting position (parallel to façade axle) with the aid of the rechargeable battery pack.

As soon as the door has reached this position, the middle section may be opened manually in order to create an escape route.

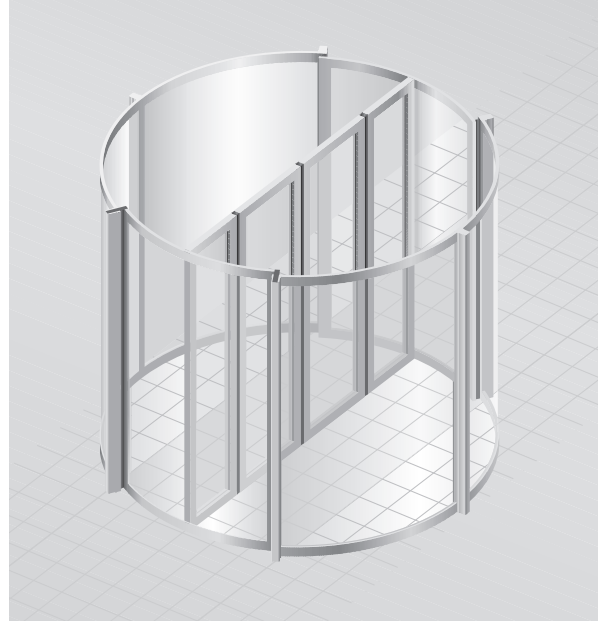


Integrated night shield.

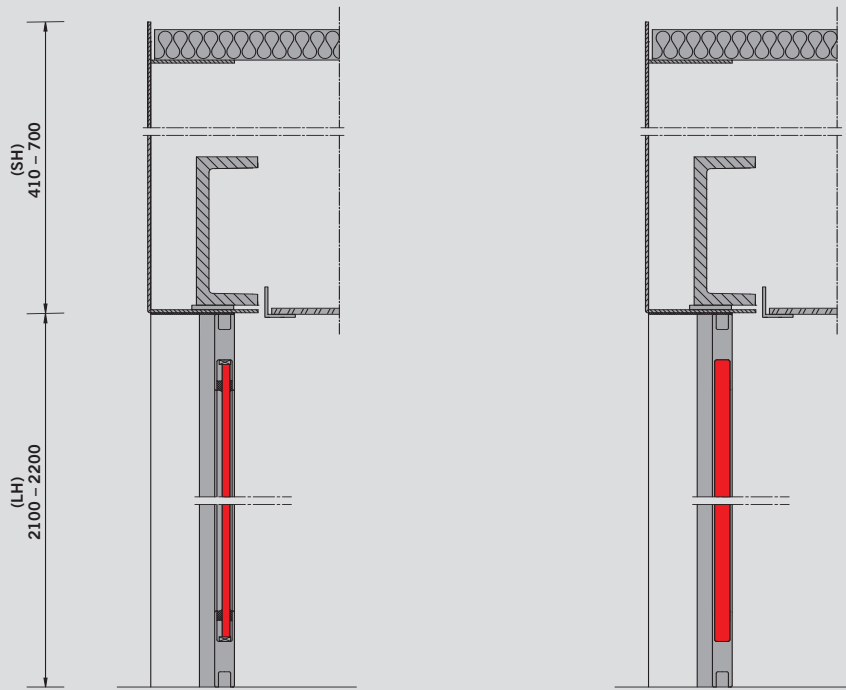
The rotor travels into night shield position on activation of the program switch.

The integrated night shield closes both entrances of

the revolving door at the same time.



