FAAC
Simply automatic.

AUTOMATIC DOORS CATALOGUE

EN16005

Complies with European Standard EN16005 regarding the safety in use of automatic doors.

energy saving

Its innovative “Energy Saving” device enables it to identify the direction of transit and optimises opening / closing times perfectly to avoid unnecessary air dispersion, even in the event of cross traffic. This device allows energy savings to be made and optimizes the temperature changes inside the room and next to the doors.

safe zone

green tech

FAAC DEFINES SAFE ZONE AND GREEN TECH AS FOLLOWS:

SAFE ZONE The systems that make it easier to produce automation systems that comply with the requirements of the current European Directive on safety (DM 2006/42/EC).

GREEN TECH: The patented devices or technological mechanical innovations that enable the energy consumption of the automation systems to be reduced.

INDEX

AUTOMATIC DOORS

Open to every possibility.

Discreet, elegant, never bulky and always safe, the FAAC range of automatic doors offers infinite solutions, all based on the technological innovation that has always set FAAC products apart in the world of automation.

The FAAC automatic door models have been designed to facilitate transit, but that's not all. They also take up minimal space, and are extremely silent and adaptable.

Functionality and so much more.

Opening a door unnecessarily wastes energy when the external and internal climate conditions are very different.
The **A1400 AIR** automatic door is equipped with the innovative ENERGY SAVING system that reduces heat exchange to a minimum.

This automated solution recognises when people wish to enter when they approach the door, preventing the constant opening and closing, activating the door only when actually necessary.

When combined with the **AIRSLIDE** system, the special air curtain integrated in the door ensures greater insulation between the indoor and outdoor environment, while also providing protection from dust, pollution and insects.

Perfection in every respect.

From safety to energy savings, everything is automatic. All **FAAC** solutions for automatic doors comply with **EN16005**, but that's not all. They are technologically advanced both in terms of safety and energy savings.

Open to any requirement.

Technology and harmony are finally in step with one another.
When you need a sliding door and require high aesthetic standards, there is only one choice: the **A1000** automatic door is able to meet any architectural requirement, and at the same time guarantee the superior levels of performance and reliability offered by a FAAC solution.
When space is limited and a sliding door is not feasible, FAAC offers two types of automatic door: **SF1400** and **GBF1500/1600**.
SF1400 is a folding door which enables all of the passage opening available to be used, and is also ideal for escape routes. As such, the features of this door render it suitable for all high traffic locations.

The guides, which can be fixed directly to the existing floor without having to modify it, make

the **GBF1600** quick and easy to install. In addition, the floor-embedded guides of the **GBF1500** ensure greater strength and allow even large leaves to be moved in complete safety.

When you need to automate any type of swing door - even the heaviest and most difficult models, FAAC has drawn upon the technological expertise and innovation that have characterised the company for more than 50 years.
The ability to open the door both outwards and inwards and the array of adjustment functions make the **950N2** and **A951** the ideal automated solutions for all swing doors.

FAAC provides automation systems for pre-existing doors along with full door solutions which can satisfy all architectural and stylistic needs.

Entrance reserved for design.

Flair, lightness and ease of use, in full compliance with the standards: these are the main features of the **TK20** reduced section profile door solutions created specifically to combine the advantages of an automatic sliding door with the appeal of a refined and innovative design.

Large size, enormous advantages.

TK50, door solutions with increased section profiles are distinguished by an exceptional degree of solidity, a feature that makes them perfect when installing an automatic door in high traffic areas, where doors are often subject to knocks from people and objects. Larger profiles are particularly suitable when doors which comply with key standards are required, such as mechanical breakout escape routes and which can return to their original position in case of accidental knocks, with no need for specialised personnel, guaranteeing continued use.

SLIDING DOORS

A1400 AIR RD

Automation for sliding doors on escape routes

MADE IN ITALY

The future is already here

The first automation system for sliding doors designed to meet the market requirements and designed to protect our environment. The A1400 AIR RD has been designed to be installed along escape routes in compliance with the European Norm EN16005, EN 13849-1 Pl. "d" Cat. 3 and it is TÜV-certified.

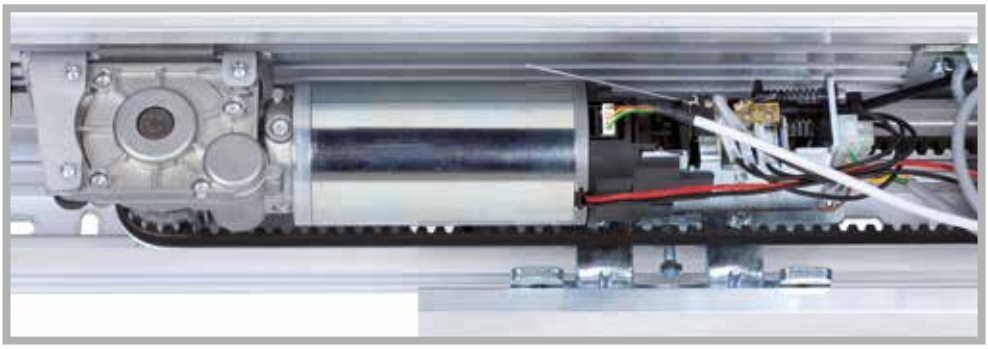
Thanks to its innovative "Energy Saving" device, it recognises the direction of transit and optimizes the opening/closing time, thereby avoiding unnecessary air dispersion, even in the case of cross traffic. This device allows energy savings to be made and optimizes the temperature changes inside the room and next to the doors. And all this in total safety.

A1400 AIR RD is the automation system that can be customized and composed according to the technical and architectural requirements of the customer. Its two types of cover, the exclusive leaf attachment systems and the various leaf profiles that can be used make it possible to achieve the best technical and architectural solution.

Designed to operate at best in any condition and in any environment, it is the ideal solution for technicians who wish to save assembly time, by rationalizing inventories for the final customer who will have full access to a product that is personalized, ecological, reliable, safe, technologically advanced and above all that will pay for itself over time.

TECHNICAL SPECIFICATIONS

Power supply	115/230 Vac - 50 /60 Hz
Max. power	140 W
Use frequency	100%
Max. leaf thickness	65 mm
Motor	36 V ⎓ with encoder
Auxiliary motor	36 V ⎓
Max. accessories load	1 A - 24 Vdc
Drive type	Electro-conductive toothed belt
Opening speed adjustment	10 - 75 cm/s (1 leaf) - 20 - 150 cm/s (2 leaves)
Closing speed adjustment	10 - 75 cm/s (1 leaf) - 20 - 150 cm/s (2 leaves)
Partial opening adjustment	5 - 95% of total opening
Pause time	0 - 30 s or Energy Saving function
Night pause time	0 - 240 s
Encoder	standard
Safety sensor monitoring (EN 16005)	standard (may be bypassed)
Low Energy movement (EN 16005)	standard (may be bypassed)
Ambient operating temperature	-20°C + 55°C
Protection rating	IP 23 (indoor use only)
Compliance with standards	EN 16005; EN 13489-1 Pl "c" CAT.3; EN 13489-2; EN 60335-1; EN 60335 -2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3 EN 61000-6-2; EN 61000-6-3



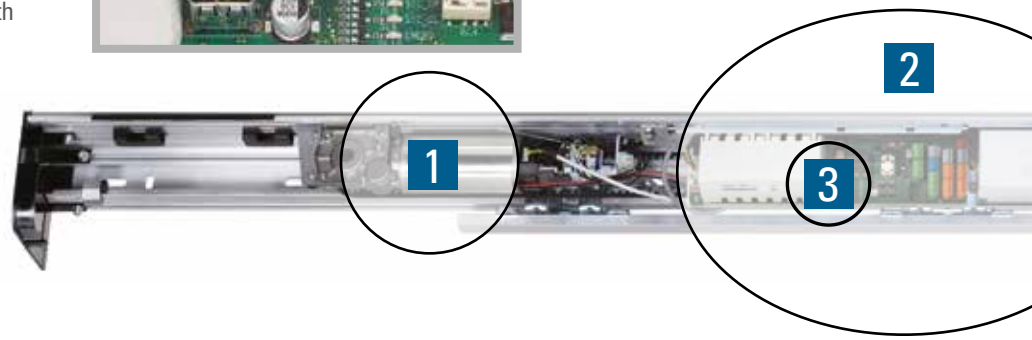
1 Motor with electric lock

2 Control unit with switching power supply

3 USB port for updating and exchanging configuration data

Automatic adjustments

Opening and closing position determination.
Ideal speed, acceleration and deceleration selection.
Safety sensor monitoring (EN16005)
Anti-crushing safety device in compliance with EN16005.



Accessories

Button photocell.
Monitored infrared sensor EN16005.
Monitored sensor microwave radar EN16005.
Profiles for attaching glass leaves.
Electro-mechanical motor lock with manual release.
Motor lock monitoring.
Emergency batteries. Supplied for opening according to EN16005.

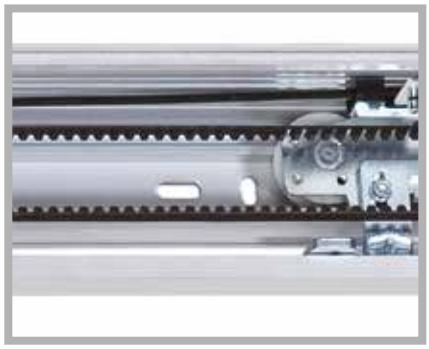
Compatible with the FAAC TK20 and TK50 series profiles

safe zone green tech TÜV SÜD energy saving

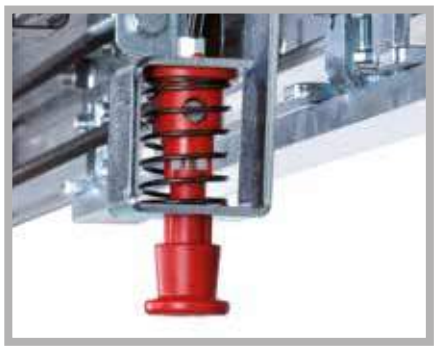
Automation for sliding doors on escape routes

4 Sliding carriages

Carriages with plastic wheels on a sliding track made of special aluminium alloy.
Brush for cleaning the sliding track.



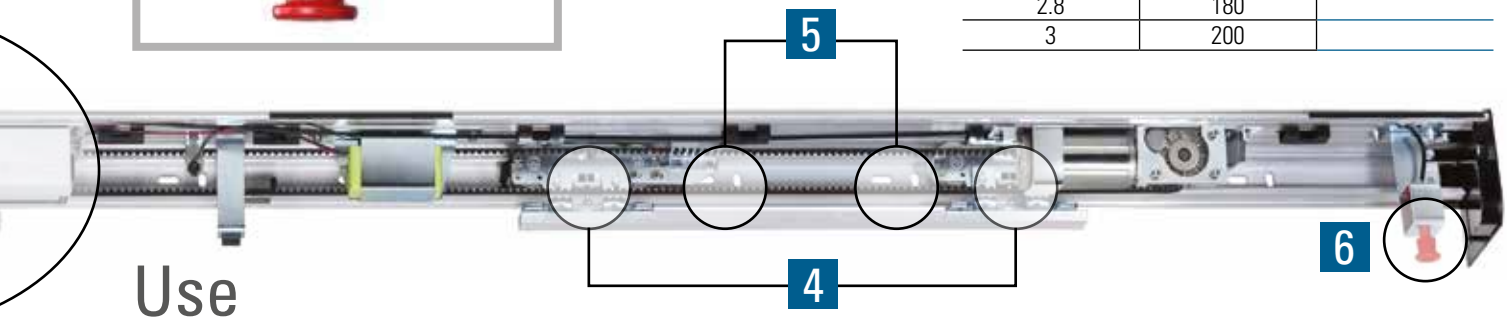
5 Slots for fast mechanical installation



6 Manual release with knob

*** Max. leaf weight**

Single leaf		Double leaf
L [m]	Max weight [Kg]	120 [Kg]
≤ 1,4	200	
1.6	180	
1.7	150	
1.8	130	
2	120	
2.2	125	
2.4	140	
2.6	160	
2.8	180	
3	200	



Use

Model	Leaf	Passage opening (mm)	Max. leaf weight (kg)*	Self-supporting transom
A1400 AIR RD 1	single	800-3000	200 Kg	NO
A1400 AIR RD 2	double	900-3000	120 + 120 Kg	NO
A1400 AIR A RD 1	single	800-3000	200 Kg	YES
A1400 AIR A RD 2	double	900-300	120 + 120 Kg	YES
A1400 AIR RD T 2	single telescopic	1100 - 3000	110+110	NO
A1400 AIR RD T 4	double telescopic	1400 - 4000	60+60+60+60	NO
A1400 AIR RDA T 2	single telescopic	1100 - 3000	110+110	YES
A1400 AIR RDA T 4	double telescopic	1400 - 4000	60+60+60+60	YES

SDK EVO PROGRAMMING KEYPAD

Main functions

Manual (only by key or security code EN16005)
Night (only by key or security code EN16005)
Automatic

One way
Partial one way
Partial opening
Open
Reset and setup

User and installer access password entering
Opening speed adjustment
Closing speed adjustment
Pause time adjustment

Diagnostics display
Anti-break-in function management
Anti-crushing adjustment
Weekly calendar management

Energy Saving enable
Battery kit and motor block management
I/O programming maintenance cycle notification
Display the number of cycles performed
Operation inhibition by jumper or key combination

LK EVO FUNCTIONS KEYPAD

Main functions

Manual
Automatic
One way
Reset e setup

Open
Partial opening
Night

Combinations of flashing LEDs indicate the cause of the door alarm.
Operation inhibition by jumper or key combination

KS EVO KEY FUNCTION SELECTOR

Main functions

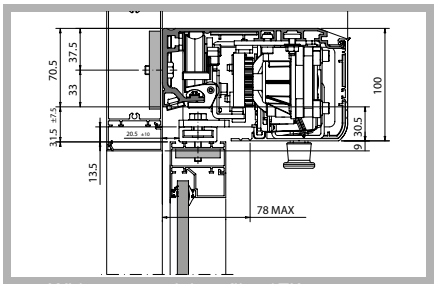
Manual
Automatic
Night

Open
One - Directional
Partial opening

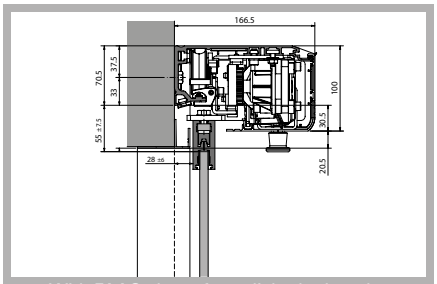
Operating function selection: using a key with led indication of the selected function.
Diagnostic: trough a combination of flashing leds

The right solution for all your needs

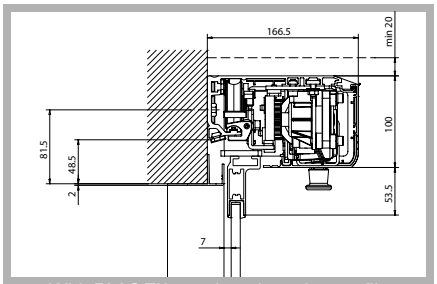
Solutions with cover h 100 mm



With commercial profiles / TK50

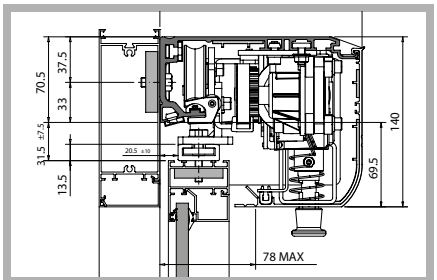


With FAAC clamp for polished edge glass

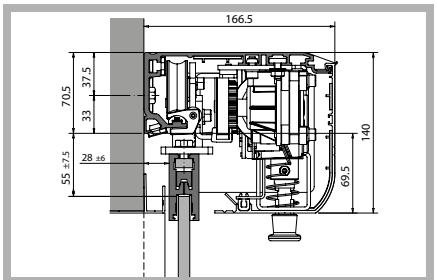


With FAAC TK20 reduced section profiles

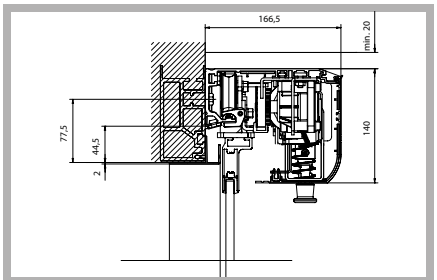
Solutions with cover h 140 mm



With commercial profiles / TK50

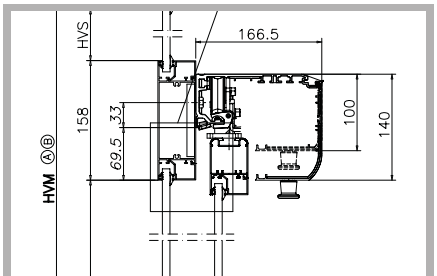


With FAAC clamp for polished edge glass

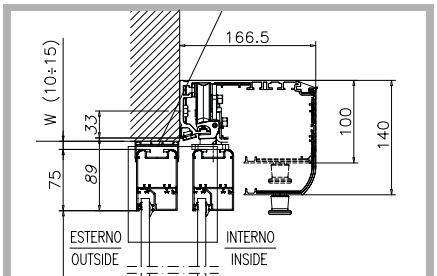


With FAAC TK20 reduced section profiles

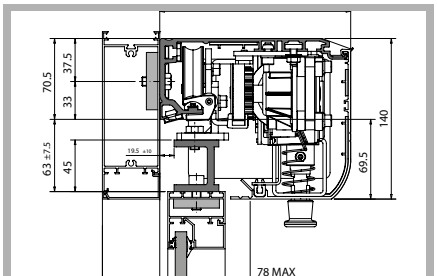
Solutions with special versions h 100 mm and h 140 mm



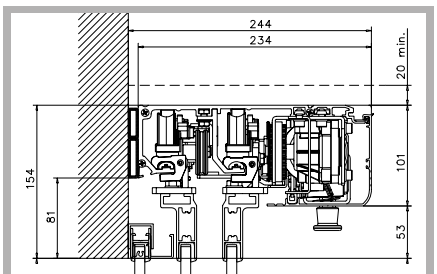
Installation on transom with transom window and FAAC TR50 profiles



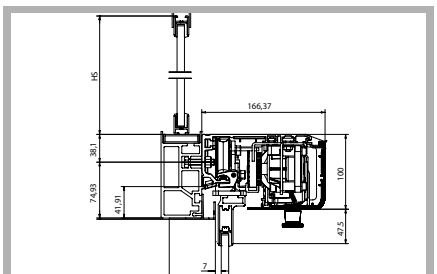
With self-supporting profile and spacers



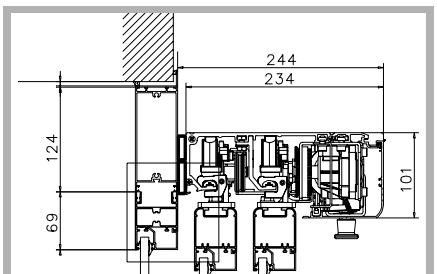
With spacers



Telescopic version with installation on brickwork



With self-supporting profile, transom window and FAAC TK20 reduced section leaf profiles



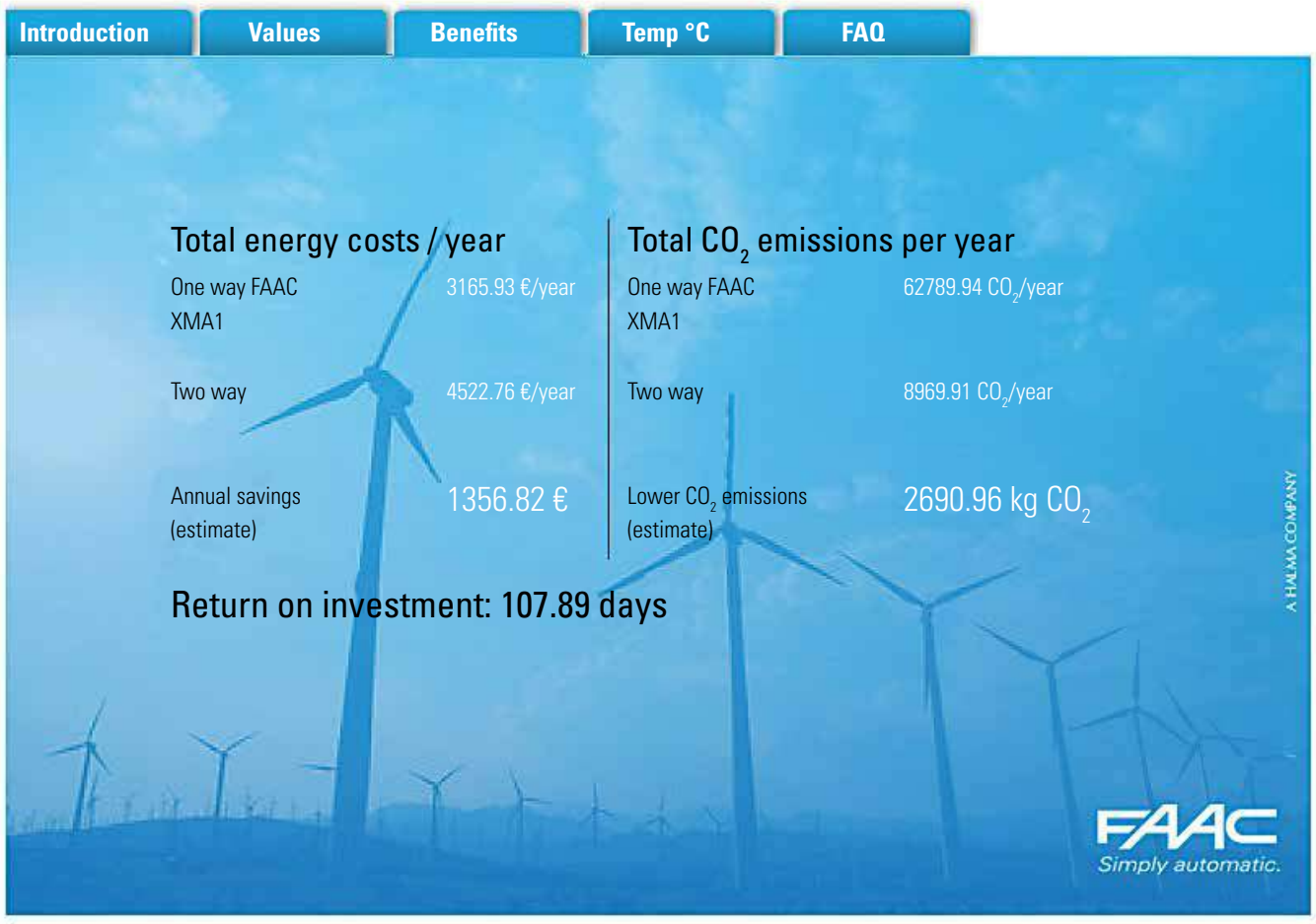
Telescopic version with installation on transom

THERMOTOOL - Energy saving evaluation

The "Energy Saving" device fitted to the A1400 AIR RD optimises opening / closing times perfectly to avoid unnecessary air dispersion. This limits the amount of energy used by the air conditioning and heating systems with significant benefits in terms of cost savings and a reduction of pollutant emissions (CO_2).

