



AUTOMATION SYSTEMS FOR SLIDING DOORS



WING NK / WING NK H10• / SLIM SNK

Smooth, accurate, silent movement.

Aprimatic offers a wide range of automation solutions for sliding doors. Products designed to provide top reliability in a wide range of applications for offices, shops and supermarkets.

All automation components feature compact, attractively designed extruded aluminium housings. The units are easy to install and do not require specialised skills or masonry work.

The automation units are equipped with intelligent electronic control systems which require very few adjustments. This makes for quicker installation and easier maintenance operations, while guaranteeing total safety.

Drive system with a toothed HPPD rubber drive belt. The belt is reinforced with a glass fibre core and has a non-slip coating. Modular carriages with large-diameter reinforced-nylon wheels running on upper and lower semicircular cross-section rails. The carriage modules feature an anti-derailment, anti-pitching, load-balancing system. Reversible DC Gear motor with electronic pulse width control. Υ -channel optical encoder connected

to the motor for electronic position and speed control. The control units ensure the highest levels of safety and reliability. Performance features include: stroke length, wing weight, braking force and braking distance self-learning. They also guarantee the emergency battery charge. Compact and aesthetically pleasing aluminium profile covers, available in natural, anodised silver and anodised black versions.

Wing NK

Reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with high traffic levels. Designed for medium-heavy loads.

Max. load for heavy-duty use (5 cycles/min.):
For Υ wings, 100 kg each for one wing 100 kg.
Max. load for continuous use (2 cycles/min.):
For Υ wings, 80 kg each for one wing 120 kg.

Wing NK H10•

New reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with high traffic levels. Designed for medium-heavy loads.

Max. load for heavy-duty use (5 cycles/min.):
For Υ wings, 100 kg each for one wing 100 kg.
Max. load for continuous use (2 cycles/min.):
For Υ wings, 120 kg each for one wing 100 kg.

Slim SNK

Reversible single-motor automation for sliding doors. Suitable for shops, supermarkets and offices with medium traffic levels and medium-light loads.

Max. load for NON intensive use (2 cycles/min.):
For Υ wings 50 kg each, for one wing 100 kg.
Max. load for heavy-duty use (5 cycles/min.):
For Υ wings, 80 kg each for one wing 50 kg.

AUTOMATION SYSTEMS FOR SLIDING DOORS



• Q. Home automation

• P. Sliding doors

• T. Windows and domes

• T. Side-hung shutters

• I. Rolling shutters

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TECHNICAL DATA

WING NK 1
WING NK 2WING NK H 150 1
WING NK H 150 2SLIM SNK 1
SLIM SNK 2

GENERAL FEATURES

AUTOMATION POWER SUPPLY	Single-phase 230 Vac (+/- 10%) - 50 Hz		
MOTOR POWER SUPPLY	24 Vdc with high performance toroidal transformer		
ACCESSORY POWER SUPPLY	24 Vdc/Vac	24 Vdc/Vac	24 Vdc/Vac
OPERATING TEMPERATURE RANGE	-20°+60° C	-20°+60° C	-10°+60° C
INSTALLED POWER (MAX.)	300 W	300 W	130 W

DIMENSIONS in mm

BULK (HxD) mm	152x172	152x172	152x172
MIN./MAX. BEAM LENGTH mm	1,110-2,010	1,110-2,010	1,110-2,010
MIN./MAX. PASSAGE SPAN mm	150-2,950	150-2,950	150-2,950

WING LOAD CAPACITY in kg

MAX. LOAD	100x1 100x2	150x1 150x2	100x1 100x2
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SPEED in cm/s

MIN./MAX. OPENING SPEED	11-70 (1 wing) 22-150 (2 wings)	11-70 (1 wing) 22-150 (2 wings)	40-60 80-120
MIN./MAX. CLOSING SPEED	11-70 (1 wing) 22-150 (2 wings)	11-70 (1 wing) 22-150 (2 wings)	11-50 22-100
APPROACHING SPEED	6	6	6

DRIVE TRANSMISSION

TRANSMISSION	Toothed HPPD belt		
CARRIAGE TYPE	Modular, T-wheel carriages (T for each wing)		
ROLLING TYPE	On reinforced-nylon wheels		



AUTOMATION SYSTEMS FOR SLIDING DOORS

TECHNICAL DATA

WING NK 1
WING NK 2WING NK H 100 1
WING NK H 100 2SLIM SNK 1
SLIM SNK 2

SELF-LEARNING FUNCTIONS (at power on or after a reset)

OPENING STROKE LENGTH	YES	YES	YES
CLOSING STROKE LENGTH	YES	YES	YES
WING WEIGHT	YES	YES	YES
BRAKING SPACES (adaptive)	YES	YES	YES
OPENING SPEED	YES	YES	YES
CLOSING SPEED	YES	YES	YES

STANDARD FUNCTIONS (selected from key-operated switch or keypad)

NIGHT LOCK	YES	YES	YES
AUTOMATIC TWO-WAY	YES	YES	YES
AUTOMATIC EXIT ONLY	YES	YES	YES
AUTOMATIC ENTRY ONLY	YES	YES	YES
COMPLETELY OPEN	YES	YES	YES
AUTOMATIC PARTIAL OPENING	YES	YES	YES
MANUAL OPENING	~	~	~
NIGHT SERVICE OPENING	~	~	~
RESET	YES	YES	YES

EMERGENCY FUNCTIONS

INPUT FOR EMERGENCY PUSH-BUTTON	YES	YES	YES
ELECTRIC EMERGENCY OPENING DEVICE WITH BATTERY	YES	YES	YES
EMERGENCY OPERATION WITH BATTERY	YES	YES	YES
STOP INPUT	YES	YES	YES

SAFETY FUNCTIONS

INPUT FOR SAFETY PHOTOCELL	YES	YES	YES
OBSTACLE DETECTION (adaptive)	YES	YES	YES

ADJUSTABLE PARAMETERS

OPENING SPEED	YES	YES	YES
CLOSING SPEED	80% opening speed (dipswitch)	YES	YES
APPROACHING SPEED	YES	YES	YES
OPEN PAUSE TIME	YES	YES	YES
THRUST FORCE	YES	YES	YES
ELECTRIC LOCK ACTUATION DELAY	YES	YES	YES
PARTIAL OPENING PERCENTAGE	YES	YES	YES

DIAGNOSTICS

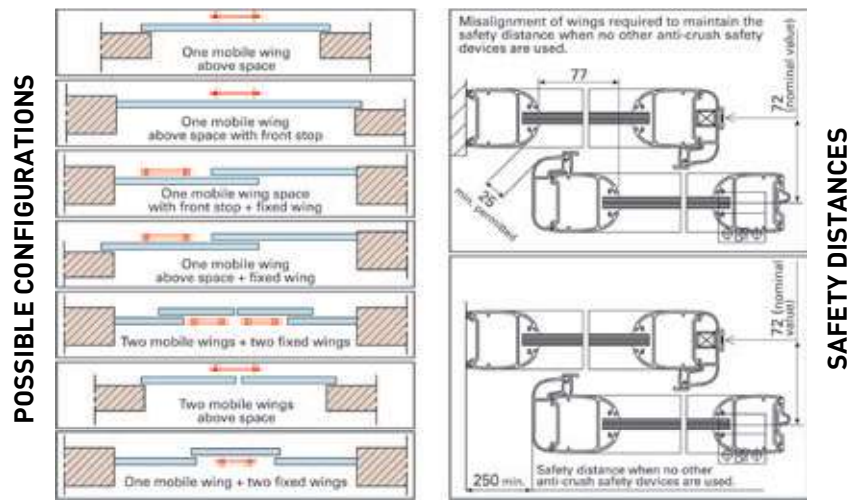
IDENTIFICATION OF DIFFERENT ALARMS AND WARNINGS	YES	YES	YES
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ADDITIONAL FUNCTIONS (OPTIONAL)

