Automatic sliding door SLX/PSX system

The moving solution for high-spec entrance needs

Open the door to your visitors

A welcoming entrance creates a friendly reception, whether in hotels, restaurants, fashion houses and boutiques, wellness and spa facilities or elsewhere.

Barrier-free convenience
Automatic door access offers a better quality of life and convenience for all. In and out. Barrier-free. Busy parents with children in arms, travellers with their suitcases, wheelchair users, persons with walking aids and fully-laden shoppers alike all appreciate the contact-free opening of doors and the freedom of movement that this provides. And just imagine how much more hygienic public toilets would be if hands never came into contact with door handles.

Creative design
Structural specifications with respect to modern and attractive design, colour, translucent elements or customised door sections can all be catered for with Kaba sliding-door systems. The wide range of available designs and functions combine to provide flexible integration into virtually any overall architectural concept.

Security
The feeling of security is reinforced by such organizational functions as locks that engage each time a door is closed, the installation of anti-intruder elements and combinations of access-control system designed to restrict entry to authorized persons only, along with door systems that ensure a safe exit in the event of an emergency.

Well-being
The smooth automatic closing of doors cuts off troublesome draughts of air and induces a sense of well-being. An elegant meal in the romantic ambiance of a favourite restaurant is pure enjoyment, safe in the knowledge that the reliable closing of the service door will keep all unwanted noise and kitchen smells out of the well-appointed dining area.

The universal, multi-function SLX sliding door

Automatic, obstacle-free doors for areas of high pedestrian traffic, such as shopping centres, administration buildings, hospitals, railway stations, airports, pharmacies, food stores and similar premises.

The SLX sliding door offers the basis for a whole range of possible configurations. The wide selection of different functions allows access to be optimized to match pedestrian traffic flows.

Convenient solutions for all structural situations

Flexible Kaba door systems allow automatic solutions to be incorporated into any access concept, matched to virtually any type of structural situation. The wide range of available products includes linear, curved and angular configurations, plus telescopic sliding doors – all designed to allow smooth-flowing access.

Self-contained or in combination with other items

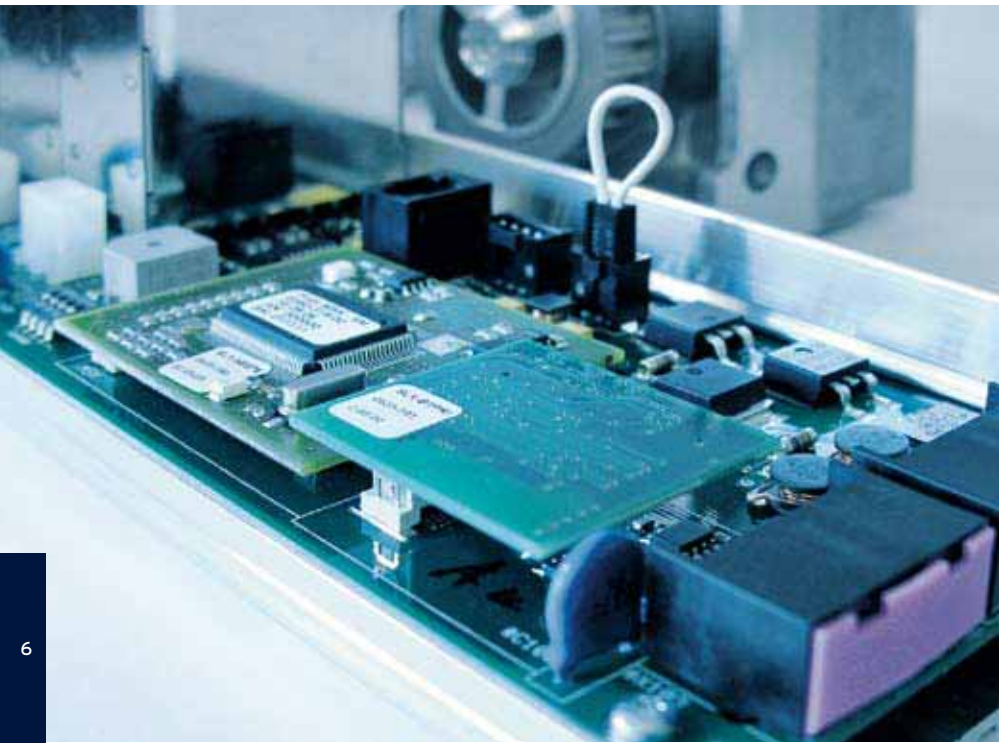
When combined with our PSX profile elements, the SLX door system offers a basis for customized automatic door operation, tailored to match the individual structural characteristics of the building concerned. The SLX drive system is also ideal for use in combination with standard doors from other suppliers.