A dedicated software tool called THERMOTOOL has been developed in cooperation with BEA and the University of Liège (Belgium) in order to demonstrate the efficiency of the Energy Saving device. THERMOTOOL allows the energy savings to be quantified in terms of both cost savings and the reduction of CO_2 emissions according to the dimensional characteristics and the geographical position of the automated entrance

THERMOTOOL is an effective, user-friendly tool and can be found in the section dedicated to the A140 AIR RD automation on the www.faac.it website.



Quality compliance A1400 AIR RD

TÜV-certified in compliance with UN 16005, EN 13849-1 - Pl. "d" Cat. 3 and for 1,000,000 cycles (opening and closing)
In compliance with the safety requirements of the Low Voltage Directive (2006/95/EC), Electromagnetic Compatibility Directive (2004/108/EC) and Machinery Directive (2006/42/EC).

Automation for sliding doors on escape routes

ITEM OF SPECIFICATION A1400 AIR RD

- Electromechanical automation for sliding doors fitted on escape routes in compliance with European Standard EN 16005, EN 13849-1 Pl. "d" Cat.3 with TÜV certificate of conformity.
- E1400 RD Control Unit with 32 BIT dual microcontroller, designed in compliance with European Standards EN16005 and EN13849-1 Pl. “d" Cat.3 with audible alarm in case of critical alarms.
- 36 Vdc main electric motor with special reducer designed to offer silent operation and compact dimensions (zeroffset), equipped with 100 pulse/rev encoder
- 36 Vdc auxiliary electric motor with a special reducer designed to offer silent operation and compact dimensions (zeroffset). This motor is equipped with a belt tension adjustment system.
- 230 Vac – 50/60Hz Switching power supply unit
- Supplied with emergency battery that ensures the emergency opening of the door in case of necessity, as required by EN 16005
- 12mm electro-conductive drive belt
- Available for single and double leaf doors with passage opening of up to 3000 mm.
- Max weight up to 200 kg for single leaf in accordance with the passage opening size, and 120 + 120 kg for double leaf.
- Support profile for automated solutions in anodized extruded aluminium, with a depth of 166 mm, with integrated carriage sliding guide.
- Front housing cover in anodised or natural aluminium, complete with anti-fall safety cables, and pre-fractures to adapt doors of different thicknesses (up to 60 mm), designed for locking in the open position for easy maintenance. The height of the housing cover can be selected from 100 mm or 140 mm options with "L" shape.
- Galvanised steel carriages with dual wheel on bearing and counter-thrust roller with height adjustment +/- 7.5 mm. Brush for cleaning the sliding guide
- Door attachment profiles in extruded aluminium
- Electromechanical motor block with manual release
- "Energy Saving" device that enables the opening and closing times of sliding doors to be reduced and decreasing the heat loss between the inside and outside by recognising the direction in which pedestrians are walking, both when walking away and when passing parallel to the automatic door.
- Option to adjust the optimal speeds, forces, acceleration and deceleration in accordance with the weight of the leaves.
- Monitoring of safety sensors in accordance with EN 16005
- Anti-crushing safety device in accordance with EN 16005
- LCD display to view door status, perform fault diagnostics and carry out BASIC and ADVANCED programming using 3 buttons
- Programmable inputs and outputs
- Removable coloured terminal blocks dedicated to the individual accessories/sensors; screen printed indicating the function of the individual terminal.
- Firmware update and download/upload of selected information (configurations, timer, log) via USB flash drive.
- SETUP and RESET functions directly accessible from the board.
- SDK EVO function keyboard with graphic display for basic/advanced programming and diagnostics. Buttons for the selection of door functions.
- Keyboard functions:
  - Automatic – Manual – Night – Open – One-directional – Partial opening.
  - The Manual and Night functions can only be used with a key or security code (EN 16005)
  - Access to the programming menus via USER or INSTALLER password

Main functions of SDK EVO function selection keypad:

- Programming of door operation for 5 daily and weekly time bands
- Advanced fault diagnostics display
- Option of entering a password to access different user and installer menus
- Option of enabling Energy Saving (also possible directly from board)
- Battery kit and motor block management
- Inputs and outputs programming
- Display of number of partial and full cycles performed
- Advanced diagnostics
- Maintenance cycle notification

SLIDING DOORS

A1400 AIR

The future is here

The FAAC A1400 AIR SERIES automations are designed to automate entrances in compliance with European standard EN 16005; in fact, they are able to meet the most stringent safety requirements of EN 13489-1 PI "c".

Its innovative "Energy Saving" device enables it to identify the direction of transit and optimises opening / closing times perfectly to avoid unnecessary air dispersion, even in the event of cross traffic.

The A1400 AIR automation is customisable and can be assembled to meet the architectural and technical requirements of the customer. Its two types of cover, the exclusive leaf attachment systems and the various leaf profiles that can be used make it is possible to achieve the best technical and architectural solution.

Designed to operate at best in any condition and in any environment, it is the ideal solution for technicians who wish to save assembly time, by rationalising inventories for the final customer who will have full access to a product that is personalised, ecological, reliable, safe, technologically advanced and above all, that will pay for itself over time.

MADE IN ITALY

TECHNICAL CHARACTERISTICS

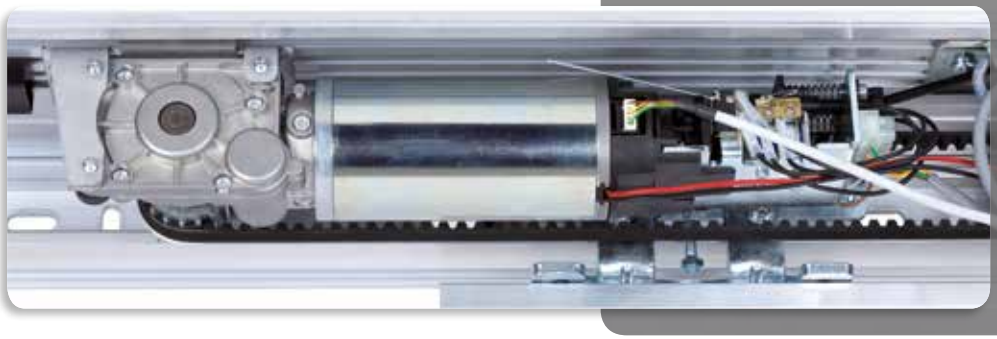
Power supply	220-240 V~ - 50/60 Hz
Max power	140 W
Use frequency	100%
Max leaf thickness	65 mm
Electric motor	36V ⎓ with encoder
Max. accessories load	1A - 24V⎓
Drive type	Electro-conductive toothed belt
Opening speed adjustment	10 - 60 cm/s (1 leaf), 20 - 120 cm/s (2 leaves)
Closing speed adjustment	10 - 60 cm/s (1 leaf), 20 - 120 cm/s (2 leaves)
Partial opening adjustment	5% - 95% of total opening
Pause time	0 - 30 s or Energy Saving function
Night pause time	0 - 240 s
Encoder	Standard
Protection sensor monitoring (EN16005)	Standard (may be bypassed)
Low Energy movement (EN16005)	Standard (may be bypassed)
Ambient operating temperature	-20°C to +55°C
Protection rating	IP 23 (for indoor use only)
Compliance with standards	EN 16005; EN 13489-1 PI "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

safe zone

green tech

energy saving

EN16005



MOTOR WITH ELECTRIC LOCK

1

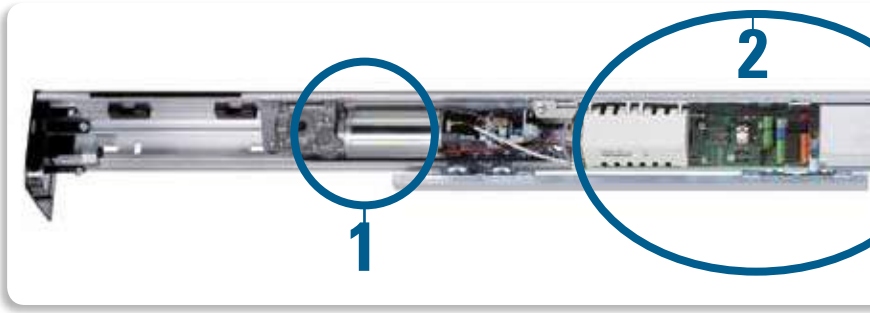
TELESCOPIC VERSION

3

SLIDING CARRIAGES

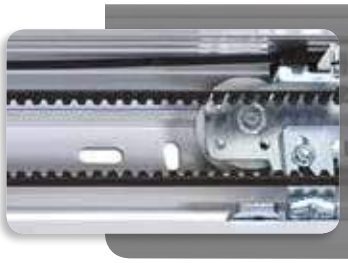
Carriages with plastic ball bearing wheels on sliding track made of special aluminium alloy and reinforced for the double motor version Sliding on anodized aluminium track integrated in the profile.

4



ACCESSORIES

- Profiles for attaching glass leaves.
- Anti-panic breakout system
  Not available in the telescopic version.
- Compatible with
  FAAC TK20, TK35 and TK50 series profiles.



SLOTS FOR FAST MECHANICAL INSTALLATION

5

AUTOMATIC ADJUSTMENTS

Opening and closing position determination.
Ideal speed, acceleration and deceleration selection.
Protection sensor monitoring.
Anti-crushing safety device in compliance with EN 16005.

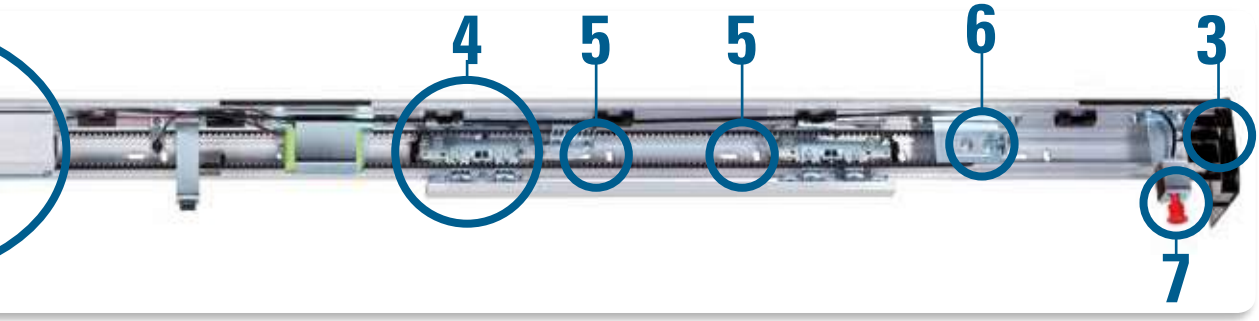
Automation for sliding doors

CONTROL UNIT WITH SWITCHING POWER SUPPLY

2

SECOND MOTOR KIT AVAILABLE AS AN ACCESSORY

6



MANUAL RELEASE WITH KNOB

7

USE

MODEL	LEAF	PASSAGE OPENING (mm)	MAX. LEAF WEIGHT (kg)	SELF-SUPPORTING TRANSOM
A1400 AIR 1	Single	700-3000	200 Kg	No
A1400 AIR 2	Double	800-3000	120+120 Kg	No
A1400 AIR A 1	Single	700-3000	200 Kg	Yes
A1400 AIR A 2	Double	800-3000	120+120 Kg	Yes
A1400 AIR DM 1	Single	800-3000	250 Kg	No
A1400 AIR DM 2	Double	900-3000	180+180 Kg	No
A1400 AIR T 2	Single telescopic	1100-3000	110+110 Kg	No
A1400 AIR T 4	Double telescopic	1400-4000	60+60+60+60 Kg	No
A1400 AIR A T 2	Single telescopic	1100-3000	110+110 Kg	Yes
A1400 AIR A T 4	Double telescopic	1400-4000	60+60+60+60 Kg	Yes

SDK EVO PROGRAMMING AND FUNCTIONS KEYPAD

Supplied as an accessory, it comes with a large graphics display that allows full access to all the door parameters via the four buttons that allow the user to navigate through the menus

MAIN FUNCTIONS

MODEL	SDK EVO
Operating functions	Manual - Night - Automatic One-directional - Partial One-directional Partial opening - Open - Reset and setup
Operating functions selection	Via buttons with indication of the selected function on the display. Option of locking the keypad via a jumper or a combination of keys.
Main programming functions	User and installer password entry - Opening and closing speed adjustment- Opening and closing force adjustment - Anti-crushing adjustment - Pause time adjustment - Energy Saving Enable - Diagnostics display management - Weekly calendar management - Battery kit and motor block management - I/O programming - Maintenance cycles notification - Display of number of cycles performed
Programming	Full with PROGRAMMER password and basic with USER code.

LK EVO FUNCTIONS SELECTOR

Supplied as an accessory, it enables access to the main automatic functions and indicates when it is on through LED lights

MAIN FUNCTIONS

MODEL	LK EVO
Operating functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating functions selection	Through buttons with LED indication of the selected function
Selectable functions	Keypad inhibition, setup, reset (also via jumper)
Diagnostics	Through a combination of flashing LEDs

KS EVO KEY FUNCTIONS SELECTOR

Supplied as an accessory, it enables access to the main automatic functions and allows modification of these using the supplied key.

MAIN FUNCTIONS

MODEL	KS EVO
Operating functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating functions selection	Using a key with LED indication of the selected function
Diagnostics	Through a combination of flashing LEDs

ACCESSORIES

XV1 DUAL TECHNOLOGY "MOVEMENT "AND PRESENCE" RADAR

XDT1 DUAL TECHNOLOGY, MICROWAVE AND ACTIVE INFRARED "MOVEMENT AND PRESENCE" THRESHOLD SAFETY SENSOR

XMS TOUCH BUTTON

ELBOW SWITCH

EMERGENCY BATTERY WITH CHARGE CONTROL BOARD

ACCESSORIES

MONOSTABLE XM LOCK MOTOR BLOCK

BISTABLE XB LOCK MOTOR BLOCK W/KNOB

MOTOR BLOCK AND LEAF POSITION MONITORING

XTRB TAG READER

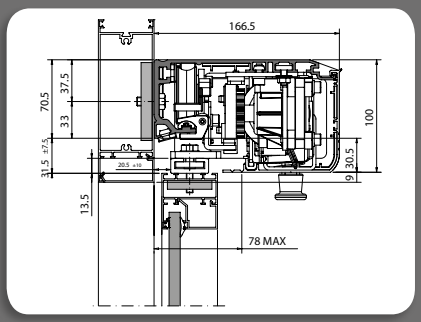
A1400 AIR QUALITY COMPLIANCE

Head for 2,000,000 cycles (opening and closing) according to DIN 18650-1.
Compliant with the Low Voltage Directive (2014/35/EU), Electromagnetic Compatibility Directive (2014/30/EU), Machinery Directive (2006/42/EC) and the RoHS Directive 2 2011/65/EU

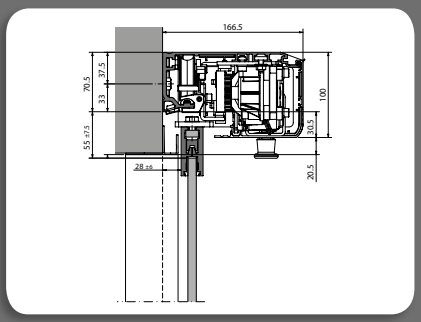
Automation for sliding doors

The right solution for all your needs

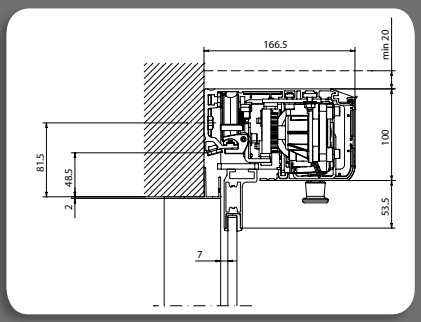
SOLUTIONS WITH COVER H 100 mm



With commercial profiles

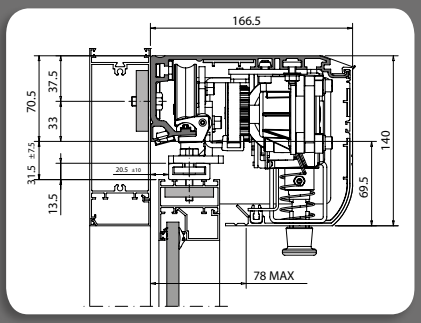


With FAAC gripper for polished edge glass

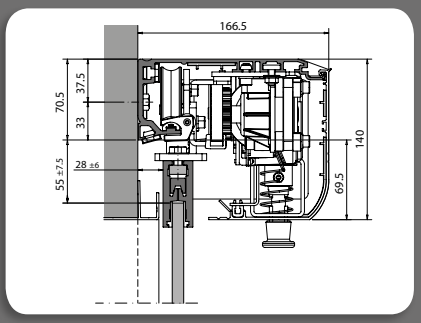


With FAAC TK20 reduced section profiles

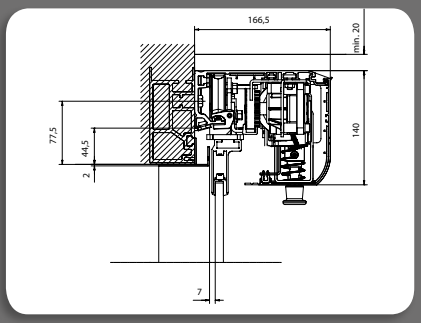
SOLUTIONS WITH COVER H 140 mm



With commercial profiles

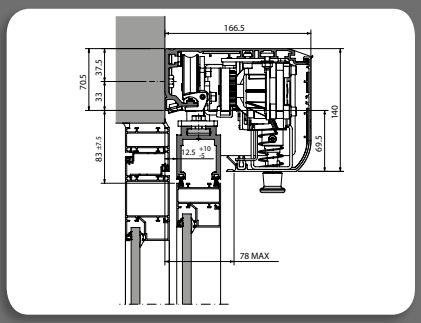


With FAAC gripper for polished edge glass

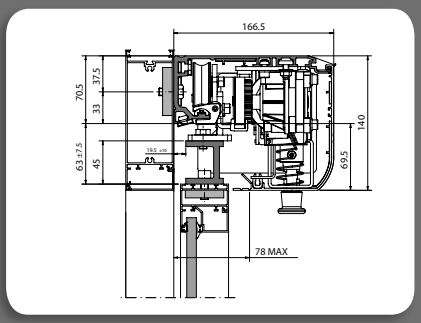


With FAAC TK20 reduced section profiles

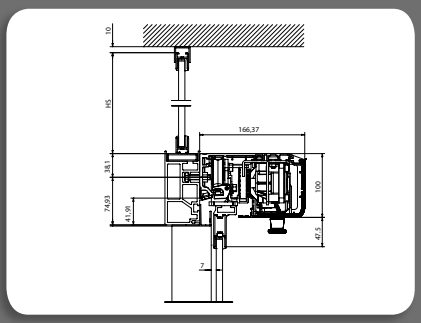
SOLUTIONS WITH SPECIAL VERSIONS H 100 MM AND H 140 MM



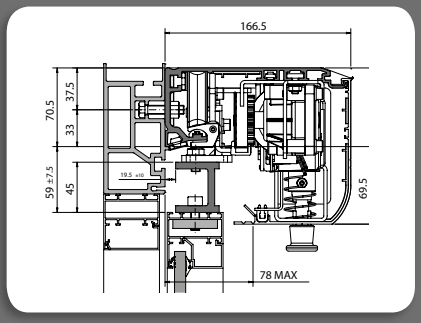
With profiles for APN anti-panic breakout systems



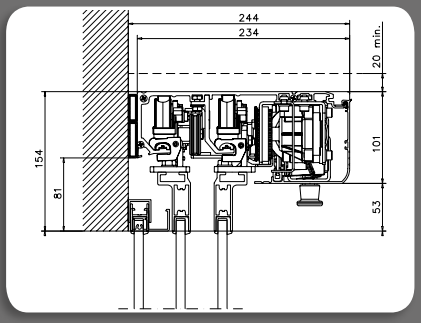
With spacers



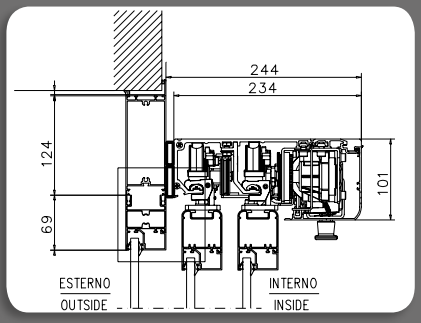
With self-supporting profile, transom and FAAC TK20 reduced section leaf profiles



With self-supporting profile and spacers



Telescopic version with installation on masonry



Telescopic version with installation on head section

SLIDING DOORS

A1000

Automation for sliding doors

single leaf, two leaf with continuous use

Slim and stylish

Its compact dimensions make the FAAC A1000 suitable for virtually any type of architectural environment, even where space is very limited. All the most innovative technical features are contained in just a few centimetres. For maximum versatility of use, the A1000 series can be adapted to sliding doors with single leaves with a maximum weight of 110 kg or with double leaves with a maximum weight of 70 kg per leaf. Installing an A1000 automation, in addition to completely eliminating architectural barriers, also means significant energy savings in terms of climate control of the area to which it gives access.

Reliable and always sliding

Designed to operate at its best every time and in every environment, the A1000 is automatically reliable and without any limits to the frequency of use. In the event of a power failure, charge-monitored buffer batteries (optional) guarantee 100% operation for thirty minutes.

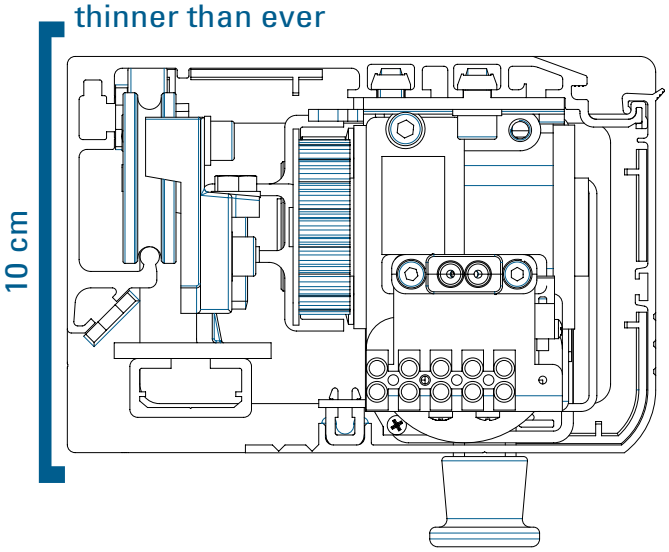
Excellent real-time logic

Intelligent control: a microprocessor verifies all door activity in real time. The operating logic can be selected by means of a function selection keypad.

Absolute safety

The FAAC A1000 series automations are designed to automate entrances in compliance with European standard EN 16005 and are able to meet the most stringent safety requirements of EN 13489-1 PI "c". If there is an obstacle, the door re-opens immediately and as it closes, at reduced speed, it checks that the obstacle is no longer present.

thinner than ever



safe zone green tech

FAAC DEFINES SAFE ZONE AND GREEN TECH AS FOLLOWS:

SAFE ZONE The systems that make it easier to produce automation systems that comply with the requirements of the current European Directive on safety (DM 2006/42/EC).

