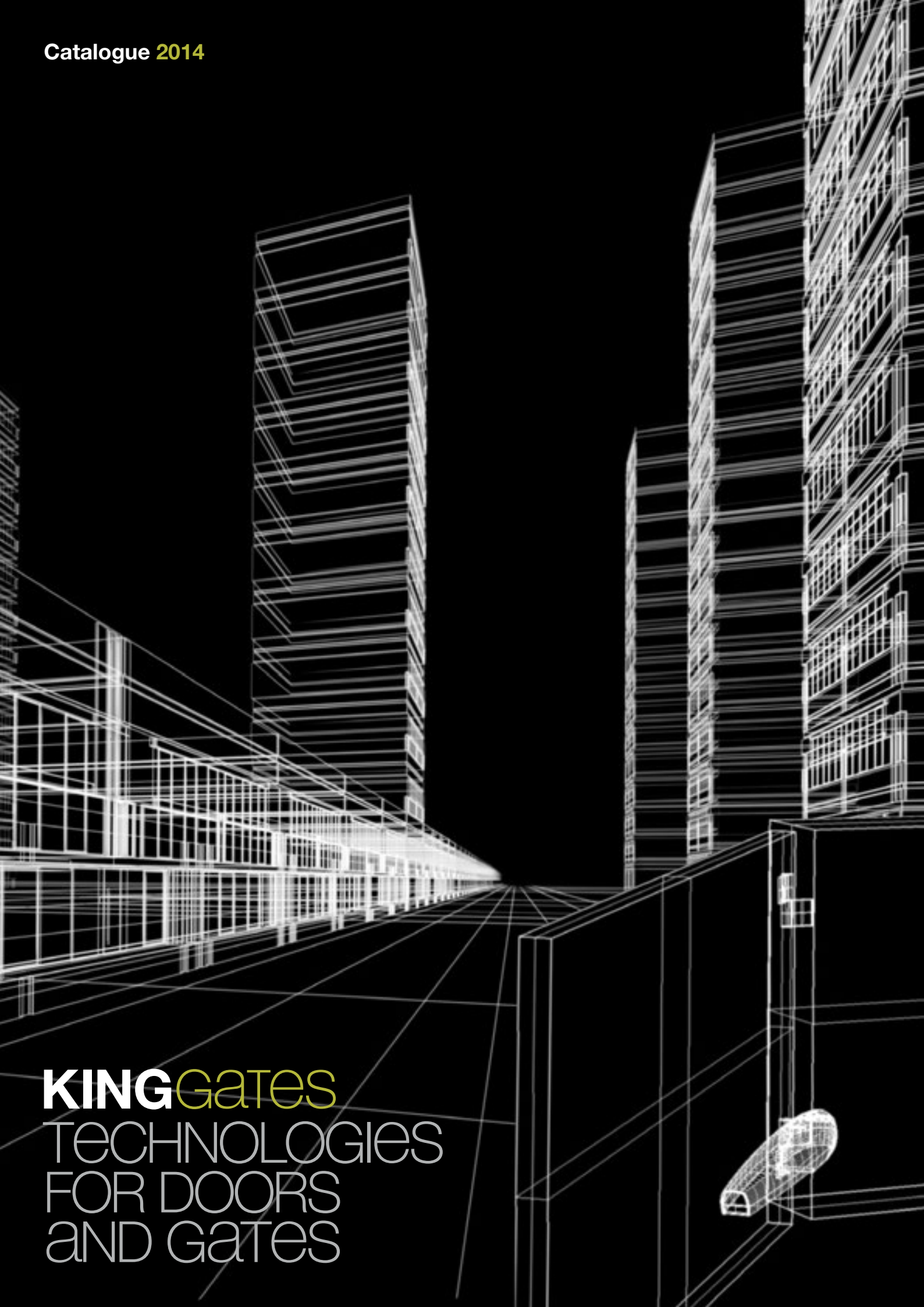
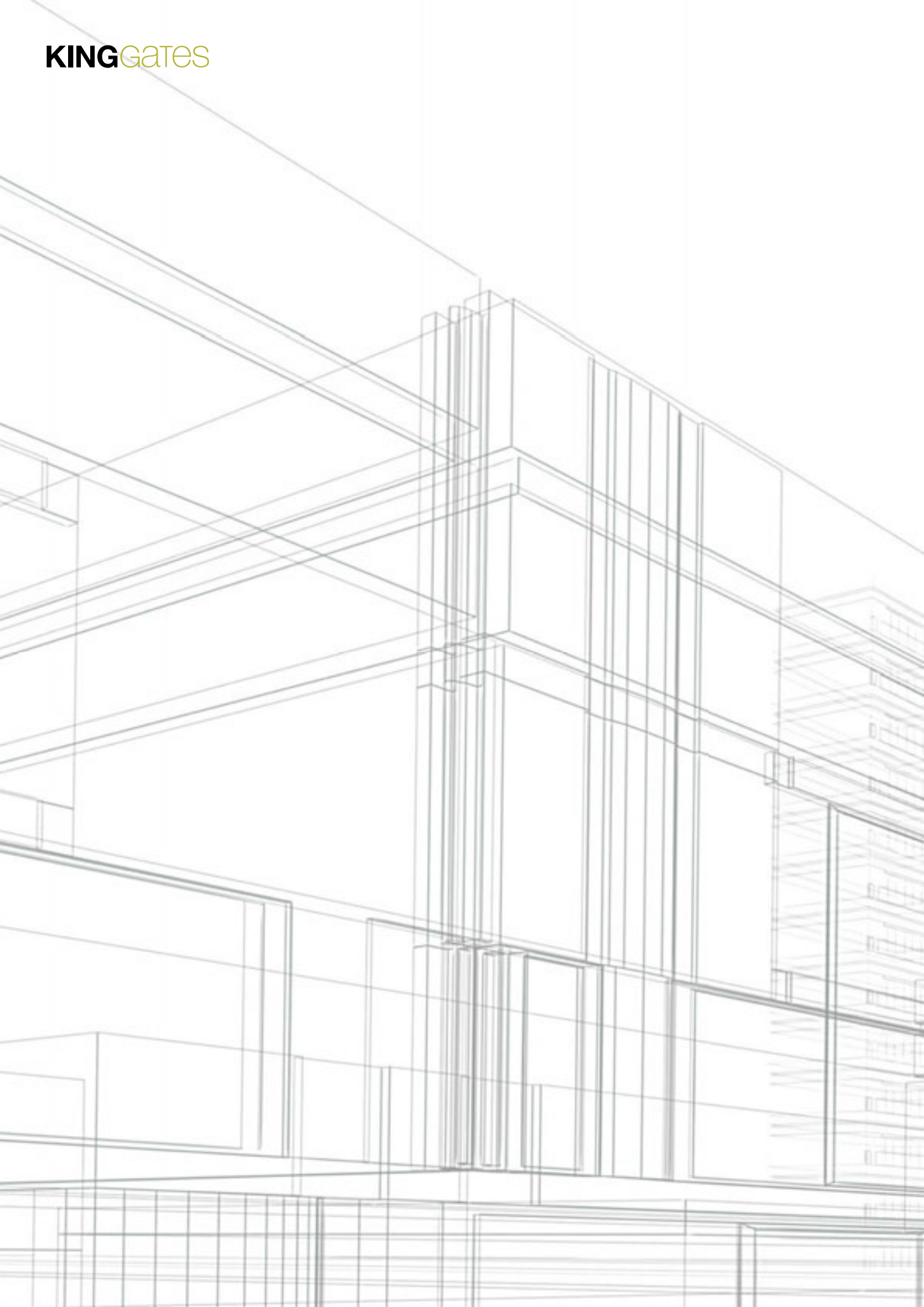
Catalogue 2014



KINGgates
TECHNOLOGIES FOR DOORS AND GATES

KINGGATES



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22 Automation for swing gates
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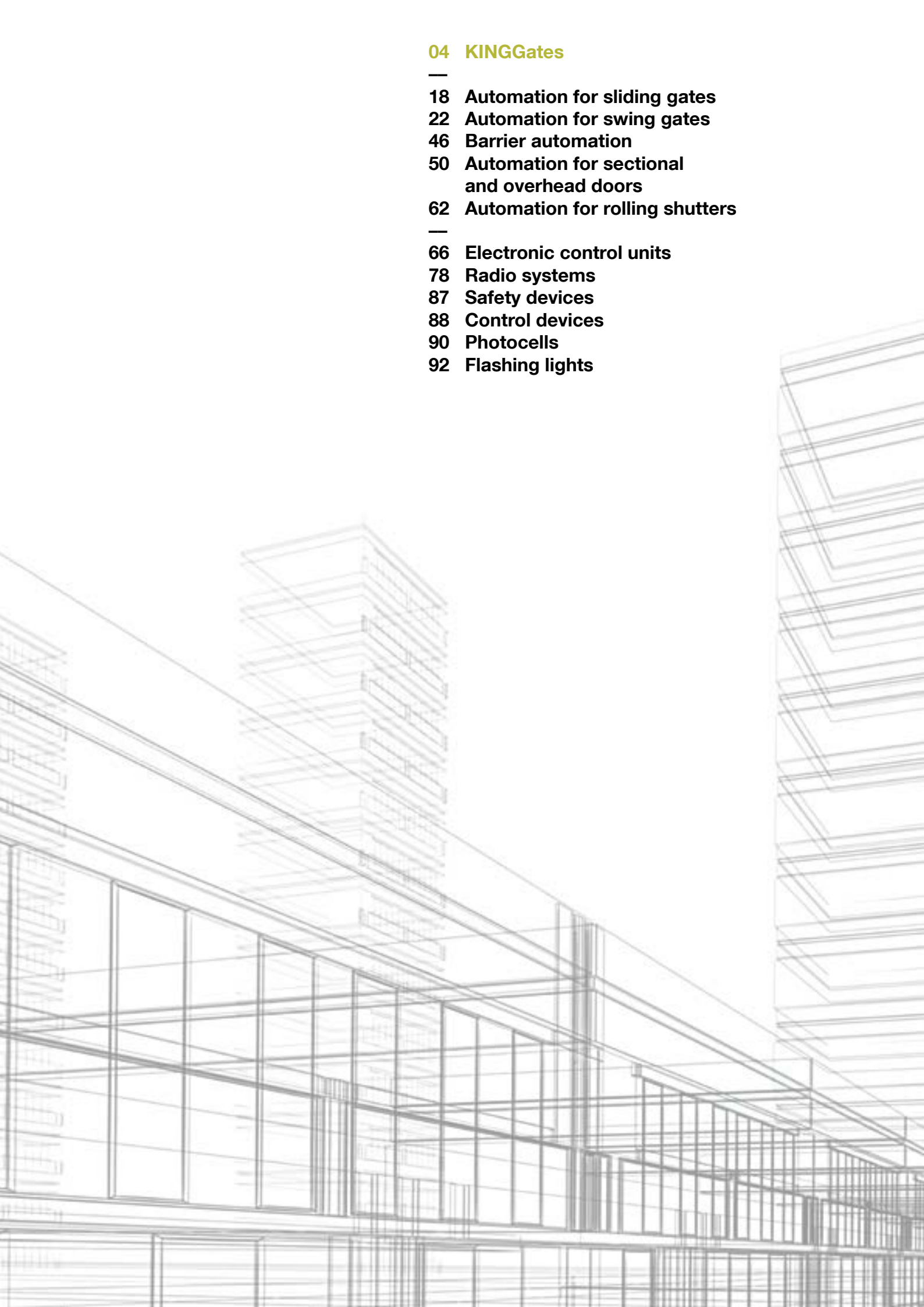


KINGgates produces and sells automations for doors, gates, road barriers and rolling shutters

In constant growth, the **KINGgates** brand operates in a dynamic sector, sensitive to innovations in technology and service.

Since 2006 it has been present on the home automation market in more than 40 countries throughout the world, through an extensive network of professional partners.

SAFETY
QUALITY
DIRECT
RELATIONSHIP

ATTENTION TO QUALITY IN ALL PRODUCTION AND POST-PRODUCTION PHASES IS A CHARACTERISTIC FEATURE OF KINGGATES

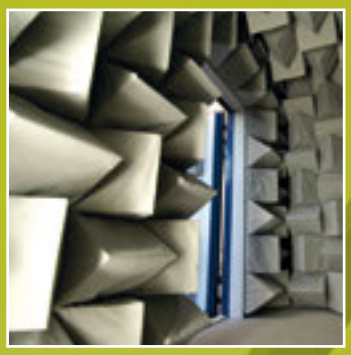
The complete range of products includes automations with 230 Vac and 24 Vdc motors for sliding and swing gates, road barriers, sectional and up-and-over doors and balanced rolling shutters.

Chosen to guarantee high performance, the materials used range from bronze to the most resistant steel and high quality technopolymers to fabricate certain particularly tough wear-resistant gears.

KINGgates products are designed on the basis of a concurrent engineering logic, allowing performance and quality to be optimised in respect of constant attention to design. Simple elegant shapes expressing sturdiness, power and energy characterise all products, conceived for intuitive installation and easy safe use.

Since 2006, KINGgates has patented various automation control and programming technologies. New solutions to make its automations ever more reliable and innovative.

SAFE LONG-LASTING PRODUCTS, THANKS TO TECHNOLOGIES GUARANTEEING HIGH PERFORMANCE AND COMFORT, TOGETHER WITH CONSTANT CONTROL OF COMPONENTS AND THE FINISHED PRODUCT IN RESPECT OF EUROPEAN STANDARDS



For example, low voltage (24 Vdc) technology enables the automation to function even in the absence of electricity thanks to buffer batteries, guaranteeing electrical safety for the installer and user and enhanced performance, even after a long period with no mains power.

Before being placed on the market, each product undergoes severe controls and wear tests to guarantee reliability, durability and compliance with European UNI EN 12445 and UNI EN 12453 standards.