BISTABLE ELECTRIC LOCK WITH SELF-TEST	YES	YES	YES
BUILT-IN EMERGENCY BREAK-OUT OPENING DEVICE	YES	YES	YES
INTERLOCK FUNCTION	YES	YES	YES
MANUAL RELEASE	YES	YES	YES

POSSIBLE CONFIGURATIONS

EXAMPLES OF AUTOMATION SYSTEM CONFIGURATIONS



AUTOMATION + COVER + SCƒ + ERƒ + NS ƳΛ*

AUTOMATION + COVER + SCƒ + ERƒ + 1-Ƴ RADAR + NS ƳΛ*

AUTOMATION + COVER + SCƒ + ERƒ + 1-Ƴ RADAR + NS ƳΛ* + EBƳ

AUTOMATION + COVER + SCƒ + ERƒ + 1-Ƴ RADAR + NS ƳΛ* + EBƳ + SME

+ DCA

AUTOMATION + COVER + SCƒ + ERƒ + 1-Ƴ RADAR + NS ƳΛ* + EBƳ

+ RADIO

+ DCA

AUTOMATION + COVER + SCƒ + ERƒ + 1-Ƴ RADAR + NS ƳΛ* + EBƳ + SME

+ RADIO

KeyAUTOMATION Choose the model (complete operator assembly or beam system plus module) from the available range: **WING NK - WING NK H1Δ - SLIM SNK**COVER Choose the cover with the desired surface finish from one of the following: **natural, silver, black**SCƒ Choose the key-operated selector (REQUIRED): **SCƒ WIRELESS - SCƒ EC - SCƒ**ERƒ Choose the photocells: **ERƒ UNI - ERƒ/N**1-Ƴ RADAR Choose the radar: **DM-ΛƳ, RI-HƳSAFE, RI-H ƳACTI, RI-H Δ DM-H ƳƳ**

NS ƳΛ* *Batteries supplied as a standard on all models

EBƳ Electric lock: **EBƳ**SME Choose the Emergency Manual Release device: **SME/E - SME/I installable only with EBƳ**DCA Choose Alternative Control Devices, if necessary: **PC1ƳE - PRΔ - LBƳ - CT Ƴ** (see the "Electronic devices" section - refer to the initial index)RADIO Choose the remote control and receiver: **TMƳ; PLUS SCƒ WIRELESS**



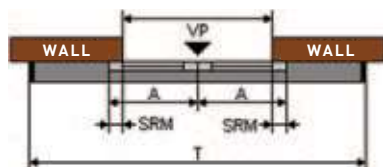
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DOORS, WINDOWS AND SHUTTERS

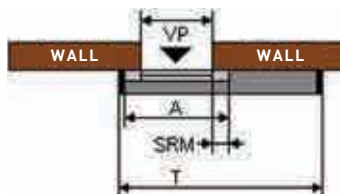
AUTOMATION SYSTEMS FOR SLIDING DOORS

EX. OF AUTOMATION SYSTEM DIMENSIONING

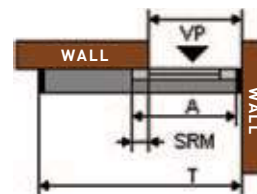
Two-wing automation system:
Wing NK, Wing NK H10•



RH single-wing automation system:
Wing NK, Wing NK H10•



LH single-wing automation system:
Wing NK, Wing NK H10•



	Known A	Known VP	Known T
T	$2A - 2S + 1 \cdot$	$2VP + 2S + 1 \cdot$	~
VP	$2(A - S)$	~	$(T - 2S - 1 \cdot) / 2$
A	~	$(VP + 2S) / 2$	$(T + 2S - 1 \cdot) / 4$

	Known A	Known VP	Known T
T	$2A - 2S + 1 \cdot$	$2VP + 2S + 1 \cdot$	~
VP	$A - 2S$	~	$(T - 2S - 1 \cdot) / 2$
A	~	$VP + 2S$	$(T + 2S - 1 \cdot) / 2$

	Known A	Known VP	Known T
T	$2A - S + 1 \cdot$	$2VP + S + 1 \cdot$	~
VP	$A - S$	~	$(T - S - 1 \cdot) / 2$
A	~	$VP + 2S$	$(T + S - 1 \cdot) / 2$

A = wing length in mm

VP = passage span in mm

T = beam length in mm

S = overlap in mm

NOTE: S - The overlap (S) used in the formula = 5• mm (not binding).

The calculations for RH and LH single-wing automation systems are valid for both opening directions.

For RH single-wing automation, the actual passage span (VP) of the automation is reduced by the size of the overlap selected.

WING NK automation systems with anodised silver finish

Beam	Passage span	LH single wing	RH single wing	Double wing
201•	90•	2271•/201,1	2271•/201,1	2271•/201,1
251•	120•	2271•/251,1	2271•/251,1	2271•/251,1
301•	140•	2271•/301,1	2271•/301,1	2271•/301,1
361•	170•	2271•/361,1	2271•/361,1	2271•/361,1
401•	190•	2271•/401,1	2271•/401,1	2271•/401,1
441•	210•	2271•/441,1	2271•/441,1	2271•/441,1
481•	230•	2271•/481,1	2271•/481,1	2271•/481,1
541•	260•	2271•/541,1	2271•/541,1	2271•/541,1
601•	290•	2271•/601,1	2271•/601,1	2271•/601,1

Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with • or Δ. The standard supply includes the emergency battery unit.

WING NK H10• automation systems with anodised silver finish

Beam	Passage span	LH single wing	RH single wing	Double wing
201•	90•	2271Δ/201,1	2271Δ/201,1	2271Δ/201,1
251•	120•	2271Δ/251,1	2271Δ/251,1	2271Δ/251,1
301•	140•	2271Δ/301,1	2271Δ/301,1	2271Δ/301,1
361•	170•	2271Δ/361,1	2271Δ/361,1	2271Δ/361,1
401•	190•	2271Δ/401,1	2271Δ/401,1	2271Δ/401,1
441•	210•	2271Δ/441,1	2271Δ/441,1	2271Δ/441,1
481•	230•	2271Δ/481,1	2271Δ/481,1	2271Δ/481,1
541•	260•	2271Δ/541,1	2271Δ/541,1	2271Δ/541,1
601•	290•	2271Δ/601,1	2271Δ/601,1	2271Δ/601,1

Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with • or Δ. The standard supply includes the emergency battery unit.

AUTOMATION SYSTEMS FOR SLIDING DOORS

SLIM SNK automation systems with anodised silver finish

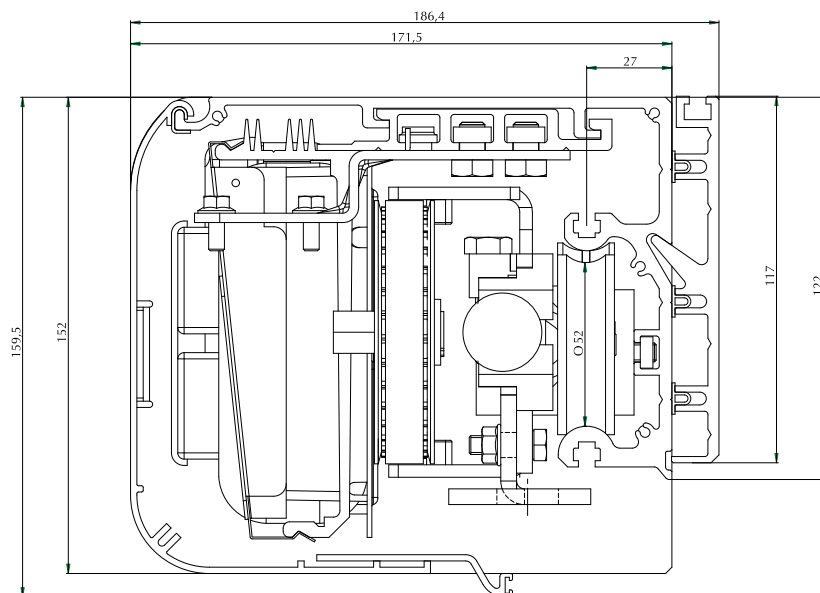
Beam	Passage span	LH single wing	RH single wing	Double wing
201	90	227.0/201	227.0/201	227.0/201
251	120	227.0/251	227.0/251	227.0/251
301	150	227.0/301	227.0/301	227.0/301
361	170	227.0/361	227.0/361	227.0/361
401	190	227.0/401	227.0/401	227.0/401
441	210	227.0/441	227.0/441	227.0/441
481	230	227.0/481	227.0/481	227.0/481
541	260	227.0/541	227.0/541	227.0/541