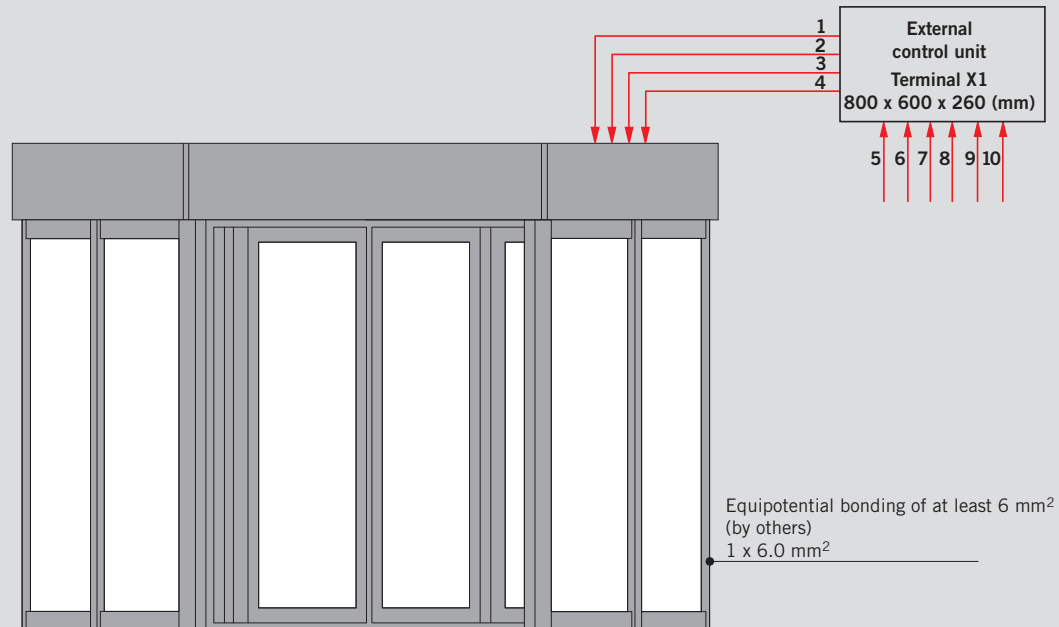
Vertical sections



Drum wall with glazing

Drum wall with metal panelling

Wiring diagram



Cable cross sections of up to 50 m

- 1 Control unit cable, 25 x 0,75 mm² without PE*
- 2 Control unit cable, 25 x 0,75 mm² without PE*
- 3 Power supply line, 230 V/50 Hz, 4 x 1.5 mm²

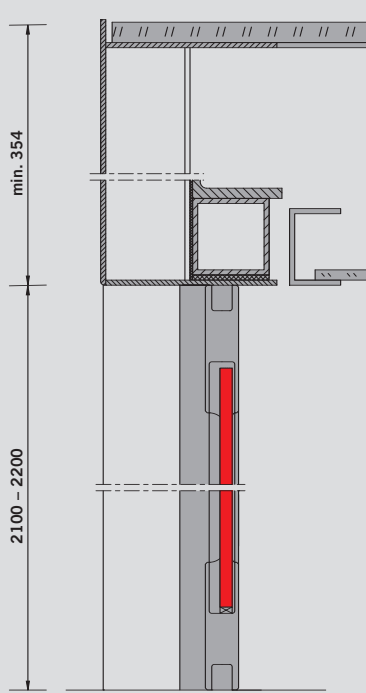
- 4 Screened motor, 3 x 1.5 mm²
- 5 External light control, 2 x 0.75 mm²*
- 6 Group malfunction, 2 x 0.75 mm²*
- 7 Fire detector contact, 2 x 0.75 mm²*

- 8 Power supply line, 230 V/50 Hz, 3 x 1.5 mm²
- 9 External program switch, only as an option 6 x 0.75 mm²*
- 10 Night-/Bank, option, 2 x 0.75 mm²*