GREEN TECH: The patented devices or technological mechanical innovations that enable the energy consumption of the automation systems to be reduced.

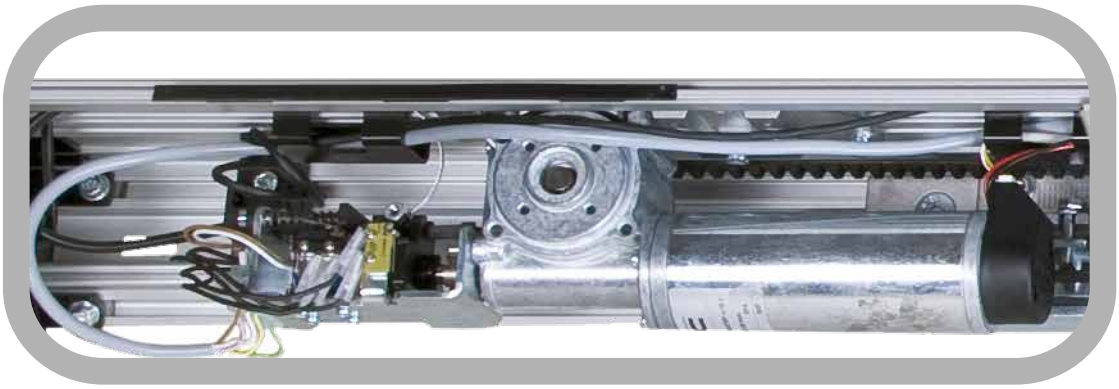
EN16005

Compliant with European standard EN 16005 Power operated pedestrian doorsets - Safety in use.

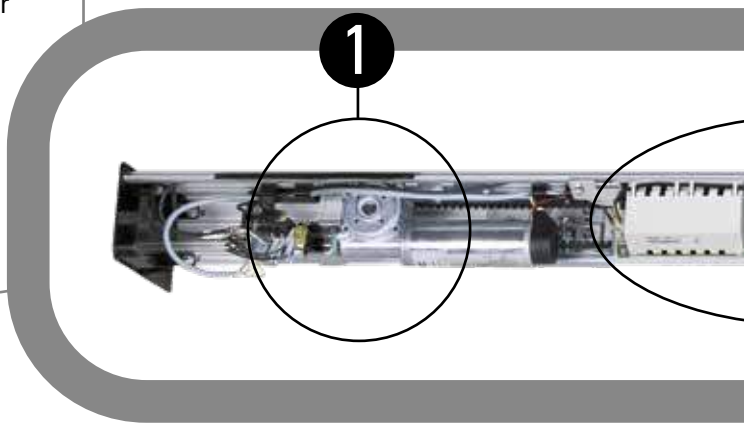
Identifies the electronic board compatible with external modules (future production) that allow the automations to be managed remotely.

SLIDING DOORS

1 Motor with electric lock



1 Motor with electric lock
2 Control unit with a low energy consumption switching power supply (standby <3W)
3 Drive carriages
4 Manual release with knob
5 Front casing anti-fall device
6 Slots for fast mechanical assembly

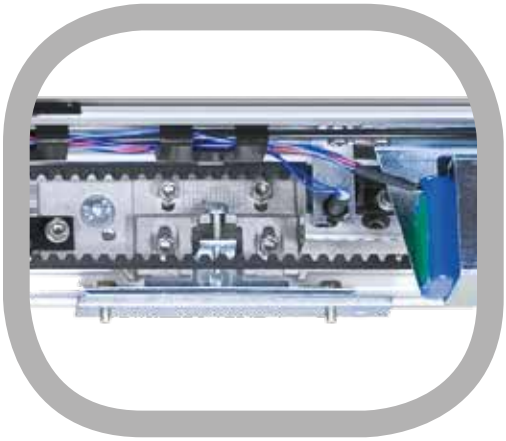


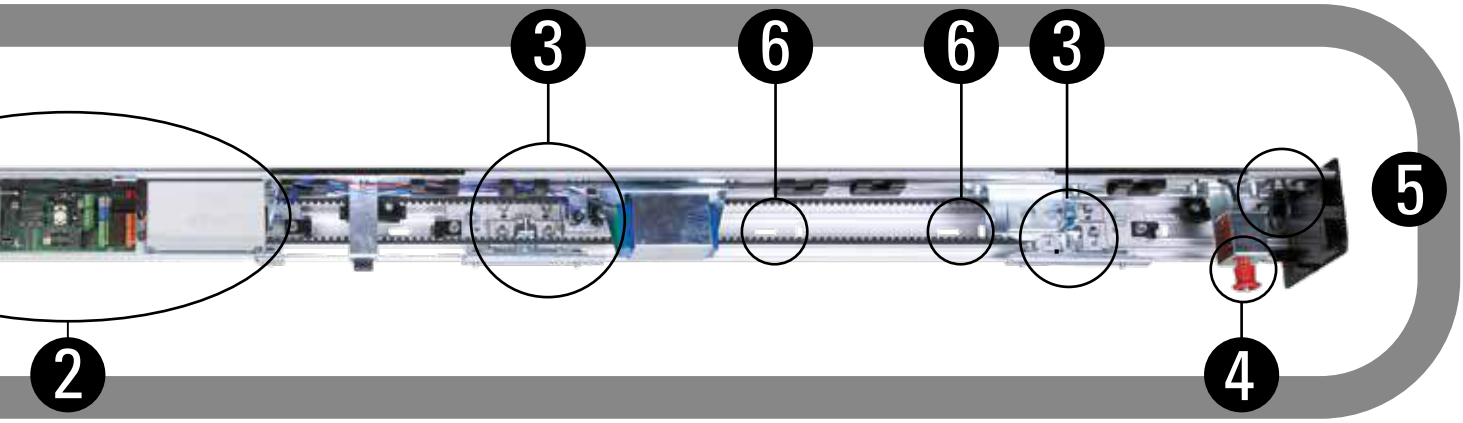
2 Control unit E1SL

Accessories

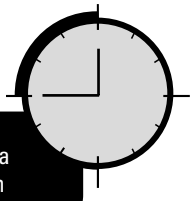
Monitored infrared sensor EN16005
Microwave radar
Elbow switches and key operated switches with emergency release devices
Profiles for attaching glass leaves.
Electromechanical motor block with manual release
Motor block monitoring
Emergency batteries. Guarantees 30 minutes of operation in continuous service
Anti-panic breakout kit (EN16005)
Compatible with FAAC TK20, TK35 and TK50 series profiles.

3 Drive carriages





4 Manual release with knob



Time bands can be programmed via the calendar management function

Use

Model	Leaf	Passage opening (mm)	Max leaf weight (kg)
A1000 1	single	700-3000	110
A1000 2	double	800-3000	70+70

SLIDING DOORS

Supplied as an accessory, it comes with a large graphics display that allows full access to all the door parameters via the four buttons that allow the user to navigate through the menus.

MAIN FUNCTIONS

MODEL	SDK EVO
Operating functions	Manual - Night - Automatic One-directional - Partial One-directional Partial opening - Open - Reset and setup
Operating functions selection	Via buttons with indication of the selected function on the display. Option of locking the keypad via a jumper or a combination of keys.
Main programming functions	User and installer password entry - Opening and closing speed adjustment- Opening and closing force adjustment - Anti-crushing adjustment - Pause time adjustment - Energy Saving Enable - Diagnostics display management - Weekly calendar management - Battery kit and motor block management - I/O programming - Maintenance cycles notification - Display the number of cycles performed
Programming	Full with PROGRAMMER password and basic with USER code.

LK EVO FUNCTIONS SELECTOR

Supplied as an accessory, it allows the main functions of the automation to be accessed and indicates if they are enabled by means of LEDs.

MAIN FUNCTIONS

MODEL	LK EVO
Operating functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating functions selection	Via buttons with LED indication of the selected function
Selectable functions	Setup, Reset, Keyboard inhibit (also via jumper)
Diagnostics	Via combinations of flashing LEDs

KS EVO KEY FUNCTIONS SELECTOR

Supplied as an accessory, it allows the main functions of the automation to be accessed and modified using the key provided.
Supplied with 2 keys.

MAIN FUNCTIONS

MODEL	KS EVO
Operating functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating functions selection	Via key with selected function indicator LED
Diagnostics	Via combinations of flashing LEDs

Technical characteristics	A1000
Power supply	120/240V~ – 50 (60) Hz
Max power	140 W
Stand-by power without accessories	3 W
Use frequency	100%
Max leaf thickness	60 mm
Electric motor	36V ⎓ with encoder
Max. accessories load	1A - 24 ⎓
Drive type	Toothed belt
Opening speed adjustment	10 - 60 cm/s (1 leaf), 10 - 140 cm/s (2 leaves)
Closing speed adjustment	10 - 60 cm/s (1 leaf), 10 - 140 cm/s (2 leaves)
Partial opening adjustment	5% - 100% of total opening
Pause time	0 - 30 s
Night pause time	0 - 240 s
Encoder	Standard
Safety sensor monitoring (EN 16005)	Standard (may be bypassed)
Low Energy Movement (EN 16005)	Standard (may be bypassed)
Ambient operating temperature	-20°C to +55°C
Protection rating	IP 23 (for indoor use only)
Compliance with standards	EN 16005; EN 13489-1 PI "c" ; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

SWING DOORS

950N2

Automated systems for leaf doors

Open and close in absolute silence

The 950N2 automation with integrated spring allows the door to open and close in absolute silence.

Versatile and elegant

The Faac 950N2 automations (with integrated spring closing system) can be installed both on the lintel and directly on the structure of the door. They guarantee perfect compatibility and interchangeability with previous 950BM/BSM models.
The innovatively designed housing cover can be supplied in anodized extruded aluminium or moulded ABS making it possible to fit a (passive infrared) detection sensor inside it.
The 950N2 automated systems are also able to automate double-leaf entrances by interfacing the 2 units in a master/slave configuration and the double leaf will be operated by a single automation.

Safe and intelligent

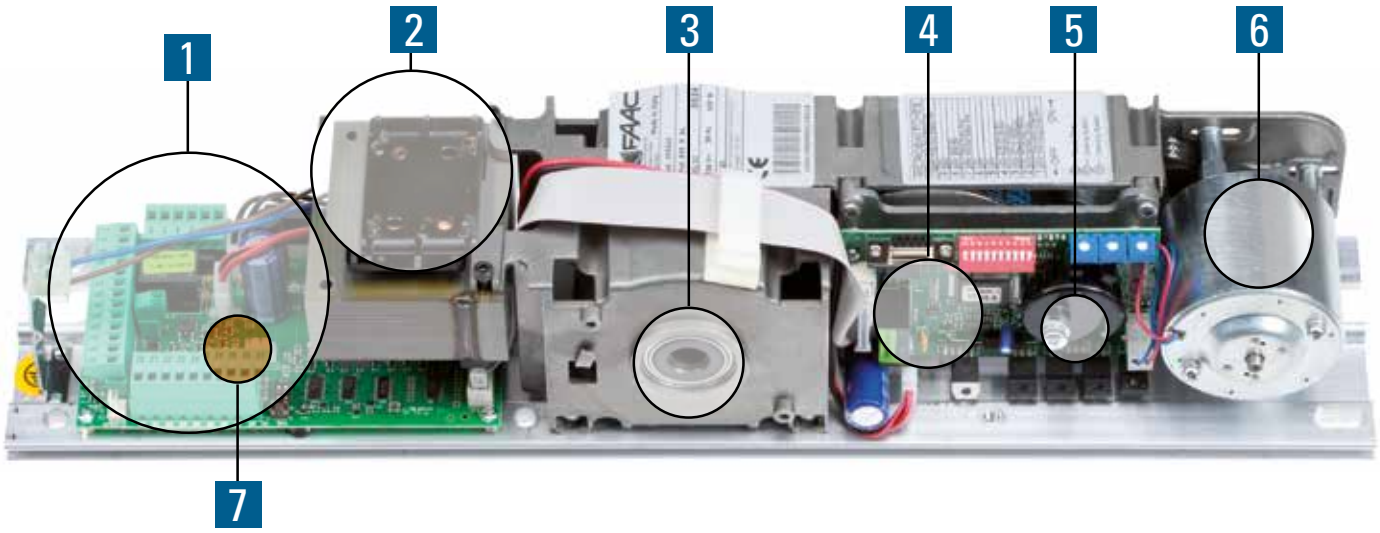
The automated system features two control boards: 950MPS (control board) and 950 I/O (input / output). A microprocessor controls all the activities of the door in real time and an encoder detects its angular position. Moreover, the operating logic (automatic, manual, night, open) can be selected by means of an integrated selector.
Built in conformity with the new European safety standards, speed and force are programmed according to the size of the door. If an obstacle is detected, the door re-opens immediately and as it closes, it checks, at reduced speed, that the obstacle is no longer present.

Powerful and reliable

Carefully selected mechanical and electrical components means that the 950N2 automation is able to move leaves weighing over 300 kg in continuous use, while always maintaining absolute operational safety.

TECHNICAL SPECIFICATIONS

Model	**950N2**
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	100 W
Standby power without accessories	5 W
Use frequency	100%
Motor	Motor powered at 24V ⎓
Max. accessories load	1A - 24V ⎓
Electric lock power supply voltage	(N.O./N.C.) 24 V ⎓ / 500 mA max.
Dimensions (LxDxH)	530x160x105 mm
Weight	10 kg
Operation in case of power cut	Manual push/pull opening - Spring closing
Max. leaf opening angle	100° ÷ 125°
Opening leaf time	4 - 10 s (adjustable)
Closing leaf time	4 - 10 s (adjustable)
Partial opening adjustment	10% - 90% of total opening
Pause time	0 - 30 s
Night pause time	0 ÷ 90 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 61000-6-2; EN 61000-6-3; EN 13849-1; EN13849-2



New articulated anodized aluminium arm with telescopic adjustment

New anodized aluminium shoe arm

Selectable ANTI-WIND function (ensures that the door is closed even if there is a strong wind)

Time bands can be programmed via the calendar management function (available with KP Controller keypad and display)

Automated system for swing doors

1 Control unit 950 I/O

2 Lamellar transformer

3 Return spring with activation arm coupling

4 Control unit 950MPS

5 Encoder

6 DC motor

7 Radio receiver connector

Automatic adjustments

"Open" and "closed" position determination.

- Leaf weight and friction measurement.
- Ideal speed, acceleration and deceleration selection.
- Photocell test

Use

Modell	Leaf length (mm)	**Max. leaf weight (kg)** *Articulated push arm*	**Max. leaf weight (kg)** *Short shoe arm*	**Max. leaf weight (kg)** *Standard shoe arm*
950N2	700	367	286	-
	750	320	249	-
	800	281	219	-
	850	249	-	194
	900	222	-	173
	950	199	-	155
	1000	180	-	140
	1050	163	-	127
	1100	149	-	116
	1150	136	-	106
	1200	125	-	97
	1250	115	-	90
	1300	107	-	83
	1350	99	-	77
	1400	92	-	71

STANDARD FUNCTIONS

- Operating logics: AUTOMATIC - OPEN - MANUAL/NIGHT
- Self-learning of open and closed positions and measurement of the door weight
- Anti-crushing safety device active during opening and closing
- Selectable **"PUSH and GO"** function (commands opening by simply pushing the door)
- **"ANTI-WIND"** function, can be selected (ensures that the door is closed even if there is a strong wind)
- **Closing thrust to guarantee door closure even with strong wind**
- **AVS (Anti Vandal System) function: this device protects the motor if leaf movement is forced**
- Manual operation in case of an electrical power failure
- Adjustment trimmer for: opening speed, closing speed, pause time
- Designed for use with: microwave radar, passive and active infrared sensor, command push-buttons, photocells, electric locks, locks, KP Controller programming units, FAAC radio controls.

The following functions can be accessed using the KP Controller or SDK Light function keypad:

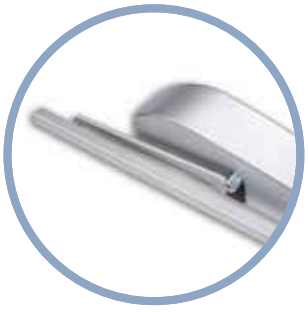
- Operating logics:
  AUTOMATIC - MANUAL - OPEN – ONE WAY - NIGHT – PARTIAL OPENING - DIAGNOSIS WITH A WIDE RANGE OF SIGNALS
  If you use the KP Controller keypad, coupled to the programming display, you can access the following functions:
- Opening and closing speed adjustment
- Pause time adjustment
- Opening width adjustment
- Interlock function
- Master-Slave function for double-leaf door
- Acoustic or visual transit signalling devices set-up
- Self-diagnosis.

SDK EVO Programming and functions keypad

LK EVO functions selector

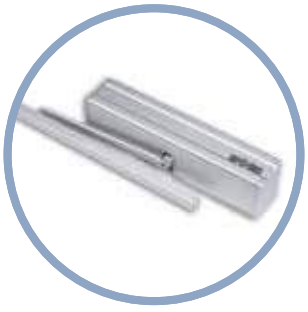
KS EVO KEY function selector

Function selector



Shoe arm

Articulated push arm



Anodized aluminium housing

ITEM OF SPECIFICATION 950N2

- FAAC electromechanical automation with return spring for swing doors, with DC motor
- Integrated microprocessor control unit with self-diagnosis and continuous testing of all door functions
- Can be installed both on the architrave and on the door and can open outwards or inwards
- Anodised aluminium actuation push arms and shoe type pull arms
- Grey-painted ABS or anodised extruded aluminium casing
- Anti-crushing safety device active during both opening and closing. The system not only causes the direction of travel to be reversed immediately if an obstacle is detected, but it also remembers the point at which the impact occurred and approaches it at reduced speed. It will start moving again normally only after having made sure that the obstacle has been removed
- Closing thrust to ensure the door closes even if there is strong wind. Adjustable door opening angle
- AVS (Anti Vandal System). This system protects the motor if the leaf movement is forced

Function selector integrated in the operator with the following logics:

- OPEN - AUTOMATIC - MANUAL/NIGHT
- Adjustable opening and closing speeds
- Adjustable pause time
- Selectable “Push and Go” function (commands the opening by simply pushing the door)

KP Controller and SDK-Light programmer with the following logics:

- AUTOMATIC - MANUAL - OPEN - ONE-DIRECTIONAL - NIGHT - PARTIAL OPENING
- The KP Controller keypad is designed for use with the Programming Display

Programming display - main functions:

- Programming of door operation for 5 daily and weekly time bands
- Interlock management with or without pulse memory
- Master-Slave for double leaf doors
- Display of number of cycles performed
- Fault diagnostics display
- Option of protecting the movement parameters menu with a password

Max. door length:	1,400 mm
Max. door weight:	367 kg (700 mm)
Power supply:	230 V~ - 50/60 Hz
Absorbed power:	100W

Complies with standards **UL**325 and CSA CAN/CSA - 22.2

safe zone EN16005

SWING DOORS

A951

TECHNICAL SPECIFICATIONS

MODEL	A951
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	100 W
Use frequency	100%
Motor	Motor powered at 24V ⎓
Max. accessories load	1A - 24V ⎓
Electric lock power supply voltage	(N.O./N.C.) 24V ⎓ / 500mA max
Dimensions (LxHxD)	575x60x70 mm
Weight	7 Kg
Operation in case of power cut	Manual push/pull opening
Max. leaf opening angle	100° ÷ 125°
Opening leaf time	4 ÷ 10 s (adjustable)
Closing leaf time	4 ÷ 10 s (adjustable)
Partial opening adjustment	Standard (adjustable)
Pause time	0 ÷ 30 s
Night pause time	0 ÷ 90 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN16005; EN61000-6-2; EN61000-6-3 ; EN13849
Max. torque	25Nm

A951 CONTROL UNIT

- Built-in microprocessor control unit with selfdiagnosis and continuous monitoring of all door functions
- Anti-crushing safety device active both in closing and in opening
- Integrated functions selector with the following operating logics: AUTOMATIC - MANUAL/NIGHT - OPEN
- "INTRUSION" Function, the door opposes the manual opening attempt
- Selectable 'PUSH and GO' function
- KP EVO and LK EVO functions keyboard support
- Firmware upgrade and download/upload (configurations, timer and log) through USB key

Using the KP EVO or LK EVO keypad the following functions are available:

- Opening and closing speed adjustments;
- Adjustment of opening and closing speed
- Anti-crushing safety device adjustment
- Pause time adjustment
- Self-diagnosis
- Weekly calendar
- Battery kit and lock management
- I/O programming
- Maintenance cycle warning
- Performed cycle number displaying
- MASTER-SLAVE version for double leaves doors
- INTERLOCK function
- INTERCOM function

Drive unit complete with:

- FAAC electromechanical automated system for swing doors working on direct current
- The housing cover is in anodized aluminium
- Articulated and sliding block arms with anodized extruded aluminium housing cover
- Over the transom installation with inwards and outwards opening
- Manual operation in case of an electrical power cut
- Optional battery

Thanks to the calendar management, it can be programmed in time bands. (available with KP EVO keypad)

SWING DOORS A951

Automate your daily entrances

■ Open and close in absolute comfort

The A951 automated system controls door opening and closing with silent and smooth operation. It allows users to easily open doors via a button, sensor or a remote control. Thanks to the PUSH&GO function, just a touch completely opens the door.

■ Versatile and elegant in only 7cm space

Faac A951 automated systems can be installed both on the lintel and directly on the structure of the door, giving flexibility to make installation easy (thanks to the fixing plate and low weight).
The housing cover is in anodized extruded aluminium that complements its aesthetics.
The A951 automated systems are also able to automate double-leaf entrances by interfacing the 2 units in a master/slave configuration.The double leaf will be driven by a single automated system for the highest synchronism of the leaves guaranteed through CAN BUS communication.