Order the automation with the next standard length up from the one you require and then state the exact beam length you require in mm ending with • or Q. The standard supply includes the emergency battery unit.

Covers for WING NK, WING NK H150, SLIM SNK automation systems

Beam	Natural finishing	Silver finishing	Black finishing
200	231.0/200	231.0/200	231.0/200
250	231.0/250	231.0/250	231.0/250
300	231.0/300	231.0/300	231.0/300
360	231.0/360	231.0/360	231.0/360
400	231.0/400	231.0/400	231.0/400
440	231.0/440	231.0/440	231.0/440
480	231.0/480	231.0/480	231.0/480
540	231.0/540	231.0/540	231.0/540
600	231.0/600	231.0/600	231.0/600

WING NK - WING NK H150 - SLIM SNK BEAM SECTION



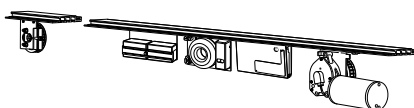
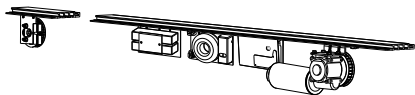


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DOORS, WINDOWS AND SHUTTERS

MODULAR SOLUTIONS

WING NK / SLIM SNK modules



Composition



The WING NK and SLIM SNK modules consists of a module profile L=1,100 mm complete with pre-assembled components: control unit, power supply unit, motor with encoder, emergency batteries. The Module pack also includes an idle pulley and two side flanges.

These modules allow to construct any type of "Wing NK", "Wing NK H100" or "SLIM SNK" automation systems with the same technical characteristics and functions as described above. The NK module profile is







supplied ready for installation, complete with the control unit, power supply unit, motor and batteries ready-assembled. To complete an automation you will need the following: the "L" beam (of convenient

length), the hardware kit; the toothed belt and the cover.

MODULE DESCRIPTION

	DESCRIPTION	BEAM		PASSAGE SPAN	
		Min.	Max.	Min.	Max.
	Wing NK Module L=1,100 mm	1,110	8,010	150	2,950
	SLIM SNK Module	1,110	5,410	150	2,950

AVAILABLE NK MODULES AND COMPULSORY AND OPTIONAL COMPONENTS

	ITEM NUMBER	DESCRIPTION
	22902/002	WING NK module L=1,100 mm
	22900/002	SLIM SNK Module
	22910/006	L shaped beam* with anodised silver finish L=V,000 mm
	22000/010	Cover* with natural finish L=V,000 mm
	22000/001	Cover* with silver finish L=V,000 mm
	22000/006	Cover* with black finish L=V,000 mm
	22280/098	Drive belt for modules L=1,100 (in pack of 50 m)
	22210/010	Toothed belt V m / RR
	Single wing 22902/052 Double wing 22902/051	Hardware Kit for SLIM SNK and WING NK modules The kit consists of all the mechanical components needed to assemble the automation system and includes: carriage units, connection plates, mechanical stop plates and a pack of nuts/bolts/screws
	Single wing 22902/052 Double wing 22902/050	Hardware Kit for WING NK H100 module The kit consists of all the mechanical components needed to assemble the automation system and includes: carriage units, connection plates, mechanical stop plates and a pack of nuts/bolts/screws
	22902/056	NK 20 accessory mounting profile, every accessory requires one profile

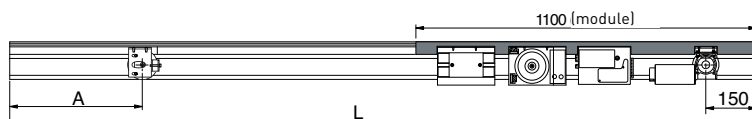
* All profiles are supplied in lengths of V m which cannot be split.

MODULAR SOLUTIONS

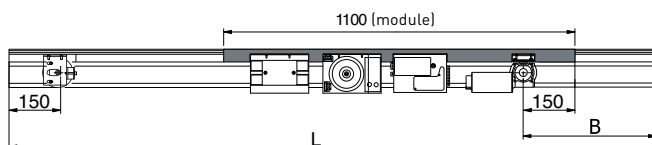
EX. OF AUTOMATION SYSTEM DIMENSIONING

WING NK - WING NK H 150 MODULE

WING NK / NK H 150 module:
RH single-leaf and double-leaf



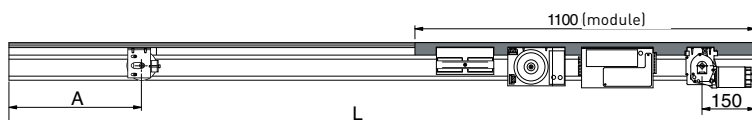
WING NK / NK H 150 module:
LH single-wing



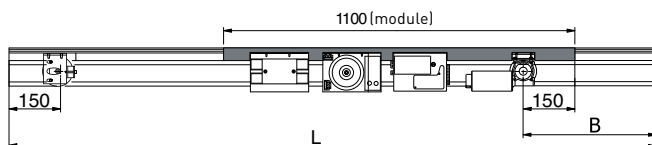
"L" (mm)	"A" (mm)	"B" (mm)
1800	300	300
2000	350	350
2200	400	400
2500	450	450
2800	500	500
3000	600	600
3200	650	650
3600	700	700
4000	800	800
4400	900	900
4800	1000	1000
5200	1100	1100
6000	1200	1200

SLIM SNK MODULE

SLIM SNK module:
RH single-leaf and double-leaf



SLIM SNK module:
LH single-wing



"L" (mm)	"A" (mm)	"B" (mm)
1800	350	300
2000	375	350
2200	400	400
2500	450	450
2800	500	500
3000	550	600
3200	600	650
3600	700	700
4000	800	800
4400	900	900
4800	1000	1000
5200	1100	1100



182

DOORS, WINDOWS AND SHUTTERS

UPGRADE KIT FOR WING NK

**Application range:**

The WING NK upgrade kit can only be installed on:

Automatic doors of the WING or WING EVO model on the catalogue since 2002.

TECHNICAL DATA

AUTOMATION POWER SUPPLY	SINGLE-PHASE 230 Vac (+/- 10%)
MOTOR POWER SUPPLY	24 Vdc
TEMPERATURE	-10° +60° C
BATTERY CHARGER	BUILT-INTO WING NK CARD
AUTOMATIC DIAGNOSTIC	SEVERAL TYPES OF BUZZER ALARMS
ADJUSTABLE PARAMETERS:	APPROACH SPEED DURING OPENING AND CLOSING DOOR OPEN PAUSE TIME THRUST FORCE ELECTRIC LOCK ACTIVATION DELAY PARTIAL OPENING PERCENTAGE MASTER/SLAVE EMERGENCY OPENING PHOTOCELLS USED SETTINGS FOR TAMPERING, EMERGENCY OPENING, ELECTRIC LOCK AND POWER FAILURE

The Upgrade KIT allows all Aprimatic automatic door customers (Wing and Wing Evo series) to replace the basic components to adapt the "old" system to the new performance levels of the new WING NK series automation systems. The mechanical operations required for the replacement are extremely simple (the same bolts and component measurements are used) while the electronic operations are even simpler: just disconnect the old control unit and the peripheral units from the terminals and insert the new card. Once it is powered up, the new Wing NK control board will do all the rest: the new HIGH-TECH software requires no manual operations: it will automatically learn all the necessary settings (such as wing weights, etc.) and self-calibrate as efficiently as possible.