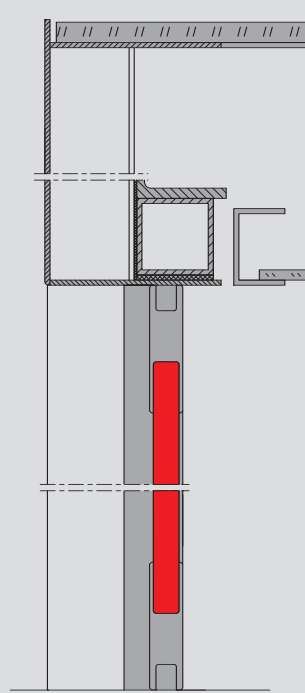
*Control unit cable with numbered leads

All cables have to be supplied by others 5,6,7,9 and 10 are options

Vertical sections

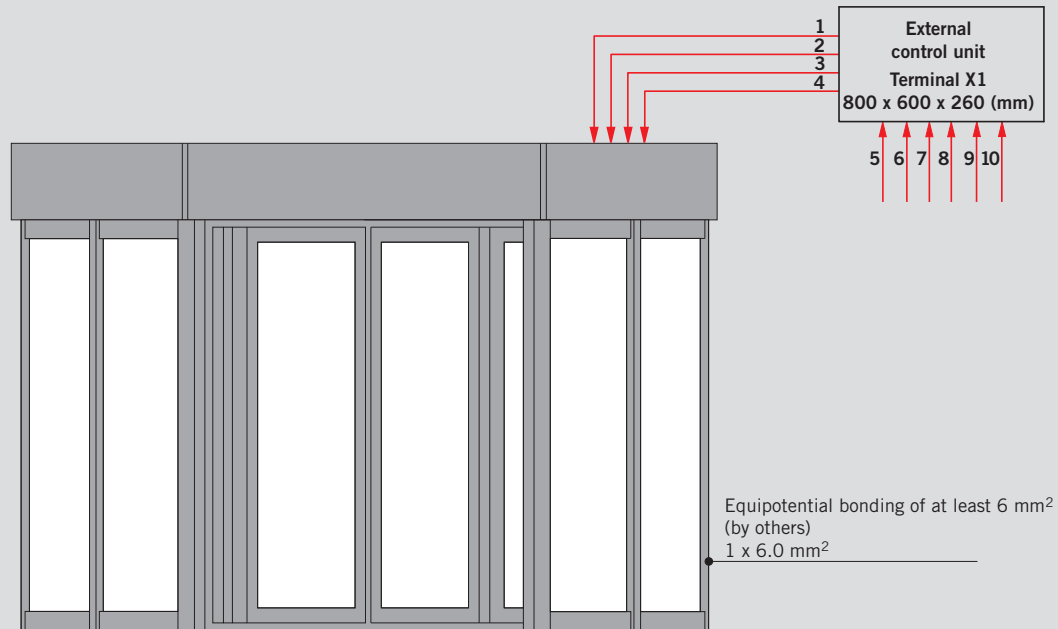


Drum wall with glazing



Drum wall with metal panelling

Wiring diagram



Cable cross sections of up to 50 m

- 1 Control unit cable, 25 x 0,75 mm² without PE*
- 2 Control unit cable, 25 x 0,75 mm² without PE*
- 3 Power supply line, 230 V/50 Hz, 4 x 1.5 mm²