KINGgates is a dynamic company, sensitive to the needs of a constantly evolving market

Backed by a network of partners throughout the world, KINGgates can provide **a full response to the commercial and technical requests of customers and installers who can then use the product and solve any problems arising completely independently, thanks to the user-friendly, durable and reliable conception.**

KINGgates COLLECTION 2013

Couper
Automation
for swing gates

Stylo 2 K
Rolling code radio remote control
433.92 MHz

Ovo
Automation
for garage doors

MiniModus
Automation
for swing gates

Open
Automation
for road barriers

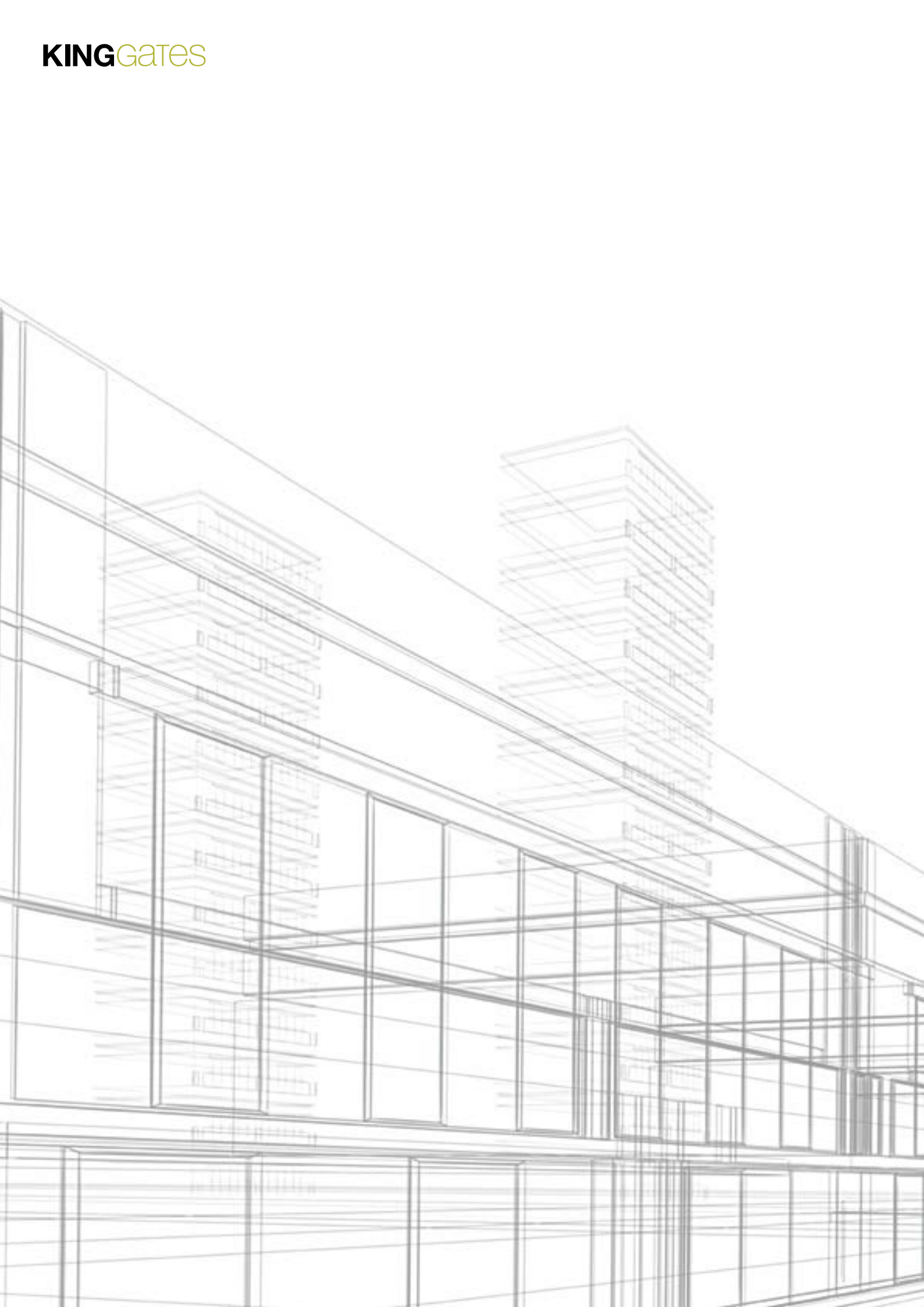
KINGgates COLLECTION PREVIEW

Linear 3-5
Automation
for swing gates

Couper 4500
Automation
for swing gates
of up to 4.5 m

Dynamos 1500
24 V automation for intensively used sliding gates weighing up to 1500 kg

KINGGATES



Automation
for sliding gates

18 Dynamos

Automation
for swing gates

22 Jet
26 Couper
30 Linear
34 Modus
38 Minimodus
42 Intro 400

Barrier automation

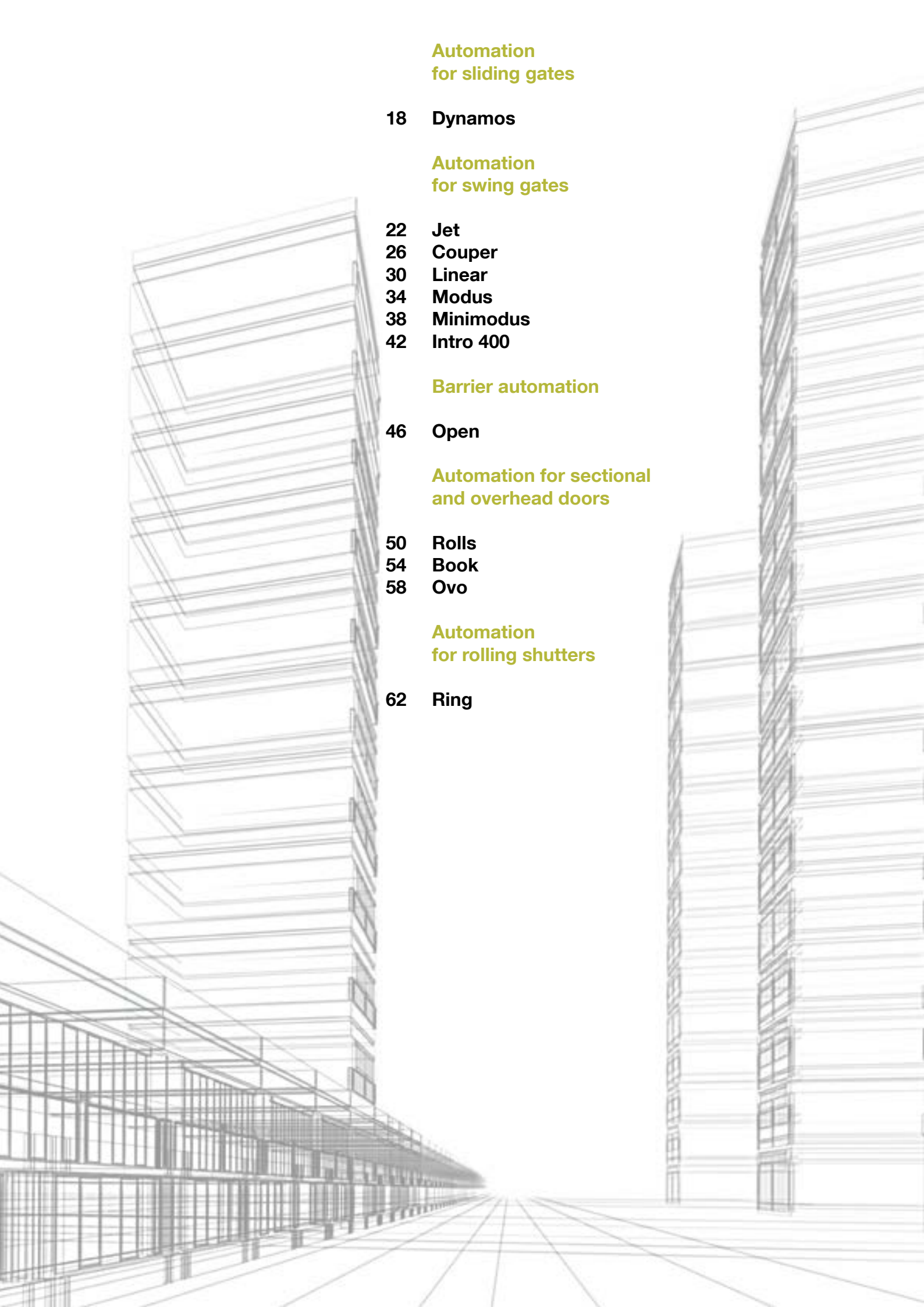
46 Open

Automation for sectional
and overhead doors

50 Rolls
54 Book
58 Ovo

Automation
for rolling shutters

62 Ring



Dynamos

Automation for sliding gates up to 1000 Kg

1.

2.

3.

1. CONTROL UNIT
Quick regulations by trimmers and dip-switches, self-learning programming procedure

2. STURDY FRAME
Sturdy die-cast aluminium frame, designed to last long

3. KEY RELEASE SYSTEM
Aluminium release handle with protected lock and customized release key

VERSIONSPRECISE AND SILENT MECHANICS

Reliability and safety are at the base of the mechanical components: produced with sturdy materials, they turn on large ball bearings that are attached to die-cast aluminium roller housings. The internal gear has involute teeth.
This special construction allows maximum contact between the worm screw and the gear. The tooth wraps around the screw whereas in traditional construction the parts in contact add up to just a few millimetres.
The result?
Quiet movement, high performance, no wear.

4 Kg of die cast aluminium, ABS plastic parts with anti-UVA ray treatment and pure polyester painting make **Dynamos a solid automation that can stand up to any sort of weather.**

The sturdy handle in die cast aluminium with personalized key allows manual opening of the gate and disables the electronic apparatus, preventing undesired movement.

BUILT-IN ELECTRONICS

Star D1230KG and Star D124KG are the control units integrated into the Dynamos automation. They simplify the job of the installer ensuring high performance in terms of safety, durability and speed.
A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical. The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product.

The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.

DYNAMOS TWIN

Dynamos Twin is the kit solution for sliding gate installation with double wings.
Two operators, one with control unit for a perfect synchronization of the motors and accessories.

Available in two 230 Vac versions for gate up to 500 Kg and 1000 Kg.

DYNAMOS - TECHNICAL DATA						
Code		D 500	D 1000	D 24/400	D 24/600	D 24/1000
Mains power supply	(Vac 50 Hz)	230				
Motor supply	(Vac/Vdc)	230		24		
Motor power	(W)	200	400	40	70	80
Speed	(m/min.)	10		9 ÷ 15		
Overload cut-out	(°C)	140		-		
Weight	(kg)	10	12	9	11	
Max weight of the gate	(kg)	500	1000	400	600	1000
Cycle of work	(%)	30		50	80	
Dimensions	(mm)	325x185x274				
Working temperature	(°C)	-20 ÷ +55				

Also available in 110 V version

Dynamos

MOTORS - AVAILABLE VERSIONS					
Code	Motor	Control unit	Radio receiver	Fixing kit	Gate max weight
Dynamos 500	230 Vac	Star D 1230 KG	•	•	500 kg
Dynamos 1000	230 Vac	Star D 1230 KG	•	•	1000 kg
Dynamos 24/400	24 Vdc	Star D 124 KG	•	•	400 kg
Dynamos 24/600	24 Vdc	Star D 124 KG	•	•	600 kg
Dynamos 24/1000	24 Vdc	Star D 124 KG	•	•	1000 kg

DYNAMOS TWIN - AVAILABLE VERSIONS					
Code	Dynamos 500 with control unit Star 2230 KG	Dynamos 500 without electronics	Dynamos 1000 with control unit Star 2230 KG	Dynamos 1000 without electronics	Gate max weight
Dy Twin 500	•	•			500 kg
Dy Twin 1000			•	•	1000 kg

Dynamos Kit

KIT - AVAILABLE VERSIONS										
Code	DYNAMOS 500	DYNAMOS 24/400	DYNAMOS 24/600	STYLO 4K	IDEA PLUS	NOVO LT 24 PLUS	VIKY 30	NOVO PH 180	TAB	Gate max weight
Dy Kit 230/500	•			• (2)	•		•		•	500 kg
Dy Kit 230/500 LT	•			• (1)			•			500 kg
Dy Kit 24/400		•		• (2)	•		•		•	400 kg
Dy Kit 24/400 LT		•		• (1)			•			400 kg
Dy Kit 24/600			•	• (2)	•		•		•	600 kg
Dy Kit 24/600 LT			•	• (1)			•			600 kg
Dy Kit 24/400 NV		•		• (2)		•		•	•	400 kg
Dy Kit 24/600 NV			•	• (2)		•		•	•	600 kg

24 V version also available for markets with 110 V mains power supply

DYNAMOS

STYLO 4K

IDEA PLUS

VIKY 30

TAB

NOVO LT 24 PLUS

NOVO PH 180

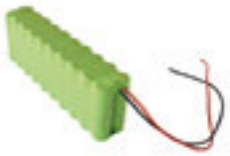
ACCESSORIES

CRIS 100
Nylon rack with metal inserts.
28x20x1000

CRIS 200
Rack in galvanized steel with screws and spacers.
30x12x1000

CRIS 400
Rack in galvanized steel.
22x22x1000

PDY 100
Foundation plate for ground level mounting



BAT M 016
24 V 1.6 Ah battery

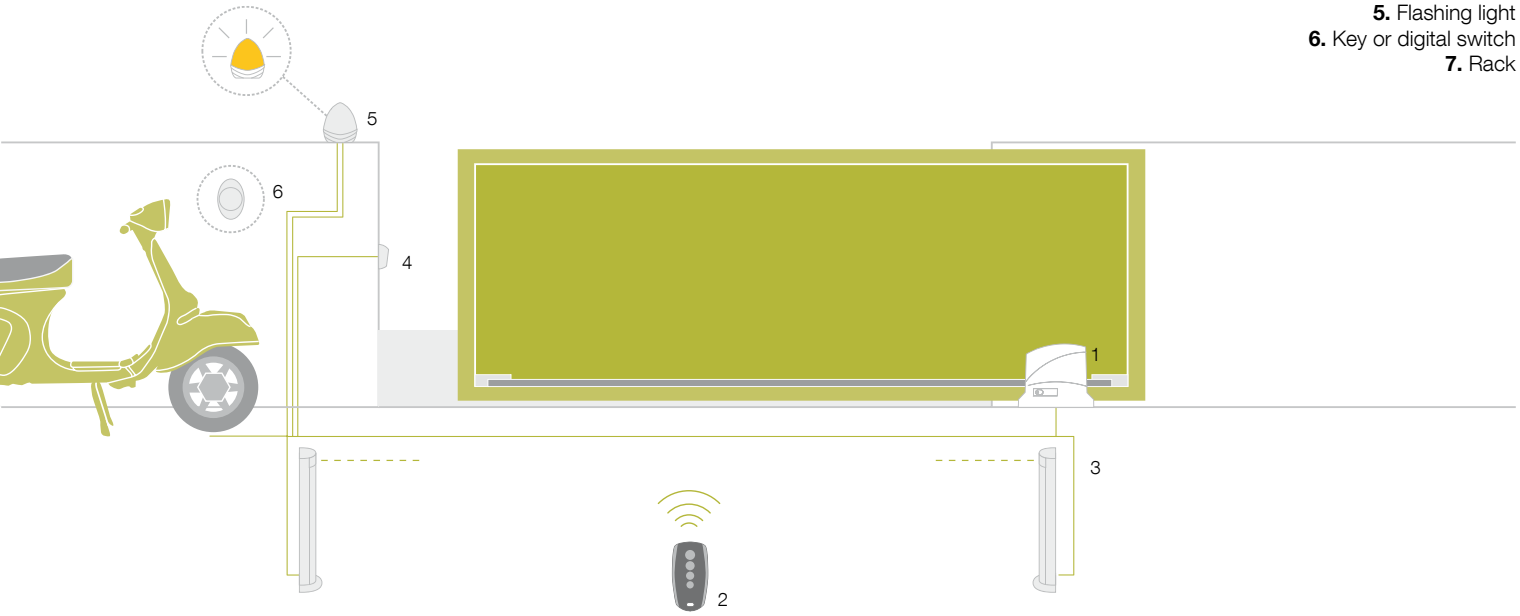
BAT K2
Battery charge card for BAT M016

STAR D 124 KG
Spare control unit for 24 V Dynamos with MEMO 200 and plastic protection

STAR D 1230 KG
Spare control unit for 230 V Dynamos with MEMO 200 and plastic protection

INSTALLATION DIAGRAM

Basic installation:
1. Operator Dynamos
2. Transmitter
3. Photocells mounted on posts
4. Photocells
5. Flashing light
6. Key or digital switch
7. Rack



Jet

Automation for swing gates with leaves up to 3 m - 600 Kg

1.