ITEM NUMBER	DESCRIPTION
22902/052	WING NK UPGRADE KIT The package includes: Gear motor unit, Wing NK control unit, idle pulley and fixing screws






CONTROL AND SAFETY DEVICES



Stylish and functional design.

The key-operated selector units can be used to set and select 8 operating modes for automatic sliding doors. The SCFEC and SCF WIRELESS key-operated selector units can be surface wall-mounted or flush-mounted in a standard 50x50 electrical box.

The Reset push-button on the key-operated selector unit is small and recessed to prevent accidental operation.



CONTROL AND SAFETY DEVICES		
	ITEM NUMBER	DESCRIPTION
	22282/08	SCF WIRELESS - 8-way key-operated selector unit for setting standard functions, it operates by radio waves with a frequency of 222.82 MHz, installation: wall-mounted or flush-mounted with 50x50 box, PLUS SCF WIRELESS receiver required
	22282/07	SCFEC - 8-way key-operated selector unit for standard function setting, installation: wall-mounted or flush-mounted in 50x50 box, 5-metre cable with connector
	21923/07	PLUS SCF WIRELESS RECEIVER - Installation on NK beams requires the NK 25 mm profile, SCF WIRELESS key-operated selector and/or TR2 or TR4 transmitter required
	22282/06	SCF - 8-way key-operated selector unit for standard function setting installation: wall-mounted - 5-metre cable with connector
	21904/02	TM4 - 222.82 MHz four-channel remote control

PHOTOCELLS		
	ITEM NUMBER	DESCRIPTION
	22200/07	ER5/N - Self-aligning, miniaturised, modulated infrared photocells Range of 8 metres at full power and 5 metres at half power, the unit consists of: amplifier card for two pairs of photocells with self-test function (fault signal relay output) and twin-relay output with series-connected contacts, pair of transmitter/receiver photocells with 1-metre shielded cables, fittings for assembly on aluminium frames, installation on NK beams requires the NK 25 profile
	22200/02	ER5/N Pre-mounted NK (can be ordered only with the purchase of an automation system)
	22200/06	Kit of extra ER5/N photocells

NOTE: By ticking the appropriate box on the order form, the photocells ER5/N item No. 22200/02 will be supplied pre-assembled and pre-mounted on the beam at the same price.





182

DOORS, WINDOWS AND SHUTTERS

CONTROL AND SAFETY DEVICES

RADAR

The range encompasses all the technologies used for automatic door opening devices, such as microwave, active infrared and passive infrared.

RADAR		
	ITEM NUMBER	DESCRIPTION
	22282/092	RI-HΔ - Medium-range combined door activation and safety sensor with 2 detection rows (active infrared technology)
	22282/090	RI-H2 SAFE - Side screen or door threshold safety sensor with 1 presence-detection row (active infrared technology)
	22282/092	RI-H2 ACTI - Long-range door activation sensor with 2 detection rows (active infrared technology)
	22282/090	DM-H22 - Bi directional door sensor (microwave technology)
	22282/062	DMΔ - Mixed microwave/infrared radar
	22282/096	RSH - Door-wing mounted swing door safety sensor, (active infrared distance measurement technology)
	22282/098	TLHC - Illuminated touchless switch with Ø 110 mm and detection distance of up to 100 mm (capacitance technology)
	22282/099	TLHI - Touchless wall-mounted switch (dim. 50x115x35 mm) with detection distance of up to 560 mm (active infrared technology)
	22282/097	PBH - Mechanical button for pedestrian doors (dim. 100x100x45 mm)

TECHNICAL DATA	DM-H22	DM-Δ	RI-H Δ	RI-H 2ACTI/ RI-H2 SAFE	RS-H
TECHNOLOGY	Microwaves	Microwaves infrared	Active infrared	Active infrared	Active infrared
INSTALLATION HEIGHT	2 m max.	From 1.7 to max. 2 m	2 m max.	2 m max.	2.5 m max.
DETECTION MODES	Movement and movement	Presence and movement	Presence and movement	Presence	Presence
SUPPLY VOLTAGE	12-24 Vdc +/- 10%	12V +/- 5%	12-24 Vac +/- 10% 12-24 Vdc +/- 10%	12-24 Vac +/- 10% 12-24 Vdc +/- 10%	12-24 Vac/dc +/- 10%
CONSUMPTION	> 1 W (at 24 V)	> 2 W (at 24 V)	1.5 W (at 24 V)	1.5 W (at 24 V)	< 1 W (at 24 V)
TEMPERATURE RANGE	-20°C + 60°C	-20°C + 60°C	-20°C + 60°C	-20°C + 60°C	-20°C + 60°C
DIMENSIONS (LxDxH)	125 x 50 x 50	260 x 44 x 50	710 x 50 x 30	710 x 50 x 30	260 x 44 x 44
CABLE	YES	YES	YES	YES	~



INSTALLATION ACCESSORIES


EMERGENCY PUSH-BUTTON

The emergency push-button enables door opening whenever necessary. It consists

of a highly-visible, red mushroom-head push-button with a twist-to-release action.

Emergency door opening is controlled from the electronic control device and can be set for opening or closing as required.

EMERGENCY PUSH-BUTTON

	ITEM NUMBER	DESCRIPTION
	٢٢٢٨٢/٠٨٢	PE - Red mushroom-head emergency push-button with twist-to-release action







ELECTRIC LOCK AND MANUAL RELEASE UNITS

The electric lock has been designed specifically for locking mobile wings. It is supplied complete with a diagnostics card. The system is not electrically powered when it is in the open or closed position.

The EBY electric lock can be fitted (on request) with mechanical release systems which is used to release the lock in the event of an operating fault, a mains power failure or a backup battery failure.

A driven external release is also available. This is mounted inside a recessed, wall-mounted, lockable box to protect against unauthorised operation.


ELECTRIC LOCK AND MANUAL RELEASE UNITS

	ITEM NUMBER	DESCRIPTION
	٢٢٢٨٢/٠٧٢	EBY - Electric lock for two-handed wings, controlled from by an electronic card, with ٠,٨ m - ١,٨ m - ٢,٨ m, cables, installed on Nk beams with NK ٢٥ mm profile
	٢٢٢٨٢/٠٧٧	EBY NK PREM (for Slim SNK, Wing NK, Wing NK H ١٥) (can be ordered only with the purchase of an automation system)
	٢٢٢٨٠/٠٨٢	SME - Mechanical release system for EBY electric lock, for use in the event of faults or power supply failures
	٢٢٢٨٠/٠٨٥	Box for external release drive complete with cable and shield - ٥ m
	٢١٧٠٢/٠٠٢	CS - Built-in strongbox (with up/down button and electrical brake release)
	٢١٧٠٢/٠٠٢	CSP - Wall mounted outdoor strongbox

NOTE: By ticking the appropriate box on the order form, the EBY electric lock code ٢٢٢٨٢/٠٧٧, will be supplied pre-assembled and pre-mounted on the beam at the same price.