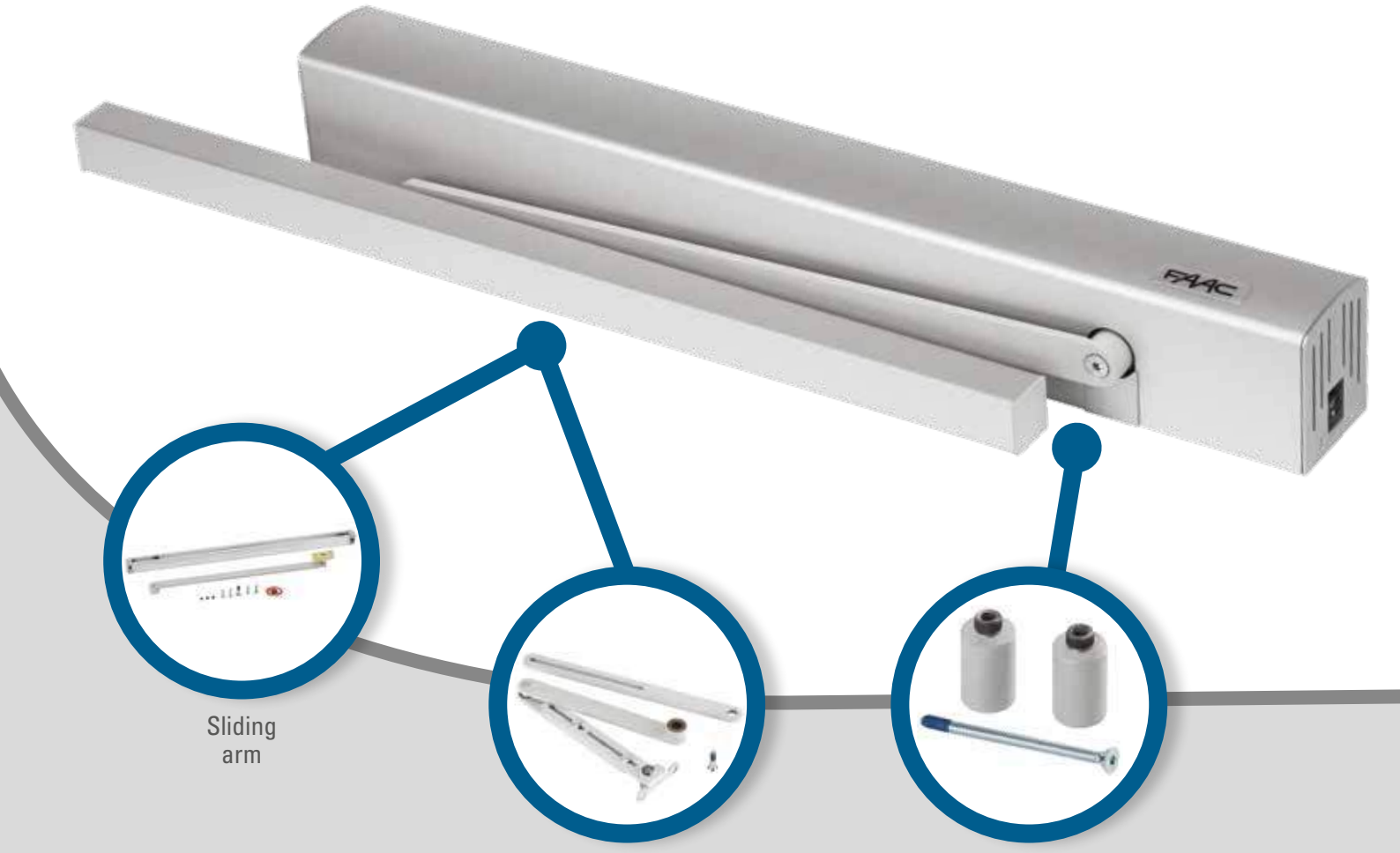
■ Safe and intelligent

The A951 features a microprocessor controlling all the door activities in real time, with an encoder detecting its angular position in every moment. Additionally the operating logic (automatic, manual, night, open) can be selected by means of a lateral selector.
Manufactured in compliance with the new European safety standards EN16005, the A951 automated system can operate in low energy or manage EN16005 radar monitoring such as the new laser sensor XPB SCAN.

■ Silent and low-energy consumption

Thanks to the accurate selection of mechanical and electronic components, the A951 automated system can silently drive leaves weighing 100 kg and1100 mm wide on continuous duty ensuring the absolute operating safety at any time offering significant energy savings both during stand-by and when operating.

safe zone | green tech | EN16005



Sliding arm

Articulated arm

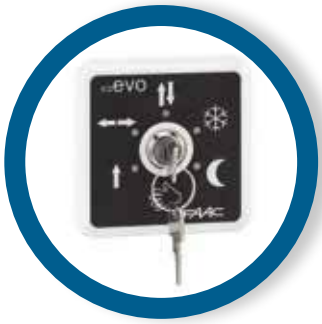
Extension shaft 35+35 mm (accessory)

Programming
display with
3 keys and USB

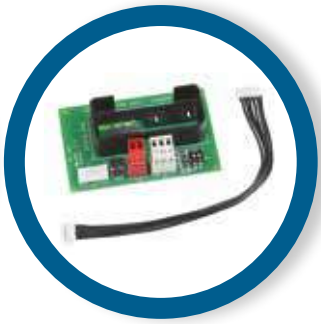
Emergency
Battery

KP EVO
Keypad

LK EVO
Keypad



Key function selector
KS EVO



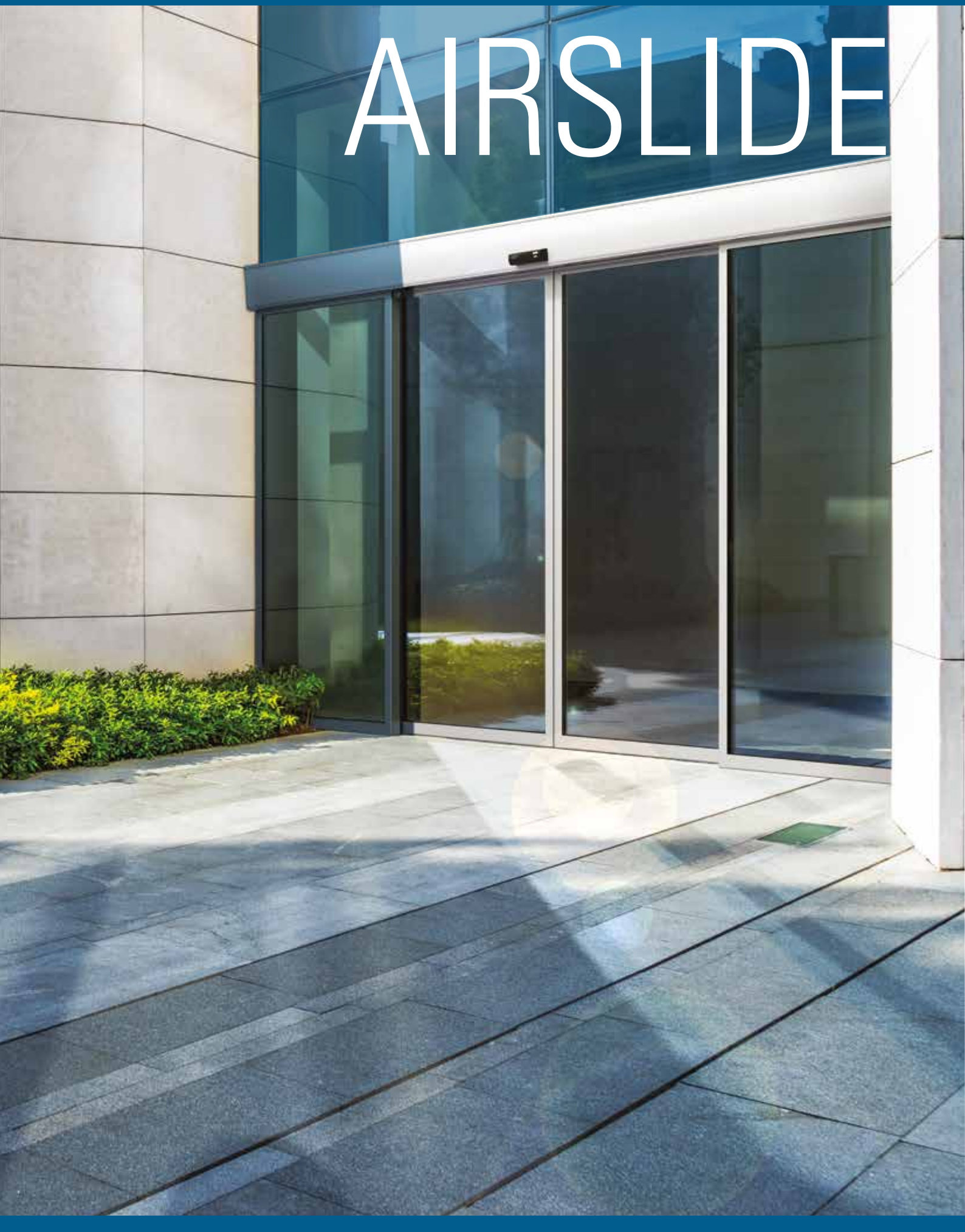
Communication
board

Opening through
FAAC remote controls

Opening and
active protection

SLIDING DOORS

AIRSLIDE



THE AUTOMATIC DOOR FOR EVERY NEED

AIRSLIDE IS THE ONLY AUTOMATIC SLIDING DOOR WITH AN INTEGRATED AIR CURTAIN.
PATENTED PRODUCT.

The AIRSLIDE system combines the automatic opening and air curtain systems into a single unit, with obvious aesthetic and functional advantages. Its sleek design makes it easy to integrate into any architectural context.

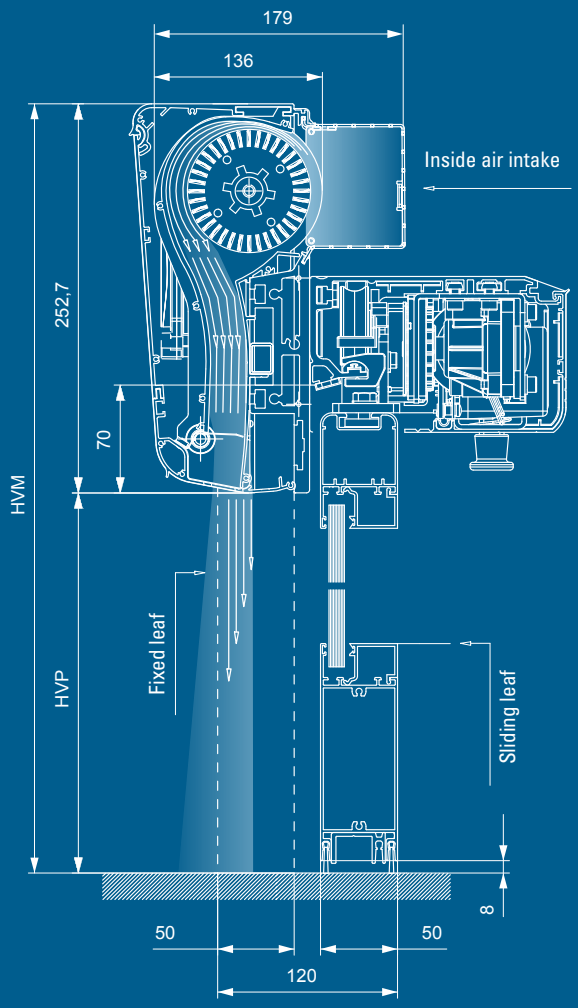
EN16005

Complies with European Standard EN16005 regarding the safety in use of automatic doors.

energy saving

Its innovative "Energy Saving" device enables it to identify the direction of transit and optimises opening / closing times perfectly to avoid unnecessary air dispersion, even in the event of cross traffic. This device allows energy savings to be made and optimizes the temperature changes inside the room and next to the doors.

TECHNICAL CHARACTERISTICS



Power supply	220-240 V~ 50/60 Hz
Max power consumption	160 W (single motor) 330 W (dual motor)
Use frequency	100%
Electric motor	Asynchronous single-phase
Motor rotation speed	2850 rpm
Fan diameter	80 mm
Fan length	360 mm - 500 mm
Beam dimensions (D x H)	182.1 x 252.5 mm (including grille)
Output air speed from grilles at heights of 0 to 2.5 m	15.3 - 4.2 (m/s)
Airflow (m^3/h)	1250
Noise level (dB) at 5m	49.5 - 57.5
Ambient operating temperature	- 20° C / + 55° C
Automation protection rating	IP23

AIRSLIDE

3 ADVANTAGES FOR ALL TO SEE

FAAC INTEGRATED AIR CURTAIN:
DESIGN AND PERFORMANCE
Over twice the efficiency and comfort compared to a traditional air curtain

TRADITIONAL AIR CURTAIN:
INEFFICIENT AND UNSIGHTLY

1 ENERGY EFFICIENCY

An air barrier protects the entrance area from the cold in winter and the heat in summer, without dispersion. This solution, designed for automatic entrances, allows the air to be kept inside the building, thereby helping to reduce energy consumption.

2 AIR QUALITY

An effective protection because it limits the entry of smog, dust, dirt and insects from the external environment.

3 ENVIRONMENTAL COMFORT

Installing a FAAC sliding door with an AIRSLIDE system is always the ideal solution to ensure the very highest standards of comfort, because it guarantees a considerable reduction in annoying drafts close to the door.

safe zone green tech

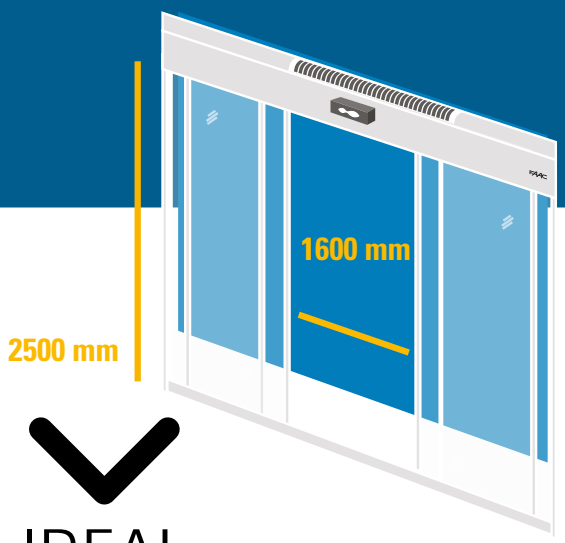
FAAC defines SAFE ZONE AND GREEN TECH as follows:

SAFE ZONE: The systems that make it easier to produce automation systems that comply with the requirements of the current European Directive on safety (DM 2006/42/EC).

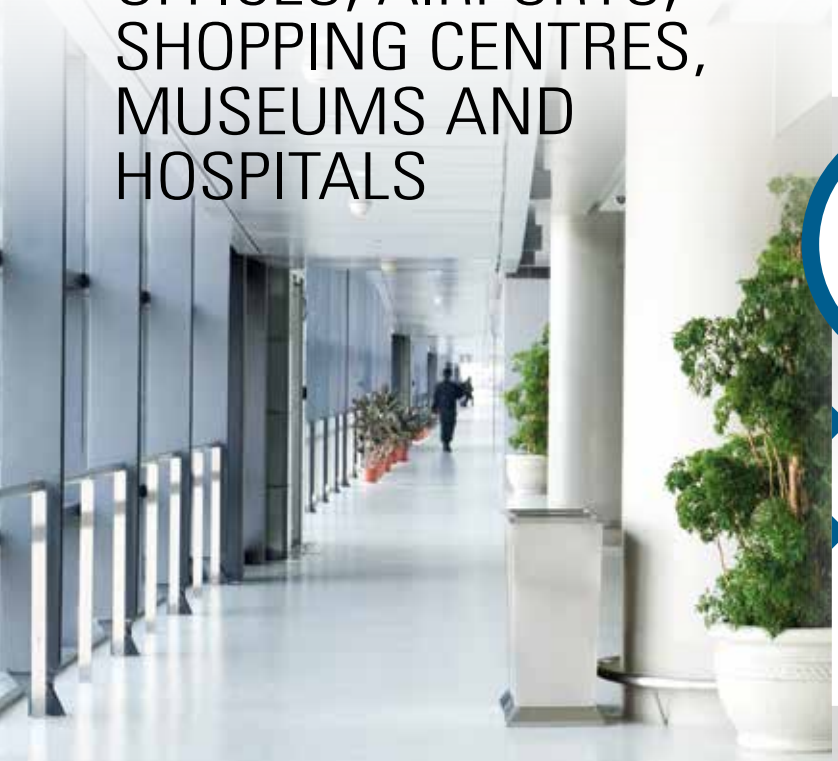
GREEN TECH: The patented devices or technological mechanical innovations that enable the energy consumption of the automation systems to be reduced.

TYPICAL CONFIGURATION

PASSAGE OPENING 1600mm

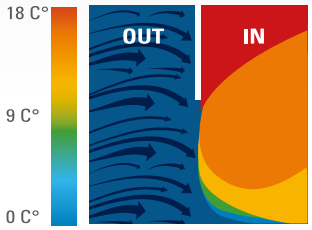


IDEAL FOR HOTELS, SHOPS, PHARMACIES, OFFICES, AIRPORTS, SHOPPING CENTRES, MUSEUMS AND HOSPITALS



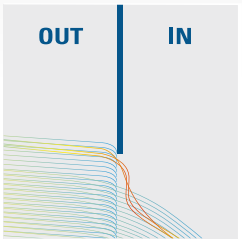
ENERGY EFFICIENCY

- DIFFERENCE BETWEEN INDOOR AND OUTDOOR TEMPERATURE 18°C
- ENERGY EFFICIENCY RESULTING IN 62% REDUCTION HEAT DISPERSION



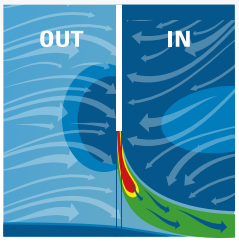
AIR QUALITY

- WIND SPEED 7.5 KM/H
- EFFECTIVELY REDUCES DUST ENTRY BY 62%



ENVIRONMENTAL COMFORT

- WIND SPEED 7.5 KM/H
- 48% REDUCTION IN AIR FLOW FROM OUTSIDE



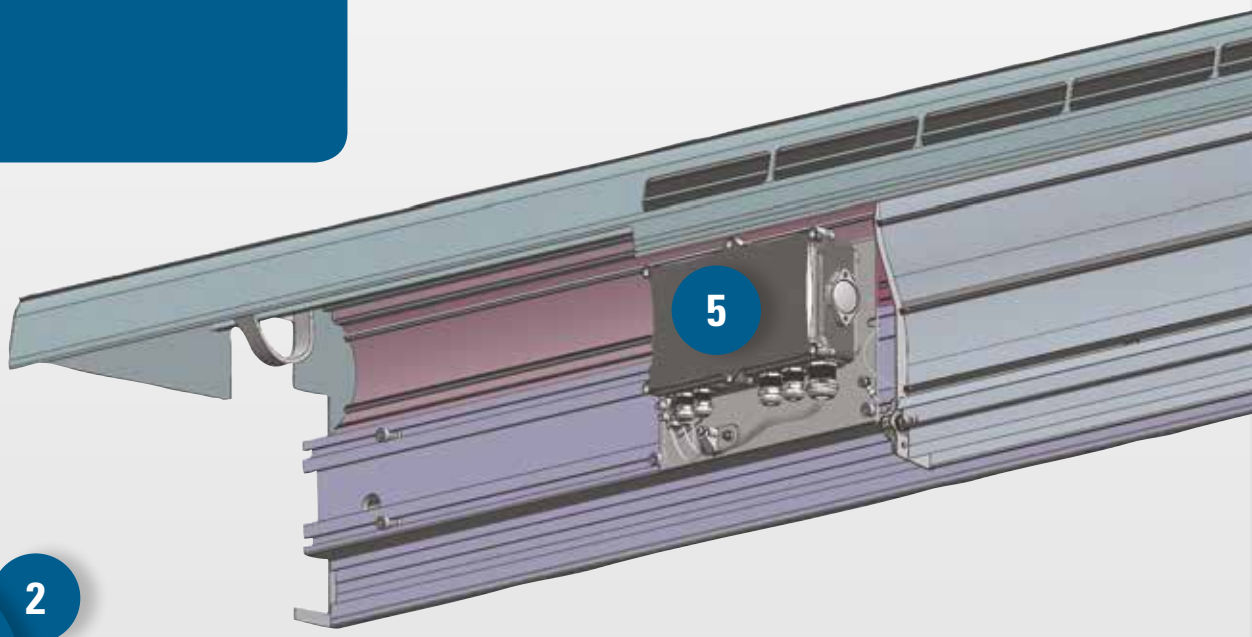
Results obtained in collaboration with ERGON RESEARCH, approved spin-off of the University of Florence, whose sophisticated ANSYS software has allowed us to simulate the operation and efficiency of the AIRSLIDE air curtain with great precision.

NEW DESIGN

MAIN FEATURES

1 FAN CASING

Electric fan unit with extruded aluminium cover redesigned to increase airflow by 30% compared to the previous version.

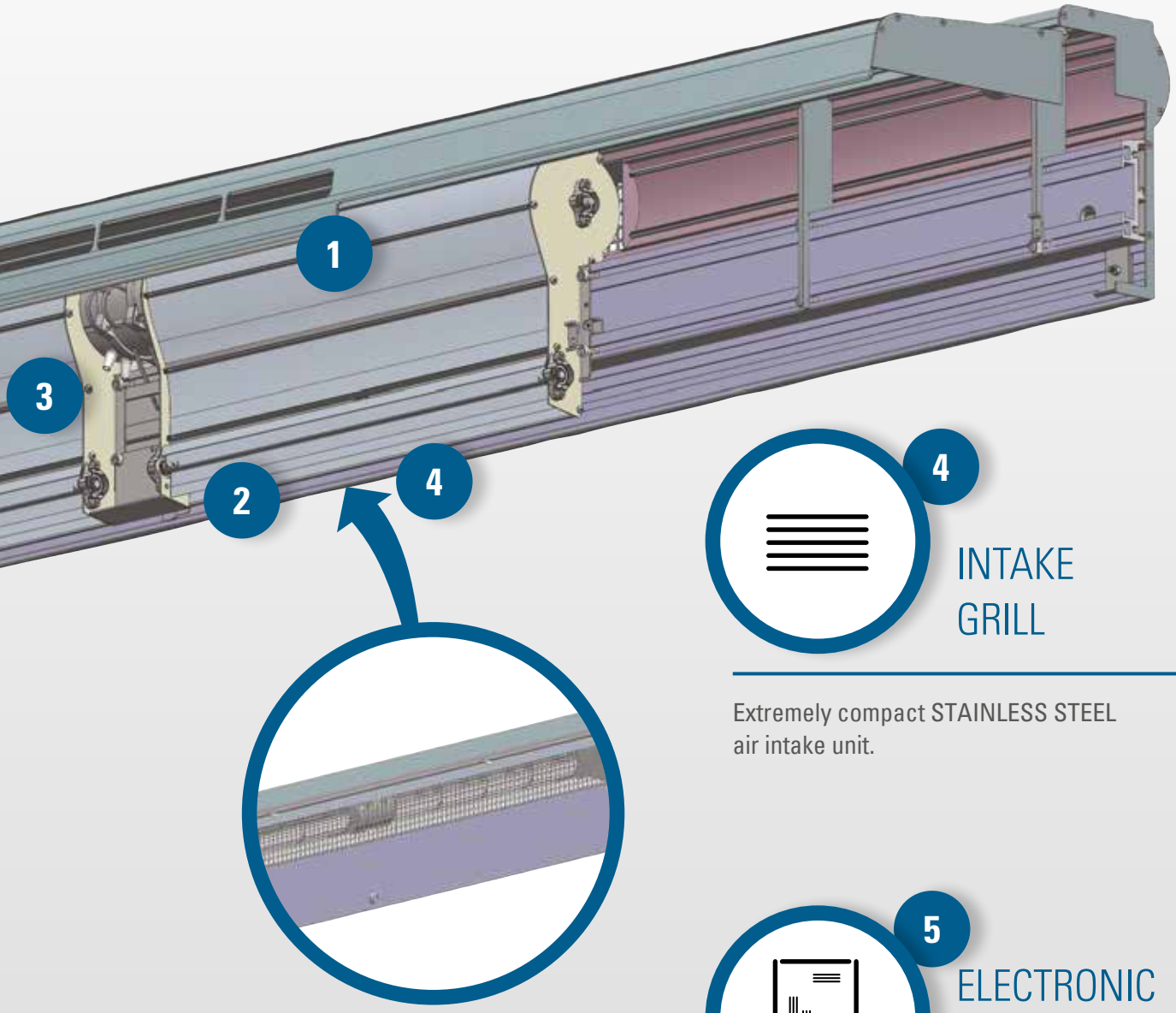


2 FLAP CLOSURE

Bearing-mounted flap to prevent external air from entering when the air curtain is not in operation.