- 4 Screened motor, 3 x 1.5 mm²
- 5 External light control, 2 x 0.75 mm²*
- 6 Group malfunction, 2 x 0.75 mm²*
- 7 Fire detector contact, 2 x 0.75 mm²*

- 8 Power supply line, 230 V/50 Hz, 3 x 1.5 mm²
- 9 External program switch, only as an option 6 x 0.75 mm²*
- 10 Night-/Bank, option, 2 x 0.75 mm²*

*Control unit cable with numbered leads

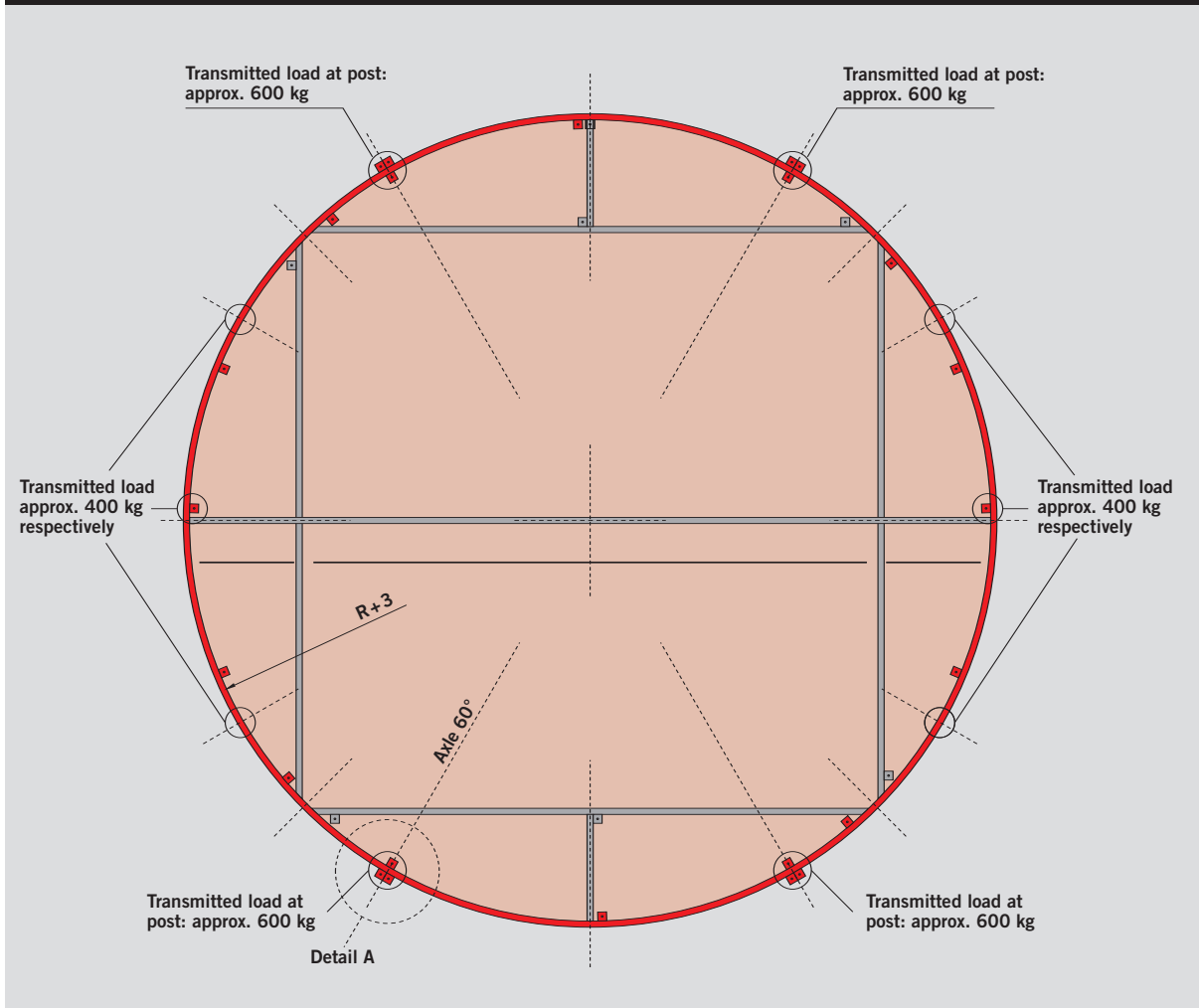
All cables have to be supplied by others 5,6,7,9 and 10 are options