More than just an entrance...
Optional equipment for extra functionality. These items allow you to meet the need for such features as intruder prevention or use in laboratory clean-rooms. Even heavyweight doors can be automated without problem. Hermetic sliding doors are suitable for use in operating theatres and laboratories, and in the food and pharmaceuticals sectors.

Convenient for everyday use, reliable in an emergency
Automatic emergency exits and fire- and smoke-proof doors guarantee total convenience for everyday use, coupled with maximum performance and safety in the event of an incident.

Tried-and-tested for safety
Our automatic doors meet the most exacting specifications when it comes to quality and safety. Kaba door systems meet all the applicable norms and standards and are TÜV-approved.

SLX sliding-door technology: the main features



Reliable technology guaranteeing dependable opening and closing sequences.

The modular, high-power system
The SLX sliding door drive unit, integrated in a covered drive case, is of modular design. This powerful system, with its high-performance crown-gear transmission, operates even heavy-weight doors with smooth, reliable efficiency. A special runner surface helps ensure quiet operation.

Intelligent microprocessor control
The various electronic system components are linked to each other via a communications bus (CAN bus). Working in conjunction with an integrated automatic reversing/stopping mechanism, the microprocessor system guarantees smooth and reliable operation.

Emergency operation
If there is a power failure, the (optional) battery pack guarantees interruption-free operation for about 30 minutes. Wake-up switch: Opens the door and leaves it open if the battery becomes discharged before power is restored.

Emergency opening with rubber cord (FR CO 48)
If there is a power failure, the built-in rubber cord opens the door and leaves it open You are recommended to use this system in combination with battery backup.

Fold-up casing
The integrated folding and locking mechanism in the drive casing allows it to be held open for ease of maintenance.

Electromechanical locking mechanism with manual release
The carriage-locking mechanism can be overridden in emergencies by means of the manual release built into the drive casing. This can be installed, for better access, into an embedded wall connection profile and actuated with a push-button or key.

Options
Extra functions can be added by the use of system components incorporated on the "plug and play" principle.
In the case of components that are not CAN bus-compatible, connection can be provided for such items as push-buttons, key-operated switches, indicator lights, doorbells and alarms, etc.

Ideally combined with the ingenious Kaba PSX system of aluminium profiles

Integrated movement and security detection Combi-Scan.

Multiple advantages
The Kaba PSX aluminium profiles that surround the door are available with a range of surface finishes that are designed to allow their use with filler elements made of glass, aluminium or plastic with thicknesses of up to 24 mm. The specified safety clearances and standards established in DIN 18650 are observed in order to prevent cutting and crushing injuries.

Flexible integration into the building's architectural features
The wide range of possible configurations allows you to design your doorways virtually at will, for perfect integration into the overall concept of the structure. Suspension profiles integrated into the drive system let you take full visual advantage of glass elements.

Simple to install in existing buildings
As an extension to standard partition- and wall-installation, the robust self-supporting frame construction offers a stand-alone solution with the optional addition of a fanlight. The reduction in laborious building-modification work considerably simplifies the task of installing freestanding automatic sliding doors in building frontages.