3 ELECTRIC FAN UNIT

Casing made from a single redesigned aluminium profile with a reduced inclination to make it easier to install sensors. Kept open by a special joint in the profiles and safety cables. Electric fan unit completely redesigned for easy removal during maintenance.



4

INTAKE GRILL

Extremely compact STAINLESS STEEL air intake unit.

5

ELECTRONIC BOARD E1AS

- 4 programmable speed levels.
- CANBUS connection for controlling the speed of the fans via a SDK evo functions keypad.
- Can drive up to 2 electric fan units.
- USB port for firmware updates.

SDK EVO FUNCTIONS KEYPAD

ANTI-PANIC FOLDING DOORS

SF1400

SF 1400

An elegant space-saving solution that allows compliance with escape route regulations.

Automatic folding door with integrated anti-panic system

The **SF1400** automatic folding door with an anti-panic breakout system is the ideal solution to obtain wide passages for environments with limited space for installation and where an escape route is needed.

Built with specially made extruded aluminium profiles, with a sleek and elegant design, it is characterised by rounded edges and the absence of external hinges.

The leaf movement system, obtained by means of a special linkage, gives it stability and smoothness; the use of ball bearings ensures that it is durable and effortless to use.

The highest quality electronic components and the characteristics of the **SF1400** system ensure that it is efficient and reliable.

The **SF1400** system is characterised by a removable support structure made of strong aluminium alloy profiles for easy transport and on-site assembly. The leaves are made of aluminium alloy profiles with a 35mm cross section and an exposed surface of only 25mm that gives ample brightness.

The edges are rounded (in compliance with accident prevention regulations) and the perimeter closure is ensured by the use of special brushes. The use of double glazing, in addition to creating a thermo-acoustic barrier, gives the door greater rigidity and provides extra comfort.

The certified anti-panic opening system is assured by the use of adjustable magnetic hooks, which guarantee that it will open easily over time, even in case of mechanical wear. Doors can be supplied with a maximum useful passage opening of up to 2000 mm.

energy saving

safe zone

green tech

ANTI-PANIC FOLDING DOORS

MAXIMUM COMFORT IN TOTAL SAFETY

This automation is fitted with an extremely sensitive reverse on obstacle detection system and the Energy Saving device that optimises the opening and closing cycles to prevent the unnecessary dispersion of air.
A double motor version is also available that increases the force and the locking of the leaves during closing in very windy areas.

EXTREMELY COMPACT, WIDE PASSAGE OPENING

Particularly suited for installation in corridors or narrow passageways without space at the side for sliding doors. It enables wide passageways to be obtained even where the installation space is minimal.
Its compact design enables it to make the best use of the space available and makes it the first choice for renovations or refurbishments.

CERTIFIED AS AN ESCAPE ROUTE

Complies with EN16005 as a mechanical breakout escape route.
It is specifically designed for entrances where a safety exit has to be provided to allow people and trolleys to exit easily.

MODELS

MODEL	LEAF	WALL RECESS WIDTH (mm)	PASSAGE OPENING WIDTH (mm)	WALL RECESS HEIGHT (mm)	PASSAGE OPENING HEIGHT (mm)	APN AND DOUBLE MOTOR
SF1400 1	Single folding	1100 - 1300	845 - 1045	2200 - 2600	2000 - 2400	Yes
SF1400 2	Double folding	1600 - 2340	1230 - 1970	2200 - 2600	2000 - 2400	Yes

- Rounded edges and no corners (in compliance with accident prevention regulations).

- Possibility of installing double glazing.

- Possibility of regulating access, a feature that is increasingly requested for analysis laboratories, medical surgeries and restricted areas and can be achieved by installing badge readers, numeric keypads, key systems and a dedicated BUS-RELAY interface.

- Extremely silent operation due to a special linkage system driven by a high-performance slide belt.

EN16005

CE

ANTI-PANIC DOORS
MECHANICAL BREAKOUT

APN1 - APN2

Anti-panic mechanical breakout system

The APN system is an essential accessory for the realisation of automated entrances fitted on safety exits.

The APN system is a combination of components purposely designed to facilitate assembly on the aluminium or iron profiles that are used when producing automatic sliding and semi-fixed breakout leaves that open if pushed towards the escape route.

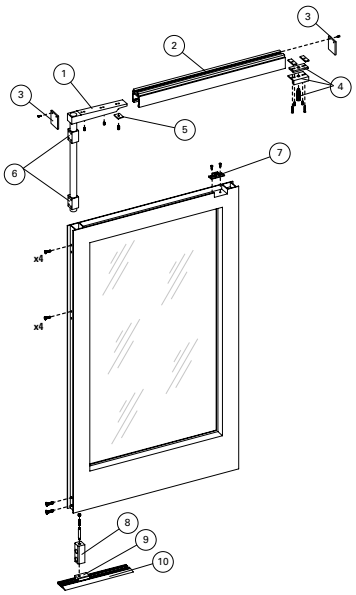
Four different types of kits can be supplied:

- APN 1 - for one sliding leaf
- APN 2 - for two sliding leaves
- APN 1+1 - for one sliding leaf and a semi-fixed leaf
- APN 2+2 - for two sliding leaves and two semi-fixed leaves

Every kit is supplied complete with the safety accessories required by current regulations, such as photocells and/or magnetic microswitches that stop the automation system in the event of a breakout through the leaves.

EN 16005 certified system

Description of components



Ref.	Description
1	– Anti-panic hinge
2	– Top profile
3	– Closing plugs
4	– Mobile leaf anti-panic release unit
5	– Leaf adjustment block
6	– Anti-panic hinge bush
7	– Hook-on block
8	– Slide support
9	– Slide shoe
10	– Sliding guide

Application limits				
Max leaf length (mm)	500 - 700	750 - 950	1000 - 1200	H max 2800mm
Max leaf weight excluding anti-panic system (Kg)	90	80	75	

ANTI-BREAK-IN SECURITY ENTRANCES

SKR35

SKR35

SKR35 automatic entrance with the same anti-break-in performance as a class RC3 security door

The **SKR35** automatic entrance has been designed and manufactured to guarantee the same level of protection as a security door, enabling the entrance of shops, supermarkets or jeweller's to be protected without the need to install external security roller shutters.

This innovative entrance answers the increasing demand from the banking sector for example, for control systems with features that combine the convenience of an automatic transparent sliding door with an additional anti-intrusion security system.

As well as the security aspect, the **SKR35** has been designed to be safe during use. In fact, the system includes monitored safety sensors required by European Standard **EN16005** and sophisticated systems that constantly detect and monitor the position of the doors and adjust their speed and force to below regulatory limits. Lastly, the innovative **Energy Saving** device that enables **FAAC** entrances to identify the actual direction of transit and to open only for the amount of time actually required, thereby avoiding an unnecessary waste of energy.

MAXIMUM SECURITY

A continuous floor-mounted guide at the bottom of the door and a special anti-tamper device prevents the leaves from being forced open.

EUROPEAN CERTIFICATION

The class **RC3** certification in accordance with European standard **EN 1627** guarantees a high level of security against break-in attempts, even by experienced thieves using equipment such as wedges, screwdrivers, bolt cutters or crowbars.

GUARANTEED PROTECTION AND VISIBILITY

There is no visible barrier, so the glass entrance is transparent, attractive and ensures a high aesthetic standard.
In addition, the use of Class **P5A** shatter-proof security glass ensures an incredible level of resistance.

ANTI-BREAK-IN SECURITY ENTRANCES

- Complete automatic door consisting of a strong self-supporting extruded aluminium frame.
- Reinforced 35 mm thick aluminium alloy profiles are used to manufacture automatic fixed and sliding leaf entrances with a slide-in glass system.
- Class P5A 44.6/12/33.2 shatter-proof security glass.
- Pre-assembled system with perimeter frame, complete with self-supporting head section, lateral uprights and accessories.
- Floor-embedded guide with continuous floor mounted shoe along the entire width of the sliding leaves.
- Leaves and frame are anodized or painted with RAL colours.
- Multiple point security locking system installed on the vertical uprights of the mobile leaves.
- Coupling between mobile and fixed leaves with special aluminium profiles with anti-lifting system.
- Heat and sound insulation through edge brushes.

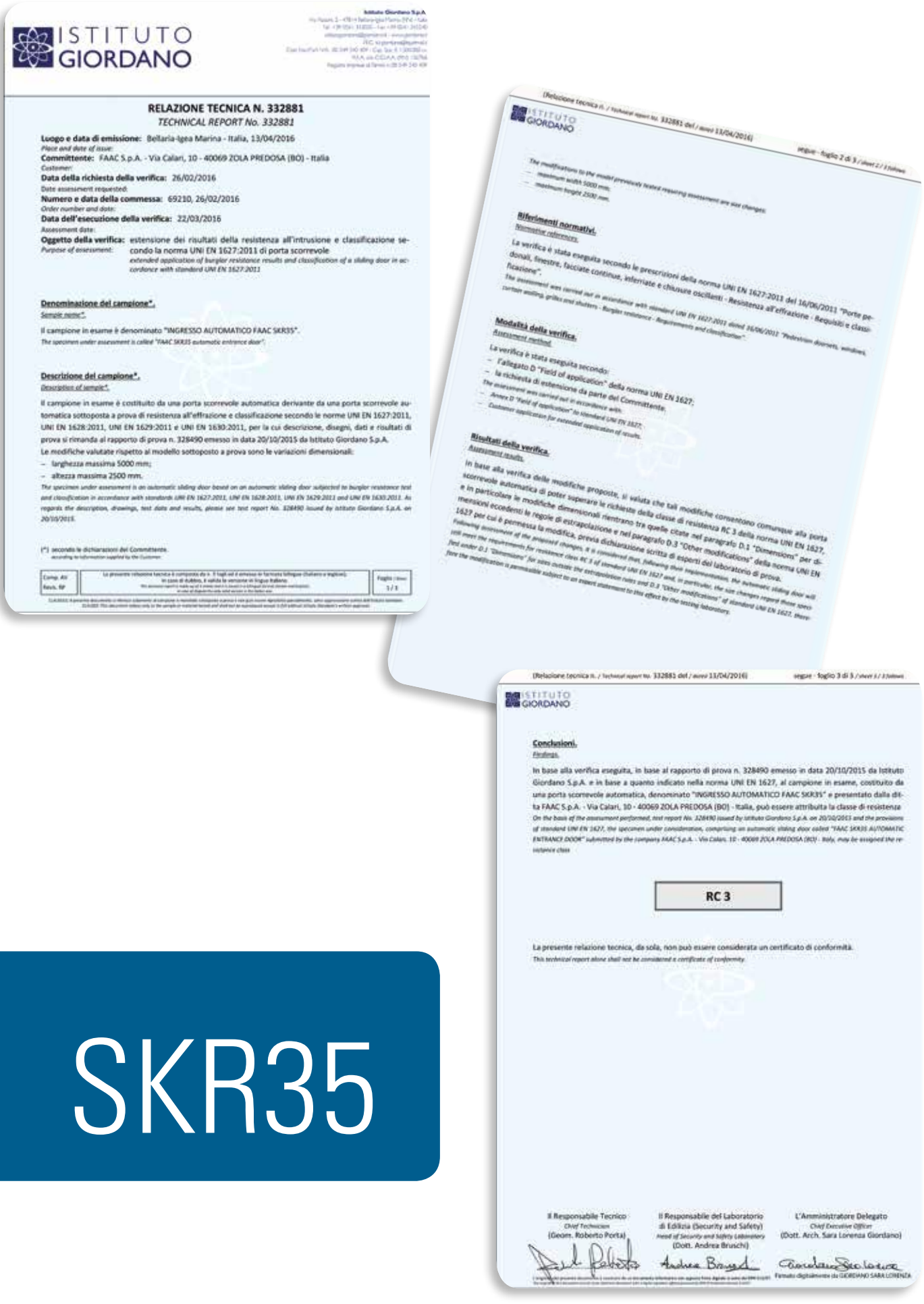
MODELS

MODEL	SKR35 1	SKR35 1+1	SKR35 2	SKR35 2+2
Leaves	1 mobile	1 mobile and 1 semi-fixed	2 mobile	2 mobile and 2 semi-fixed
Wall recess width (mm)	1,900±2,400	1,900±2,400	2,200±3,800	2,200±3,800
Passage opening width (mm)	850±1,100	850±1,100	1,000±1,800	1,000±1,800
Wall recess height (mm)	2,285±2,585	2,285±2,585	2,285±2,585	2,285±2,585
Passage opening height (mm)	2,100±2,400	2,100±2,400	2,100±2,400	2,100±2,400

EN1627

EN16005

CE



ISTITUTO GIORDANO

RELAZIONE TECNICA N. 332881

TECHNICAL REPORT No. 332881

Luogo e data di emissione: Bellaria-Igea Marina - Italia, 13/04/2016
Place and date of issue:
Committente: FAAC S.p.A. - Via Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italia
Customer:
Data della richiesta della verifica: 26/02/2016
Date assessment requested:
Numero e data della commessa: 69210, 26/02/2016
Order number and date:
Data dell'esecuzione della verifica: 22/03/2016
Assessment date:
Oggetto della verifica: estensione dei risultati della resistenza all'intrusione e classificazione secondo la norma UNI EN 1627:2011 di porta scorrevole
Purpose of assessment: extended application of burglar resistance results and classification of a sliding door in accordance with standard UNI EN 1627:2011

Denominazione del campione*.
Sample name:

Il campione in esame è denominato "INGRESSO AUTOMATICO FAAC SKR35".
The specimen under assessment is called "FAAC SKR35 automatic entrance door".

Descrizione del campione*.
Description of sample:

Il campione in esame è costituito da una porta scorrevole automatica derivante da una porta scorrevole automatica sottoposta a prova di resistenza all'effrazione e classificazione secondo le norme UNI EN 1627:2011, UNI EN 1628:2011, UNI EN 1629:2011 e UNI EN 1630:2011, per la cui descrizione, disegni, dati e risultati di prova si rimanda al rapporto di prova n. 328490 emesso in data 20/10/2015 da Istituto Giordano S.p.A.
Le modifiche valutate rispetto al modello sottoposto a prova sono le variazioni dimensionali:
- larghezza massima 5000 mm;
- altezza massima 2500 mm.

The specimen under assessment is an automatic sliding door based on an automatic sliding door subjected to burglar resistance test and classification in accordance with standards UNI EN 1627:2011, UNI EN 1628:2011, UNI EN 1629:2011 and UNI EN 1630:2011. As regards the description, drawings, test data and results, please see test report No. 328490 issued by Istituto Giordano S.p.A. on 20/10/2015.

(*) secondo le dichiarazioni del Committente.
according to information supplied by the Customer.

Comp. Ati / Resp. RP

La presente relazione tecnica è composta da n. 3 fogli ed è emessa in formato bilingue (Italiano e Inglese); in caso di dubbio, è valida la versione in lingua Italiana.
This document report is made up of 3 sheets and it is issued in a bilingual format (Italian-English); in case of dispute the Italian one is the valid version.

Fogli / *Sheet*: 1 / 3

(Relazione tecnica n. / *Technical report no.* 332881 del / *dated* 13/04/2016) segue - foglio 2 di 3 / *sheet 2 / 3 follows*

ISTITUTO GIORDANO

The modifications to the model previously tested requiring assessment are size changes:
- *maximum width 5000 mm;*
- *maximum height 2500 mm.*

Riferimenti normativi.
Normative references.

La verifica è stata eseguita secondo le prescrizioni della norma UNI EN 1627:2011 del 16/06/2011 "Porte pedonali, finestre, facciate continue, inferriate e chiusure oscillanti - Resistenza all'effrazione - Requisiti e classificazione".
The assessment was carried out in accordance with standard UNI EN 1627:2011 dated 16/06/2011 "Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Requirements and classification".

Modalità della verifica.
Assessment method.

La verifica è stata eseguita secondo:
- l'allegato D "Field of application" della norma UNI EN 1627;
- la richiesta di estensione da parte del Committente.

The assessment was carried out in accordance with:
- *Annex D "Field of application" to standard UNI EN 1627;*
- *Customer application for extended application of results.*

Risultati della verifica.
Assessment results.

In base alla verifica delle modifiche proposte, si valuta che tali modifiche consentono comunque alla porta scorrevole automatica di poter superare la richiesta della classe di resistenza RC 3 della norma UNI EN 1627, e in particolare le modifiche dimensionali rientrano tra quelle citate nel paragrafo D.3 "Other modifications" della norma UNI EN 1627 per cui è permessa la modifica, previa dichiarazione scritta di esperti del laboratorio di prova.
Following assessment of the proposed changes, it is considered that, following their implementation, the automatic sliding door will still meet the requirements for resistance class RC 3 of standard UNI EN 1627 and, in particular, the size changes report these specified under D.1 "Dimensions" for sizes outside the extrapolation rules and D.3 "Other modifications" of standard UNI EN 1627, therefore the modification is permissible subject to an expert statement to this effect by the testing laboratory.

(Relazione tecnica n. / *Technical report no.* 332881 del / *dated* 13/04/2016) segue - foglio 3 di 3 / *sheet 3 / 3 follows*

ISTITUTO GIORDANO

Conclusioni.
Findings.

In base alla verifica eseguita, in base al rapporto di prova n. 328490 emesso in data 20/10/2015 da Istituto Giordano S.p.A. e in base a quanto indicato nella norma UNI EN 1627, al campione in esame, costituito da una porta scorrevole automatica, denominato "INGRESSO AUTOMATICO FAAC SKR35" e presentato dalla ditta FAAC S.p.A. - Via Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italia, può essere attribuita la classe di resistenza
On the basis of the assessment performed, test report No. 328490 issued by Istituto Giordano S.p.A. on 20/10/2015 and the provisions of standard UNI EN 1627, the specimen under consideration, comprising an automatic sliding door called "FAAC SKR35 AUTOMATIC ENTRANCE DOOR" submitted by the company FAAC S.p.A. - Via Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italy, may be assigned the resistance class

RC 3

La presente relazione tecnica, da sola, non può essere considerata un certificato di conformità.
This technical report alone shall not be considered a certificate of conformity.

Il Responsabile Tecnico
Chief Technician
(Geom. Roberto Porta)

Il Responsabile del Laboratorio di Edilizia (Security and Safety)
Head of Security and Safety Laboratory
(Dott. Andrea Bruschi)

L'Amministratore Delegato
Chief Executive Officer
(Dott. Arch. Sara Lorenza Giordano)

Firmato digitalmente da GIORDANO SARA LORENZA

SKR35

FINISHED ENTRANCES

TK20

Line of profiles for automatic entrances with reduced section of 20 mm

TK20 AIR

Profile line for automatic entrances with reduced section of 20 mm.

Slender, light, easy to use and compliant with standards are the features of these new profiles made to add a refined and innovative design to the advantages of an automatic sliding entrance door.

Their simple construction means that this series of profiles and seals can be machined using a cut-off saw and other common tools. This characteristic will make things easy for all customers looking to make automatic entrances where nothing is left to chance and, at the same time, the quality of the supplied article will be appreciated.

The FAAC cutting configuration file, together with the technical drawings, will enable the installer to produce a cutting list of all the profiles and seals that make up the entrance in just a few simple steps. The configurator also supplies the dimensions of the glass panels.
The assembly manual will enable the correct installation procedure to be followed.

DISEGNI / *DRAWINGS* nr. 02 - 02A - 02B _930/940/A100COMPACT	Disegni Drawing

COMPILARE GLI SPAZI COLORATI DI GIALLO -
PLEASE FILL THE YELLOW COLOURED FIELDS -

Nr° Ante Mobili / *Nr. Sliding Doors*	1
Nr° Ante Fisse / *Nr. Fixed Doors*	0
Soluzione (vedi disegni) / Solution (see drawings)	A
Tipo Motorizzazione / *Motorization type*	930N SF
Nr° Pezzi / *Nr. Pieces*	1
LVM Luce Vano Muro (mm.) / *Wall Width*	1000
LVP Luce Vano Passaggio (mm.) / *Free Passage Width*	990
HVM Altezza Vano Muro (mm.) / *Wall Height* = altezza sotto carter traversa / *height below motorization*	2200
HVP Altezza Vano Passaggio (mm.) / *Free Passage Height*	2198
Spessore vetro (mm.) / *Glass thickness*	8

Peso anta (kg.) - Door weight -: 46

N.B.: con pesi superiori a 120 kg. (930N SF) per anta singola, si consiglia di utilizzare la motorizzazione tipo 940 SM. Limite utilizzo A100COMPACT: 110 kg.
- PLEASE NOTE: if single door weight exceeds than kgs. 120 (930N SF), we suggest to use

Distinta di taglio profili / *Cutting profiles list*

Descrizione / *Description*	Codice / *Code*	Quantità / *Quantity*	Misura / *Measure* (mm.)	Taglio / *Cutting angles*	Orientamento / *Assembly direction*	Disegno / Drawing
Profilo verticale portafotocellule per fissaggio a muro / *Fixing wall vertical profile with photoelectric cell*	105804	2	**2219**	90°-90°	verticale vertical	
		1	**996**	90°-90°	orizzontale horizontal	
Profilo verticale battuta anta singola / *Vertical profile for single door locking*	105809	1	**2219**	90°-90°	verticale vertical	
Telaio di fissaggio a muro anta fissa / *Fixing wall frame for fixed door*	105808					
Profilo verticale per anta mobile asolato e forato / *Vertical profile for sliding door*	105801	2	**2211**	90°-90°	verticale vertical	
Profilo verticale per anta fissa asolato e forato / *Vertical profile for fixed door*	105802					
Traverso superiore / *Upper door profile*	105805	1	**966**	90°-90°	orizzontale horizontal	
Traverso inferiore / *Lower door profile*	105806	1	**966**	90°-90°	orizzontale horizontal	

Distinta accessori / *Accessories list*

Descrizione / *Description*	Codice / *Code*	Quantità / *Quantity*	Misura / *Measure* (mm.)	Taglio / *Cutting angles*	Orientamento / *Assembly direction*	Disegno / Drawing
Guarnizione per vetro da 8 mm. (4+4) - 8 (4+4) mm. thickness glass gasket -	105811	1	**6194**	90°-90°	sui 4 lati on the 4 sides	
Guarnizione di tenuta laterale / *Side holding gasket*	105812	1	**2216**	90°-90°	verticale vertical	
Guarnizione di tenuta centrale anta mobile / *Sliding door central holding gasket*	105813	1	**2216**	90°-90°	verticale vertical	
Guarnizione di tenuta centrale / *Central holding gasket*	105813	1	**2224**	90°-90°	verticale vertical	
Profilo plastico di guida inferiore anta mobile / *Lower sliding plastic profile for sliding door*	105814	1	**998**	90°-90°	orizzontale horizontal	
Profilo plastico per chiusura profilo portafotocellula / *Plugging plastic profile for profile with photoelectric cell*	105816	2	**2219**	90°-90°	verticale vertical	
Kit accessori anta mobile / *Accessories kit for sliding door*	105817	1				
Piastrine per fissaggio carrelli per anta mobile / *Small plate for sliding door trucking wheels fixing*	105819					
Spazzolino / *Brush*	105346	1	**998**	90°-90°	orizzontale horizontal	