2.

3.

1. EXTRACTABLE CONNECTOR
it simplifies installation and maintenance operations

2. STRONG MECHANICAL TRANSMISSION
made of steel and bronze, for the utmost duration and reliability

3. MANUAL-RELEASE HANDLE
is made of die cast aluminium with personalized.

DESIGN AND TECNOLOGY

Designed to enhance any sort of gate, it fits into any setting. The elegant, wrap-around line of the two die cast aluminium shells makes Jet an original example of Italian-made creativity.
Thanks to the extractable connector, installation and maintenance are quick and easy.

The capacitor is built into the reduction gear and the regulating limit switches allow quick adjustment of travel.
The heart of Jet is the mechanical transmission, designed without cutting any corners to ensure the utmost reliability and to allow a range of use that's wider than the standard. All of the components turn on ball bearings which eliminate friction and noise.
The use of steel and bronze ensures duration and reliability even in severe conditions.
The manual-release handle is made of die cast aluminium with personalized key and ABS lock cover. It is located on the upperpart of the reduction gear to allow immediate, practical use with minimum effort.

ELECTRONIC CONTROL

Star 2230 and Star 224 are the control units for Jet automation. They simplify the job of the installer ensuring high performance in terms of safety, durability and speed.
A sole hardware speeds up the commissioning of automation management and maintenance becomes simple and practical.
The plastic box, spare fuses and the removable memory card are some examples of functionality and design of this reliable and innovative product.
The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.

JET - TECHNICAL DATA				
Code		JET 230 F	JET 230 S	JET 24
Motor supply	(Vac/Vdc)	230		24
Power	(W)	200	170	50
Speed	(m/sec)	0.016	0.01	0.013 ÷ 0.016
Run	(mm)	360		
Protection level	(IP)	44		
Automation weight	(kg)	8		7
Max length of the gate	(m)	3		
Max weight of the gate	(kg)	600		
Cycle of work	(%)	30		90
Dimensions operators	(mm)	100x110x820		
Operating temperature	(°C)	-20 ÷ +55		

Jet

AUTOMATION - AVAILABLE VERSIONS					
Code	Motor	Mechanical stop	Fixing kit	Protective brushes	Wing max dimensions
Jet 230 F	230 Vac	• (1)	•		3 m; 600 kg
Jet 230 S	230 Vac	• (1)	•		3 m; 600 kg
Jet 24	24 Vdc	• (1)	•		3 m; 600 kg
Jet 230 F TOP	230 Vac	• (2)	•	•	3 m; 600 kg
Jet 230 S TOP	230 Vac	• (2)	•	•	3 m; 600 kg
Jet 24 TOP	24 Vdc	• (2)	•	•	3 m; 600 kg

Jet Kit

KIT - AVAILABLE VERSIONS											
Code	JET 230	JET 24	STAR 2230 BOX	STAR 224 BOX	STYLO 4K	IDEA PLUS	VIKY 30	NOVO LT 24 PLUS	NOVO PH 180	TAB	Wing max dimensions
Jet Kit 230	• (2)		•		• (2)	•	•			•	3 m; 600 kg
Jet Kit 230 LT	• (2)		•		• (1)		•				3 m; 600 kg
Jet Kit 24		• (2)		•	• (2)	•	•			•	3 m; 600 kg
Jet Kit 24 LT		• (2)		•	• (1)		•				3 m; 600 kg
Jet Kit 24 NV		• (2)		•	• (2)			•	•	•	3 m; 600 kg

24 V version also available for markets with 110 V mains power supply

JET

STAR BOX

STYLO 4K

IDEA PLUS

VIKY 30

TAB

NOVO LT 24 PLUS

NOVO PH 180

ACCESSORIES

STP
Rear screw-on bracket
(pcs./package 2)

STP 02
Rear vertical screw-on
bracket (pcs./package 2)

STA
Front screw-on bracket
(pcs./package 2)

STL
Rear bracket, length =
220mm (pcs./package 2)

BK 01
Mechanical limit switch
(pcs./package 2)

BK 02 TOP
Mechanical limit switch
for Jet Top (pcs./package 2)

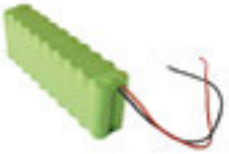
CJ 230
Cabled connector for Jet 230.
(Cable lenght = 1.2m)

CJ 24
Cabled connector for Jet 24.
(Cable lenght = 1.2m)

LOCK HO
Horizontal
electro lock 12 V

LOCK VE
Vertical
electro lock 12 V

SELC 100
Card for electrical lock



BAT M 016
24 V 1.6 Ah battery

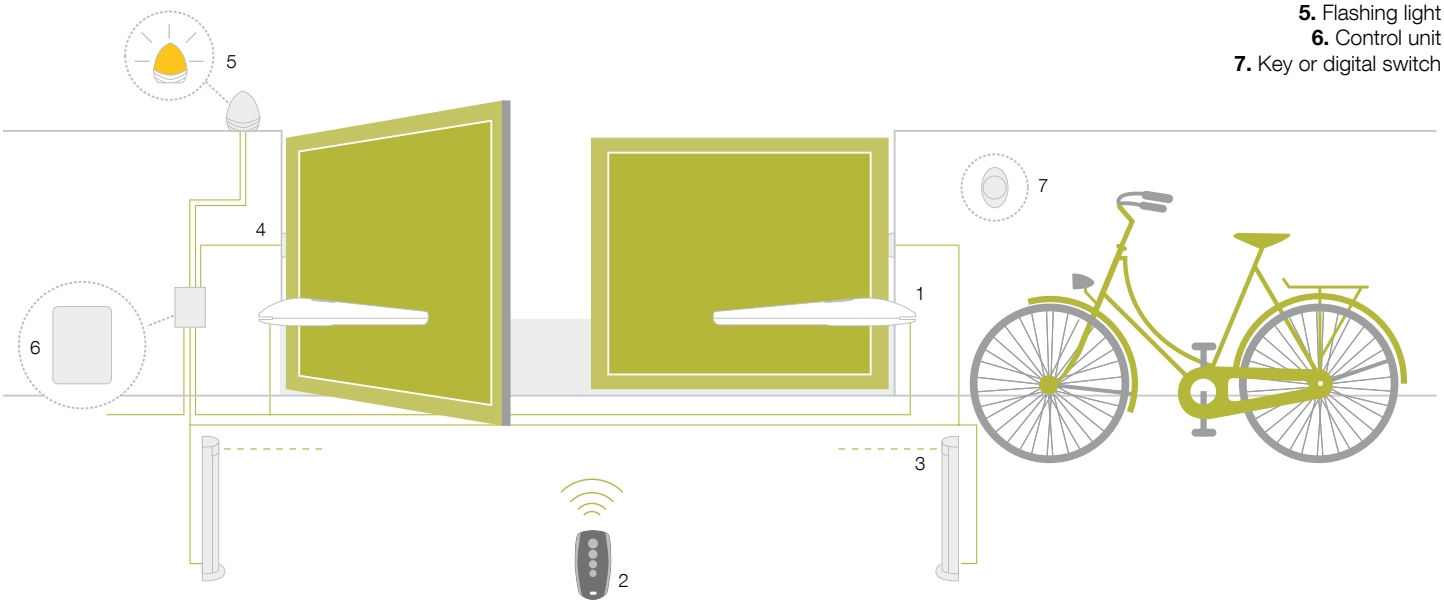
BAT K2
Battery charge card
for BAT M016

STAR 224 KG
Spare control unit for Star
224 box with MEMO 200
and plastic protection

STAR 2230 KG
Spare control unit for Star
2230 box with MEMO 200
and plastic protection

INSTALLATION DIAGRAM

Basic installation
1. Operators Jet
2. Transmitter
3.Photocells mounted
on posts
4. Photocells
5. Flashing light
6. Control unit
7. Key or digital switch



Couper 24

Automation for swing gates with leaves up to 2 m - 250 Kg

1.

2.

3.

MECHANICAL RELIABILITY

Couper is the ideal automation for swing gates up to 2 m - 250 kg. The mechanical system, inserted into two strong die-cast aluminium frames, is designed to guarantee great performances in any environmental condition.

EASY INSTALLATION

Just two cables for the electric connection of Couper. The access to the terminal block, set in the upper part of the operator, simplifies its connection and installation. The regulation of the travel is simple and fast thanks to adjustable mechanical stops.

ADVANCED ELECTRONICS

The control unit Star 224 box radically simplifies every fitter's job and guarantees high performances in terms of safety, durability and speed. Plastic frame, replacement fuses and removable memory card: these are just some examples of the functionality and the design of this reliable and innovative product. **The software technology PWM (Pulse width modulation) guarantees safety in case of obstacles and allows the regulation of the speed on opening and closing of the gate.**

1. CONNECTION COMPARTMENT
Easy and fast to install thanks to its position in the upper part of the operator.

2. LIMIT SWITCH
Fast regulation of the travel with strong mechanical stop.

3. ELECTRONICS
Programming with self-learning function, adjustable functions through dip-switches and regulation of power and speed through trimmers.

COUPER 24 - TECHNICAL DATA		
Motor supply	(Vac/Vdc)	24
Power	(W)	80
Speed	(m/sec)	0.013 ÷ 0.016
Travel	(mm)	360
Protection level	(IP)	44
Weight	(kg)	6
Max length of the gate	(m)	2
Max weight of the gate	(kg)	250
Work cycle	(%)	50
Dimensions	(mm)	100x104x780
Working temperature	(°C)	-20 ÷ +50

Couper 24

AUTOMATION - AVAILABLE VERSIONS					
Code	Motor	Mechanical stop	Fixing kit	Protective brushes	Wing max dimensions
Couper 24	24 Vdc	• (1)	•		2 m; 250 kg

Couper 24 Kit

KIT - AVAILABLE VERSIONS							
Code	COUPER 24	STAR 224 BOX	STYLO 4K	IDEA 24 PLUS	VIKY 30	TAB	Wing max dimensions
Couper Kit 24	• (2)	•	• (2)	•	•	•	2 m; 250 kg
Couper Kit 24 LT	• (2)	•	• (1)		•		2 m; 250 kg

24 V version also available for markets with 110 V mains power supply

COUPER 24

STAR BOX

STYLO 4K

IDEA 24 PLUS

VIKY 30

TAB

ACCESSORIES

STP 200
Screw-adjustable rear bracket (2 pc/pack)

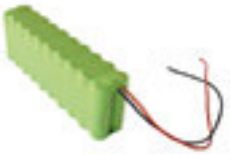
STA 200
Screw-adjustable front bracket (2 pc/pack)

BK 200
Adjustable mechanical travel stops (2 pc/pack)

LOCK HO
Horizontal 12 V electric lock

LOCK VE
Vertical 12 V electrical lock

SELC 100
Card for electrical lock



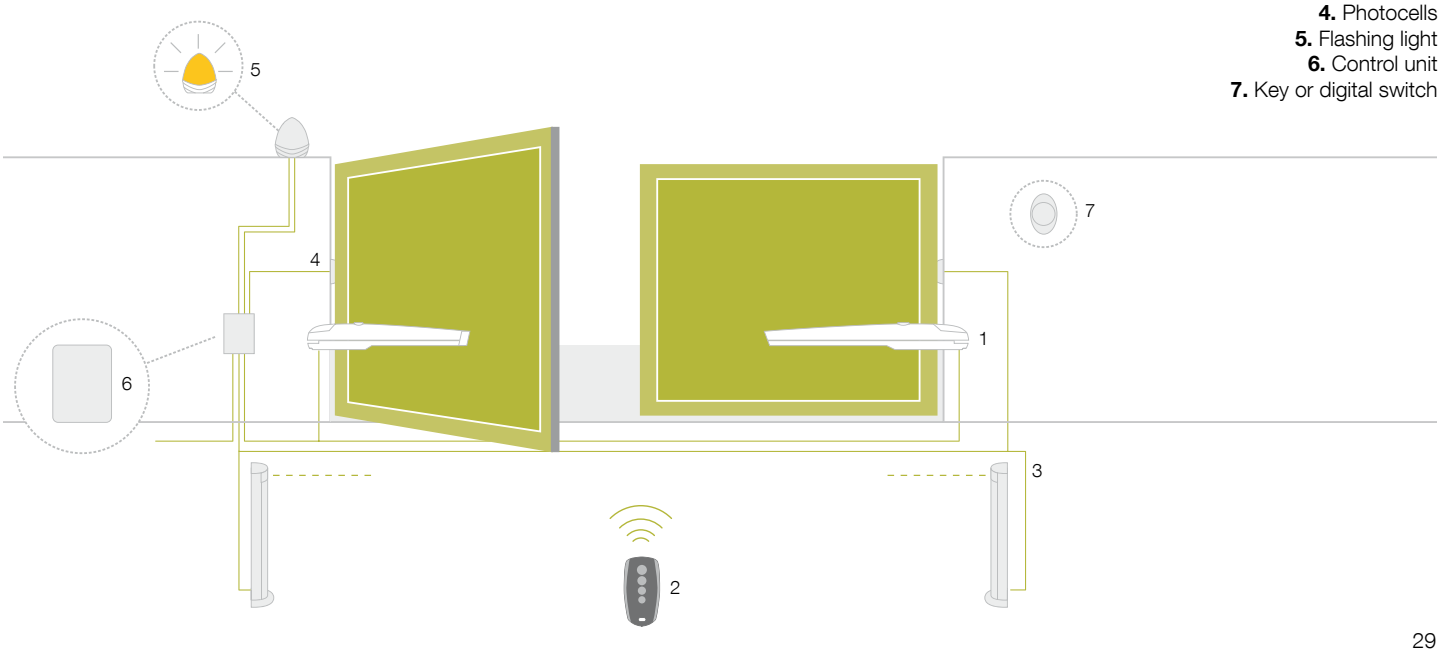
BAT M 016
24 V 1.6 Ah battery

BAT K2
Battery charge card for BAT M016

STAR 224 KG
Spare control unit for Star 224 box with MEMO 200 and plastic protection

INSTALLATION DIAGRAM

Basic installation
1. Couper
2. Transmitter
3. Photocells mounted on posts
4. Photocells
5. Flashing light
6. Control unit
7. Key or digital switch



Linear

Automation for swing gates with leaves up to 2.5 m - 300 Kg

1.

2.

3.

1. RESISTANT MECHANICS
Metal mechanical transmission and technopolymer drive screw

2. SCREW-ON FIXING BRACKETS
Fast weld-free assembly

3. EASY PROTECTED RELEASE
Easy access to the release device on top of the operator

SIMPLE AND RELIABLE

Mechanically reliable thanks to the telescopic piston transmission and motor with 140 °C thermal protection.

With Linear, the screw-on front and rear fixing brackets on the automation reduce installation times to a minimum. The 1.5 m pre-wired cable makes electrical connection easy.