NS ٢٨

NS ٢٨

	ITEM NUMBER	DESCRIPTION
	٢٢٢٨٢/٠٧٥	NS ٢٨ (battery units are pre-assembled on all automation systems). Battery unit with double function (charging and diagnostic functions built into the door control device): ١) Electrical emergency opening device ٢) Backup battery (autonomy of ١ hour, half-charged)

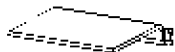
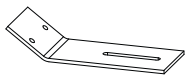
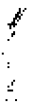



186

DOORS, WINDOWS AND SHUTTERS

INSTALLATION ACCESSORIES

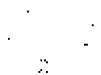
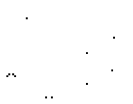
OPTIONAL ACCESSORIES FOR BEAMS AND COVERS

OPTIONAL ACCESSORIES FOR BEAMS AND COVERS		
	ITEM NUMBER	DESCRIPTION
	2291.0.08	Telescopic cover* with natural finish L=V, ... mm
	2291.0.09	Telescopic cover* with silver finish L=V, ... mm
	2291.0.10	Telescopic cover* with black finish L=V, ... mm
	2228.0.67	Cover fixing bracket, in pack of 10 pcs
	2291.0.02	Rear profile* with silver finish L=V, ... mm
	2228.0.61	Sound-proofing seal for rear profile (1 m pack)

* All profiles are supplied in lengths of V m which cannot be split.

ACCESSORIES FOR WINGS WITH ALUMINIUM PROFILES

Floor guides for mobile wings.



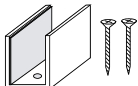
ACCESSORIES FOR WINGS WITH ALUMINIUM PROFILES		
	ITEM NUMBER	DESCRIPTION
	2220.0.50	SPS - Floor guide set for wing with Small profile frame (Can be used with other types of aluminium profile)
	2220.1.01	SPT - Floor guide set for wing with Modular profile frame (Can be used with other types of aluminium profile)



INSTALLATION ACCESSORIES

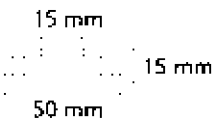


ACCESSORIES FOR GLASS WINGS

Details used exclusively for assembly of mobile glass-only wings (not framed with aluminium profiles). The new system cuts assembly work to the minimum and facilitates working with glass panels.

ACCESSORIES FOR GLASS WINGS		
	ITEM NUMBER	DESCRIPTION
	222811/061	PCR - Clamps for glass doors, 7 m raw profile, For 10 mm tempered glass, max. weight 8 kg and max. wing width 1,000 mm
	222811/062	Set of fixing accessories for glass wings
	222811/063	Additional reinforcement bracket (no. 1 pc) 1 pcs for wing length 900/1200 mm 2 pcs for wing length 1200/1900 mm
	222811/064	Plug for glass door clamp (no. 1 pc)
	222811/079	GTC - Floor guide set for glass wings

UNIVERSAL ACCESSORIES FOR OTHER TYPES OF WINGS

Useful accessories for rapidly fixing new or existing mobile wings to the carriages of APRIMATIC automatic doors.

ACCESSORIES FOR WINGS WITH ALUMINIUM PROFILES		
	ITEM NUMBER	DESCRIPTION
	222811/077	PDA - Aluminium adapter profile (L=1000 mm) for one wing, for joining the carriages to the framed wing, connection plates required
	222811/071	CPA - Set of 2 connection plates for one wing, with fixing screws
	222011/052	Set of fixing screws for a small wing, contains all necessary screws and fittings to fix the door wing to the automation system carriage

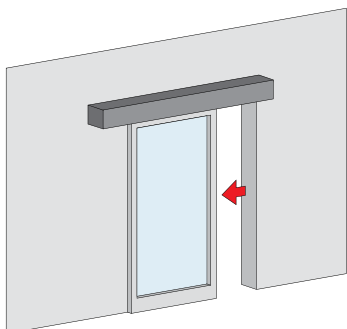


188

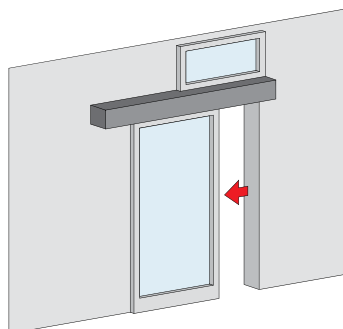
DOORS, WINDOWS AND SHUTTERS

SLIDING OPENINGS

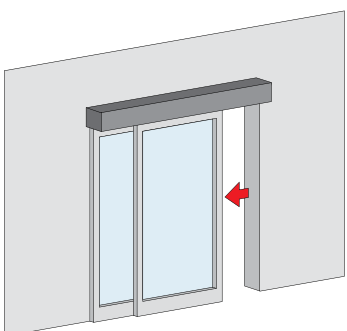
EXAMPLES OF POSSIBLE CONFIGURATIONS



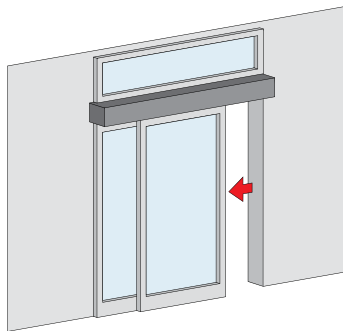
ONE SLIDING WING



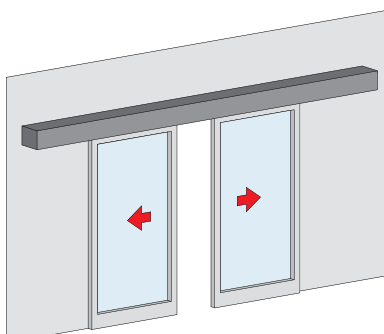
ONE SLIDING WING
WITH TRANSOM



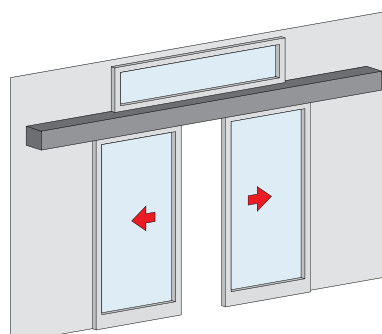
TWO WINGS
ONE SLIDING AND ONE FIXED



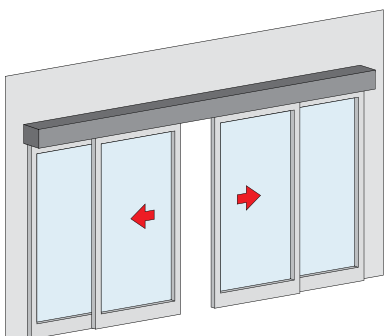
TWO WINGS
ONE SLIDING AND ONE FIXED
WITH TRANSOM



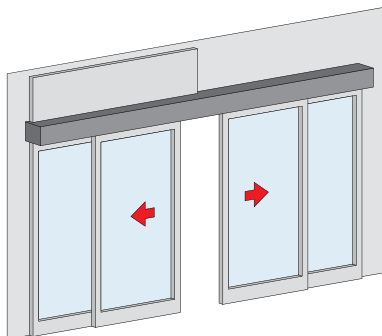
TWO SLIDING WINGS



TWO SLIDING WINGS
WITH TRANSOM



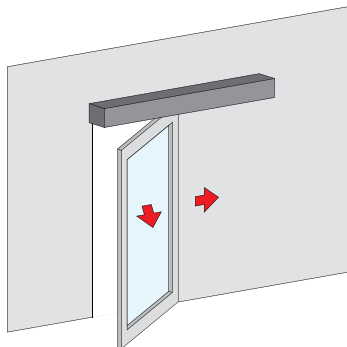
TWO SLIDING WINGS
TWO FIXED



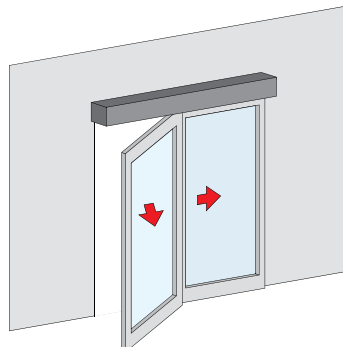
TWO SLIDING WINGS
TWO FIXED WITH TRANSOM