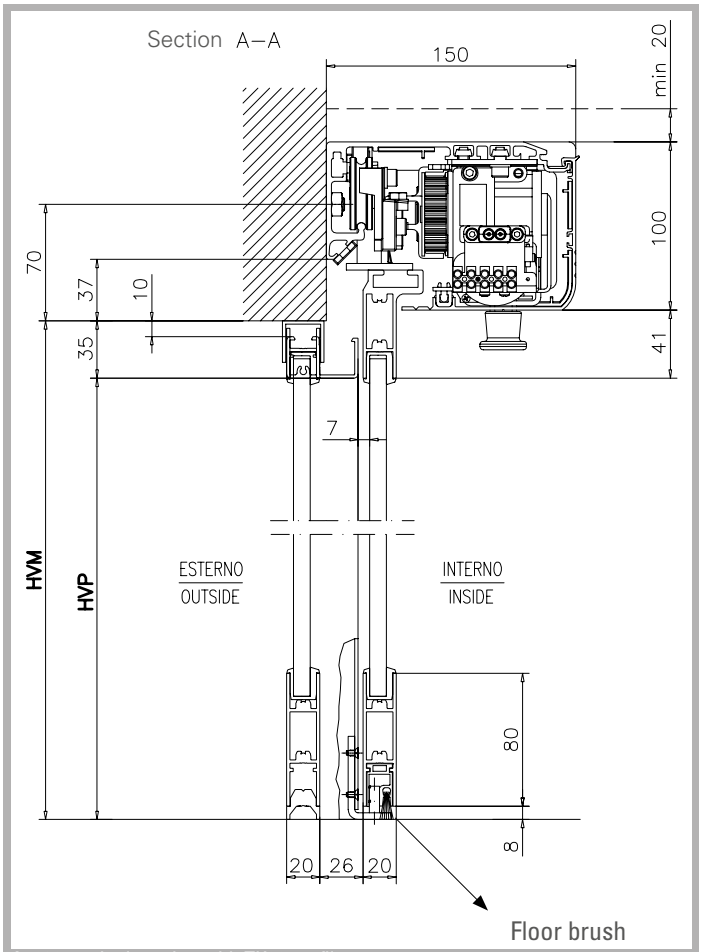
Distinta di taglio vetri / *Cutting glasses list*

Quantità / Quantity	Larghezza / Width (mm.)	Altezza / Height (mm.)	Tipo / Type
1	**993**	**2104**	Vetro da 8 mm. (4+4) - 8 (4+4) mm. glass -

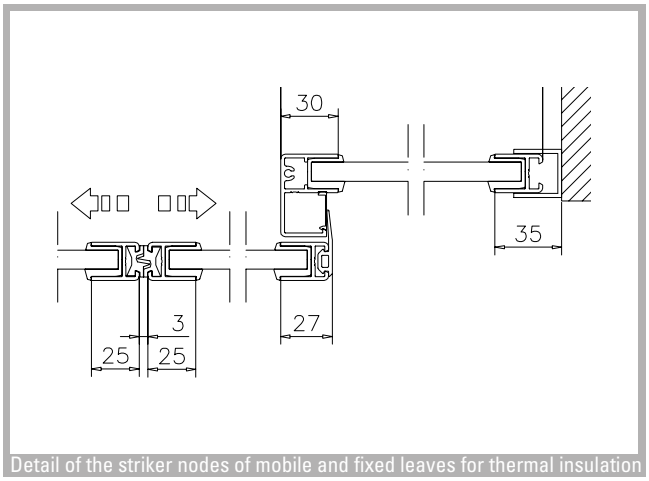
ITEM OF SPECIFICATION TK20

FAAC series TK20 reduced section aluminium alloy profiles; thickness 20 mm, width 25mm, complete with gaskets to house glass panels 8 mm or 10 mm thick with PVB foil 0.76.
Interlocking rubber gaskets are installed at the centre of the sliding leaves and a special gasket is used at the sides against the upright of the fixed leaf. Both gaskets improve the thermal insulation of the entrance.
The central uprights of the fixed leaf are 30 mm wide and have a double groove to house the photocell. The groove and the visible wires of the photocells will be closed by a quick-release rigid gasket.
The lower skirting is 80 mm high and an internal seat houses a special plastic profile that has the following functions:

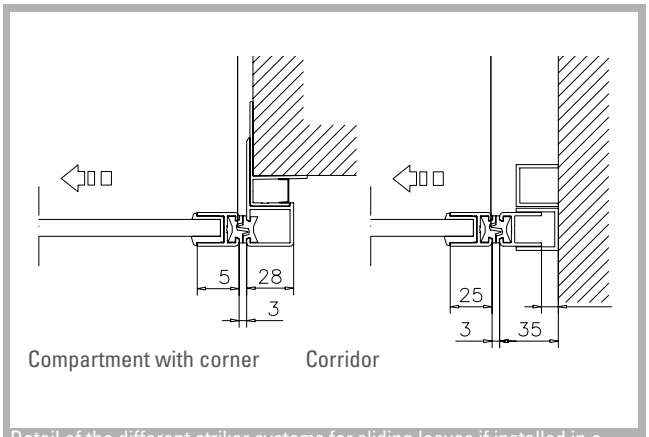
- to provide a brush support between leaf and floor for thermal insulation
- to provide a sliding guide for the shoe made of stainless steel.



A1000 vertical section with TK20 profiles



Detail of the striker nodes of mobile and fixed leaves for thermal insulation

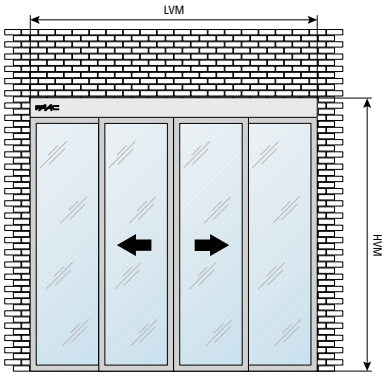


Detail of the different striker systems for sliding leaves if installed in a corridor or in a compartment with a corner.

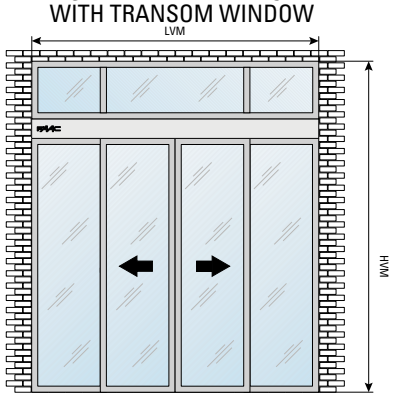
FINISHED ENTRANCES

ENTRANCES WITH TK50 PROFILES

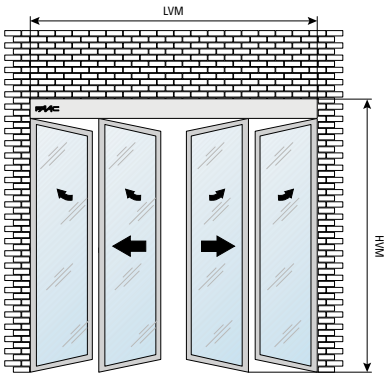
STANDARD ENTRANCE



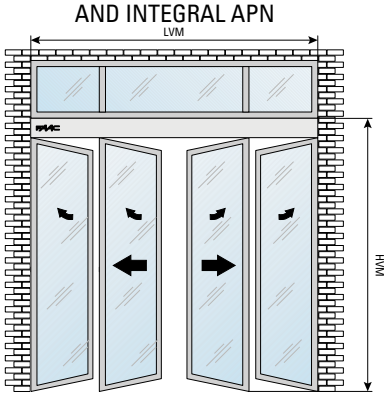
STANDARD ENTRANCE WITH TRANSOM WINDOW



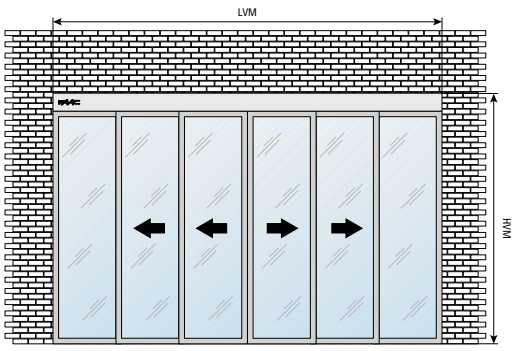
ENTRANCE WITH INTEGRAL APN



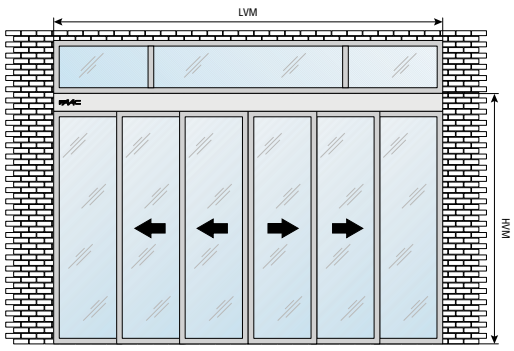
ENTRANCE WITH TRANSOM WINDOW AND INTEGRAL APN



ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES + 2 FIXED SIDE LEAVES



ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES + 2 FIXED SIDE LEAVES WITH TRANSOM WINDOW



TK50

TK50 Profiles

Automatic entrances with increased section profile of 50 mm.

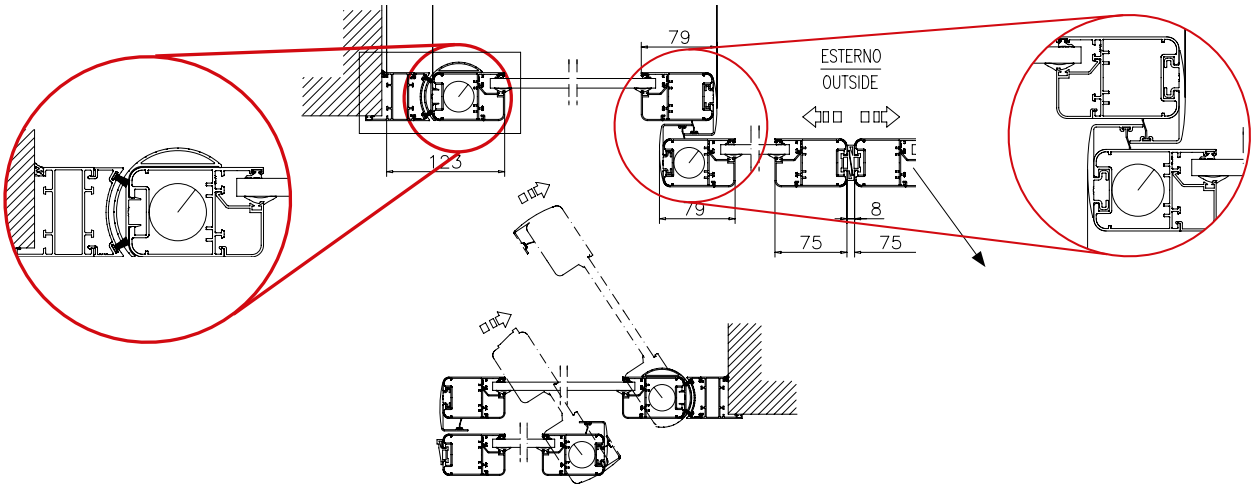
The sturdiness of these profiles and their innovative design, are the features for those looking for an automatic entrance for installation in places with a high volume of traffic where trolleys and suitcases may be present.

The TK50 profiles are designed to be perfectly integrated with a break-out anti-panic system for applications requiring an emergency exit.

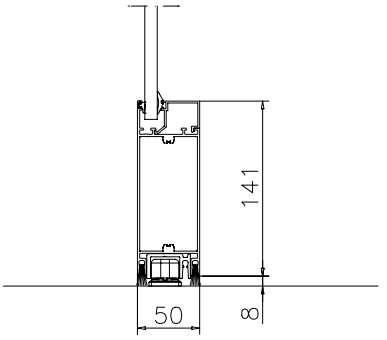
SLIDE DOOR

Thermal insulating and burglar-resistant labyrinth profiles

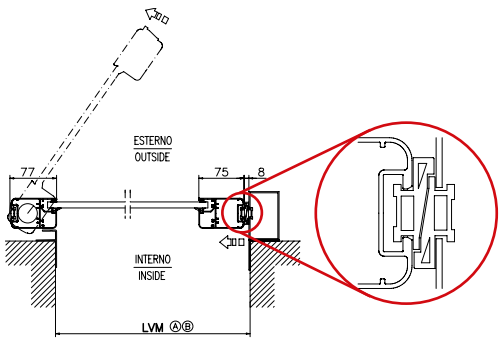
Accident-Prevention Rounded Sliding Profiles Complete With Heat-Resistance Central Striker Seals



Accident-prevention rounded profile for break-out sliding semi-fixed leaves and swing-leaves



Heat-resistance brush between leaf and floor



Striker seal studied to facilitate the break-out ability of the sliding leaf

Item of specifications TK50

Aluminium alloy profiles, series FAAC TK50, with thickness section of 50 mm., for automatic entrances with sliding and leaf doors.
Complete with glass-retaining profiles and gaskets to house glass panels up to a max thickness of 32 mm.
The base is 141 mm high and an internal seat houses the brushes for the thermal insulation and the sliding rails of the floor sliding block.
In the application coupled with the anti-panic break-through system APN, the profiles are coplanar with the structure and without visible hinges.
Rubber gaskets for the thermal insulation are fitted in the centre of the sliding leaves.
A “labyrinth” system is used on the sides consisting of two vertical profiles and an end-stroke gasket which intersect when doors are closed. This labyrinth increases the thermal insulation of the entrance and improves the resistance to breaking in the event of entrances coupled with anti-panic break-through system.
Pivoting rotation system of the leaves without cutting and crushing risk (also valid for the semi-fixed leaves of the anti-panic break-through system) in compliance with the Machine Directive.

REVOLVING DOORS

The use of reduced section profiles for the movable and fixed leaves allows the revolving doors to give the entrances an elegant and attractive appearance.
They can be designed according to aesthetic requirements of the customer to make the entrance original and giving the building a unique style.
They can be fitted an anti-panic breakout system to ensure that the necessary escape routes are provided.
They can be fitted an anti-panic breakout system to ensure that the necessary escape routes are provided Faac can provide the complete entrance or just the complete mechanism including the curved housing cover.

HERMETIC DOORS

FHE

FHE, ENTRANCES FOR HOSPITALS AND STERILE ENVIRONMENTS

AIRTIGHT SLIDING DOOR
WITH GLASS LEAF

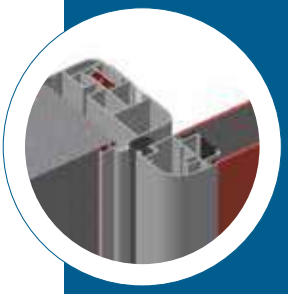
Hermetically sealed for hospitals and sterile environments

GUARANTEED HYGIENE

COMFORT AND SAFETY

AIRTIGHT AND SOUNDPROOFED

SLIDING DOORS



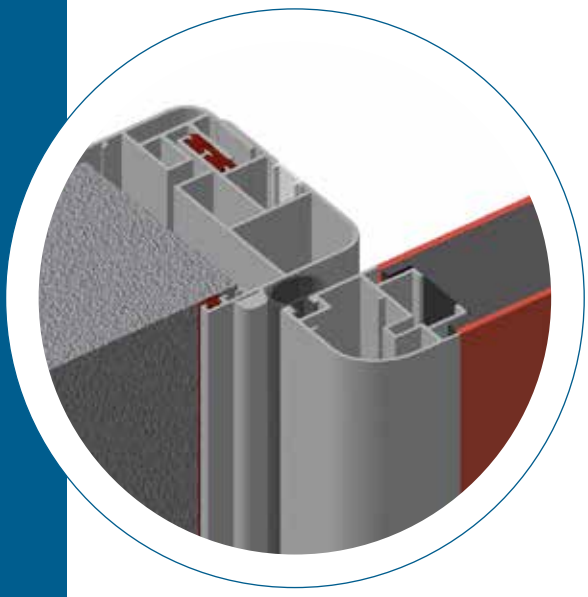
SLIDING DOORS

WE OFFER A TURNKEY SERVICE

The automatic/manual opening, single/double leaf sliding doors are ideal for bacterial contamination controlled environments.

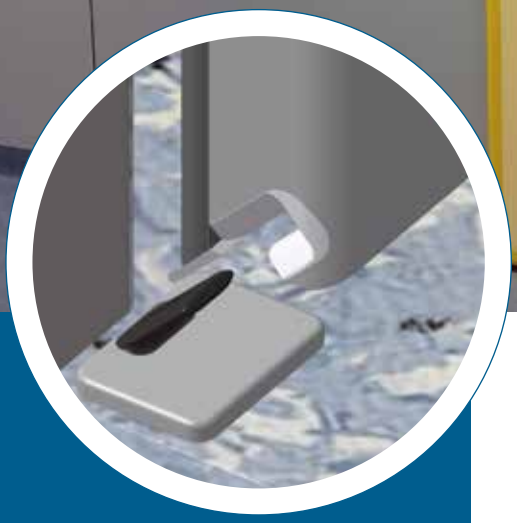
They can be easily installed on prefabricated systems and on any other type of wall. There are two versions available, an airtight version or a hermetically sealed version.

The sliding doors can be operated either automatically - using electromechanical components (with control, regulation and monitoring systems suitable for the application requirements) - or operated manually using handles.



AIRTIGHT SLIDING DOOR FHE-SSA/SSM

The leaf of this type of door moves in a horizontal direction only.
It is sealed vertically by seals installed on the leaf that rest against vertical profiles mounted on the door frame, whilst the upper and lower seals on the two horizontal edges of the leaf slide next to the horizontal profile of the door frame and the surface of the floor.

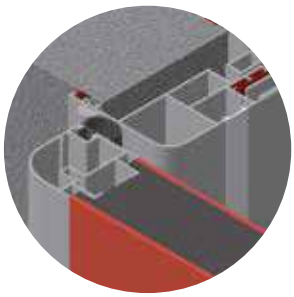


HERMETICALLY SEALED SLIDING DOOR WITH CLASS 4 AIR PERMEABILITY CERTIFICATION IN ACCORDANCE WITH EN12207

HERMETICALLY SEALED SLIDING DOOR FHE-SHA/SHM

The sliding leaf of the door becomes hermetically sealed against the edge profile of the door opening during the final closing stage by a combined sliding, vertical and inward movement. The leaf approaches the frame and the floor surface with a stroke of up to 20 mm and an inclination of 45°. The special design of the support and carriage guide enables the vertical and inward movements to be performed without the need for additional actuators. The hermetic seal, both on the door frame and the floor, is achieved by the compression of special seals installed on the perimeter of the leaf profile. At the bottom of the leaf, the specially shaped profile slides on two guide points (see fig. 1) that help to improve the hermetic seal.

TECHNICAL CHARACTERISTICS



DOOR FRAME

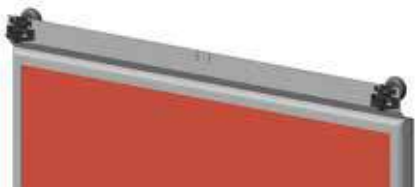
The door frame, which is adjustable on three sides, consists of a frame profile and a subframe profile made of extruded aluminium and/or wide circular shaped stainless steel.

Inside the frame profile there are special grooves designed for fastening it and to house the friction seal that joins it to the subframe profile. The groove is closed by a joint seal that is flush with the frame profile.

By using special extruded aluminium extension elements, the door frame can be used on walls of various thickness.

FINISHING PANELS

- SMS® (SOLID MINERAL SURFACE®) panel
- STAINLESS STEEL panel
- PAINTED STAINLESS STEEL panel
- HPL LAMINATE panel
- STRATIFIED HPL LAMINATE panel
- GLASS panel made of laminated safety glass 3 + 3 mm.



LEAF

The leaf is fitted with shaped extruded aluminium profiles with wide radius corners.

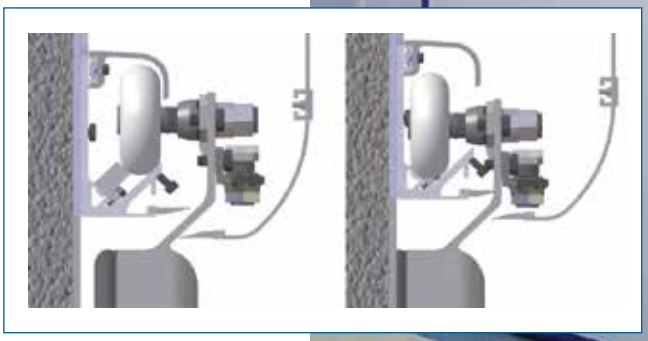
The top profile of the leaf is specially shaped to allow the carriage unit to be installed directly, without having to use an adapter profile. A special extruded non-toxic silicone seal is installed on the vertical profiles and the upper profile of the leaf. A special two-component seal with a lip facing the frame profile side is fitted into a special groove on the bottom profile of the leaf.

COVER

Protective housing and cover for the sliding mechanism in shaped extruded aluminium with wide radius corners and free from sharp edges and protrusions for easy cleaning. The housing profile contains a groove designed to receive the seal that completely closes its lower side in correspondence with the top profile of the leaf.

The ends of the housing profile are closed with end caps having the same curvature as the profile. The housing profile allows easy maintenance that can be carried out by just one person.

TARGETED SOLUTIONS



SLIDING MECHANISM

The leaf slides horizontally and vertically by means of a beam profile made of heavy gauge extruded anodised aluminium designed to be fastened to masonry walls or self-supporting prefabricated systems. The beam profile can house two carriages per leaf, each having a single nylon wheel mounted on ball bearings. The two wheel carriages ensure silent operation and distribute the weight of the door evenly over the full length of the beam. The wheel carriages make it possible to adjust the leaf both horizontally and vertically in order to compensate for any unevenness of the floor.

The beam profile can also house the anti-derailment profile made of extruded aluminium. The limit switches are made of a special extruded aluminium profile fitted with rubber buffers and a special floor guide made of Teflon coated steel.

Control unit with
switching power supply

USB port for updating
and exchanging configuration
data

CONTROLS AND SAFETY DEVICES

The door can be equipped with large elbow push-buttons, monitored sensors in accordance with EN16005, a back-up battery unit for opening the door in an emergency in the case of a power failure and a program selector.

The FHE door is compliant with the following EC directives:

- Machinery Directive: 2006/42/EC
- Electromagnetic Compatibility Directive: 2014/30/EU
- RoHS Directive 2011/65/EU

AUTOMATION SYSTEM

Its innovative "Energy Saving" device identifies the direction of transit and optimises opening / closing times to avoid unnecessary air dispersion.

The system is customisable and can be assembled to meet the technical requirements of the customer. Its aluminium cover, the exclusive leaf attachment systems and the various leaf profiles that are available make it is possible to achieve the best possible technical solution.

It is a personalised, ecological, reliable, safe, technologically advanced and durable system that is designed to operate at its best in any conditions and in any environment.