Linear offers the most inexpensive solution for automating swing gates.

In case of power failure, manual operation is simple and intuitive by inserting the release handle in the top of the operator. The plastic protection on the release pin guarantees operation even in the presence of ice.

LINEAR - TECHNICAL DATA		
Motor supply	(Vac)	230
Power	(W)	200
Speed	(cm/sec)	1.8
Travel	(mm)	400
Protection level	(IP)	44
Weight	(kg)	5.8
Max length of the gate	(m)	2.5
Max weight of the gate	(kg)	300
Work cycle	(%)	30
Dimensions	(mm)	95x760x95
Working temperature	(°C)	-20 ÷ +55

Linear

AUTOMATION - AVAILABLE VERSIONS					
Code	Motor	Right version	Left version	Fixing kit	Wing max dimensions
Linear 400 DX	230 Vac	•		•	2.5 m; 300 kg
Linear 400 SX	230 Vac		•	•	2.5 m; 300 kg

Linear Kit

KIT - AVAILABLE VERSIONS								
Code	LINEAR DX	LINEAR SX	STAR 2230 BOX	STYLO 4K	IDEA 230 PLUS	VIKY 30	TAB	Wing max dimensions
Linear Kit 400	•	•	•	• (2)	•	•	•	2.5 m; 300 kg
Linear Kit 400 LT	•	•	•	• (1)		•		2.5 m; 300 kg

LINEAR

STAR BOX

STYLO 4K

IDEA 230 PLUS

VIKY 30

TAB

ACCESSORIES

LOCK HO
Horizontal 12 V electric lock

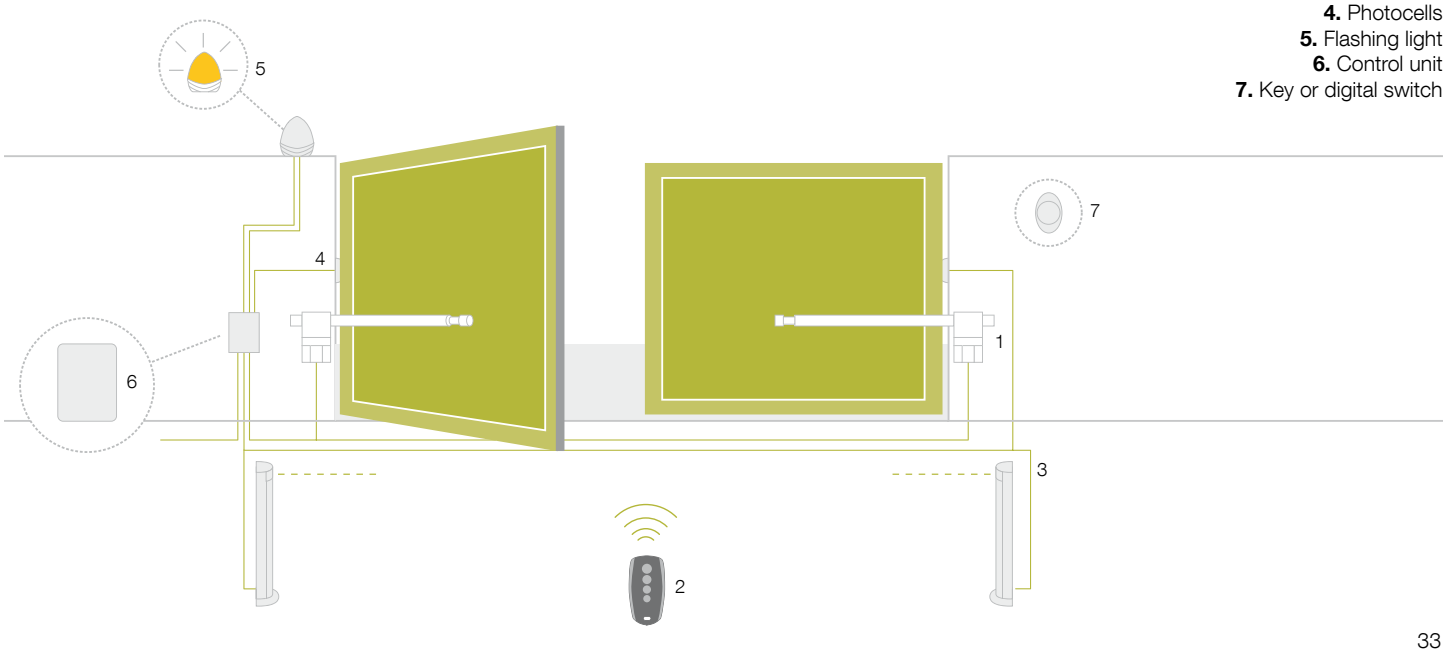
LOCK VE
Vertical 12 V electrical lock

SELC 100
Card for electrical lock

STAR 2230 KG
Spare control unit for Star 2230 box with MEMO 200 and plastic protection

INSTALLATION DIAGRAM

Basic installation
1. Linear
2. Transmitter
3. Photocells mounted on posts
4. Photocells
5. Flashing light
6. Control unit
7. Key or digital switch



Modus

Automation for swing gates with leaves up to 4.2 m - 500 Kg

1.

2.

3.

1. CONTROL UNIT
Fast regulation with trimmers and dip-switches, programming with self-learning function

2. ARTICULATED ARM
Strong die-cast aluminium arm with anti-shearing device

3. MECHANICAL LIMIT SWITCH
Strong adjustable steel limit switch

PATENTED PERFORMANCES

Thanks to its patented mechanics, Modus can automate big gates with dimensions up to 4.2 m and 500 Kg. It has a precise mechanical limit switch regulation that allows a fine adjustement of the wing in opening and closing.
Easy and fast to install with its 165 mm of width, available in two motor versions with two standard arms and two optional arms with sliding and rotating features for every type of installation.
4 kilograms of aluminum, 4-stage gear box entirely in stainless and high-quality synthetic lubricant make Modus a indestructible automation and can be used at any temperature.
The 24 V motor allows intensive use installations.

ELECTRONIC CONTROL

Star M224 is the control units of Modus. It simplifies the life of the installer, guaranteeing extremely high performances in terms of safety, durability and speed. The complete software speeds up the installation of the automation and the maintenance becomes simple and practical.
The spare fuses and the removable memory card are some examples of the functionality and design of a reliable and innovative product.
The software technology PWM (Pulse width modulation) guarantees safety in case of obstacles and allows the regulation of the speed on opening and closing of the gate.

MODUS - TECHNICAL DATA			
Code		MODUS 280	MODUS 420
Mains power supply	(Vac 50 Hz)	230	
Motor supply	(Vac)	24	
Motor power	(W)	30	45
Speed	(Rpm)	0.9 ÷ 1.5	
Absorption	(A)	1.25	1.87
Weight	(kg)	7.5	
Max length of the gate	(m)	2.8	4.2
Max weight of the gate	(kg)	300	500
Cycle of work	(%)	50	
Dimensions	(mm)	165x250x306	
Working temperature	(°C)	-20 ÷ +55	

Also available in 110 V version

Modus

MOTORS - AVAILABLE VERSIONS						
Code	Motor	Control unit	Radio receiver	Mechanical stop	Fixing kit	Wing max dimensions
Modus 280 SL	24 Vdc	-	-	• (2)	•	2.8 m; 300 kg
Modus 280 MA	24 Vdc	Star M 224	•	• (2)	•	2.8 m; 300 kg
Modus 420 SL	24 Vdc	-	-	• (2)	•	4.2 m; 500 kg
Modus 420 MA	24 Vdc	Star M 224	•	• (2)	•	4.2 m; 500 kg

Modus Kit

KIT - AVAILABLE VERSIONS										
Code	Modus 280 MA	Modus 280 SL	Modus 420 MA	Modus 420 SL	MO Link 420	Stylo 4K	Idea 24 Plus	Viky 30	Tab	Wing max dimensions
Modus Kit 280	•	•			• (2)	• (2)	•	•	•	2.8 m; 300 kg
Modus Kit 280 LT	•	•			• (2)	• (1)		•		2.8 m; 300 kg
Modus Kit 420			•	•	• (2)	• (2)	•	•	•	4.2 m; 500 kg
Modus Kit 420 LT			•	•	• (2)	• (1)		•		4.2 m; 500 kg

Code **Novo Kit**	Modus 280 MA	Modus 280 SL	Modus 420 MA	Modus 420 SL	MO Link 420	Stylo 4K	Novo LT 24 Plus	Novo PH 180	Tab	Wing max dimensions
Modus Kit 280 NV	•	•			• (2)	• (2)	•	•	•	2.8 m; 300 kg
Modus Kit 420 NV			•	•	• (2)	• (2)	•	•	•	4.2 m; 500 kg

Gear motors Modus don't include the arm of connection to the leaf. It is necessary to choose the most suitable arm for the gate in the list of the following page.
Kits include the arm MO LINK 420.
24 V version also available for markets with 110 V mains power supply

MODUS MA

MODUS SL

STYLO 4K

IDEA 24 PLUS

VIKY 30

TAB

NOVO LT 24 PLUS

NOVO PH 180

CONNECTION ARMS

MO LINK 180
For leaves up to 1.8 m.
Distance between the axle of rotation of the gate and the fixing surface of the gear motor 200 mm

MO LINK 420
For leaves up to 4.2 m.
Distance between the axle of rotation of the gate and the fixing surface of the gear motor 350 mm

MO L C18 SX
Sliding arm for wing up to 1.8 m - 300 Kg.
Left version

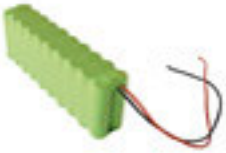
MO L C18 DX
Sliding arm for wing up to 1.8 m - 300 Kg.
Right version

MO Link R42
Rotative arm
(Inclination+/- 8°)
Wing max dimensions
4.2 m - 500 Kg

ACCESSORIES

BK 40
Mechanical limit switch
(2 pieces)

SBLO 800
External release



BAT M 016
Batteries 24 V 1.6 Ah

BAT K2
Battery charge card
for Bat M016

LOCK HO
Horizontal
electro lock 12 V

LOCK VE
Vertical
electro lock 12 V

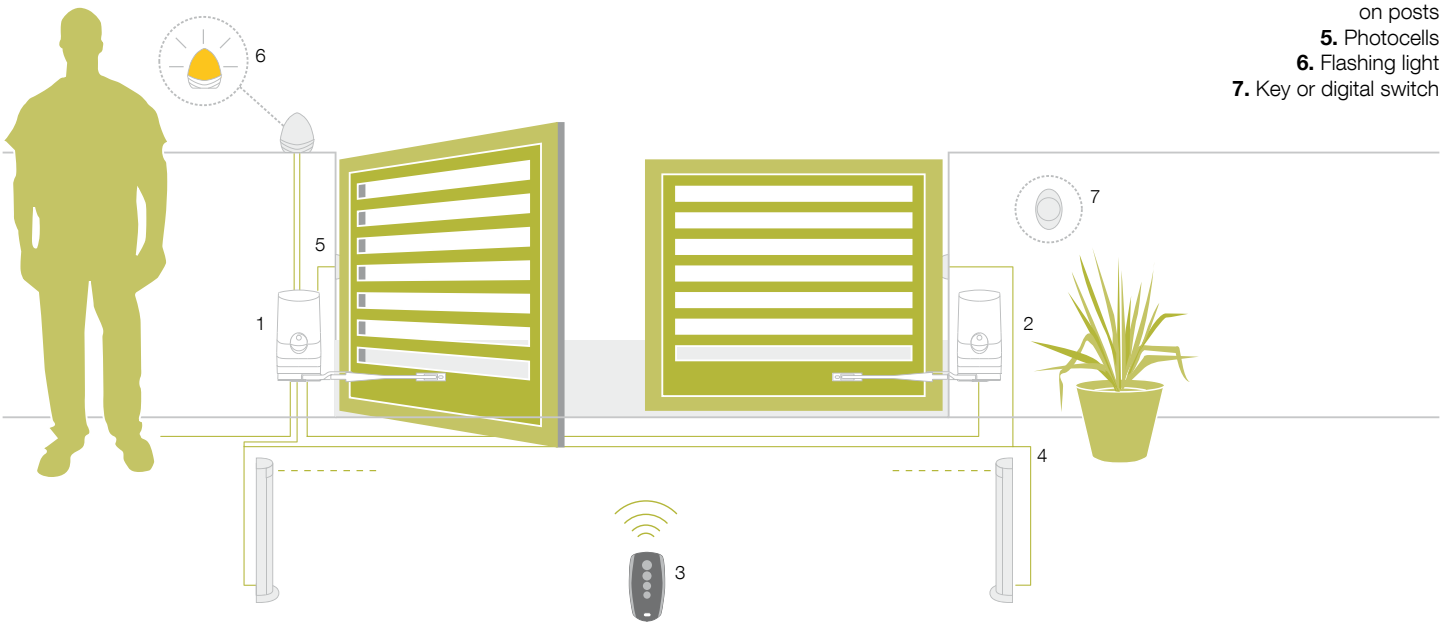
SELC 100
Card for electrical lock

STAR M 224 KG
Spare control unit for Modus with MEMO 200 and plastic protection

STAR M224 BOX
Electronic control unit with plastic box, transformer and radio receiver for one or two Modus SL

INSTALLATION DIAGRAM

Basic installation:
1. Operator Modus MA
2. Operator Modus SL
3. Transmitter
4. Photocells mounted on posts
5. Photocells
6. Flashing light
7. Key or digital switch



MiniModus

Automation for swing gates with leaves up to 2 m - 250 Kg

1.

2.

3.

1. CONTROL UNIT
Fast regulation by trimmers and dip-switches, programming with self-learning function.

2. ARTICULATED ARM
Strong die-cast aluminium arm with anti-shearing device.

3. MECHANICAL LIMIT SWITCH
Strong adjustable steel limit switch.

EASY TO INSTALL

MiniModus is the gear motor with articulated arm for swing gates with leaves up to 2 m and 250 kg. **With just 155 mm in width, this gear motor allows its fixing also on small spaces while the geometry of the articulated arm guarantees its installation also on wide posts with distance between the axle of the leave and the fixing surface of the gear motor up to 240 mm.**

COMPACT AND SAFE

MiniModus holds inside a control unit and the housing for batteries which guarantee operations also after several hours after a black-out.
The release operation, as for all KINGgates products, is simple and fast while the fixing of the gear motor to a post and on the gate is fast and comfortable to the fitter. In fact, thanks to screw-adjustable brackets, it is not necessary any operation of welding.

INTEGRATED CONTROL UNIT

Star MM224 KG is the integrated control unit inside MiniModus. This control unit radically simplifies the fitter's job by guaranteeing high performances in terms of safety, duration and speed. Its plastic box, the spare fuses and the removable memory card are examples of the functionality and design of this reliable and innovative product.
The software technology PWM (Pulse width modulation) guarantees safety in case of obstacles and allows the regulation of the speed on opening and closing of the gate.

