



Protecting what's  
important to you



## AUTOMATIC DOORS

Auto Doors - Sliding Doors - Swing Doors



# Welcome to the Commercial & Industrial range of Automatic Doors

Arrow supply & fit physical security products and have been protecting properties since 2001

Although often overlooked, securing your property provides peace of mind by protecting the things that matter most to you, whether that's your customers, home and family or your business and consequently your livelihood. With so much choice, choosing a security product that most suits your needs can seem like a daunting task but Arrow Security shutters industry leading products address all requirements and are manufactured, supplied and installed by industry experts who are there to offer advice and guidance beginning with your initial enquiry through to installation and after care.

The emphasis behind our range of Auto Door designs is on integration into your building and way of life; unobtrusive, attractive and easy to use. Proudly installed to complement the look of the building. All products ensure they are effective and secure in daily use.

Contact one of our team today who will be able to offer expert guidance and advice to ensure a tailor made solution.

## All Auto Door products are:

- ✓ Made to measure for a tailor made security solution
- ✓ CE Marked – Investing in a CE marked product means you are purchasing a product that is fully compliant with all European directives
- ✓ Designed to integrate security seamlessly
- ✓ CAD Drawings Available

## Open to every possibility.

Discreet, elegant, never bulky and always safe, the A1400 AIR RD automatic door offers infinite solutions, all based on the technological innovation that has always set the A1400 AIR RD product apart in the world of automation.

The A1400 AIR RD 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.



## 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.

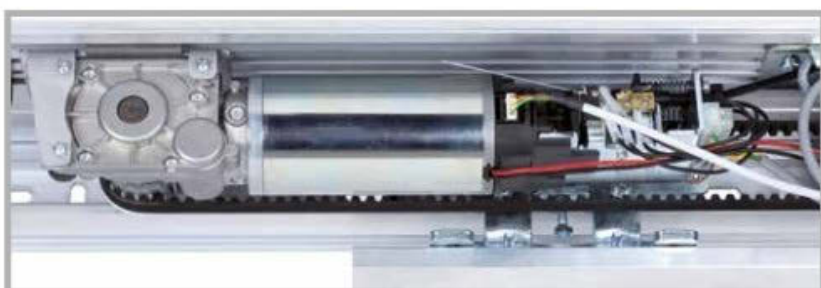


Designed to operate at best in any condition and in any environment, it is the ideal solution for technicians who wish to save assembly time, by rationalizing inventories for the final customer who will have full access to a product that is personalized, ecological, reliable, safe, technologically advanced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



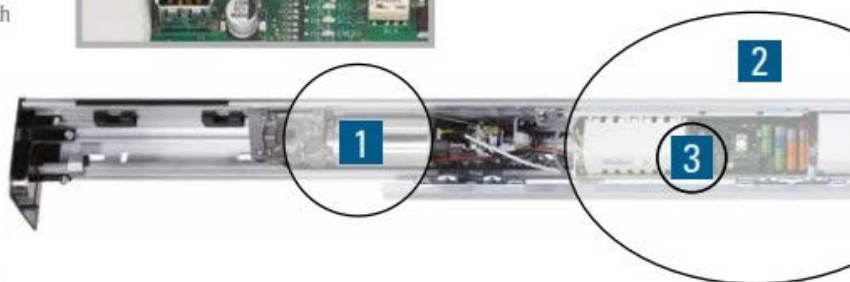
**3** USB port for updating and exchanging configuration data

**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.**



## 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.



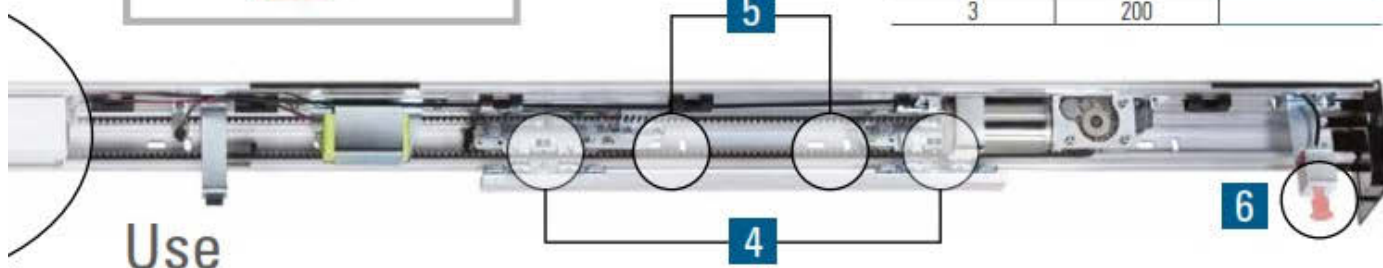
### 5 Slots for fast mechanical installation