Power supply	220/240 V~ -50/60 Hz
Max power	140 W
Use frequency	100%
Max leaf thickness	65 mm
Electric motor	36V ⎓ with encoder
Auxiliary motor	36V ⎓
Max. accessories load	1A - 24 V DC
Drive type	Electro-conductive toothed belt
Opening speed adjustment	10 75 cm/s (1 leaf) - 20 150 cm/s (2 leaves)
Closing speed adjustment	10 75 cm/s (1 leaf) - 20 150 cm/s (2 leaves)
Partial opening adjustment	5 95% of total opening
Pause time	0 30 s or Energy Saving function
Night pause time	0 240 s
Encoder	standard
Safety sensor monitoring (EN 16005)	standard (may be bypassed)
Low Energy movement (EN 16005)	standard (may be bypassed)
Ambient operating temperature	-20°C + 55°C
Protection rating	IP 23 (for indoor use only)
Compliance with standards	EN 16005; EN 13489-1 PI "c" CAT.2; EN 13489-2; EN 60335-1; EN 60335 -2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

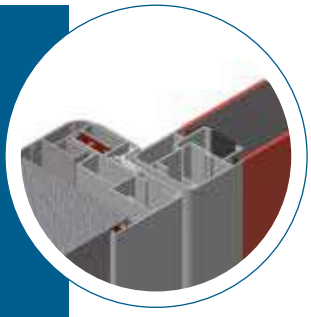
SWING DOORS

The FHE automatic/manual/semi-automatic single/double leaf swing doors are ideal for bacterial contamination controlled environments.

They can be easily installed on prefabricated systems and on any other type of wall. Standard, airtight or hermetically sealed versions are available.

The FHE swing doors can be operated either manually or automatically - using electromechanical components with control, regulation and monitoring systems suitable for the application requirements.

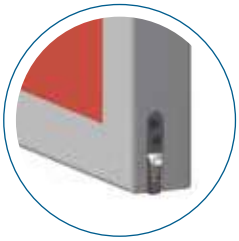
DESIGN SOLUTIONS



SWING DOORS FHE-HA/HM

With seals between the vertical profiles and the upper horizontal profile of the frame and the leaf.

AIRTIGHT SWING DOORS FHE-HSA/HSM

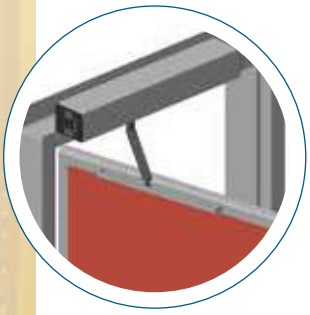


With seals between the vertical sides and the upper horizontal edge of the frame and the leaf, integrated with a retractable drop-down floor sealing system.

HERMETIC SWING DOORS FHE-HHA

Made in the same way as the airtight swing doors, but fitted with a special mechanical closing device that ensures a class 1 air permeability certification in accordance with EN14351.

CLOSING SYSTEM

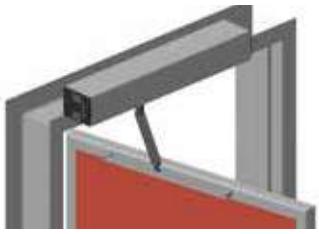


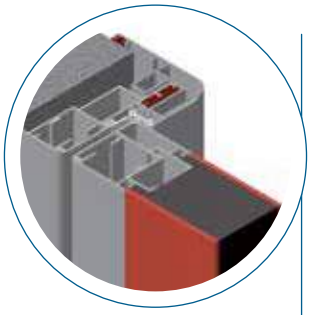
The FHE swing doors can be operated automatically, using electromechanical components with control, regulation and monitoring systems suitable for the application requirements, or they can be semi-automatically operated by a hydraulic system that enables them to be closed automatically.

HINGES

The FHE swing doors are fitted with concealed hinges that can be adjusted in all three dimensions to allow the leaf to adapt to all installation requirements. The FHE X-ray shielding swing doors are fitted with special hinges that can support the considerable weight of the leaf and enable it to be moved.

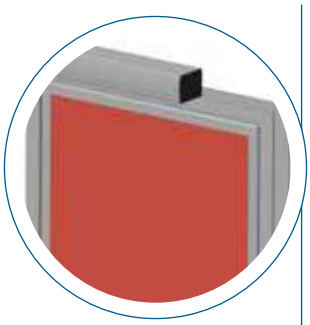
TECHNICAL CHARACTERISTICS





DOOR FRAME

The door frame, which is adjustable on three sides, consists of two elements, the frame profile and the subframe profile made of extruded aluminium and/or wide rounded shaped stainless steel. Inside the frame profile there are special grooves designed to house the friction seal that joins it to the subframe profile. The frame profile has also been designed with a special internal groove used for fastening it. The groove is closed by a joint seal that is flush with the frame profile. By using different extension elements made of extruded aluminium, the door frame can be used on walls of various thickness.



LEAF

The leaf is fitted with shaped extruded aluminium profiles with wide rounded corners.
The leaf profiles have been designed to accommodate special locks. The lower part of the leaf has been specifically designed to hold a draft excluder profile for swing doors.
In the FHE doors, the leaf profiles overlap the panel. In special cases, we can provide panels that are flush with the leaf.

VISION PANELS

The FHE doors can be supplied with a solid leaf or with a vision panel that is either flush with the door panel or surrounded by a frame (X-ray shielding applications).

FINISHING PANELS

- SMS® (SOLID MINERAL SURFACE®) panel
- ENAMEL STEEL, Asepsi Ceramicsteel® panel
- STAINLESS STEEL panel
- PAINTED STAINLESS STEEL panel
- HPL LAMINATE panel
- STRATIFIED HPL LAMINATE panel
- GLASS panel made of laminated safety glass 3 + 3 mm.

THE FHE SWING DOORS HAVE BEEN TESTED FOR SOUND REDUCTION OF 32dB ACCORDING TO UNI EN ISO 10140-1, UNI EN ISO 10140-2, UNI EN ISO 717-1

CONTROLS AND SAFETY DEVICES

The door is equipped with two large elbow push-buttons as standard; an active infrared safety sensor for the leaf rotation area when closing; an active infrared safety sensor with a wide operating range for the leaf-rotation area

when opening; a back-up battery for emergency operation, a key operated program function selector.

The FHE door is compliant with the following EC directives:

- Machinery Directive: 2006/42/EC
- Electromagnetic Compatibility Directive: 2014/30/EU
- RoHS Directive: 2011/65/EU

AUTOMATION SYSTEM

The 950N2 automation system with integrated spring allows the door to open and close in absolute silence.
The innovatively designed housing cover can be supplied in anodised extruded aluminium or moulded ABS.
The 950N2 automation system can also be used to automate double-leaf entrances by setting up two units in a master / slave configuration allowing the double leaf to be moved as if by a single system.
The automation system is equipped with two electronic boards: 950MPS (control board) and 950 I/O (input/output board). A microprocessor controls all door activity in real time and an encoder continuously detects its angular position. The operating logic (automatic, manual, night, open) can also be selected via an integrated selector.
The system is manufactured in conformity with the new European safety standards. The speed and force are programmed according to the dimensions of the door. If an obstacle is detected, the door re-opens immediately and as it closes, it checks, at reduced speed, that the obstacle is no longer present.
Carefully selected mechanical and electrical components means that our 950N2 automation system is able to move leaves weighing over 300 kg in continuous use, whilst always maintaining absolute operational safety.

Power supply	230 Vac (+6% -10%) 50 (60) Hz
Absorbed power	100 W
Use frequency	100%
Max leaf thickness	65 mm
Drive unit	24 Vdc motor with encoder
Drive type	Electromechanical with return spring
Anti-crushing safety device	standard
Dimensions	530 x 100 x 104 mm (IxhxD)
Weight	10 kg
Protection rating	IP 23
Opening angle	70° - 95°
Opening speed	adjustable from 30% to 100%
Closing speed	adjustable from 30% to 100%
Pause time	adjustable from 1 to 30 sec.
Standard operating functions	automatic-manual-open
Activation arms in stainless steel	articulated push arm, short shoe arm, standard shoe arm
Housing cover	ABS or aluminium

ACCESSORIES

SAFETY SENSOR

RECESSED MOUNTING ACCESSORIES

TOUCH BUTTON

ELBOW SWITCH

HANDLE

HANDLE

SWING LEAF SENSORS

FUNCTION SELECTOR

PROGRAMMER

PANIC BAR

VISION PANEL WITH VENETIAN BLIND

GUARD RAIL

CHOICE OF PROFILE COLOURS

STANDARD ANODIZED ALUMINIUM

RAL 1013
semigloss

RAL 1013
matt

RAL 1021

RAL 2002

RAL 3000

RAL 3002

RAL 3003

RAL 3005

RAL 5003

RAL 5007

RAL 5010

RAL 5015

RAL 6002

RAL 6003

RAL 6005
matt

RAL 6005
gloss

RAL 6011

RAL 6012

RAL 7001

RAL 7005

RAL 7016

RAL 7016
gloss

RAL 7035

RAL 7042

RAL 8003

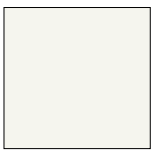
RAL 8011

RAL 8014

RAL 8016

RAL 8017

RAL 8019



RAL 9010

RAL 9001
gloss

RAL 9001
matt

RAL 9002

RAL 9004

RAL 9005

RAL 9006

RAL 9007

317-c
green

2707-c
light blue

Brushed Aluminium

Similar to Scotch Brite

CHOICE OF PANEL COLOURS

STANDARD HPL LAMINATE

ABET 406

ABET 414


ABET 431


ABET 435

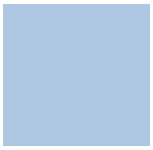

ABET 475

ABET 478

ABET 810


ABET 845


ABET 856


ABET 858


ABET 859


ABET 860


ABET 879

Other colours on the Abet® colour chart are available on request

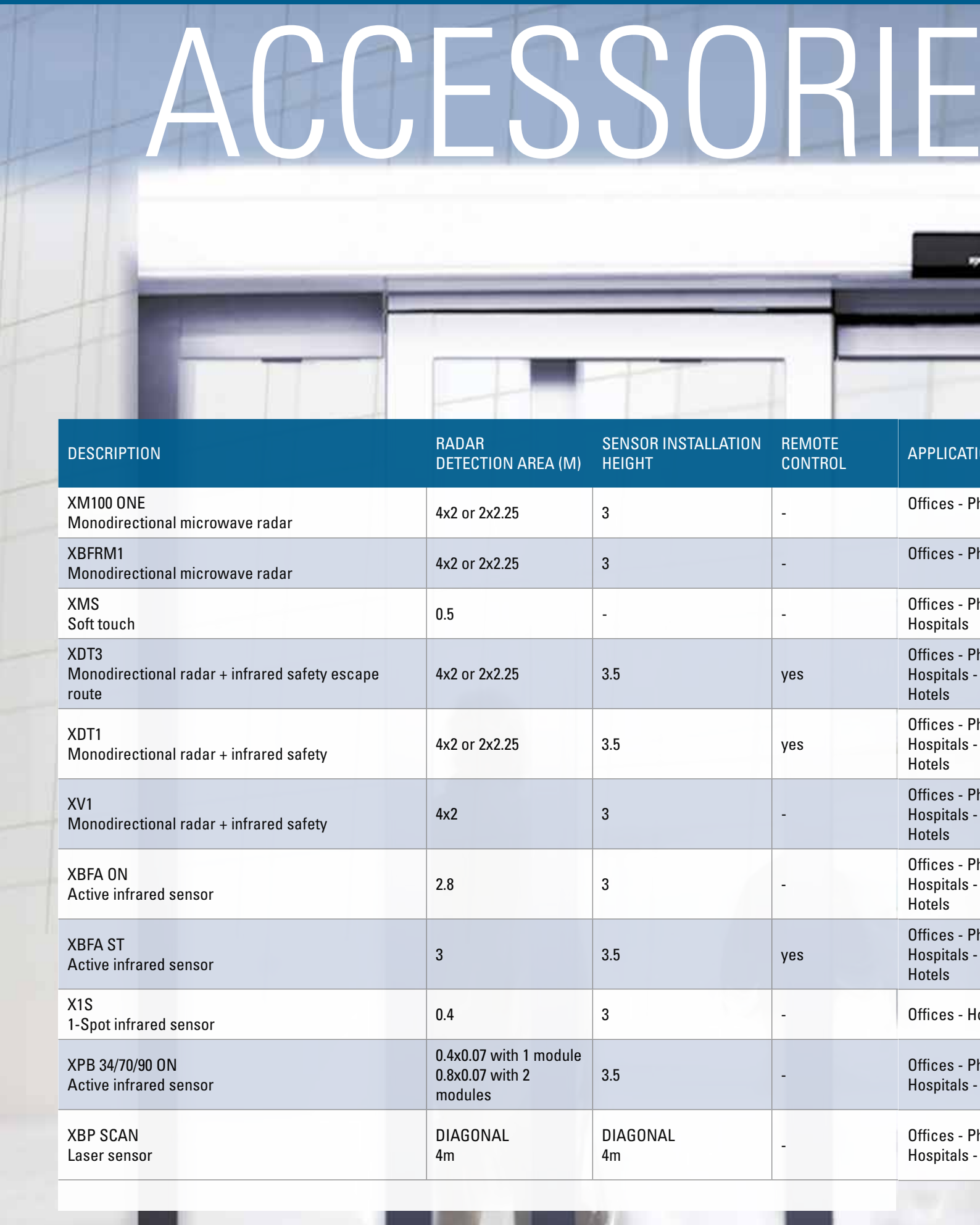
STANDARD SMS® (SOLID MINERAL SURFACE®)

2707-c
light blue

317-c
green

ON REQUEST
STAINLESS STEEL WITH SCOTCH BRITE FINISH
PAINTED STAINLESS STEEL
ENAMEL STEEL, ASEPSI CERAMICSTEEL®

ACCESSORIE



DESCRIPTION	RADAR DETECTION AREA (M)	SENSOR INSTALLATION HEIGHT	REMOTE CONTROL	APPLICATI
XM100 ONE Monodirectional microwave radar	4x2 or 2x2.25	3	-	Offices - Ph
XBFRM1 Monodirectional microwave radar	4x2 or 2x2.25	3	-	Offices - Ph
XMS Soft touch	0.5	-	-	Offices - Ph Hospitals
XDT3 Monodirectional radar + infrared safety escape route	4x2 or 2x2.25	3.5	yes	Offices - Ph Hospitals - Hotels
XDT1 Monodirectional radar + infrared safety	4x2 or 2x2.25	3.5	yes	Offices - Ph Hospitals - Hotels
XV1 Monodirectional radar + infrared safety	4x2	3	-	Offices - Ph Hospitals - Hotels
XBFA ON Active infrared sensor	2.8	3	-	Offices - Ph Hospitals - Hotels
XBFA ST Active infrared sensor	3	3.5	yes	Offices - Ph Hospitals - Hotels
X1S 1-Spot infrared sensor	0.4	3	-	Offices - Ho
XPB 34/70/90 ON Active infrared sensor	0.4x0.07 with 1 module 0.8x0.07 with 2 modules	3.5	-	Offices - Ph Hospitals -
XBP SCAN Laser sensor	DIAGONAL 4m	DIAGONAL 4m	-	Offices - Ph Hospitals -

S

ON / USE	RADAR TYPE	SENSOR TYPE	CERTIFICATION
harmacies	People and people + objects detection	-	-
harmacies	People and people + objects detection	-	-
harmacies	Soft touch	-	-
harmacies Shopping centres	People and people + objects detection	Safety of people and objects	EN16005 Energy Saving Escape routes
harmacies Shopping centres	People and people + objects detection	Safety of people and objects	EN16005 Energy Saving
harmacies Shopping centres	People and people + objects detection	Safety of people and objects	EN16005 Energy Saving
harmacies Shopping centres	-	Safety of people and objects	EN16005
harmacies Shopping centres	-	Safety of people and objects	EN16005
otels	-	Safety of people and objects	-
harmacies Hotels	-	Safety of people and objects	EN16005
harmacies Hotels	-	Safety of people and objects	EN16005

ACCESSORIES

XDT3 DUAL TECHNOLOGY "MOVEMENT AND PRESENCE" SENSOR FOR ESCAPE ROUTES

Opening and safety combined in a single sensor.
Monitored safety according to EN 16005

EN16005

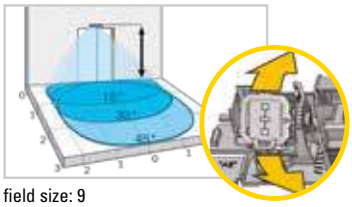
TECHNICAL SPECIFICATIONS

Power supply	12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10% (to be operated only with SELV compatible power supplies)	
Power consumption	< 2.5 W	
Mounting height	2 m - 3.5 m (local regulations may affect the recommended mounting height)	
Ambient operating temperature	-25°C a +55°C; 0-95% relative humidity, non condensing	
Protection rating	IP54	
Noise	< 70 dB	
Expected lifetime	20 years	
Applicable directives	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS2 2011/65/EU	
Detection method	Motion: Min. detection speed: 5 cm/s	Presence: Typical response time: < 200 ms (max. 500 ms)
Technology	Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm²	Active infrared with background analysis Spot: 5 cm x 5 cm (typ) Number of spots: max. 24 per curtain Number of curtains: 2
Output	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC Frequency output: Pulse signal (f = 100 Hz +/- 10%) Current output: Galvanically isolated direct current Status in "absence of detection": power supply ON Voltage in open circuit: 6.5 V Output voltage for 10 mA: 3 V min Typical charge: with up to 3 optical isolators in series Status in "detection": power supply OFF Residual voltage in open circuit: <500m V	Solid-state-relay (potential and polarity free) 100 mA 42 V AC/DC Hold time: 0.3 to 1 s
Test input		Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Test request response time: typical: < 5 ms
Compliance with standards	EN 12978 EN ISO 13849-1:2008 PL «d» CAT. 2 EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; AutSchR BS 7036-1:1996 Chapter 7.3.2 (applicable only for frequency and direct current outputs)	EN 12978 EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the door control system monitors the sensor at least once per door cycle) EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1

OPENING IMPULSE FIELD - RADAR

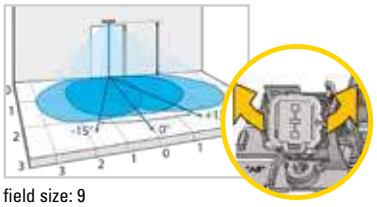
Angle:

15° - 45°



field size: 9
immunity: 2

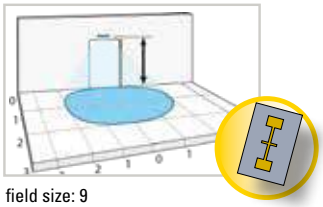
-15° - 15°



field size: 9
immunity: 2

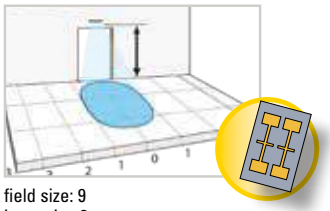
Width:

4m x 2m (wide)



field size: 9
immunity: 2

2m x 2.5m (narrow)

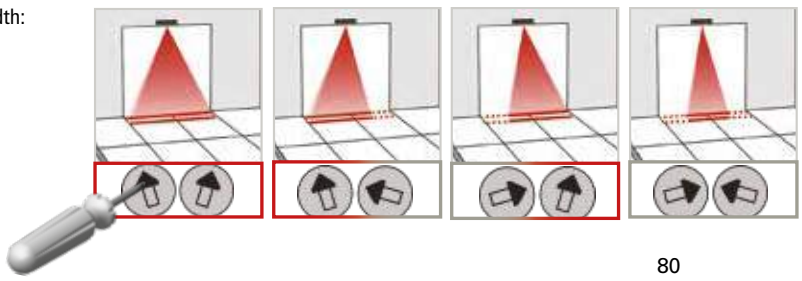


field size: 9
immunity: 2

The size of the detection field varies according to the mounting height of the sensor.

SAFETY FIELD - INFRARED

Width:



Part of the emitted field can be masked to reduce the detection field.
The arrows indicate the width of the detection field.

XDT1 DUAL TECHNOLOGY “MOVEMENT AND PRESENCE” SENSOR

Opening and safety combined in a single sensor.
Monitored safety according to EN 16005

EN16005

TECHNICAL SPECIFICATIONS

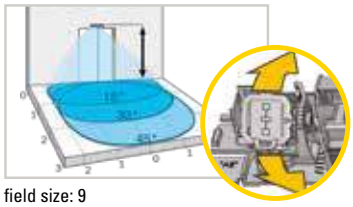
Supply voltage	12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10%	
Power consumption	< 2.5 W	
Mounting height	2 m - 3.5 m (local regulations may affect the recommended mounting height)	
Ambient operating temperature	-25°C to +55°C; 0-95% relative humidity, non condensing	
Protection rating	IP54	
Expected lifetime	20 years	
Applicable directives	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC	
Detection method	Motion Min. detection speed: 5 cm/s	Presence Typical response time: < 200 ms (max. 500 ms)
Technology	Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm²	Active infrared with background analysis Spot: 5 cm x 5 cm (typ) Number of spots: max. 24 per curtain Number of curtains: 2
Output	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC Hold time: 0.3 to 1 s
Test input		Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Test request response time: typical: < 5 ms
Compliance with standards		EN 12978 EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the door control system monitors the sensor at least once per door cycle) EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1

Specifications are subject to changes without prior notice. All values measured in specific conditions.

OPENING IMPULSE FIELD - RADAR

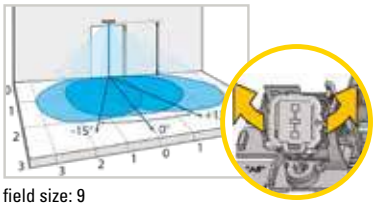
Angle:

15° - 45°



field size: 9
immunity: 2

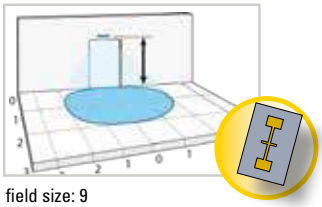
-15° - 15°



field size: 9
immunity 2

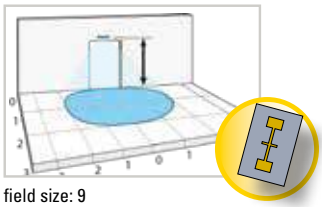
Width:

4m x 2m (wide)



field size: 9
immunity: 2

2m x 2.5m (narrow)

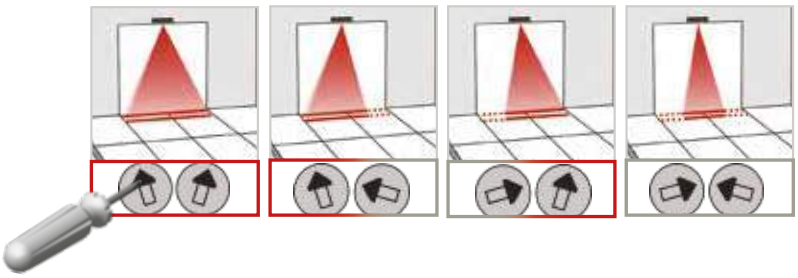


field size: 9
immunity: 2

The size of the detection field varies according to the mounting height of the sensor.

SAFETY FIELD - INFRARED

Width:



Part of the emitted field can be masked to reduce the detection field.
The arrows indicate the width of the detection field.