MINIMODUS 24 - TECHNICAL DATA		
Code		MINIMODUS
Mains power supply	(Vac 50 Hz)	230
Motor supply	(Vdc)	24
Torque	(Nm)	150
Speed	(Rpm)	1.2 ÷ 1.7
Protection level	(IP)	44
Weight	(kg)	6.5
Max length of the gate	(m)	2
Max weight of the gate	(kg)	250
Work cycle	(%)	30
Dimensions	(mm)	155x253x314
Working temperature	(°C)	-20 ÷ +50

Also available in 110 V version

MiniModus

MOTORS - AVAILABLE VERSIONS							
Code	Motor	Control unit	Radio receiver	Mechanical stop	Fixing kit	Articulated arm	Wing max dimensions
MiniModus SL	24 Vdc	-	-	• (1)	•	•	2 m; 250 kg
MiniModus MA	24 Vdc	Star MM224	•	• (1)	•	•	2 m; 250 kg

MiniModus Kit

KIT - AVAILABLE VERSIONS									
Code	MINIMODUS MA	MINIMODUS SL	STYLO 4K	IDEA 24 PLUS	VIKY 30	NOVO LT 24 PLUS	NOVO PH 180	TAB	Wing max dimensions
MiniModus Kit 24	•	•	• (2)	•	•			•	2 m ; 250 kg
MiniModus Kit 24 LT	•	•	• (1)		•				2 m ; 250 kg
MiniModus Kit 24 NV	•	•	• (2)			•	•	•	2 m; 250 kg

24 V version also available for markets with 110 V mains power supply

MINIMODUS MA

MINIMODUS SL

STYLO 4K

IDEA 24 PLUS

VIKY 30

TAB

NOVO LT 24 PLUS

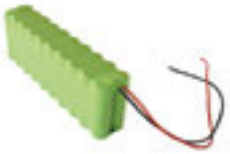
NOVO PH 180

ACCESSORIES

LOCK HO
Horizontal 12 V
electric lock

LOCK VE
Vertical 12 V
electrical lock

SELC 100
Card for electrical lock



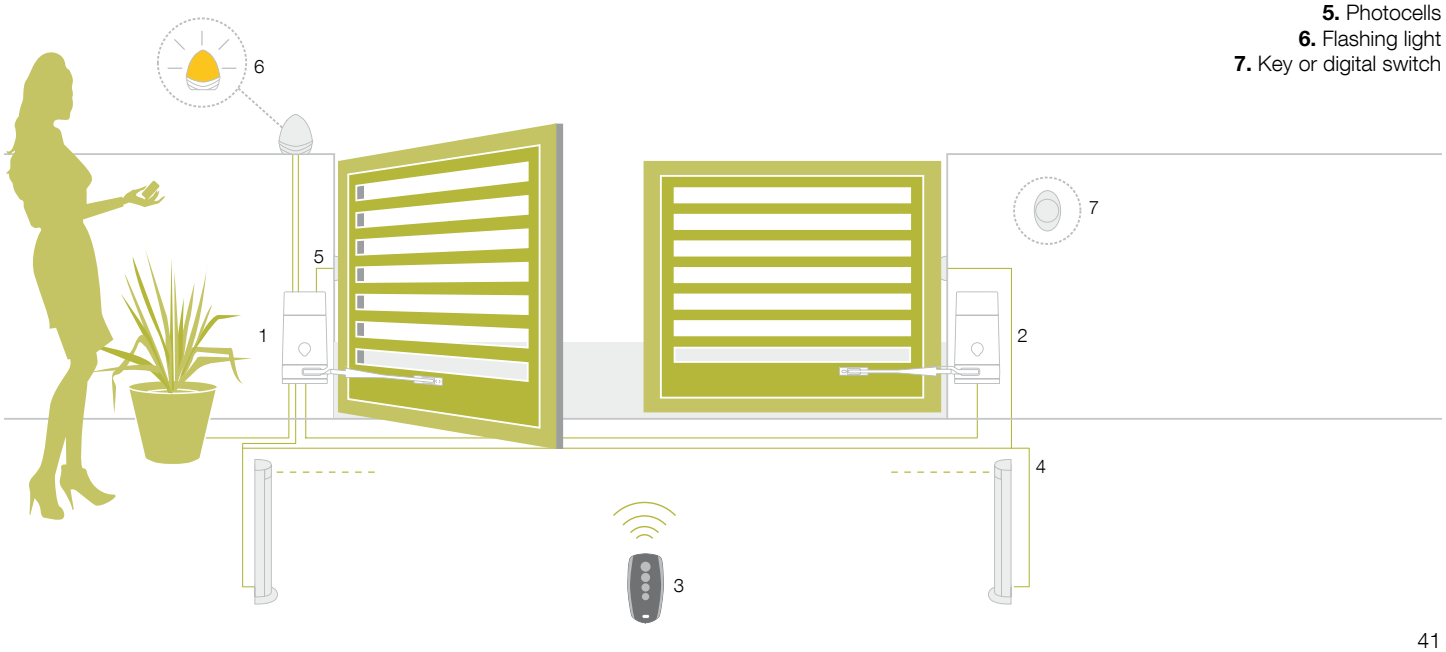
BAT M 016
24 V 1.6 Ah battery

BAT K2
Battery charge card
for BAT M016

STAR MM 224 KG
Spare control unit for
Minimodus with MEMO 200
and plastic protection

INSTALLATION DIAGRAM

Basic installation
1. Motoriduttore MiniModus MA
2. Motoriduttore MiniModus SL
3. Transmitter
4. Photocells mounted on posts
5. Photocells
6. Flashing light
7. Key or digital switch



Intro 400

Automation for swing gates with leaves up to 4 m - 500 Kg

1.

2.

3.

1. RELEASE
Available with key or lever

2. FOUNDATION BOX
Tough extra thick foundation box

3. MECHANICAL STOP
Opening and closing stop as standard

DESIGN AND TECHNOLOGY

The underground installation makes the automation completely invisible without altering the appearance of the gate. The solid die cast aluminium and IP67 watertight seal ensure reliable operation and low maintenance. In the event of power failure, manual opening of the gate is immediate thanks to the release lever accessory, or in the 24 V version, the battery buffer system.

ADVANCED ELECTRONICS

The Star 2230 Box and Star 224 Box control units are designed to control Intro gear motors.They radically simplify the installer's job, ensuring high performance in terms of safety, durability and speed. **They radically simplify the installer's job, ensuring high performance in terms of safety, durability and speed.** The plastic box, spare fuses and removable memory card are just some examples of the functions and design of this reliable innovative product. The software technology PWM (Pulse width modulation) in the 24 Vdc control units and the Cycle Set Up system in the 230 Vac control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.

COMPLETE RANGE

The Intro 400 automation is available in 230 V and 24 V versions, with electrophoretic painted and stainless steel boxes for a long working life and two types of release device, lever or key operated.

INTRO 400 - TECHNICAL DATA			
Code		INTRO 24-400	INTRO 230-400
Mains power supply	(Vac 50 Hz)	230	
Motor supply	(Vac/Vdc)	24	230
Power	(W)	120	340
Speed	(rpm)	1	0.85
Protection level	(IP)	67	
Automation weight	(kg)	12,5	14,3
Max length of the gate	(m)	4	
Max weight of the gate	(kg)	500	
Cycle of work	(%)	60	20
Dimensions operators	(mm)	225x110x375	
Operating temperature	(°C)	-20 ÷ +50	

Intro 400

MOTORS - AVAILABLE VERSIONS			
Code	Motor	Mechanical stop in closing	Wing max dimensions
INTRO 230-400	230 Vac	•	4 m - 500 Kg
INTRO 24-400	24 Vdc	•	4 m - 500 Kg

UNDERGROUND BOX - AVAILABLE VERSIONS				
Code	Zinc coated steel frame	Stainless steel frame	Lever unlock system	Mechanical stop in opening
INTROBOX 400	•		-	•
INTROBOX 400 S		•	-	•

Introbox boxes do not include the release lever. To complete the kit, add the "INTRO LOCK" and "INTRO KEY code (see accessories)
24 V version also available for markets with 110 V mains power supply

ACCESSORIES

INTRO LOCK
Lever release unlock system

INTRO KEY
Key release unlock system

INTRO FR
Adapter for foundation boxes

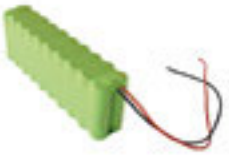
INK
Lever-type unlock for INTRO LOCK (4 pcs/pack)

INT 360
Kit for 360° leaf opening

LOCK HO
Horizontal
electro lock 12 V

LOCK VE
Vertical
electro lock 12 V

SELC 100
Card for electrical lock



BAT M 016
24 V 1.6 Ah battery

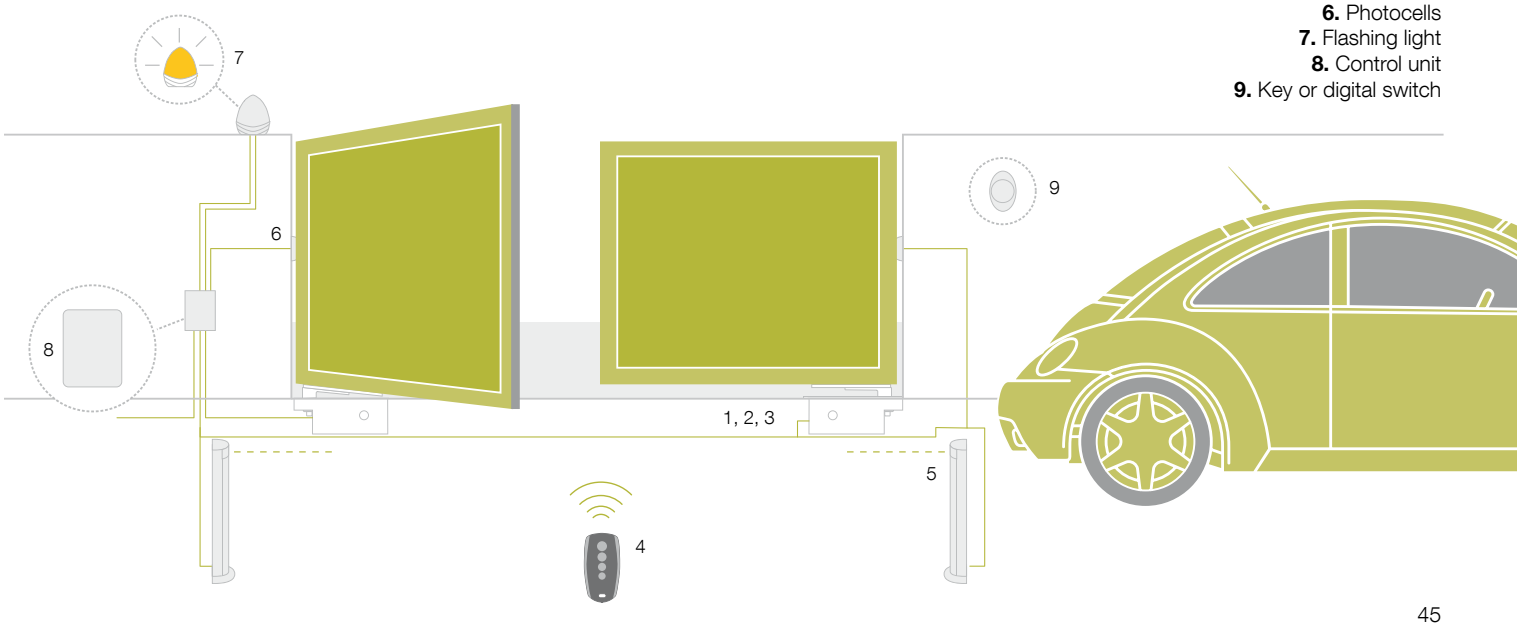
BAT K2
Battery charge card
for BAT M016

STAR 224 KG
Spare control unit for Star 224 box with MEMO 200 and plastic protection.

STAR 2230 KG
Spare control unit for Star 2230 box with MEMO 200 and plastic protection.

INSTALLATION DIAGRAM

Basic installation
1. Operator Intro 400
2. Foundation box
3. Unlock system
4. Transmitter
5.Photocells mounted on posts
6. Photocells
7. Flashing light
8. Control unit
9. Key or digital switch



Open

Automation for barriers with bars up to 4 and 6 m long

1.

2.

3.

1. RELEASE SYSTEM
strong and reliable key release rystem

2. BAR
Elliptic profile in painted aluminium

3. CONTROL UNIT
Wide lodging for control unit and electric wirings

COMPLETE RANGE

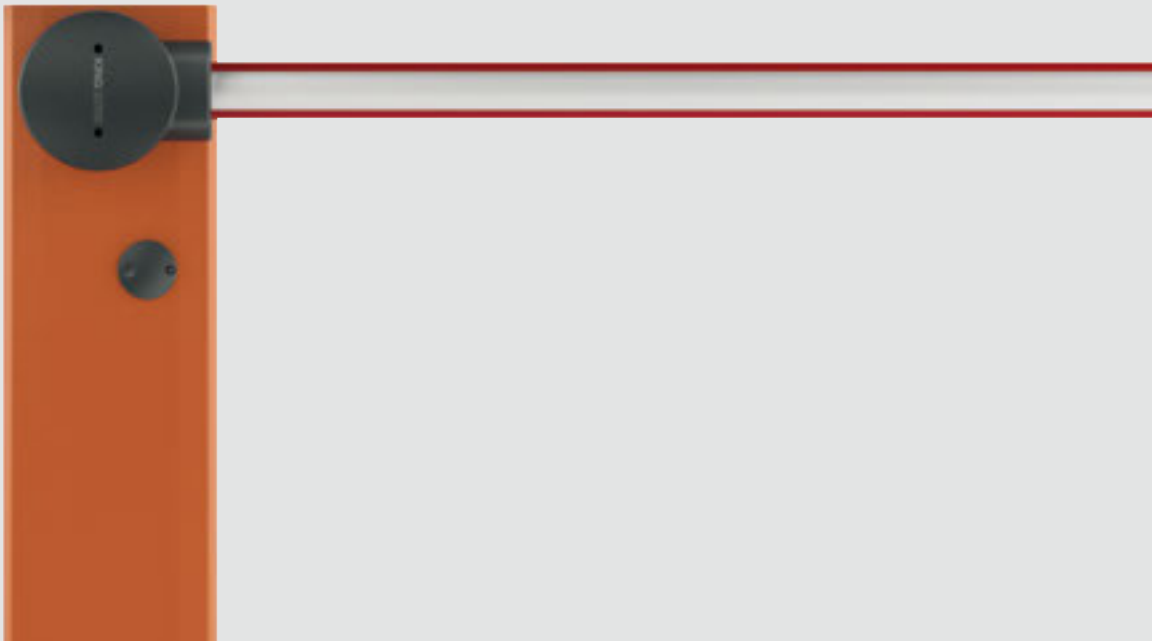
Available in 2 versions with bars from 4 up to 6 m, Open barriers are the ideal solution for control access of private roads, industrial complex and public transit areas.
The 24 V direct current operator and the easy speed regulation allow a fast and intensive use, with opening time of just 3.5 seconds.
The installation is easy thanks to the possibility to assemble the bar on either the right or left hand side indifferently, and to the easy balance through a linear adjustment of the spring.