### 6 Manual release with knob

#### \* Max. leaf weight

L [m]	Single leaf	Double leaf
	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	



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

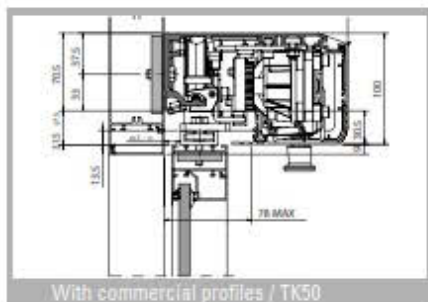
**Operating function selection: using a key with led indication of the selected function.**  
 Diagnostic: trough a combination of flashing leds



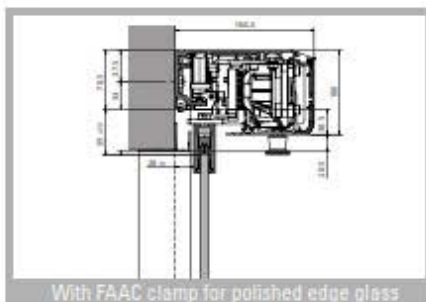
# Automation for sliding doors on escape routes

## The right solution for all your needs

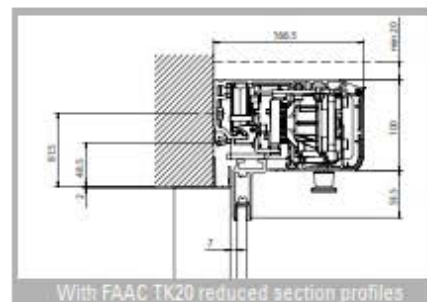
### Solutions with cover h 100 mm



With commercial profiles / TK50

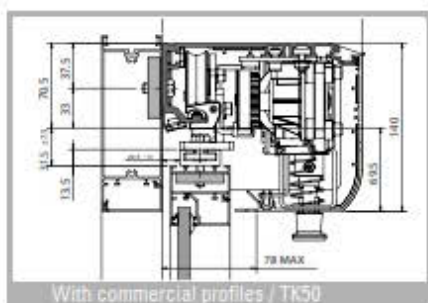


With FAAC clamp for polished edge glass

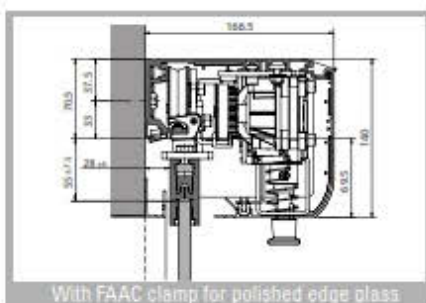


With FAAC TK20 reduced section profiles

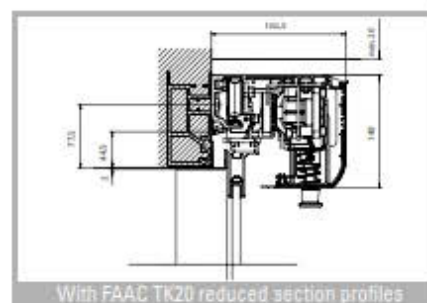
### Solutions with cover h 140 mm



With commercial profiles / TK50

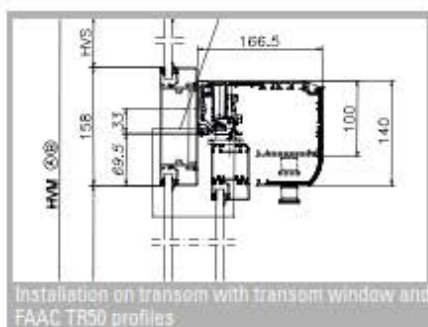


With FAAC clamp for polished edge glass

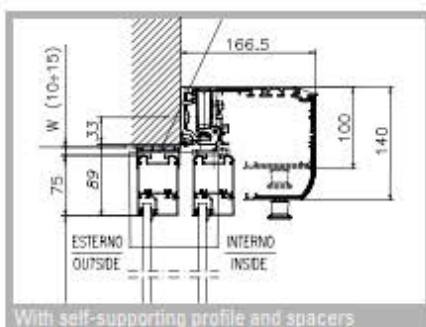


With FAAC TK20 reduced section profiles

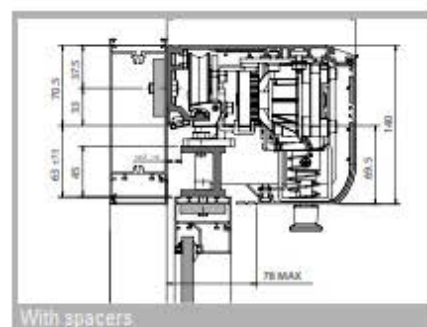
### Solutions with special versions h 100 mm and h 140 mm



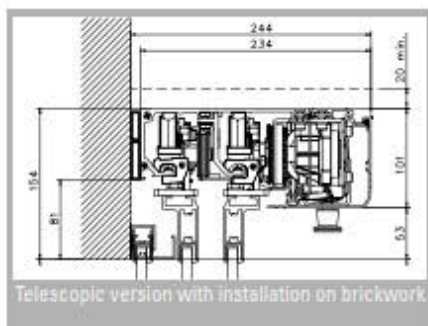
Installation on transom with transom window and FAAC TR50 profiles



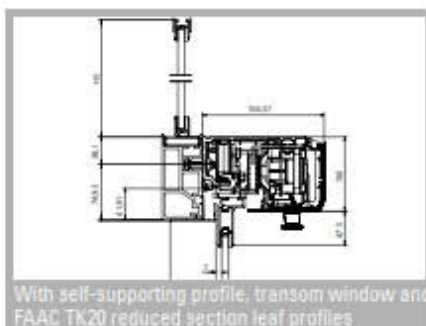
With self-supporting profile and spacers