Floor ring

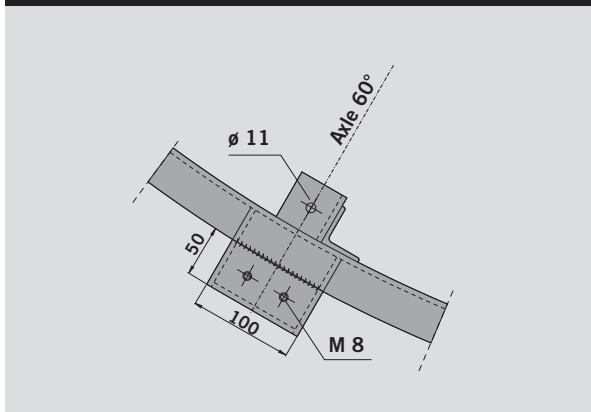
Installation size (internal diameter of door system)	3600	4200	4800
Nominal radius (R)	1800	2100	2400
Floor finish (C)	up to 30		

All dimensions in mm.

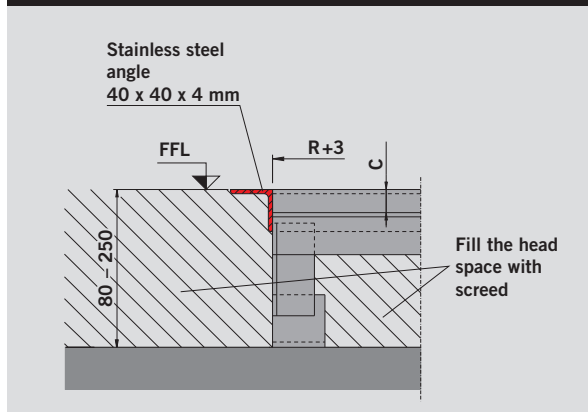
Floor ring KTC-2



Detail A



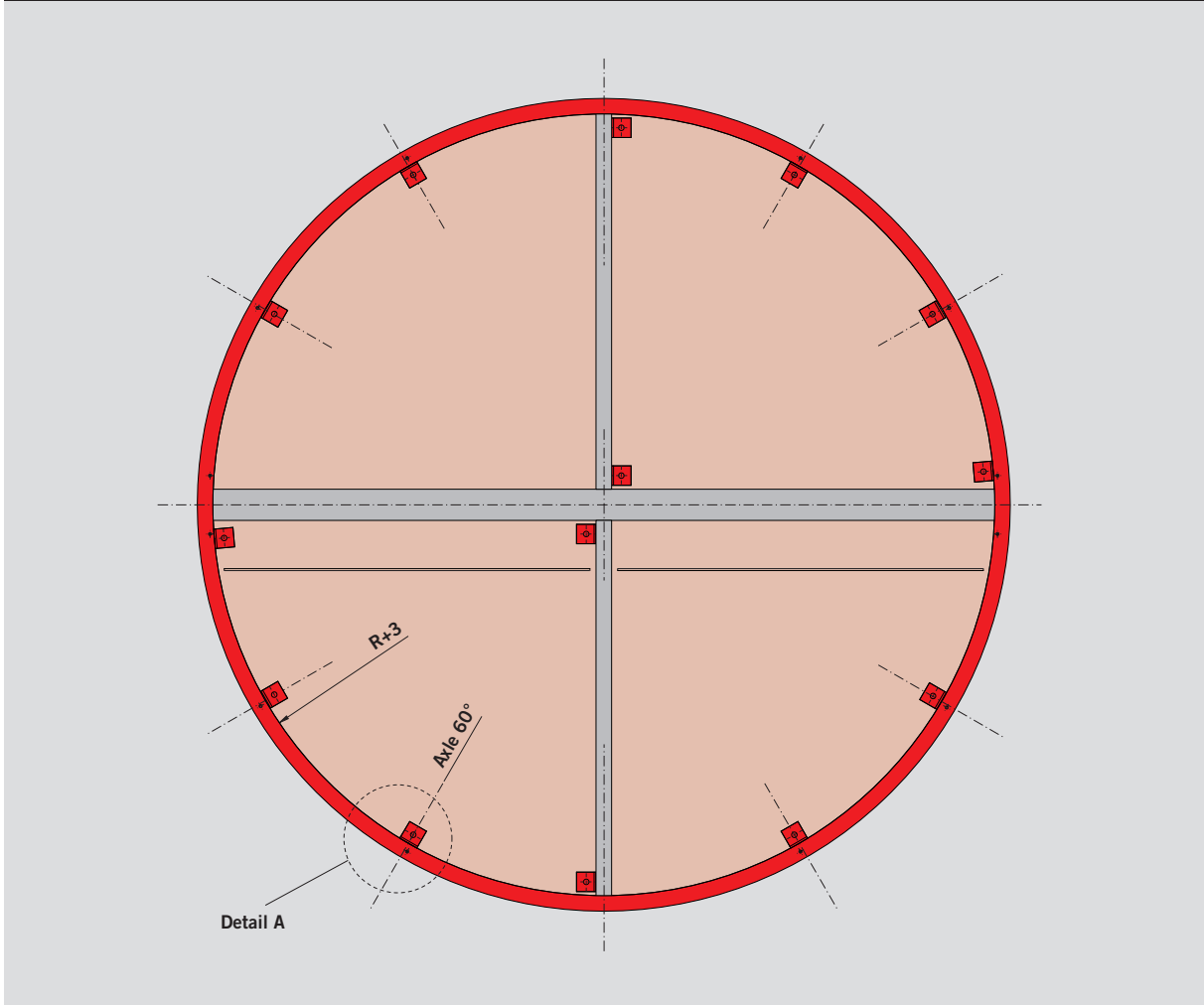
Cross section



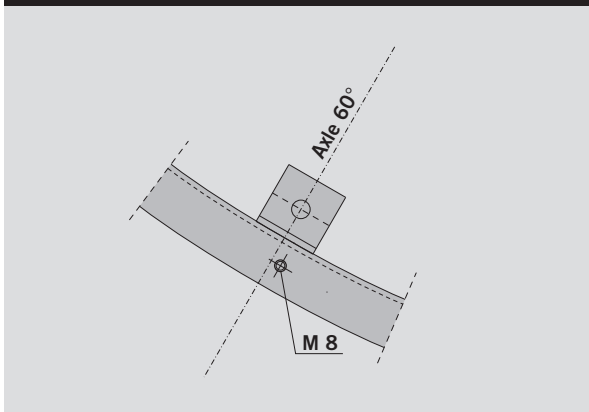
Floor ring

Installation size (internal diameter of door system)	3000	3400
Nominal radius (R)	1500	1700
Floor finish (C)		up to 30
All dimensions in mm		