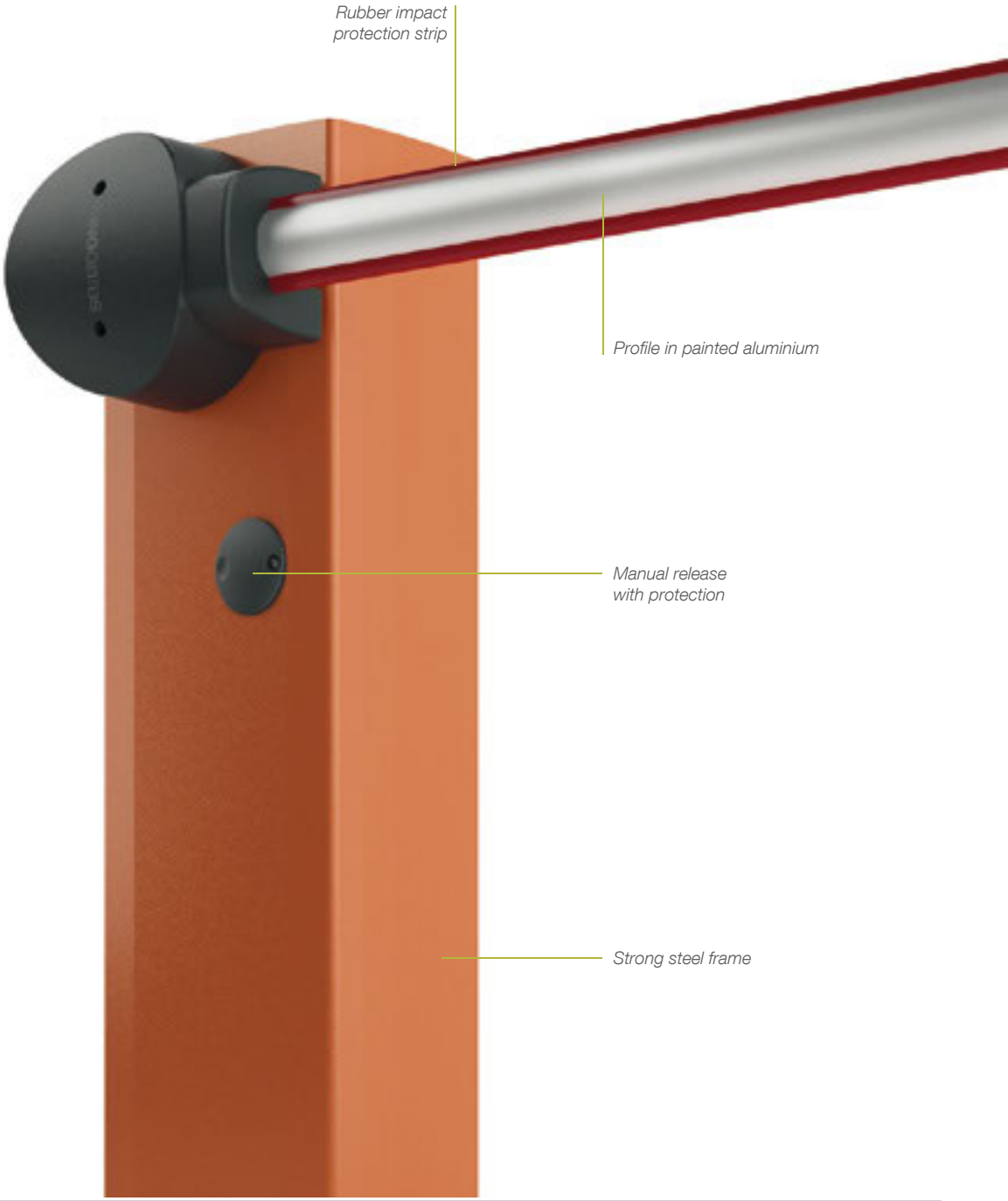
OVERALL SAFETY

The anti-crush safety feature is guaranteed on opening and closing.
The control unit is protected by a metal frame and accessible just by a customised lock.
The manual opening is simple thanks to the protected release system, while the battery kit, purchasable as additional accessory, guarantees operations also in case of black-out.

ACCESSORIES

Open barriers are completed by a wide and innovative range of accessories. The painted aluminium bars are extensible through strong joints that facilitate their transport and installation. The joint for bars allows installations also in underground garages or where the height of the ceiling doesn't allow the installation of standard bars. The led lights efficaciously signal the opening and closing of the bar.





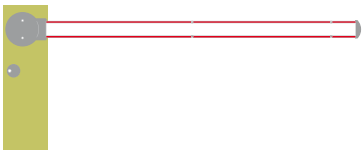
OPEN - TECHNICAL DATA			
Code		OPEN 4000	OPEN 6000
Mains power supply	(Vac)	230	
Absorption	(A)	1.1	0.6
Power	(W)	300	360
Opening time	(sec)	3.5	5
Torque	(Nm)	140	200
Work cycle	(%)	80	
Protection level	(IP)	54	
Working temp.	(°C)	-20 ÷ +50	
Dimensions	(mm)	320x220x1000 h	420x220x1050 h
Weight	(kg)	46	54

Also available in 110 V version

Open

OPERATORS - AVAILABLE VERSIONS					
Code	Motor	Control Unit	Radio receiver	Fixing kit	Maximum bar length
Open 4000	24 Vdc	Star Open		•	4 m
Open 6000	24 Vdc	Star Open		•	6 m

BARS - AVAILABLE VERSIONS				
Code	Bar length	Compatible with Open 4000	Compatible with Open 6000	ASOLINK joint obligatory
ASO 4000	4 m	•		
ASO 3000	3 m		•	•
ASO 5000	5 m		•	



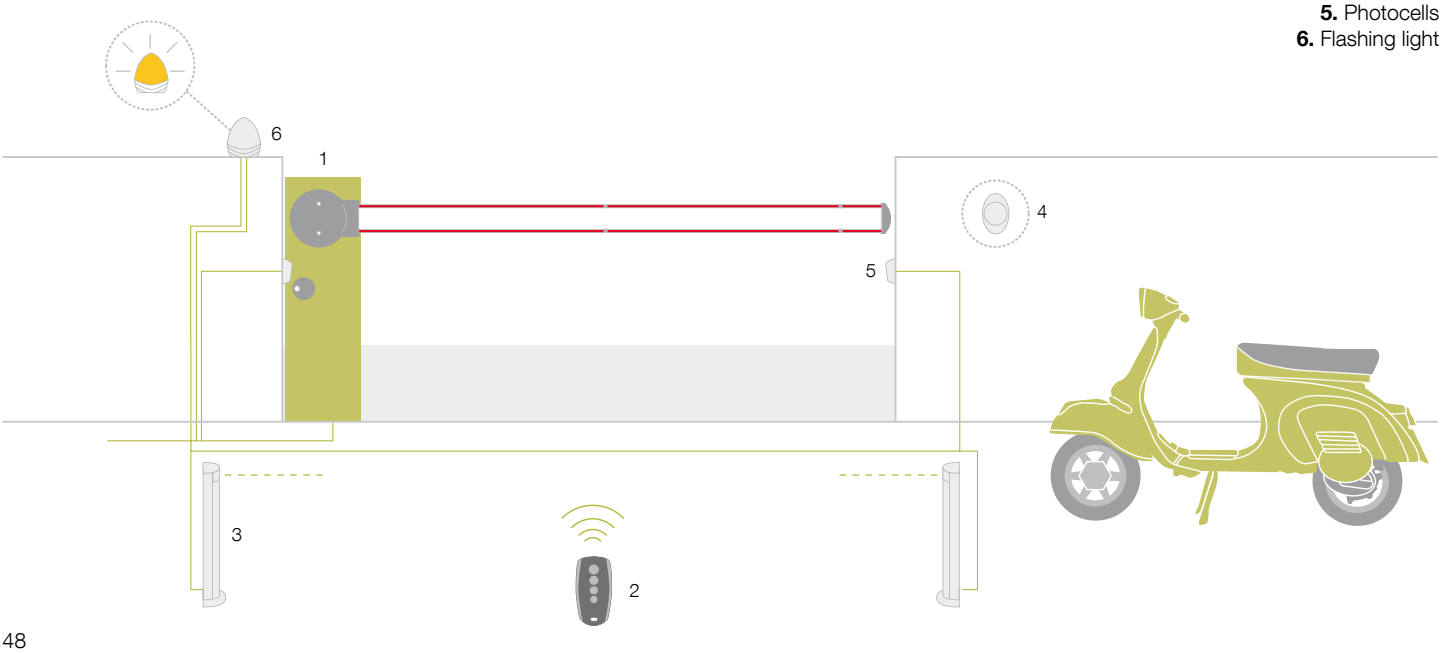
OPEN 4000 + ASO 4000
Barrier complete with fixing accessories
and 4 m max. bar length

OPEN 6000 + ASO 5000
Barrier complete with fixing accessories
and 5 m max. bar length

OPEN 6000 + n°2 ASO 3000 + n°1 ASOLINK
Barrier complete with fixing accessories
and 6 m max. bar length

INSTALLATION DIAGRAM

Basic installation
1. Operators Open
2. Transmitter
3. Photocells mounted on posts
4. Key switch
5. Photocells
6. Flashing light



ACCESSORIES

FOR OPEN 4000

ASO 4000
Bar 4 m

ASOLED4000
Indicator lights for click fixture on upper or lower side of bar. Length 4 m

ASOB4000
Anchorage base

FOR OPEN 6000

ASO 3000
Bar 3 m

ASOLINK
Expansion joint compatible with ASO 3000

ASOLED6000
Indicator lights for click fixture on upper or lower side of bar. Length 6 m

ASOJOINT
Joint for bars ASO3000 (from 1950 mm to 2400 mm)

ASO 5000
Bar 5 m

ASOB6000
Anchorage base

ASOGRID
Aluminium rack

COMMON ACCESSORIES

ASORUB
Rubber impact protection strip

ASOSTICK
Red adhesive reflector strips

ASOPA
Mobile stand for bars

ASOPF
Adjustable stand for bars

STAR Open
Spare control unit

RX K1
Plug-in receiver

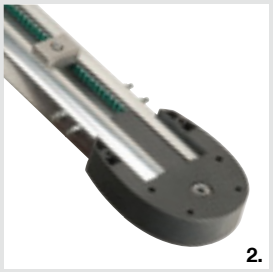
Bat K30
Plug-in card for battery charger

BAT60
12 V, 6 Ah batteries (two batteries required for operation)

Rolls

Automation for sectional doors up to 17 m² and overhead doors up to 14 m²

1.


2.

3.

1. ELECTRONICS
Programming with selflearning function, adjustable functions through dip-switches and regulation of power and speed.

2. STEEL RAIL
Strong guide in profiled metal and belt drive transmission with 6 core steel cables.

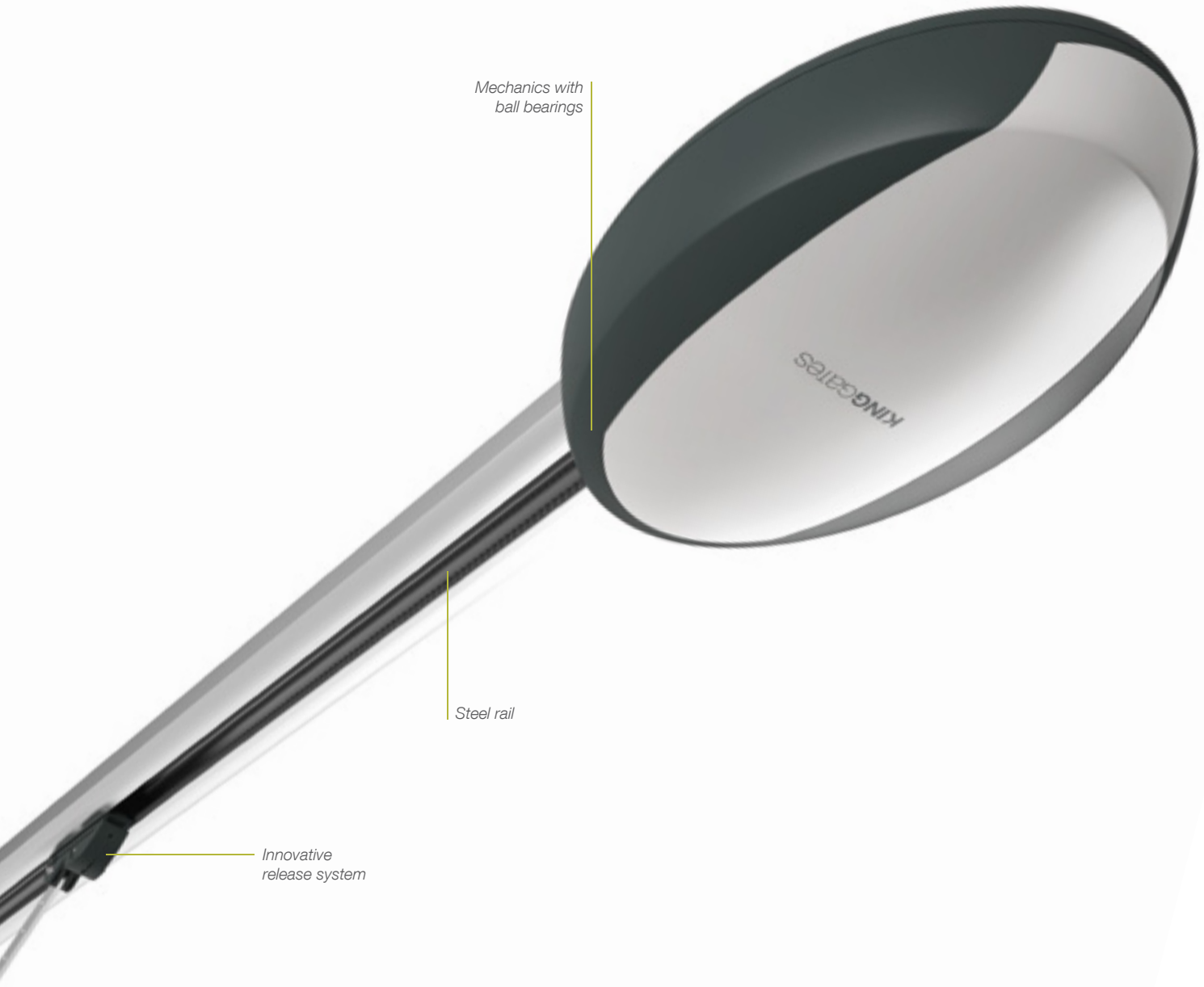
3. ASSEMBLY
Easy joint between gear motor and rail, safe and accurate thanks to metric screws.

DESIGN AND TECHNOLOGY

The rotating opening of the central cover makes easy the access to the control board. The electronic unit has a plastic cover with simple buttons, it allows an easy and intuitive use. The location of the buffer batteries is in the backside of the base, it's strong and invisible. The belt drive is reliable and silent while the 18-tooth pinion can avoid any possibility of "slipping". Preassembled guides 3 or 4 meters optimize installation time, while the encoder control minimizes programming. The encoder control system minimize the phase of set-up.
The buffer batteries allow the functioning even during a black-out.