Door panels and glazing
- Safety glass (ESG, VSG), insulated glass, 6 mm to 24 mm thick
- Panels made of plastic, aluminium, wood

Additional elements for glass wings
- Raising elements for plinth, covering
- Parapet strip
- Printed or etched glass

Surface of aluminium profiles
- Natural anodized
- Selection of colour-anodized finishes
- RAL colours

Program and function settings

BEDiX wireless control unit
This wireless control unit lets you select operating modes and configure parameters. The display interface helps keep operation simple, with its clear icons and logical menu-based controls available in various languages. Operating messages and diagnostic indications are generated as text. A personal password prevents unauthorized access. The BEDiX unit can be located wherever the user requires, or placed in an optional wall holder.

C-BEDIX hard-wired programming keypad
This hard-wired programming keypad is designed for installation in a central control panel. It is configured for Automatic – Manual – Night – Exit – Open door operating modes.

Selectable operating modes

Automatic The door actuates whenever the opening element generates an impulse. The system is not locked.

Night The system is locked. The command to open can only be generated by the key-operated switch or corresponding F-key device.

Open The door opens and stops.

Manual
The system is released. The sliding wings can be moved manually.

Exit The door functions in "one-way" mode, i.e. only one opening element (e.g. the one on the inside) is activated and triggers the door opening. (Shop closing-time mode). The system is locked.

F-Key mini hand-held device
Each F-Key unit can be programmed with a selectable door function. This can allow, for example, contact-free night access outside normal business hours, or access to areas that are normally kept locked.

The latest in sensor technology for door operation and personal safety

Putting your safety first

Personal safety is of utmost importance where the operation of automatic doors is concerned. The presence of persons around the door activates its safety elements, preventing closure of the door. Cutting and crushing injuries are prevented by the design engineering. The concept of safe operation also relies on correct installation and commissioning, along with regular inspections and proper maintenance of the system.

Scan pulse generator protects as it opens

The Combi-Scan with fan-shaped safety scanning area generates the impulse that opens the door, while ensuring the safety of persons and objects in the door area. The scanning safety curtain is self-monitoring to ensure personal safety, and tests itself prior to every door closure. Various features can be configured to match the situation, including obstacle detection, scanning for direction of movement and the filtering-out of passing traffic to prevent unnecessary opening.

Monitoring of the secondary closing edges during door opening

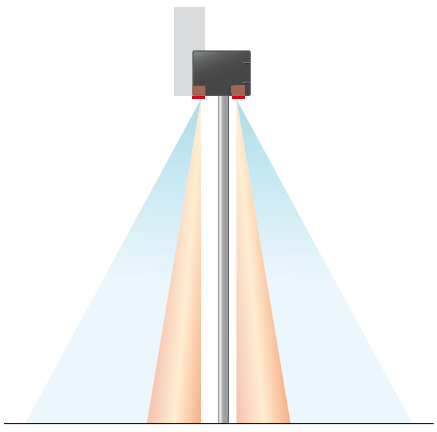
The Side-Scan system incorporated into the SLX unit is designed for maximum safety around the sides of the door. It prevents fingers and hands from being trapped by the doors as they open. The use of optional protection wings prevents people from depositing objects in this area.

Power limit

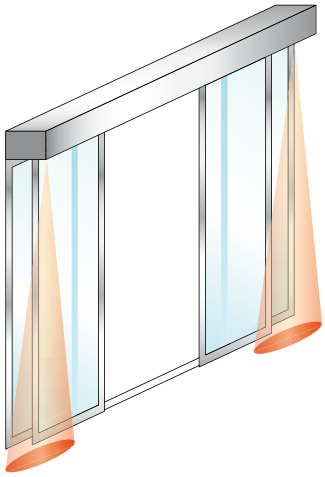
The dynamic forces established in DIN 18650 are not exceeded if the opening door wing encounters an obstacle.

Other pulse generators

Other control elements can be used to activate the door-opening mechanism. These include mini F-Key hand-held remote devices, push-buttons, contact-free proximity switches, emergency OFF contacts, key-operated switches and access-control systems.



The Combi-Scan door sensor device is fitted to the inside of the drive mechanism. On the opposite side, you can choose whether to fit it to the supporting profile of the drive mechanism, the false ceiling, the wall or the normal ceiling.