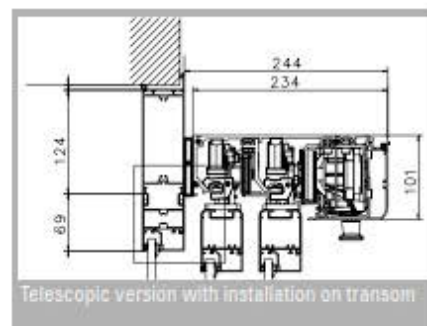
With spacers



Telescopic version with installation on brickwork



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



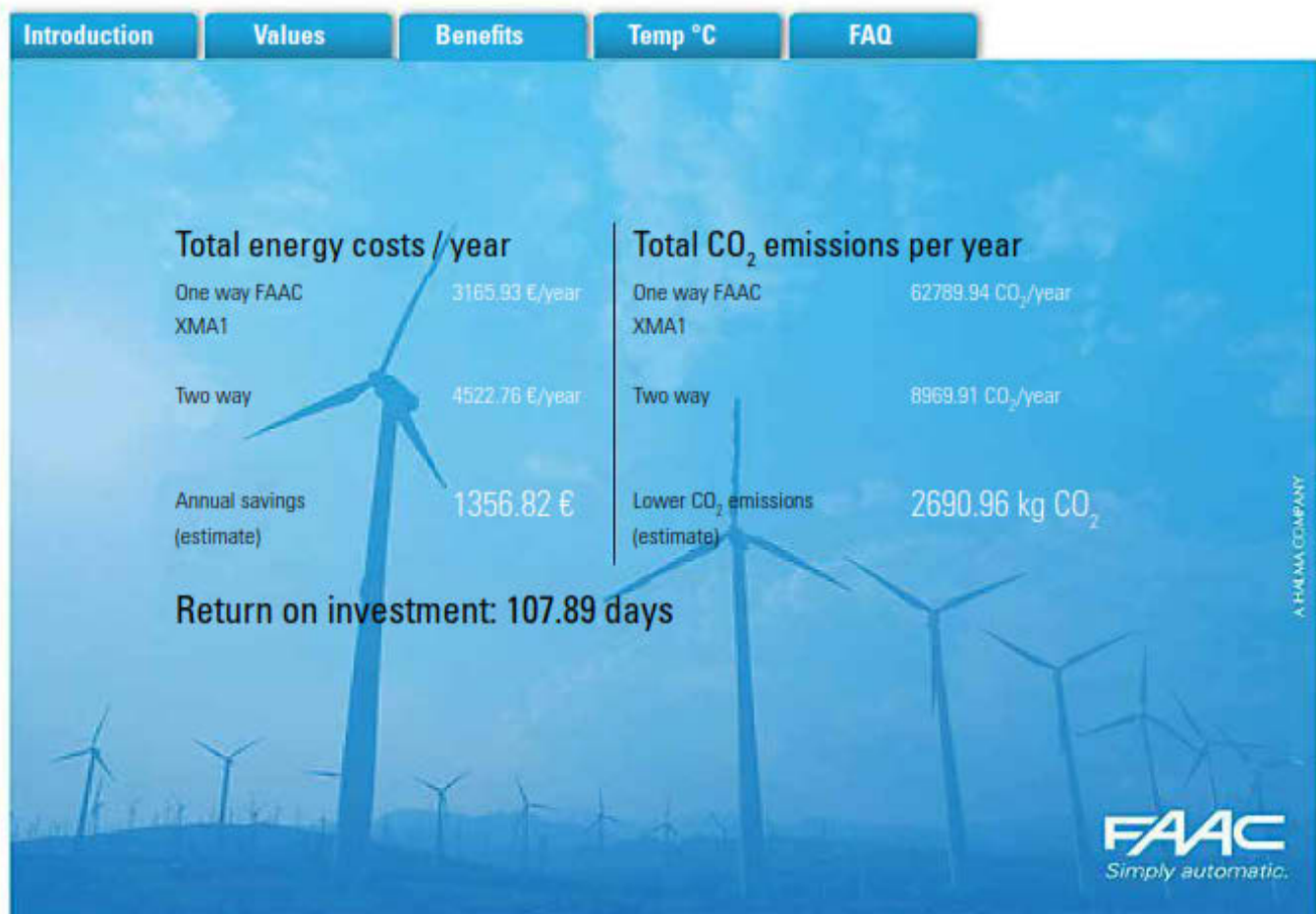
Telescopic version with installation on transom

## 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<sub>2</sub>).

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<sub>2</sub> 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](http://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

## The future is here

The A1400 AIR SERIES automations are designed to automate entrances in compliance with European standard EN16005; in fact, they are able to meet the most stringent safety requirements of EN 13489-1 Pl "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 possible to achieve the best technical and architectural solution.

## Perfection in every respect

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.