INNOVATIVE MANUAL RELEASE SYSTEM

The innovative release system is designed to be operated by both the cord connected to the carriage drive, and the handle on the door. The manual operation via the cord needs no installation on the handle, makes it possible to maintain the automation released allowing the opening and closing of the door without the automatically latching the carriage.
With this system, during a black-out, when he gets out of home, the user can choose to close the door and then open it without any release operation or to close the door and holding it re-hooked till the next release operation from inside.



ROLLS - TECHNICAL DATA			
Code		ROLLS 700	ROLLS 1200
Mains power supply	(Vac 50 Hz)	230	
Motor supply	(Vdc)	24	
Motor power	(W)	40	80
Absorption	(A)	0.8	1.2
Speed	(cm/s)	9 ÷ 16	
Working cycle	(%)	60	
Operator dimensions	(mm)	414x264x110	
Max dimensions sectional door	(m^2)	10	17
Max dimensions overhead door	(m^2)	10	14
Operating temperature	(°C)	-20 ÷ +55	

Rolls

GEAR MOTORS - AVAILABLE VERSIONS						
Code	Motor	Control unit	Radio receiver	Batteries	Encoder	Newton max.
Rolls 700	24 Vdc	Star GDO 100	•		•	700
Rolls 700 Plus	24 Vdc	Star GDO 100	•	•	•	700
Rolls 1200	24 Vdc	Star GDO 100	•		•	1200

RAILS - AVAILABLE VERSIONS				
Code	Kind of transmission	Slide lenght	Door max height	Kind of rails
Grb 3	Belt	3 m	2.45 m	1 x 3 m
Grb 23		3 m	2.45 m	2 x 1.5 m
Grb 4		4 m	3.45 m	3 m + 1 m

RAIL GRB
The GRB rails are made with 6 iron cables belt, with a maximum power equal to 1200 N and a nylon textile covering for an extra silent working.

Rolls Kit

KIT - AVAILABLE VERSIONS								
Code	Rolls 700	Rolls 1200	Rails GRB 3	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Novo TX4	Newton max
Rolls Kit 700	•			• (1)				700
Rolls Kit 700GRB3	•		•	• (1)				700
Rolls Kit 700 NV	•			• (2)	•	•	•	700
Rolls Kit 1200 NV		•		• (2)	•	•	•	1200

ROLLS

GRB 3

STYLO 4K

NOVO LT 24 PLUS

NOVO PH 180

NOVO TX4

ACCESSORIES

ARC 01
Swinging arm for sectional and overhead doors

SRO 01
Additional fastening brackets kit

SRO 02
Extension bracket for the pulling arc

SPI 01
Plug cable.
Length 70 cm

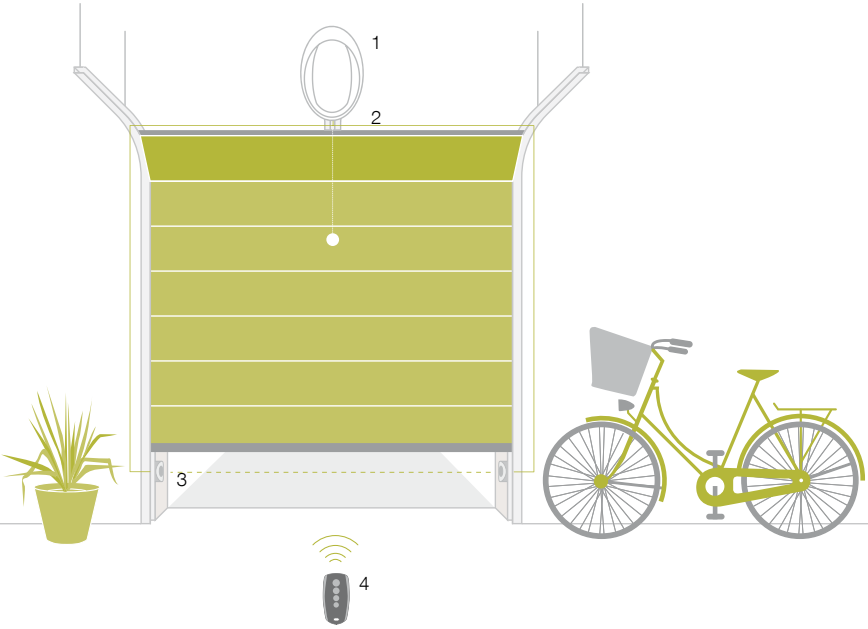
SBLO 01
External unlocking system.
Applied on handle lock

SBLO 500
External unlocking system.
Applied with an hole in the door

BAT 12K
Batteries kit 24 V (2 x 12 V - 1.2 Ah) with connectors and battery charge card

STAR GDO 100
Spare control unit

INSTALLATION DIAGRAM

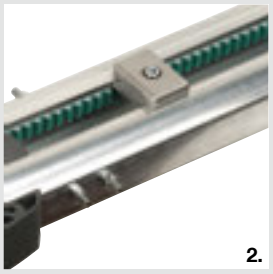


Basic installation
1. Operator Rolls
2. Rail
3. Pair of photocells
4. Transmitter

Book

Automation for sectional doors up to 12 m^2

1.



2.

3.

1. ELECTRONICS
Programming with selflearning function, adjustable functions through dip-switches and regulation of power and speed.

2. STEEL RAIL
Strong guide in profiled metal and belt drive transmission with 6 core steel cables.

3. COURTESY LIGHT
Original side light, also available in led version.

DESIGN

Book is an innovative operator that completes the KINGgates automation range of sectional doors. Available in the 600 N and 1000 N versions belt drive transmission with 6 core steel cables. The 600 Led and 1000 Led versions with courtesy light by integrated Leds for improved lighting in the garage, the lateral position of the light gives BOOK a innovative and original design. **The possibility to rotate (0° + 90°) the motor head allows to reduce space so it to be installed in tight garages.**
Book is an example of creativity Made in Italy and Made in KINGgates.

ENCODER AND BELT TRANSMISSION

The belt drive is reliable and silent while the 18-tooth pinion can avoid any possibility of "slipping". Preassembled guides 3 or 4 meters optimize installation time, while the encoder control minimizes programming and allows a fast response to obstacles detection as required by regulating normative.

The innovative release system is designed to be operated by both the cord connected to the carriage drive, and the handle on the door.

The manual operation via the cord needs no installation on the handle, makes it possible to maintain the automation released allowing the opening and closing of the door without the automatically latching the carriage.

BOOK - TECHNICAL DATA			
Code		BOOK 600	BOOK 1000
Mains power supply	(Vac 50 Hz)	230	
Motor supply	(Vdc)	24	
Motor power	(W)	30	60
Absorption	(A)	0.7	1.1
Speed	(cm/s)	9 ÷ 16	
Working cycle	(%)	40	60
Operator dimensions	(mm)	380x246x96	
Max dimensions sectional door	(m^2)	8	12
Operating temperature	(°C)	-20 ÷ +55	

Book

GEAR MOTORS - AVAILABLE VERSIONS						
Code	Motor	Control unit	Radio receiver	Leds light	Encoder	Newton max.
Book 600	24 Vdc	Star GD 20	•		•	600
Book 600 Led	24 Vdc	Star GD 20 Led	•	•	•	600
Book 1000	24 Vdc	Star GD 20	•		•	1000
Book 1000 Led	24 Vdc	Star GD 20 Led	•	•	•	1000

RAILS - AVAILABLE VERSIONS				
Code	Kind of transmission	Slide lenght	Door max height	Kind of rails
Grb 3	Belt	3 m	2.45 m	1 x 3 m
Grb 23		3 m	2.45 m	2 x 1.5 m
Grb 4		4 m	3.45 m	3 m + 1 m

RAIL GRB
The GRB rails are made with 6 iron cables belt, with a maximum power equal to 1200 N and a nylon textile covering for an extra silent working.

Book Kit

KIT - AVAILABLE VERSIONS							
Code	Book 600	Rail GRB 3	Stylo 4	Novo LT 24 Plus	Novo Ph 180	Novo TX4	Newton max
Book Kit 600	•		• (1)				600
Book Kit 600-R3	•	•	• (1)				600
Book Kit 600 NV	•		• (2)	•	•	•	600

BOOK

GRB3

STYLO 4K

NOVO LT 24 PLUS

NOVO PH 180

NOVO TX4

ACCESSORIES

SBLO 01
External unlocking system.
Applied on handle lock

SBLO 500
External unlocking system.
Applied with an hole
in the door

SRO 01
Additional fastening
brackets kit

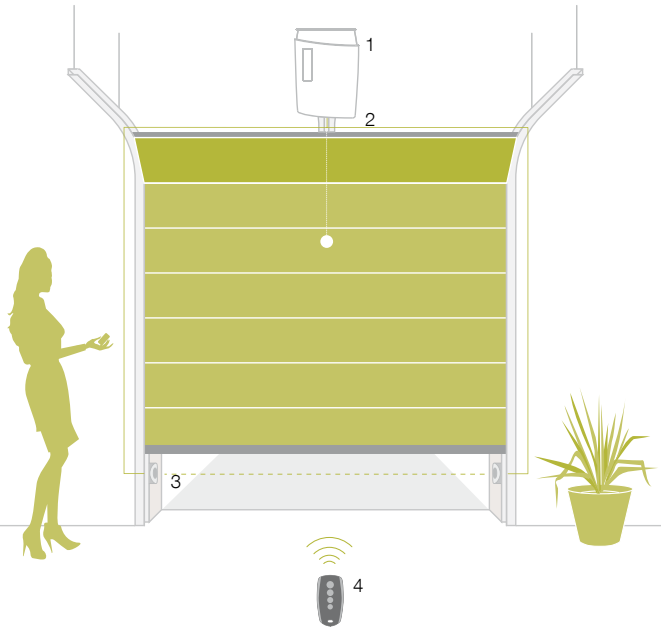
SRO 02
Extension bracket
for the pulling arc

SPI 01
Plug cable
length 70 cm

STAR GD
Spare control unit for Book
600 or Book 1000

STAR GD 20 LED
Spare control unit for Book
600 LED or Book 1000 LED

INSTALLATION DIAGRAM



Basic installation
1. Operator Book
2. Rail
3. Pair of photocells
4. Transmitter

Ovo

Automation for sectional doors up to 9 m²

1.

2.

3.

4.

1. ELECTRONICS
Programming through buttons and integrated courtesy light.

2. DESIGN
Minimum encumbrance thanks to the reduced dimensions of the motor group.

3. EASY ACCESS
Comfortable access button to the electronic zone.

4. TROLLEY
Strong and resistant, designed to allow an intuitive and sure unblocking manoeuvre.

FOR SECTIONAL DOORS UP TO 9 m²

Ovo is the new automation for garage doors by KINGgates. Available in 2 kits with pre-assembled 3 metres guide in a single piece or in 3 pieces of 1 metre each. Thanks to the 550 N torque of the motor, this device is the ideal solution to open and close sectional doors up to 9 m².

Fast installation: just a few minutes to assemble this automation: the guide is already completely assembled in a-single-piece version while profiles are connected thanks to 2 strong groove joints in the 3-pieces version.

The assembling of the motor group with the guide quickly occurs through 4 screws and in case of problems of encumbrance to the ceiling, the motor is designed to be angled of 90° with respect to the axle of the guide.

SMOOTH MOVEMENT

The profiled steel strong guide it guarantees a smooth movement of the door during the opening and closing phases, while the use of the belt with steel core allows to get a low level of noisiness.
The sturdiness of the guide in the 3-pieces version is guaranteed by 2 joints of printed steel.

RELIABLE ELECTRONICS

The electronic control unit Star OV is simple and complete. The learning of the travel limits is automatic and the speed can be regulated up to 14 cm/sec.

The safety of the movement is guaranteed by the encoder control technology that foresees the inversion of the motion in case of impact according to the parameters described in the regulations.

OVO - TECHNICAL DATA		
Mains power supply	(Vac)	230
Motor power	(W)	200
Torque	(N)	550
Speed	(m/second)	0.08 ÷ 0.14
Travel	(mm)	2500
Protection level	(IP)	40
Weight	(kg)	3
Max width of the garage door	(m)	3,7
Max height of the garage door	(m)	2.4
Work cycle	(%)	30
Max torque	(N)	550
Operating temperature	(°C)	-20 ÷ +50

Ovo

GEAR MOTORS - TECHNICAL SPECIFICATION						
Code	Motor	Control unit	Radio receiver	Leds light	Encoder	Newton max.
Ovo Kit	24 Vdc	Star OV	•	•	•	550

RAILS - AVAILABLE VERSIONS				
Code	Kind of transmission	Slide lenght	Door max height	Kind of rails
Ovo Kit 550 R13	Belt	3 m	2.4 m	1 x 3 m
Ovo Kit 550 R33		3 m	2.4 m	3 x 1 m

Ovo Kit

KIT - AVAILABLE VERSIONS					
Code	Ovo 550	Rail Gro13 (1x3 m)	Rail Gro33 (3x1 m)	Stylo 4	Newton max
Ovo Kit 550 R13	•	•		• (1)	550
Ovo Kit 550 R33	•		•	• (1)	550

OVO

GRO13 / GRO33

STYLO 4K

ACCESSORIES

ST GRO
Screw-on bracket
for ceiling fastening

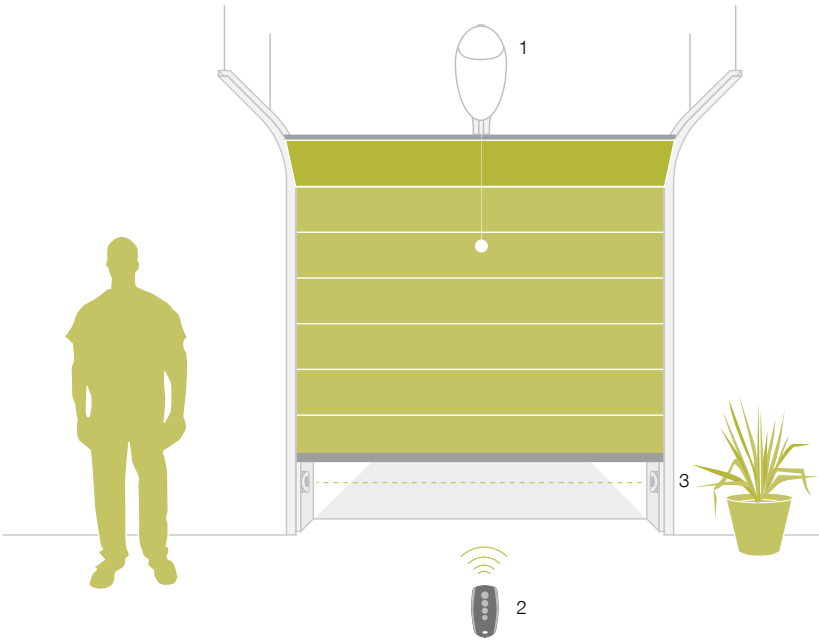
SRO 01
Additional fastening
brackets kit

SRO 02
Extension bracket
for pulling arc

SBLO 02
Unlocking system
with metal cord

STAR OV
Spare control unit for Ovo

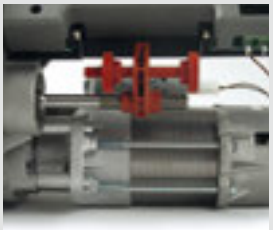
INSTALLATION DIAGRAM



Sectional operator
basic installation
1. Operator Ovo
2. Transmitter
3. Couple of photocells

Ring

Automation for balanced rolling shutters



1.