You can choose to fit sensors or protection wings to help prevent trapping as the door opens.

Automatic door systems for emergency exits

The SLX Break-Out door system: Designed to provide convenient automatic access in day-to-day situations, while guaranteeing a safe exit for occupants and easy entry for emergency services in the event of an incident. The total opening system allows the door to be opened across its entire width for the entry or exit of bulky items.

The multi-functional SLX Break-Out door system

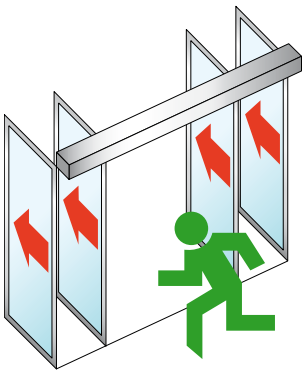
Designed to provide convenient, barrier-free access in day-to-day situations, while guaranteeing a safe exit for occupants and easy entry for emergency services in the event of a fire: The SLX Break-Out sliding-door system, with its elegant, transparent design, offers multi-functional performance. If an incident arises, the sliding doors – which are fitted with hinges – can be opened manually with the same swivel action as a normal door to provide a panic exit for building occupants and access for the emergency services.

Practical full-width opening system

The swivel-action sliding doors and side panels can be moved to the side on hot, sunny days to take full advantage of the width of the doorway. This also allows the easy entry and exit of bulky items or vehicles.

Automatic doors in redundant execution

Redundant systems for automatic door opening are equipped with master/slave backup units. All system components are monitored. This ensures that at least one system is always available to operate the emergency opening mechanism in the event of an alarm being activated. The installation of these backup elements does not affect the outer appearance of the doors.



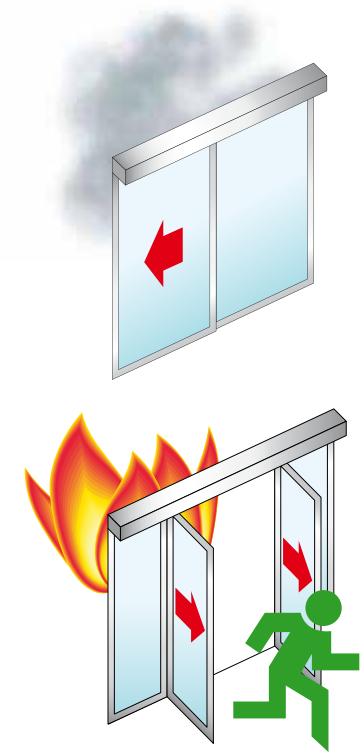
Reliable smoke and fire screen doors, at the same time an emergency exit

Automatic sliding door with smoke-screen function

This door lets you enjoy all the usual convenience of an automatic sliding door in day-to-day use. If a smoke alarm is activated, the door closes to prevent the smoke from spreading to the rest of the building. The door can be operated with an emergency open button in the event of an incident. The glass door panels, which are held in place by slim aluminium frame sections, are fitted with special all-round seals. Other applications: The seals provide extra protection from unpleasant smells and noise.

Automatic fire door: A single door system with three functions

The Kaba automatic sliding fire-door ensures three functions in one:
It provides convenient, barrier-free access in day-to-day situations, while offering robust flame protection and entry for the emergency services in the event of a fire. Its thermal shield offers protection for 30 minutes, thus delaying the spread of fire. If a fire alarm is activated, the automatic sliding fire-door can be opened manually like a conventional swing door in order to provide an emergency exit. Built-in closing mechanisms ensure that the door shuts again to provide a fire barrier once it has performed its emergency-exit function.



Automatic sliding smoke- and fire-screen doors provide easy contact-free access in day-to-day situations, while preventing the spread of flames and smoke if a fire does break out.

Greater safety, despite transparent appearance

The intruder-resistant automatic sliding door

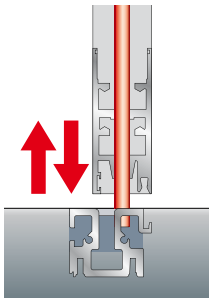
It looks like a conventional, although elegantly-designed, glass sliding door. However, a series of intruder-resistant components installed in addition to the standard configuration provide a great deal of extra protection. These include a concealed automatic locking mechanism built into the door panel, which is made of reinforced safety glass, and a flush floor guide to help prevent the door from being forced to gain entry to the building.