## 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 Pl "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3



MOTOR WITH ELECTRIC LOCK

1



TELESCOPIC VERSION

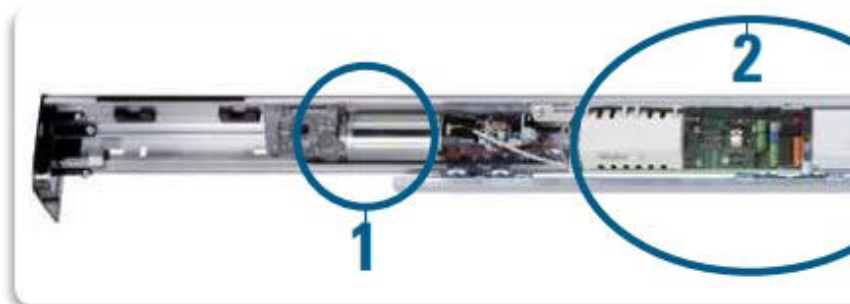
3



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.**



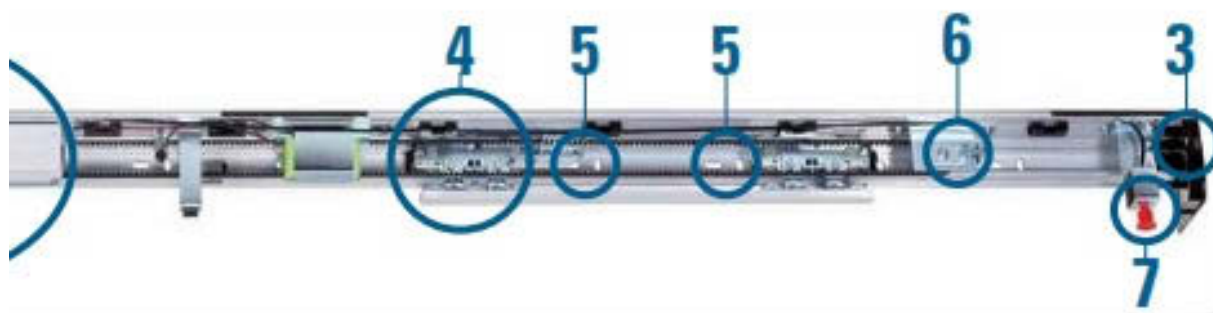
SLOTS FOR FAST MECHANICAL INSTALLATION

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



### 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

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



MONOSTABLE XM LOCK MOTOR BLOCK



BISTABLE XB LOCK MOTOR BLOCK W/KNOB



MOTOR BLOCK AND LEAF POSITION MONITORING



XTRB TAG READER



# A 1000



Automation for sliding doors

single leaf, two leaf with continuous use

Slim and stylish

Its compact dimensions make the 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