SLIDING OPENINGS WITH EMERGENCY OPENING DEVICE

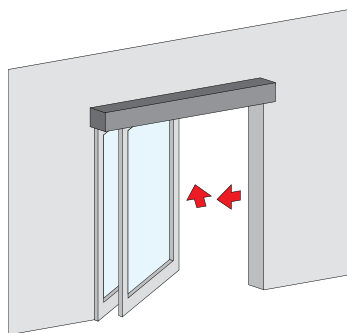
EXAMPLES OF POSSIBLE CONFIGURATIONS



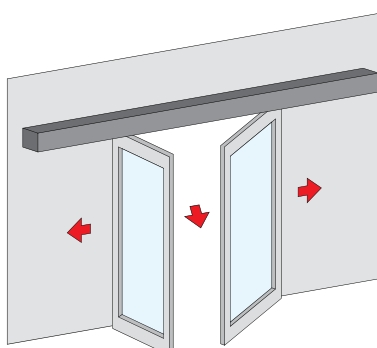
ONE SLIDING WING
WITH EMERGENCY OPENING
DEVICE ON A MOBILE WING



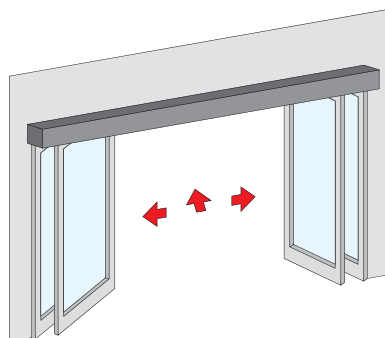
ONE SLIDING WING
ONE FIXED WITH EMERGENCY
DEVICE ON A MOBILE WING



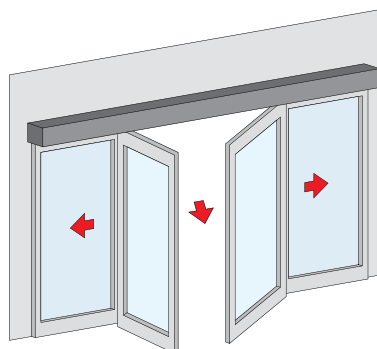
ONE SLIDING WING
ONE FIXED WITH FULL EMERGENCY
OPENING DEVICE



TWO SLIDING WINGS
WITH EMERGENCY OPENING DEVICE
ON MOBILE WINGS



TWO SLIDING WINGS
TWO FIXED WINGS WITH FULL
EMERGENCY OPENING DEVICE



TWO SLIDING WINGS
TWO FIXED WINGS
WITH EMERGENCY OPENING DEVICE
ON MOBILE WINGS



EMERGENCY BREAK-OUT OPENING DEVICE

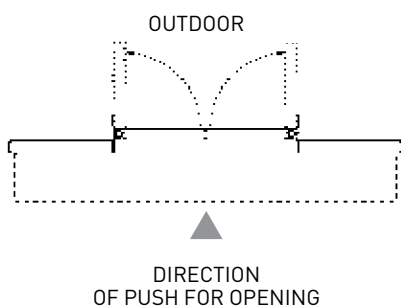
ASM-N MECHANICAL EMERGENCY BREAK-OUT OPENING DEVICE, FULL AND PARTIAL



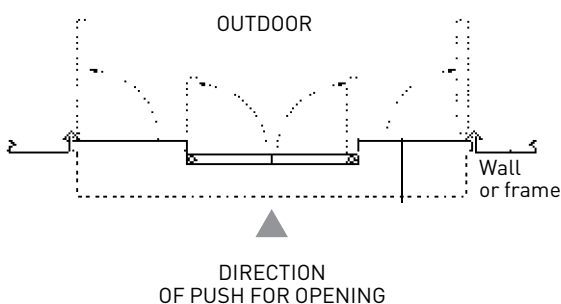
LAYOUT

The emergency break-out opening device is a safety device enabling mobile and semi-fixed wings of all types to be opened mechanically in the event of an emergency.

PARTIAL EMERGENCY OPENING DEVICE



FULL EMERGENCY OPENING DEVICE



WARNING: In configurations where mobile wings equipped with ASM-N are joined to semi-fixed wings also equipped with emergency opening devices (full emergency opening device), it is necessary to fix the wings using the fittings supplied in the special set (optional).

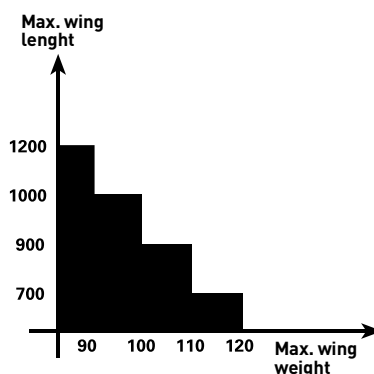
NEWS: The spinning point for mobile wings and semi-fixed wings is located inside the profile. The set of fittings for semi-fixed wings are not visible and located inside the covering profile.

The ASM-N mechanical emergency break-out opening device can be used on wings with a maximum width of 1,200 mm and max. weight of 90 kg; and on wings with a

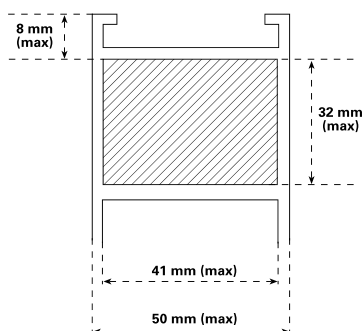
minimal width of 500 mm and max. weight of 120 kg (according to the table below) for a max. height of 2,400 mm.

Wing length mm Max. wing weight* kg	900 120	1,000 110	1,200 100	90
ASM-N weight	V kg			

*Overall weight including ASM-N



THE ASM-N CAN BE USED WITH THE FOLLOWING TYPES OF PROFILES:



PROFILES
COMPATIBLE
WITH ASM-N
(NOT TYPE-
APPROVED)

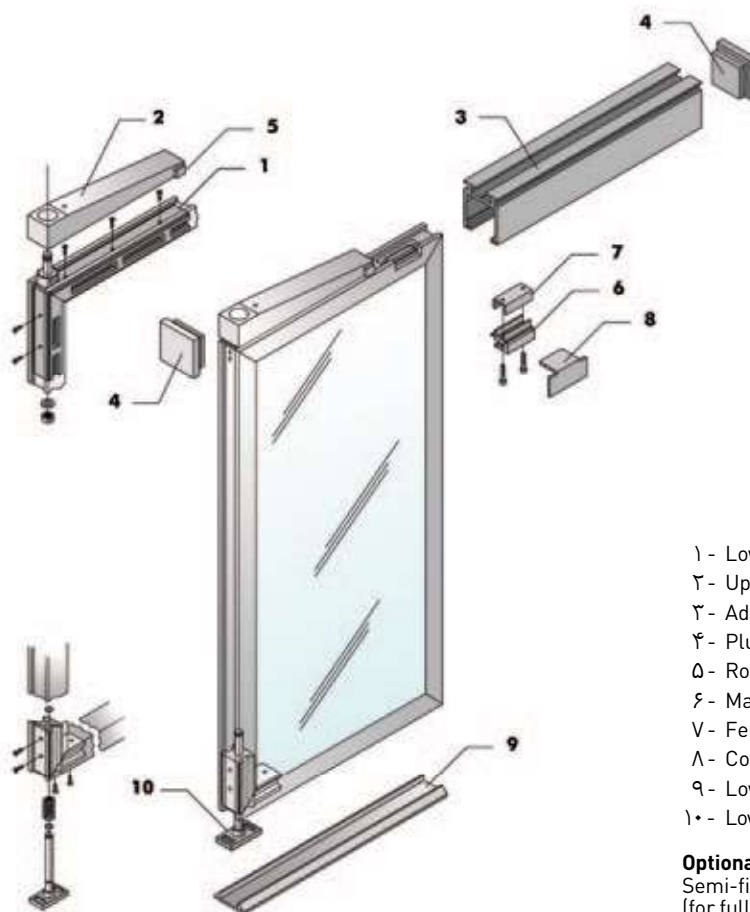
- Domalstopper PG
- Formula FF system
- Metra NC 20 International
- Metra NC 20 International
- RD
- Modular APRIMATIC profiles*

If you cannot use the compatible profiles listed above, ensure that the profiles you use have the dimensions indicated above.