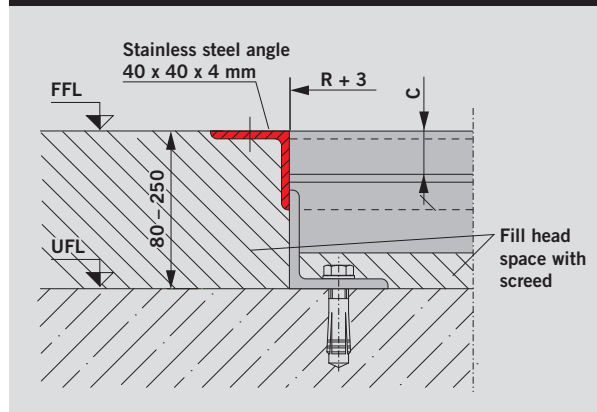
Floor ring KTV-2



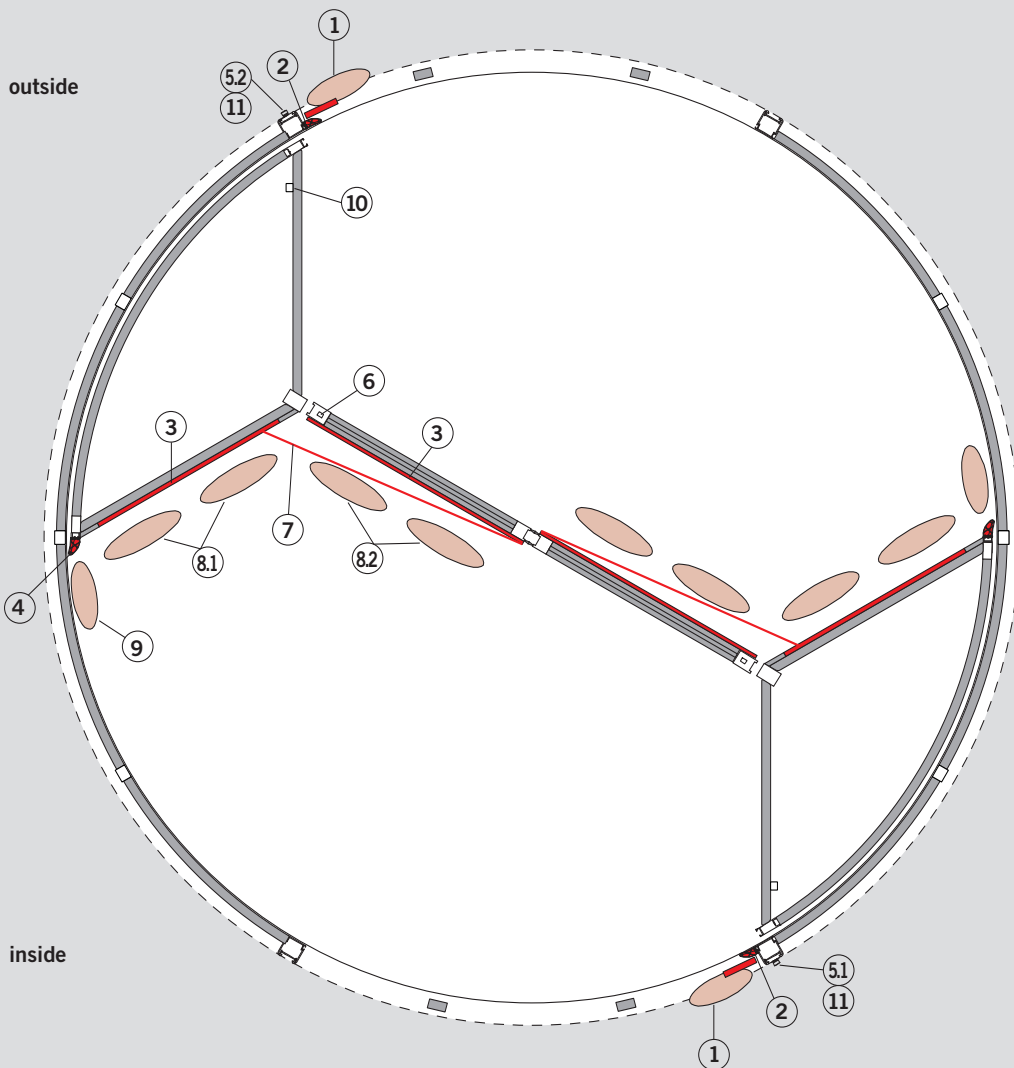
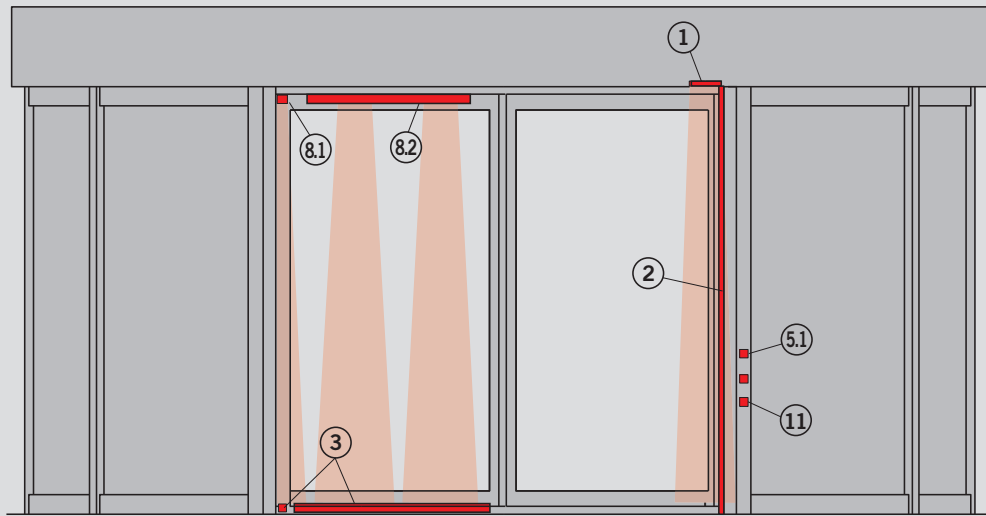
Detail A



Cross section



Safety equipment KTC 2 (external control unit MS 10)



Schematical drawing

Safety equipment

DORMA KTC-2 revolving doors offer a broad range of safety equipment and thus guarantee maximum safety. The main closing edges are equipped with infrared presence sensors and safety contact strips. As the showcase arrives at a point of less than 500 mm from the post profile, the infrared presence sensors are activated in addition to the safety contact strips. The vertical outer edges of the night shield are likewise protected by safety contact strips. The internal area is monitored with the aid of an infrared light curtain. This curtain detects the presence of any

person or object that is moving too slowly and would thus be overtaken by the wings, and will immediately reduce the rotational speed of the operator. If a door wing meets an obstruction, the door is stopped until the obstruction has been removed. All switching paths have a failure control. Additional pre-detection sensors are integrated into the canopy, which scan the movement range in front of the moving night shield. The detection range is located in front of the main closing edge, from the canopy to short above ground level.

Automatic functions/speed limiter

- The automatic offers two adjustments.
 - “Automatic I“: The door stands still. It is started as soon as a person approaches the door system. Following an adjustable period of time the door stops and remains in its starting position.
 - “Automatic II“: The door rotates permanently at approx. 1 rpm. The speed is increased to approx. 3.5 rpm as soon as a person enters the detection range. Once the user has left the detection range, the rotational speed is reduced again.
- The speed limiter is activated by means of a special pushbutton to reduce the speed of the door during passage to approx. 2 rpm.