The multi-point locking mechanism provides extra security

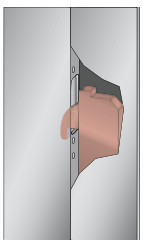
The multi-point locking mechanism ensures fast and reliable locking and unlocking of the door. The locking system, available in both manual and automatic version, is designed to help prevent the door from being forced with a crowbar or similar implement.

The automatic door with anti-intruder components offers better WK2 protection against forced entry.

Automatic sliding door with multi-point locking mechanism integrated into the door panel.



Embedded floor lock for door wing.



Double interlocking of door panels, built into vertical profile section.

Manual locking/ unlocking by means of key or doorknob.

Hygienic, sealed and functional

Operating theatres can be hermetically sealed – thanks to the SLX-D door system.

The Kaba climate-control door comes with an automatically activated air barrier to limit the entry of cold or polluted air from the outside.

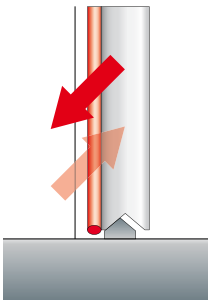
Contact-free opening of these automatic doors avoids the need to touch door handles, thus providing maximum hygiene. This in turn helps minimize the spread of infection in hospitals, laboratories or public toilets.

The hermetically-sealed sliding door for clinically-clean rooms

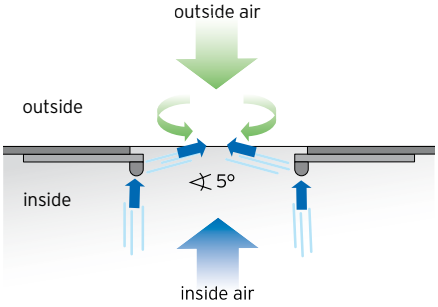
The SLX-D universal drive system is ideal for use in operating theatres, where tightly-shut doors are vital for ensuring maximum air hygiene. Other applications include soundproof access protection for music rooms, meeting rooms and offices.

The Kaba climate-control door

The climate-control door is ideal for entrances with heavy pedestrian traffic, or where lack of space prevents the use of wind-protection or porch systems. The horizontal air curtain helps prevent undesired fluctuations in air temperature and quality, while maintaining a pleasant indoor ambiance.



In the final phase, the door panel lowers into its seal to form a tight closure.



The horizontal air curtain forms a barrier between the indoor and outdoor air.