* For instructions on machining "Modular" profiles, request the cutting list.

EMERGENCY BREAK-OUT OPENING DEVICE

ASM-N EMERGENCY OPENING DEVICE



- 1 - Lower arm
- 2 - Upper arm
- 3 - Adapter profile
- 4 - Plugs for adapter profile
- 5 - Rough adjustment insert
- 6 - Male fitting
- 7 - Female fitting
- 8 - Cover plate
- 9 - Lower guide
- 10 - Lower guide slider Nuts, bolts and screws

Optional elements:
Semi-fixed wing fitting set
(for full emergency opening device)

MECHANICAL EMERGENCY BREAK-OUT OPENING DEVICE

MECHANICAL EMERGENCY BREAK-OUT OPENING DEVICE	
ITEM NUMBER	DESCRIPTION
42280/08	[*] Mechanical emergency opening device set for 1 mobile wing, device weight 1 kg
42280/081	[*] Guide (L=1,000 mm) and adapter (L=1,200 mm) set
42280/09	Set of fittings for 1 semi-fixed wing

NOTE: You should include the weight of the emergency opening device when calculating the wing weight.
Max. wing weight = 90 kg for a length of 1,200 mm, including the emergency opener system (1 kg).
[*] Both required for installation.

ACCESSORIES FOR MECHANICAL EMERGENCY BREAK-OUT OPENING DEVICE

ACCESSORIES USED TO STOP WING MOVEMENT IN THE EVENT OF EMERGENCY OPENING

OPTIONAL ACCESSORIES	
ITEM NUMBER	DESCRIPTION
42280/096	SMI - Magnetic lock sensor, recess mounted, to be connected as an N.C. contact in series with the reset button, on full emergency break-out opening devices, to be fitted on all semi-fixed wings
42280/095	SMS - Magnetic lock sensor, surface mounted, to be connected as an N.C. contact in series with the reset button, on full emergency break-out opening devices to be fitted on all semi-fixed wings
42200/00V	ERF/N

NOTE: For technical details about the ERFN photocells, see the "Photocells" table
(on "Control and safety devices" page).



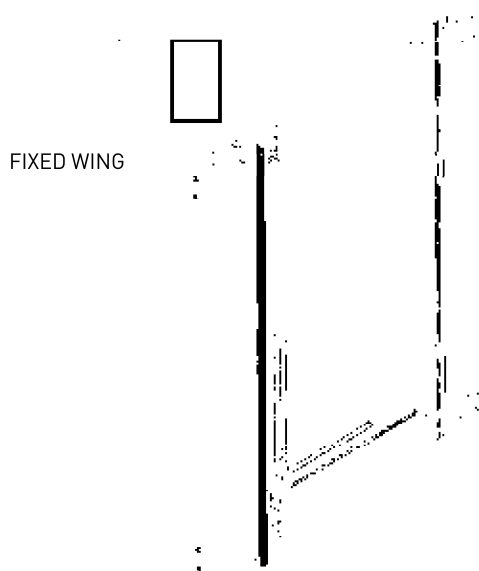
SMALL PROFILES

PROFILES FOR AUTOMATIC DOORS SUITABLE FOR 10/11 MM THICK GLASS PANELS

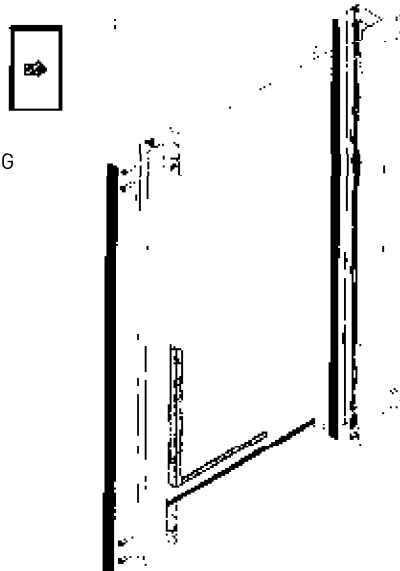


"SMALL" series profiles **can be used to make wings** for automatic sliding doors. This profile has been designed and manufactured specifically for mobile wings, fixed side wings and semi-fixed side wings. In spite of its compact size, the profile is compatible with up to 10 mm thick glass panels.

EXAMPLE OF ONE OF THE POSSIBLE CONFIGURATIONS



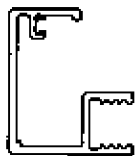
FIXED WING



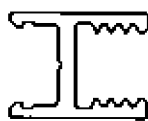
MOBILE WING

SMALL PROFILES

EXAMPLE OF ONE OF THE POSSIBLE CONFIGURATIONS



Fixed/mobile wing upright



Central upright



Top and bottom rail



Single wing stop



Central seal



Draught-proof seal
for overlap area



Side seal

"SMALL" SERIES PROFILES



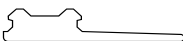
"SMALL" SERIES PROFILES		
	ITEM NUMBER	DESCRIPTION
	۲۲۲۰۰/۰۱۲	"Small" mobile/fixed wing upright (srm)
	۲۲۲۰۰/۰۱۲	"Small" central upright (L = ۵۰۵۰ mm)
	۲۲۲۰۰/۰۱۴	"Small" top and bottom rail (L = ۵۰۵۰ mm)
	۲۲۲۰۰/۰۱۵	"Small" single wing stop (L = ۵۰۵۰ mm)

NOTE: All aluminium profiles are supplied non-anodised in lengths of ۵۰۵۰ mm.




SMALL PROFILES

SEALS

	ITEM NUMBER	DESCRIPTION
	۲۲۲۰۰/۰۱۶	"Small" central seal (pack of ۱۰۰ m)
	۲۲۲۸۱/۰۶۰	Draught-proof seal for overlap area (pack of ۱ m)
	۲۲۲۰۰/۰۵۴	"Small" side seal (pack of ۸۰ m)

NOTE: All seals necessary for wing assembly can be purchased to size in multiples of ۱ metre.
This does not apply to adhesive seals; which are sold exclusively in packs of ۵۰ metres.