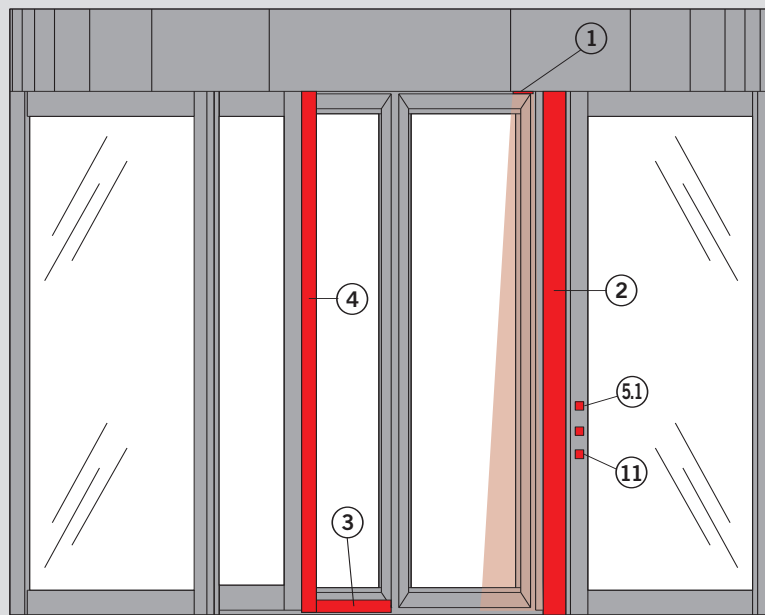
Please note:

The safety equipment has to be selected in accordance with national requirements.

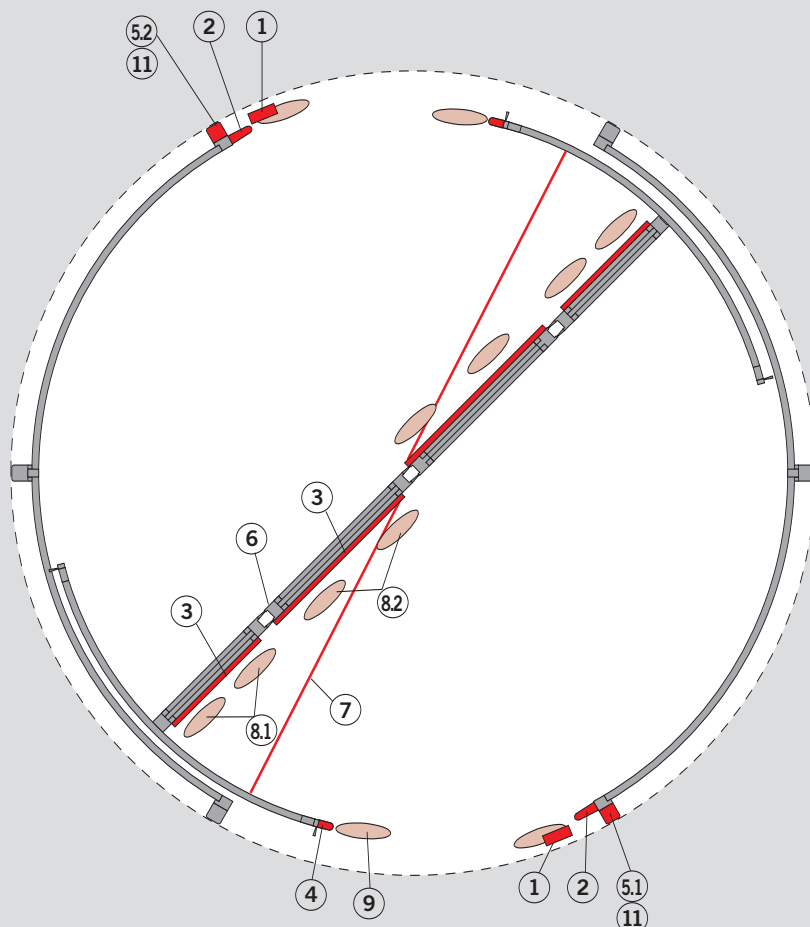
Doors in accordance with DIN 18650 must contain all the below mentioned safety components.

	Function
① Canopy sensors, (top of door post/canopy)	Cycle at low speed/Stop
② Safety contact strip (door post)	Stop
③ Safety contact strip (bottom of wing)	Stop
④ Safety contact strip (leading edge of integrated night shield)	Stop
⑤① Emergency pushbutton (door post, inside)	Stop
⑤② Emergency pushbutton (door post, outside)	Stop
⑥ Limit switch for deflection device (breakout wing)	Stop
⑦ Light barrier (bottom of wing)	Stop
⑧① Top sensor (top of rigid wing)	Cycle at low speed/Stop
⑧② Top sensor (top of breakout wing)	Cycle at low speed/Stop
⑨ Pre-detection sensor (leading edge of integrated night shield/lower ceiling)	Cycle at low speed/Stop
⑩ Limit switch for deflection device (showcase wing)	Stop
⑪ Disabled access pushbutton (post)	Cycle at low speed