Range of applications and basic information for SLX drive-system technology

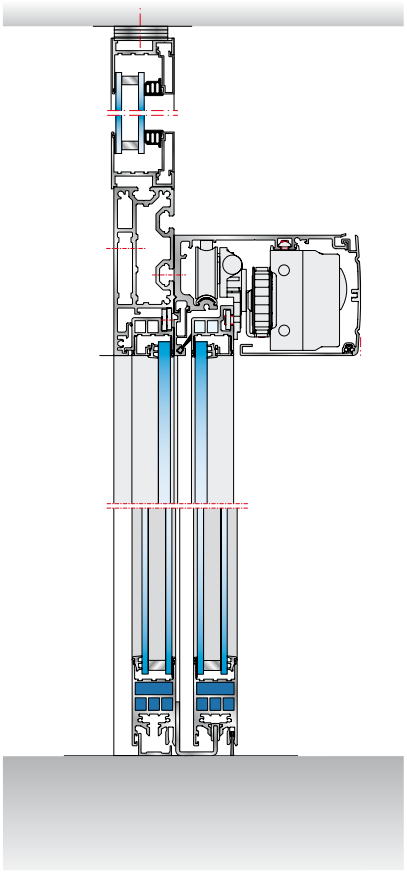
Range of application

		bi-parting	single-winged	4-winged telescopic	2-winged telescopic
Sliding door SLX	Clearance opening width LW	800 – 3000 mm	700 – 2000 mm	1200 – 4000 mm	1100 – 3000 mm
	Max. wing weight	2×150 kg	150 kg	4×100 kg	2×150 kg
SLX-V for heavy wings	Clearance opening width	1000 – 3000 mm	800 – 3000 mm		
	Max. wing weight	2×240 kg	1×400 kg		
SLX redundant	Clearance opening width	1000 – 3000 mm	1050 – 2000 mm	1400 – 4000 mm	1400 – 3000 mm
	Max. wing weight	2×120 kg	150 kg	4×60 kg	2×120 kg
	Clearance height	Optimum 2100 m, possible up to 3000 mm			
Options SLX					
Escape way door SLX Break-Out	Clearance opening width	1000 – 2500 mm			
	Max. wing weight	2×120 kg			
	Max. clearance height	2050 – 3000 mm			
Fire-screen door SLX/SLX-V	Clearance opening width	1100 – 2000 mm	700 – 1300 mm		
	Max. wing weight	2×150 / 240 kg	1×150 / 400 kg		
SLX-D hermetic door	Clearance opening width		700 – 2900 mm		
	Clearance height		optimum 2100, possible up to 3000 mm		
	Max. wing weight		120 kg		
Options SLM					
Smoke-screen door SLM CS_{200}	Clearance opening width	1200 – 2600 mm	800 – 1400 mm		
	Max. weight	optimum 2100 – 2500 mm max. 3150 mm			
Intruder-resistant door SLM WK2	Clearance opening width	1000 – 2000 mm	700 – 1000 mm		
	Max. clearance height	2000 – 2750 mm	2000 – 2750 mm		
Kaba climate-control door SLM PS90	Clearance opening width	800 – 2200 mm	700 – 2200 mm		
	Max. height	2500 mm	2500 mm		

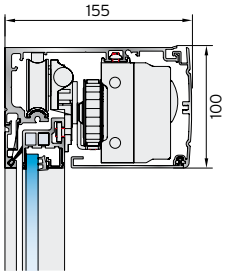
Technical specifications drive system SLX

Opening/closing speed	0.03 – 0.8 m/s
Hold-open time, day: adjustable time until the door closes	0 – 45 s
Mains power connection	230 VAC, 50 Hz 115 VAC, 60 Hz
Stat. drive power	max. 150 N
Protection rating	IP 23
Control voltage	24 VDC
Power consumption	280 W
Ambient temperature	–15 – +50 °C

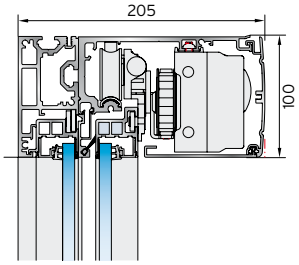
. . . and the Kaba PSX aluminium-profile system



Robust self-supporting frame construction with optional fanlight, for freestanding drive-system installation and easy integration into existing frontages.



SLX single-winged and bi-parting: Systems without side panel



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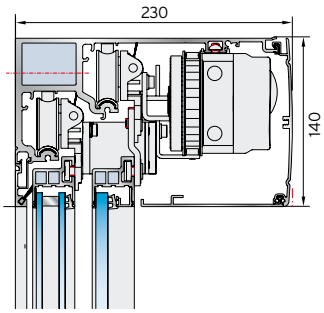
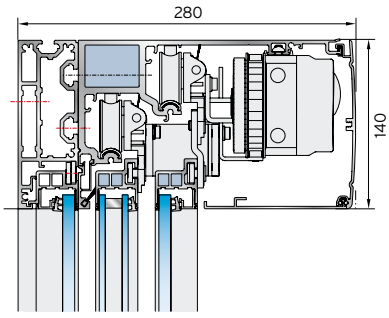


SLX two- and four-winged, telescopic: Systems without side panel



SLX two- and four-winged, telescopic: Systems with side panel

Dimensional technical drawings are available, showing a wide range of further configuration variants and options.

Your regional specialist for automatic doors