FITTING ACCESSORIES

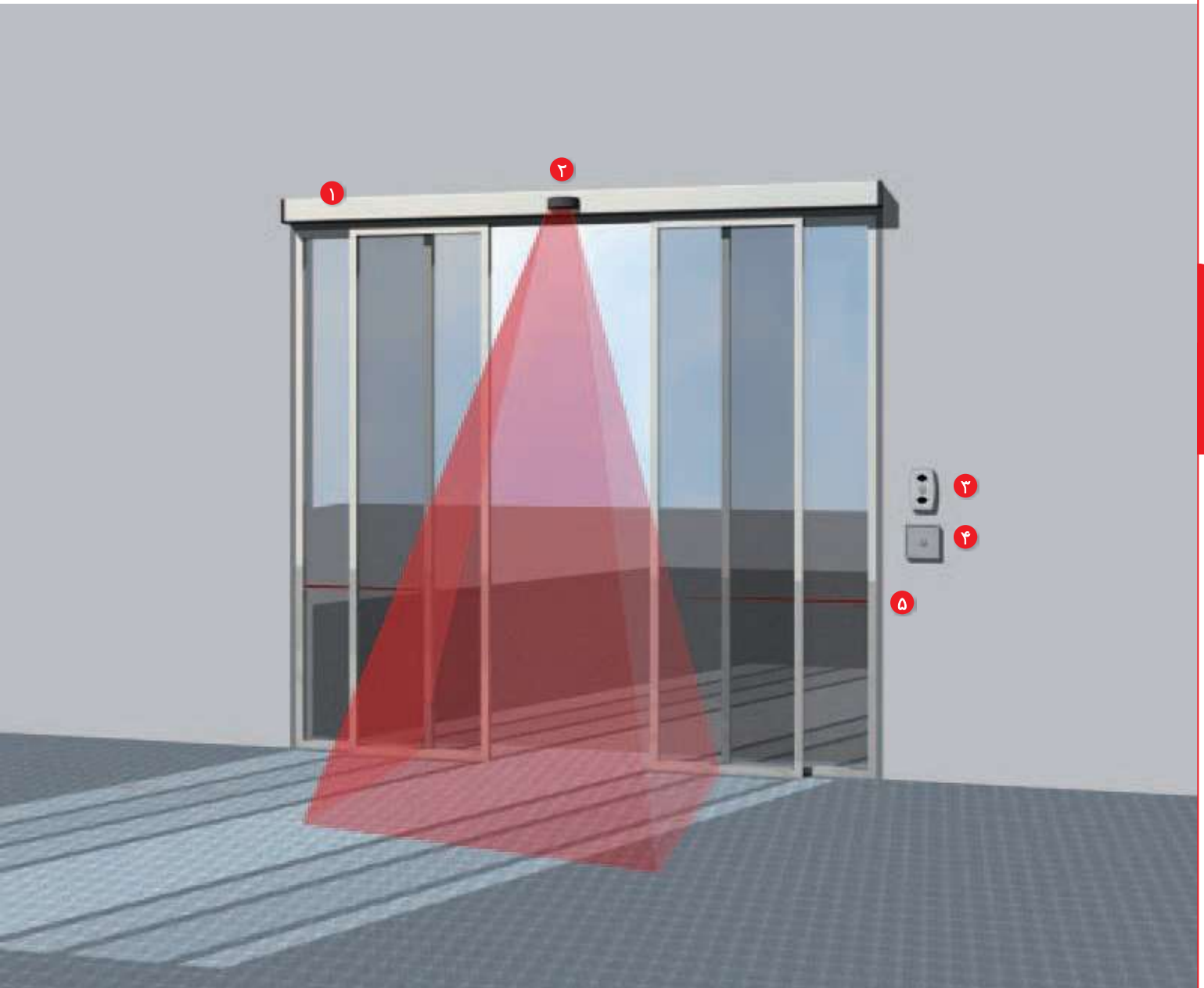
	ITEM NUMBER	DESCRIPTION
	۲۲۲۰۰/۰۵۳	Set of fixing screws for a small wing, required for assembly of automatic door wing profiles
	۲۲۲۰۰/۰۵۱	Pack of inserts for assembling a fixed wing with "Small" profile

NOTE: For the fittings required to secure the mobile wing to the carriage and for the floor guide to be used with Small profiles, see the catalogue on page ۱۸۶- ۱۸۷ (SPM and "Set of fixing screws for a small wing").

MODULAR PROFILES

IDEAL INSTALLATION

4 wing door, with 2 fixed and 2 sliding



KEY

- Automation module
- Radar
- Manual release
- Control unit: key-operated switch / presence reader / keyboard combination lock / card reader / magnetic keys
- Pair of photocells



MODULAR PROFILES

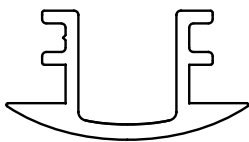
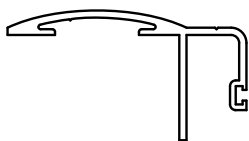
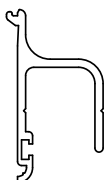
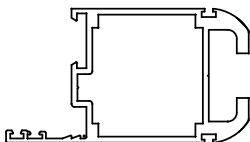
PROFILES FOR ۹/۱۳ mm AND ۲۰/۲۳mm automatic doors

"MODULAR" profiles CAN be used for automatic sliding door wings. This profile has been specifically designed for the construction of fixed and mobile wings with or without mechanical emergency

break-out opening device (AMS) thus perfectly fitting in a system of windows and curtain walls providing a complete range of possible solutions. The profile's modular construction, lends the wing a striking and aesthetically

pleasing look. "MODULAR" profiles complete the range of extruded wing elements and meet any installation requirements.

SEALS

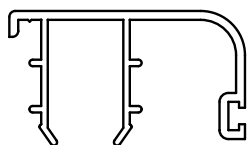
	ITEM NUMBER	DESCRIPTION
	۲۲۲۰۵/۰۰۱	Upright cover (L = ۵۰۵۰ mm)
	۲۲۲۰۵/۰۰۲	Wing mounting profile without fixed slide guide (L = 5050 mm)
	۲۲۲۰۵/۰۰۳	Mobile wing mounting profile + fixed slide guide (L = 5050 mm)
	۲۲۲۰۵/۰۰۴	Upright profile (L = 5050 mm)

MODULAR PROFILES

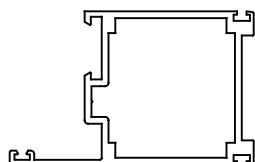
SEALS

ITEM NUMBER DESCRIPTION

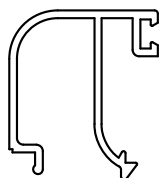
222.0/0.0 Photoelectric cell profile (L = 5050 mm)



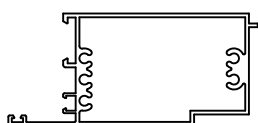
222.0/0.6 Upper frame (L = 5050 mm)



222.0/0.7 Snap-type rounded glass beading (L 22) (L = 5050 mm)



222.0/0.8 Lower additional transom (L = 5050 mm)





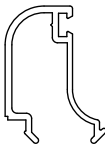
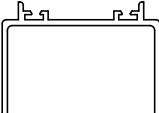
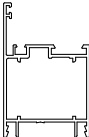
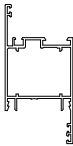
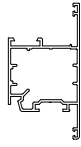
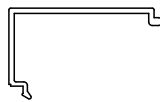
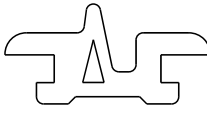


۱۹۸

DOORS, WINDOWS AND SHUTTERS

MODULAR PROFILES

PROFILES FOR ۹/۱۲ mm AND ۲۰/۲۳mm automatic doors

SEALS		
	ITEM NUMBER	DESCRIPTION
	۲۲۲۰۵۰۰۹	Horizontal ۱۶۰ mm transom (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۱۰	Lower transom ۱۶۰ mm (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۱۱	Snap-type rounded glass beading (L ۱۲) (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۱۲	Vertical wall-mounted compensator (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۱۵	"L" oversized fixed frame (L = 6500 mm)
	۲۲۲۰۵۰۱۶	"R" oversized fixed frame (L = 6500 mm)
	۲۲۲۰۵۰۱۷	Outward-opening oversized wing (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۱۹	Blind glass beading (L = ۶۵۰۰ mm)
	۲۲۲۰۵۰۶۱	Central seal (۱۰۰ m)



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