Safety equipment KTV 2 (external control unit MS 10)



outside



inside

Schematical drawing

Safety equipment

DORMA KTV-2 revolving doors offer a broad range of safety equipment and thus guarantee maximum safety. The main closing edges are equipped with infrared presence sensors and safety contact strips. The vertical outer edges of the night shield are likewise protected by safety contact strips. The internal area is monitored with the aid of an infrared light curtain. This curtain detects the presence of any person or object that is moving too slowly and would thus be overtaken by the wings, and will immediately reduce the rotational speed of the operator. If a door

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 - “Automatic I“: The door stands still. It is started as soon as a person approaches the door system. Following an adjustable period of time the door stops and remains in its starting position.
 - “Automatic II“: The door rotates permanently at approx. 1 rpm. The speed is increased to approx. 3.5 rpm as soon as a person enters the detection range. Once the user has left the detection range, the rotational speed is reduced again.
- The speed limiter is activated by means of a special pushbutton to reduce the speed of the door during passage to approx. 2 rpm.




Please note:

The safety equipment has to be selected in accordance with national requirements.

Doors in accordance with DIN 18650 must contain all the below mentioned safety components.

	Function
① Canopy sensors, (top of door post/canopy)	Cycle at low speed/Stop
② Safety contact strip (door post)	Stop
③ Safety contact strip (bottom of wing)	Stop
④ Safety contact strip (leading edge of integrated night shield)	Stop
⑤ Emergency pushbutton (door post, inside)	Stop
⑥ Emergency pushbutton (door post, outside)	Stop
⑦ Limit switch for deflection device (breakout wing)	Stop
⑧ Light barrier (bottom of wing)	Stop
⑨ Top sensor (top of rigid wing)	Cycle at low speed/Stop
⑩ Top sensor (top of breakout wing)	Cycle at low speed/Stop
⑪ Pre-detection sensor (leading edge of integrated night shield/lower ceiling)	Cycle at low speed/Stop
⑫ Disabled access pushbutton (post)	Cycle at low speed


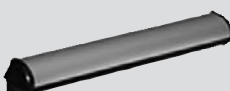
External emergency pushbutton (Option)

Emergency pushbutton	Designation	Specification
 <p>TL-N S55</p>	TL-N S55	Highly illuminated emergency pushbutton panel with visual locking status indication, acoustic and visual alarm via yellow flashlight and integrated alarm serene, sabotage-proof version, behind glass, without frame NO contact: 1, NC contact: 1, maximum load current: 1 A at 24 V DC, flush-mounting, 80 x 80 mm System 55
 <p>NAT 1</p>	NAT 1	Designed to interrupt the automatic movement of the door. Emergency pushbutton 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 center insert. Maximum load current: 10 A at 230 V AC.
 <p>NAT 4</p>	NAT 4	NO contact: 1, NC contact: 1, white frame, for flush-mounting, 80 x 80 mm System 55
	NAT 4	NO contact: 1, NC contact: 1, for surface-mounting, 68 x 68 mm

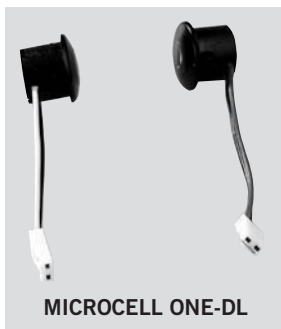
Active infrared safety sensor

Active infrared system designed to safeguard passage areas and secondary closing edges.

Engineered to detect the presence of people and objects.

Active infrared safety sensor	Designation	Specification
 <p>IRIS ONE</p>	IRIS ON	Black
Infrared safety sensor	Designation	Specification
 <p>4SAFE</p>	4SAFE	Active infrared sensor with background evaluation

Infrared light barriers



Designation

MICROCELL ONE-DL

Specification

Infrared light barriers consisting of a transmitter and a receiver with round amplifier.

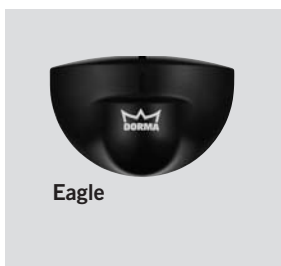
Radar motion detector (Option)

The user-friendliness of automatic doors depends a lot on what kind of activator is used and on its design. The DORMA sensor range offers the flexibility that is

required for the different fields of application in connection with reliability and the highest level of user friendliness. Furthermore it provides an effective detec-

tion of moving people or objects in order to activate (open) automatic doors.

Radar motion detector



Designation

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

Accessories for Eagle detectors

Rain protection cover, transparent

Program switch

Program switch



Designation

Program switch Standard
lockable,
mounted at door post



Program switch
Lockable via Euro profile
half-cylinder (optional)



Box for surface-mounting
for program switch
for Euro profile half-cylinder (optional)



Box for flush-mounting
for program switch
for Euro profile half-cylinder (optional)

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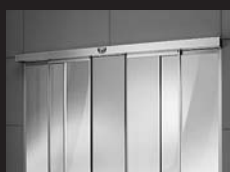
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Door Control



Automatic



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