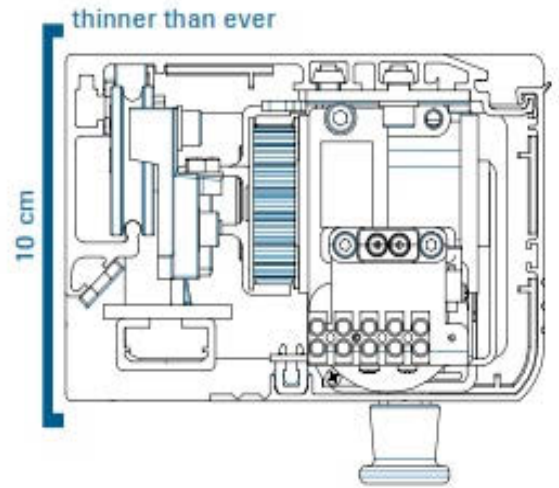
Designed to operate at its best every time and in every environment, the A1000 is automatically reliable and without any limits to the frequency of use. In the event of power failure, charge-monitored buffer batteries (optional) guarantee 100% operation for thirty minutes.

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.



EN16005



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.

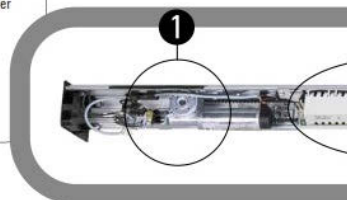
Compliant with European standard EN 16005 Power operated pedestrian doorsets - Safety in use.

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

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





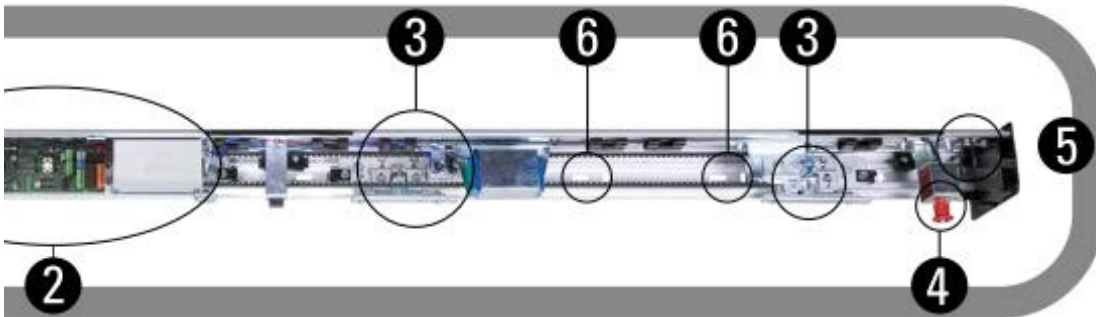
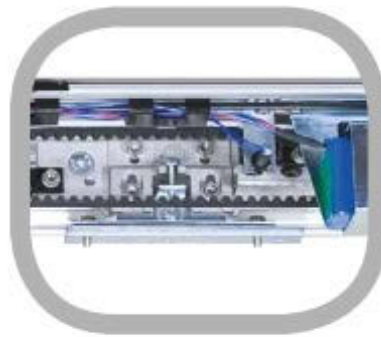
**Accessories**

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.