ACCESSORIES

XV1 DUAL TECHNOLOGY “MOVEMENT AND PRESENCE” SENSOR

Opening and safety combined in a single sensor.
Monitored safety according to EN 16005

EN16005

TECHNICAL SPECIFICATIONS

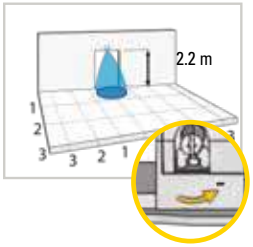
Supply voltage	12 V - 30 V DC -5%/+10%	
Power consumption	< 2.2 W	
Mounting height	From 1.8 m to 3 m	
Test input sensitivity	< 1 V : Log. L; > 10 V: Log. H (max. 30 V)	
Ambient operating temperature	From -25 °C to +55 °C	
Protection rating	IP54	
Noise level	< 70 dB	
Expected lifetime	20 years	
Compliance with standards	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU; EN 16005:2012; EN 12978:2009; EN IEC 62061:2005 SIL2, EN 61496-1:2012 ESPE Type 2; EN ISO 13849-1:2008 PI «c» CAT.2 (provided that the door control system monitors the sensor at least once per door cycle)	
	GREEN LED	RED LED
Detection method	Motion Min. detection speed: 5 cm/s	Presence Typical response time: <256 ms
Technology	Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm²	Active infrared with background analysis Spot diameter: 0.1 m (typ) Number of spots: 24 Number of curtains: 2
Angle	From 15 ° to 50 ° vertical (adjustable)	From -4 ° to +4 ° (adjustable)
Output	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC
Hold time	0.5 sec.	0.3 s to 1 s (not adjustable)
Test request response time: typical:		Typical: < 5 ms

Specifications are subject to changes without prior notice. All values measured in specific conditions.

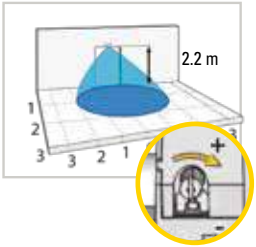
OPENING IMPULSE FIELD

GREEN LED

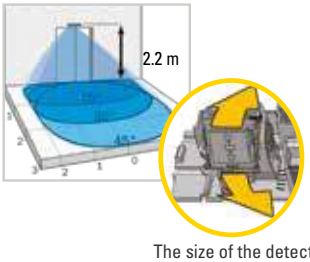
Width:
MIN 1 x 0.5 m



MAX 4 x 2 m

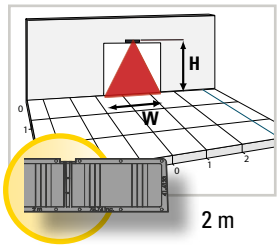


Angle:
field size: max



The size of the detection field varies according to the mounting height of the sensor.

INFRARED FIELD - SAFETY



H	W
2.20 m	2.30 m
2.50 m	2.55 m
3.00 m	2.80 m

Detection field width indicated according to conditions defined in EN 16005 and including dimension of test body CA.

XBFA ST DUAL TECHNOLOGY “MOVEMENT AND PRESENCE” SENSOR

Opening and safety combined in a single sensor.
Monitored safety according to EN 16005

EN16005

CE

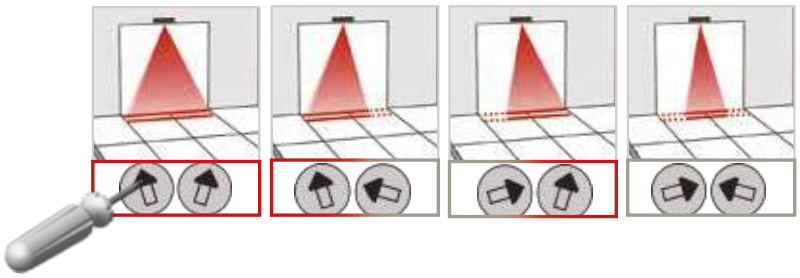
TECHNICAL SPECIFICATIONS

Power supply	12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10% (to be operated only with SELV compatible power supplies)
Max power	< 2.5 W
Installation height	2 m - 3.5 m
Ambient operating temperature	-25 ° C to + 55 ° C; 0-95% relative humidity, non-condensing
Protection rating	IP54
Noise level	< 70 dB
Expected lifetime	20 years
Applicable directives	MD 2006/42/EC; EMC 2004/108/EC; ROHS 2 2011/65/EU
Detection method	Presence Standard response time: <200 ms (max.500 ms)
Technology:	Active infrared with background analysis Spot: 5 cm x 5 cm (typ) Number of spots: max. 24 per tent Number of curtains: 2
Output	Solid state relays (standard) (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC / DC Hold time: 0.3 to 1 s
Test input	Sensitivity: Low: <1 V; High:> 10 V (max 30 V) Test request response time: typical: <5 ms
Certifications	EN 12978 EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the control system monitors the detector at least once for each door cycle) IEC 61496-1:2012 ESPE Type 2 EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1

N.B .: active infrared technology monitored according to EN16005 standard with double curtain for safety.

SAFETY FIELD

Width:



Part of the emitted field can be masked to reduce the detection field.
The arrows indicate the width of the detection field.

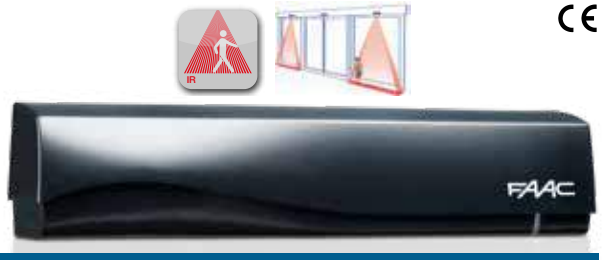
ACCESSORIES

Complies with EN16005

XBFA ON ACTIVE INFRARED "MOVEMENT OR PRESENCE" SENSOR

The "curtain" safety ideal for automatic doors
Monitored safety according to EN16005

EN16005

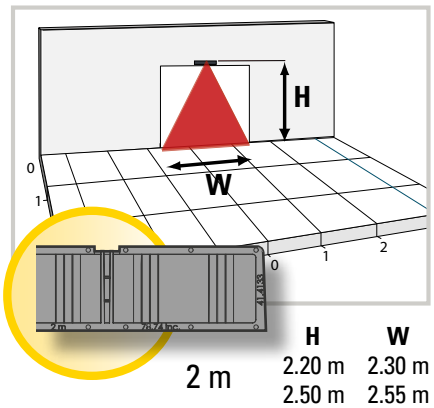


TECHNICAL SPECIFICATIONS

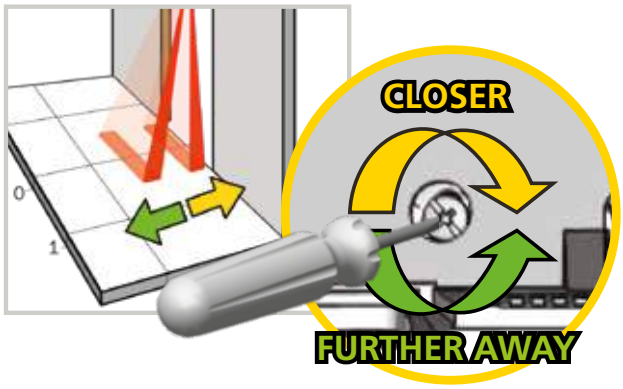
Supply voltage	12V - 30 V DC -5%/+10% (to be operated only with SELV compatible power supplies)
Power consumption	< 2.2 W
Mounting height	From 1.8 m to 3 m
Test input sensitivity	< 1 V : Log. L; > 10 V: Log. H (max. 30 V)
Ambient operating temperature	From -25 °C to +55 °C
Protection rating	IP54
Noise level	< 70 dB
Expected lifetime	20 years
Compliance with standards	MD 2006/42/EC; ROHS 2 2011/65/EU; EN 16005:2012; EN 12978:2009; EN IEC 62061:2005 SIL2; EN 61496-1:2012 ESPE Type 2; EN ISO 13849-1:2008 PI «c» CAT.2 (provided that the control system monitors the detector at least once for each door cycle) RED LED
Detection method	Presence Typical response time: <256 ms
Technology	Active infrared with background analysis Spot diameter: 0.1 m (typ) Number of spots: 24 Number of curtains: 2
Angle	From -4 ° to +4 ° (adjustable)
Output	Solid-state-relay (potential and polarity free) Output current max.: 100 mA Maximum breaking capacity: 42 V AC/DC
Hold time	0.3 s to 1 s (not adjustable)
Test request response time	Typical: < 5 ms

Specifications are subject to changes without prior notice.
Measured in specific conditions

DETECTION FIELD



H	W
2.20 m	2.30 m
2.50 m	2.55 m
3.00 m	2.80 m



“COMPACT” XM100 ONE ONE-DIRECTIONAL MICROWARE RADAR

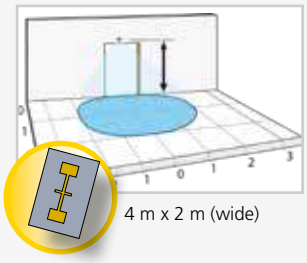
The smallest opening radar for automatic doors

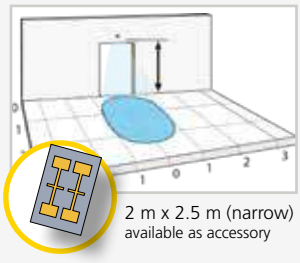
TECHNICAL SPECIFICATIONS

Technology	microwave doppler radar
Transmitter frequency:	24.150 GHz
Transmitter radiated power	<20 dBm EIRP
Transmitter power density	< 5 mW/cm²
Mounting height	From 1.8 m to 3 m
Tilt angles	0 ° to 90 vertical and -30 ° to + 30 ° lateral
Detection zone (installation height = 2.2m)	4m (L) x 2m (P)
Detection method	motion
Min. detection speed	5 cm/s (measured in sensor axis)
Supply voltage	12V a 24V DC +30% / -10%
Max. power consumption	< 2W (VA)
Output (electronic relay)	
Current max.	100 mA
Voltage max.	35 VDC / 24 VAC
Ambient operating temperature	From -20°C to +55°C
Protection rating	IP54
Certification	R&TTE 1999/5/EC; EMC 2004/108/EC
Material	ABS & polycarbonate
Colour	Black
Dimensions	80 mm (L) x 60 mm (A) x 55 mm (P)
Weight	140g
Cable length	2.5m

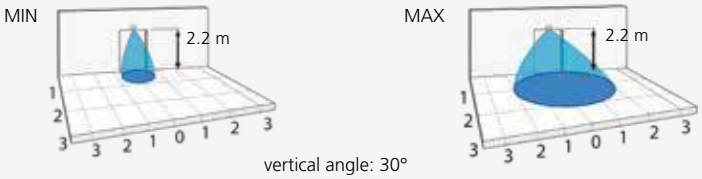
DETECTION FIELD

WIDTH

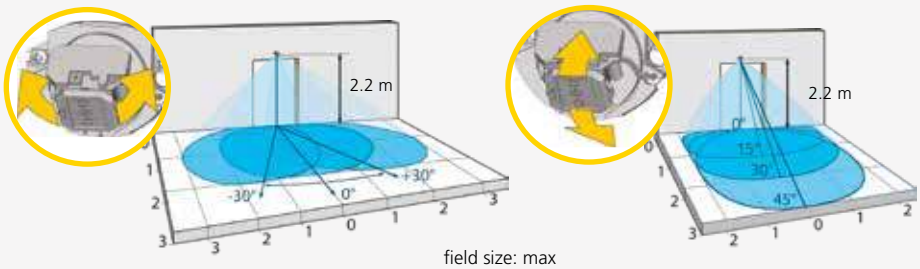




SIZE



ANGLE



ACCESSORIES

XBFRM 1 MONODIRECTIONAL MICROWAVE RADAR

The universal opening device for any type of automatic door with significant energy savings.

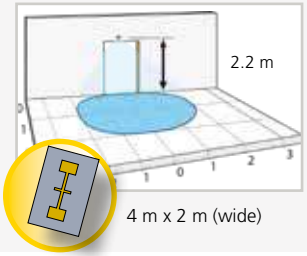
TECHNICAL SPECIFICATIONS

Technology:	Microwave doppler radar
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	<20 dBm EIRP
Transmitter power density:	< 5 mW/cm²
Detection method:	motion
Min. detection speed:	5 cm/s (measured in sensor axis)
Supply voltage:	12 V to 24 V AC ± 10%, 12 V to 24 V DC +30% / -10%
Mains frequency:	50 to 60 Hz
Max. power consumption:	<2 W
Output:	solid-state-relay (potential free change-over contact)
Max. contact voltage:	42 V AC/ DC
Max. contact current:	1 A (resistive)
Max. change-over power:	30 W (DC) / 60 VA (AC)
Mounting height:	From 1.8 m to 3 m
Protection rating:	IP54
Ambient operating temperature:	From -20 ° C to + 55 ° C
Dimensions:	120 mm (W) x 80 mm (H) x 50 mm (D)
Tilt angles:	0° to 90° vertical; -30° to +30° lateral
Material:	ABS
Weight:	120 g
Cable length:	2.5 m
Compliance with standards:	R & TTE 1999/5/CE, 2004/108/EC

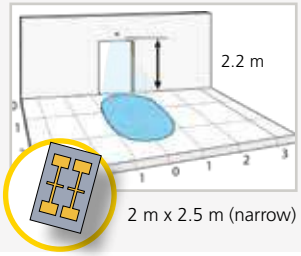
N.B .: the monodirectionality is a feature that allows to detect the people approaching the automatic door but not when they move away from it, thereby speeding up the closing times of the leaves.

DETECTION FIELD

WIDTH



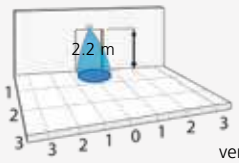
4 m x 2 m (wide)



2 m x 2.5 m (narrow)

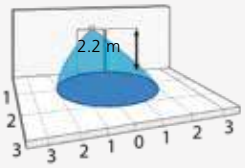
SIZE

MIN

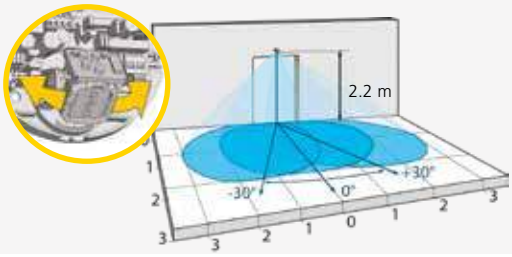


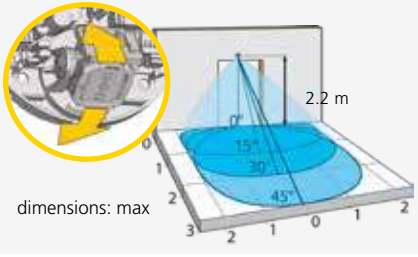
vertical angle: 30°

MAX



ANGLE





dimensions: max

X1S - 1 SPOT ACTIVE INFRARED “MOVEMENT OR PRESENCE” SENSOR

High-performance safety, positioned
on the upper profile of the door
for the absolute safety of people and property.

EN16005

TECHNICAL SPECIFICATIONS

Technology	active infrared
Detection method	presence detector with distance measurement
Detection area	35 x 70 mm (at a height of 2.2 m)
Response time	64 ms
Installation height	0.6 - 3 m
Power supply	12V - 24V AC/DC -5%/ +10%
Mains frequency	50 - 60 Hz
Maximum consumption	120 mA @ 24V AC/80 mA @ 24V DC
Standard output	relay (potential free contact) Maximum voltage at contacts: 42V AC / DC Maximum current at contacts: 1A (resistive) Maximum breaking capacity: 30W (DC) / 60VA (AC) 1 optocoupler (potential free contact)
Self-monitoring input	1 optocoupler (potential free contact) Maximum contact voltage: 30V Voltage threshold: high mode > 10V; low mode <1V
Maximum breaking capacity	30W (DC) / 60VA (AC)
Exit time	0.5 s
Reflectivity	min. 10% at an IR wavelength of 850 nm
Ambient operating temperature	From -25 ° C to +55 ° C; 0-95% humidity rel. Non-condensing
Protection rating	IP53
Compliance with standards	Electromagnetic compatibility (EMC) according to 2004/108 / EEC
Dimensions (WxHxD)	145 x 40 x 50 mm
Material	ABS (black)
Cable length	2.5 m

ACCESSORIES

ACTIVE INFRARED SENSOR XPB34-1 ON - XPB 70-1 ON - XPB90-2 ON

High-performance safety, positioned
on the upper edge of the door
for the absolute safety of people and property.*

CE

EN16005

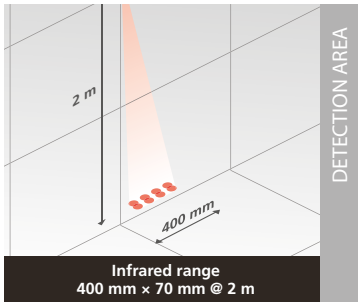
**** Monitored conforms to the new EN16005 regulation***

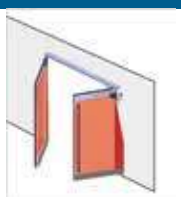
TECHNICAL SPECIFICATIONS

Technology	Active infrared with background suppression
Detection method	Presence and movement
Number of spots	4
Reflectivity	Min. 5% at an IR wavelength of 850 mm
Sensing range (2 m)	400 mm (L) × 70 mm (P)
Maximum number of units	4 (up to 6 if 24 V DC)
Power supply	12 V - 24 V AC +/- 10% 12 V - 30 V DC -5%/+10% (Operation possible only with low voltage protection (SELV) in the event of power failure)
Maximum current consumption	110 mA @ 24 V AC/70 mA @ 24 V DC; 190 mA @ 12 V AC/145 mA @ 12 V DC (MASTER) 85 mA @ 24 V AC/60 mA @ 24 V DC; 180 mA @ 12 V AC/113 mA @ 12 V DC (other modules)
Response time	64 ms (typ)
Maximum stay time	infinite (swing door) 1 minute (revolving door)
Output Maximum voltage at contacts Maximum current at contacts Non power capacity	2 relays (potential-free) 42 V AC/DC 1 A (resistant) 30 W (DC) / 60 VA (AC)
Input Maximum voltage at contacts Threshold of	1 optocoupler (potential free) 30 V high state: >10 V DC; low state: <1 V DC
Mounting height	1.1 m to 3 m (depending on the reflectivity of the ground)
Dimensions	Card : 300 mm section : L* × 43.5 mm (H) × 47.5 mm (D) L*: length of the second profile
Material	ABS/Aluminium/PC (colour : black)
Protection rating	IP53
Ambient operating temperature	25°C to +55°C
Humidity	0-95%, non-condensing
Regulatory Compliance	EMC 2004/108/EC; MD 2006/42/EC EN ISO 13849-1:2008 Performance Level «c» / CAT 2; (provided that the control system monitors the detector at least once for each door cycle)
Weight	120 g
Cable length	2.5 m
Certification	R & TTE 1999/5/CE, 2004/108/EC

Specifications are subject to change without notice.

DETECTION AREAS ON A HINGED DOOR





XPB SCAN

Laser sensor

MODEL

XPB-SCAN DX	Laser sensor for swing doors, right hand application
XPB-SCAN LH	Laser sensor for swing doors, left-hand application
XPB-SCAN DX+SX	Pair of laser sensors for swing doors, right and left application

MAIN FUNCTIONS

Power supply	12 V - 24 ⎓ +/-15%
Max power	< 2 W
Dimensions (WxHxD)	142 mm (L) × 85 mm (A) × 23 mm (P) (mounting frame + 7 mm)
Maximum detection distance	4 m (diag.) with 2% reflectivity (e.g. l = 1.5 m -> max H = 3.7 m)
Detection area	Leaf protection: 90 ° / Protection of the hinge area: 16 °
Tilt angle	+ 2 ° to + 10 ° (without mounting bracket)
Angular laser resolution	Door protection: 1.3 ° / Protection of the hinge area: 0.2 °
Laser emission characteristics	Wavelength 905 nm; max. pulse output 25 W; Class 1
Ambient operating temperature	-30°C to + 60°C when powered; 0-95% without condensation
Protection rating	IP54
Min detection speed	2°/sec
Casing material	PC/ASA - black
Detection method	Presence
Response time	Door protection: max 50 ms / Protection of the hinge area: max 90 ms
Technology	LASER-scanner, flight time measurement
Output	2 ELECTRONIC RELAYS (galvanized insulation - polarity free) Output current max: 100 mA Contact voltage: 42V ~ / ⎓ logo⎓DC
Certifications	EMC 2014/30/EU; LVD 2014/35/EU; MD 2006/42/EC; RoHS2 2011/65/EU; EN 12978; EN ISO 13849-1 PI "d"/ CAT2; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody A); EN 16005 Chapter 4.6.8 (testbody A)

ACCESSORIES

XTR B

Electronic pulse generators

MODEL

XTR B	Tag reader
XTR B INOX	Tag reader Inox

TECHNICAL SPECIFICATIONS

Model	XTR B	XTR B INOX
Type of installation	wall or column	wall or column
Power supply	Bus 2easy, 2-wire non-polarized 24 V ⎓	Bus 2easy, 2-wire non-polarized 24 V ⎓
Max power consumption	50 mA	50 mA
Max number of READERS that can be connected to the board with Bus2Easy	14 (Single channel) - 4 (Two-channel)	14 (Single channel) - 4 (Two-channel)
Protection rating	IP54	IP54
Dimensions (WxDxH)	100 x 72 x 21 mm	100 x 72 x 21 mm
Tag format	Keyring 13.56 MHz	Keyring 13.56 MHz

MOUNTING ACCESSORIES

External tube adapter

Adapter for column or recess

ACCESSORIES

Metal keytag

Keytag

BUS-RELAY 2CH Interface

BUS-RELAY 4CH Interface

PHOTOCELLS ARE AUXILIARY SAFETY DEVICES.
FOR THEIR CORRECT USE, REFER TO STANDARD EN 16005.

GLS MINISWITCH PHOTOCELL

consists of a transmitter and a receiver fitted with 8m connection cables.

RECESSED FRONT PANELS

for black plastic Miniswitch GLS

XFA BUTTON PHOTOCELL

PLASTIC ELBOW BUTTON

(dim. 95 x 250 mm)

ALUMINIUM ELBOW BUTTON

(dim. 95 x 250 mm)

XMRA RAIN PROTECTION

for XM100 ONE sensor

XBA1 MOUNTING BRACKET

for XBRM1 sensor

XRA1 RAIN PROTECTION

for XBRM1 sensor

ACCESSORIES

XMS TOUCH BUTTON

XMS-VB WALL MOUNTING BRACKET

for button XMS sensor

X1S-SMA FIXING BRACKET FOR X1S

only for X1S

XDT-BA MOUNTING BRACKET

for XDT1 and XV1 sensor

XDT-CA BUILT-IN CEILING SUPPORT

for XDT1 and XV1 sensors

XV1-CA BUILT-IN CEILING SUPPORT

only for XV1 sensors

XDT-RA RAIN PROTECTION

only for XDT1, XDT3, XV1 and XBFA ON/ST

XSH MULTISENSOR CARD

to connect up to 4 XPB

You can download here
https://faac.ec/faac_automatic_doors
the following additional documents:

- EU DECLARATIONS OF CONFORMITY
- CERTIFICATIONS
- BROCHURES
- TK20 AND TK50 COMMERCIAL DRAWINGS
- INSTRUCTION MANUALS
- TECHNICAL DRAWINGS
- PHOTO GALLERY
- VIDEOS
- SPECIFICATIONS

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