**2 Control unit E1SL**



**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



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

## Automation for sliding doors



## 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 Pt "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

# 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.

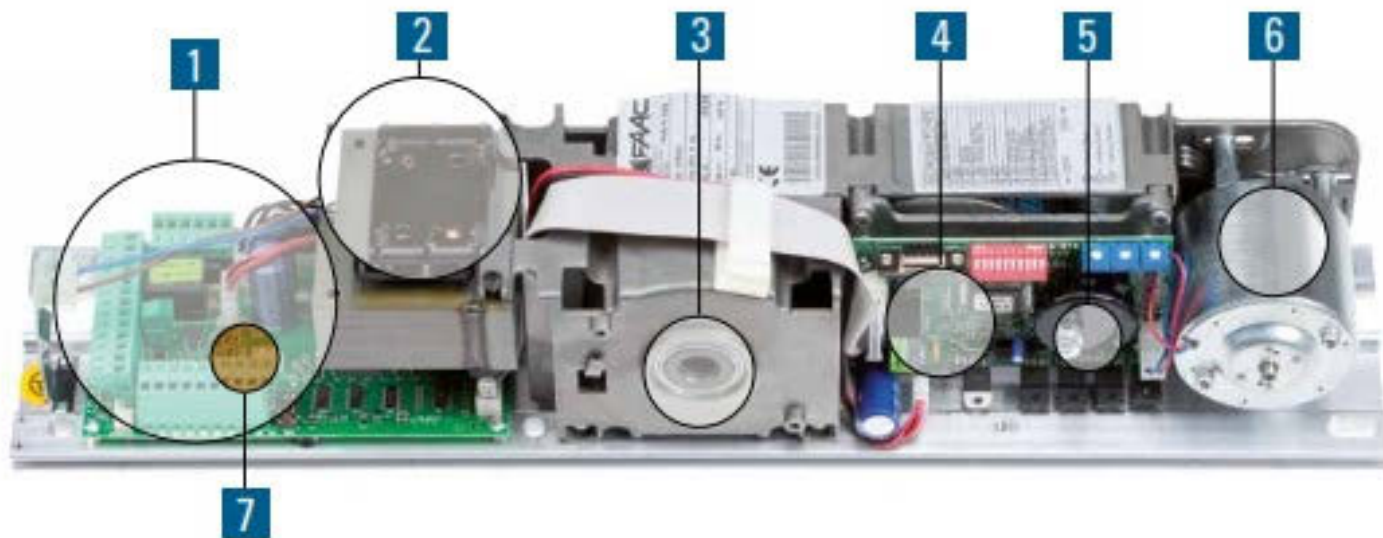
### Powerful and reliable

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

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



**4** Control unit 950MPS



**2** Lamellar transformer



**5** Encoder



**3** Return spring with activation arm coupling



**6** DC motor

### Automatic adjustments

"Open" and "closed" position determination.

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



**7** Radio receiver connector

## Use

Modell	Leaf length (mm)	Max. leaf weight (kg) <i>Articulated push arm</i>	Max. leaf weight (kg) <i>Short shoe arm</i>	Max. leaf weight (kg) <i>Standard shoe arm</i>
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



## Automated system for swing doors

### 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

# Reasons

to Choose

## Arrow Security Shutters



✓ **A name you can trust**

When buying a commercial or industrial Automatic Door you can be reassured by the values behind the name.

✓ **Expert Advice**

With a local expert on hand you can be confident in choosing a product that suits your needs and provides a seamless finish to your property.

✓ **A Solution for everyone**

With so much choice Arrow Security Shutters products can accommodate almost any requirement. Whether you need a sliding door or swing door.

✓ **Engineered to perfection**

Through continuous development and specialist engineering, products offer unrivalled quality and the most advanced specifications

Automatic Doors

Sliding Doors

Swing Doors

## Peace-of-Mind Warranties

All products are guaranteed against defect of material or workmanship by, subject to correct installation, maintenance and operation, for a period of one year from date of purchase.

### CONTACT US

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