2.

1. LIMIT SWITCHES
Built-in electrical limit switches

2. FAST INSTALLATION
Direct installation on shaft

FAST INSTALLATION

Ring is the reduction gear for roll-up shutters that's reliable and easy to install.
Designed to be installed directly on the axle, on pre-existing or newly-placed shutters.
The irreversible movement is ensured by means of an electro-brake.
If there is a power outage, the handle release allows perfect reversibility and easy manual operation.

NEW ELECTRONIC CONTROL UNIT

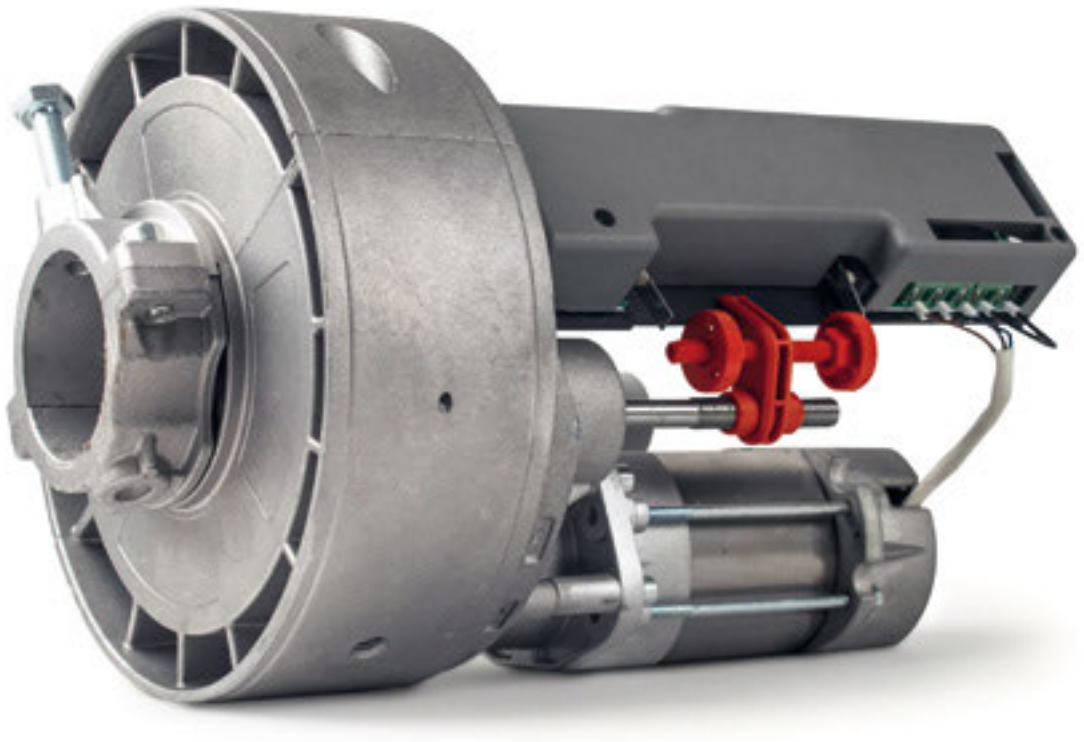
The Star B Plus control unit makes it easy to regulate rolling door operating time.
Safety photocells and a flashing light can be connected and the radio memory can contain up to 250 radio commands.
The compact shape of the plastic box makes installation easy and attractive.

GEAR MOTORS - AVAILABLE VERSIONS

Code	Motor	Ø Shaft	Crown	Reduction	Electro-brake	Max lift
Ring 150	230 V	60 mm	200 mm	60/48		150 Kg
Ring 150 Plus	230 V	60 mm	200 mm	60/48	•	150 Kg

RING 150 - TECHNICAL DATA

Mains power supply	(Vac)	230
Motor supply	(Vdc)	230
Power	(W)	160
Absorption	(A)	2.5
Working temperature	(°C)	-20 ÷ +55
Speed	(m/min)	6
Work cycle	(%)	40
Dimensions	(mm)	250x250x215



ACCESSORIES

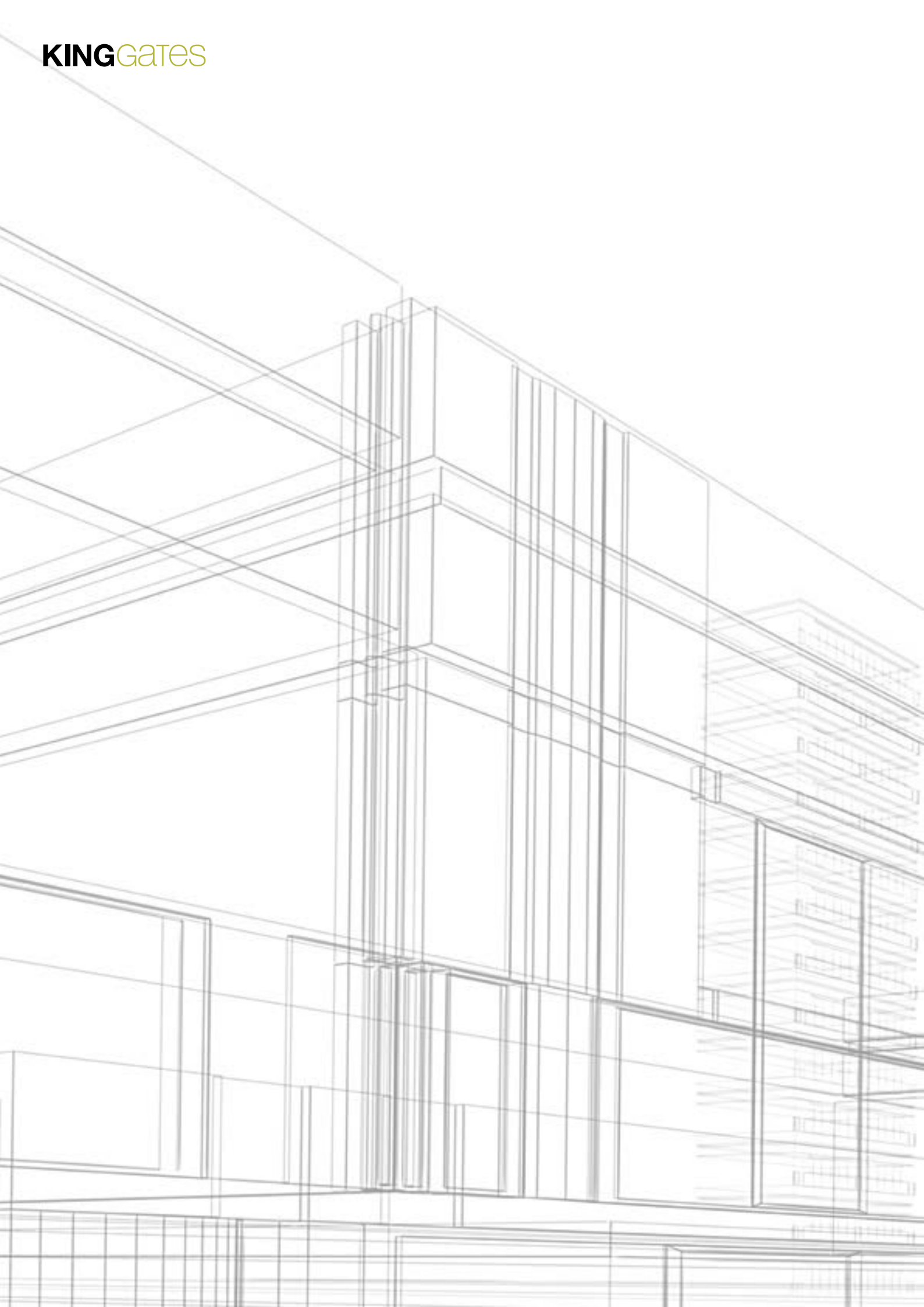
STAR B PLUS
Control unit for one 230 Vac motor with built-in receiver

EF 100
Electro-brake kit complete with cable and release knob

BLINDO 33
Aluminium box with release lever for electro-brake. Key access

RI 6042
Shaft adapter Ø 60/42

KINGGATES



Control units

70 Star
71 Star B Plus

Radio systems

80 Stylo
82 Myo
83 Clipper
84 Novo digy
86 Radio receivers

87 Safety devices

88 Control devices

Photocells

50 Viky
54 Novo ph

Flashing lights

92 Idea
93 Novo light

STAR CONTROL UNITS, A COMPLETE RANGE TO MAXIMISE THE PERFORMANCE OF KINGGATES MOTORS

KINGgates produces a full range of electronics to control 230 Vac and 24 Vdc motors.
Designed to guarantee the maximum performance of KINGgates gear motors, the control units are universal thanks to their full functionality and the size of the components.

Standardised electronics
The electronics of KINGgates automations have been standardised, with similar functions, connections and adjustments. This makes wiring and programming the automation simple and positive for installers, while subsequent maintenance is easy and quick.

Star control units radically simplify the installer's job, ensuring high performance in terms of safety, durability and speed. One single piece of hardware accelerates start-up of the automations and makes maintenance easy and practical. The plastic box, spare fuses and removable memory card are just some examples of the functions and design of this reliable innovative product.

The **PWM (Pulse Width Modulation)** software technology in the 24 V control units and the **Cycle Set Up** system in the 230 V control units ensure maximum safety in case of obstacles and allow to adjust the gate speed in opening and closing.

Control board
Star 24 KG
Dip-Switch
ON/OFF
LED
SET
RADIO
START
Delay
Pause
Obstacle
Power

Star

Two control units for all automations

24 Vdc

Software 1
Star D124 KG

Dynamos 24

Software 2
Star 224 KG

Jet 24

Software 3
Star MM224 KG

Minimodus

Software 4
Star M224 KG

Modus

Couper 24

Intro 400

230 Vac

Software 1
Star D1230 KG

Dynamos 230

Software 2
Star 2230 KG

Jet 230

Software 2
Star 2230 KG

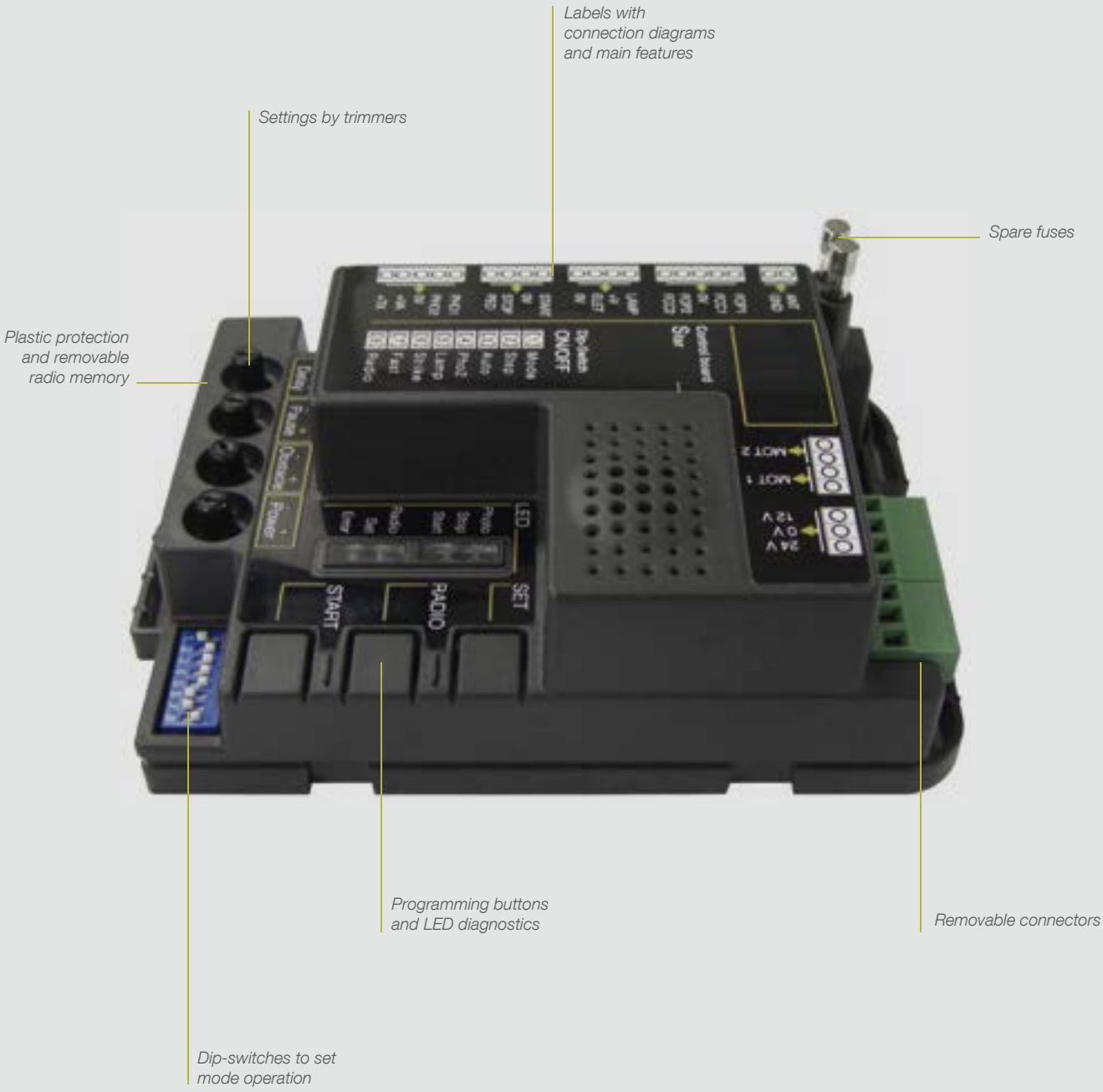
Linear

Intro 400

Practical and simple programming using trimmers, travel limits set automatically with just one button, LED diagnostics and dip-switches to set mode operation.

Plastic protection with labelling of connections and spare fuses.

Deceleration control, speed regulation and obstacle detection control in all versions.



Control units

Star
Electronics for one or two 24 Vdc and 230 Vac motors

24 Vdc AND 230 Vac CONTROL UNITS	
Code	**Description**
Star 224 Box	Control unit for two 24 V motors in plastic box, 150 VA transformer, 433.92 MHz receiver, including MEMO 200 removable radio memory card
Star 224 KG	Spare control unit for Star 224 box with MEMO 200 and plastic protection
Star 2230 Box	Control unit for one or two 230 V motors in plastic box, 40 VA transformer, 433.92 MHz receiver, including MEMO 200 removable radio memory card
Star 2230 KG	Spare control unit for Star 2230 box with MEMO 200 and plastic protection

ELBOX 33
ABS box

BAT M016
Battery 24 V, 1.6 Ah

BAT K2
Battery charge card for Bat M016

TR 20/24
Transformer for Star 224 KG 230 / 12 - 24, 150VA

TR 40L
Transformer for Star 2230 KG 230 / 12 - 18, 40VA

SELC 100
Electric lock control module

MEMO 200
Radio memory module for 180 users

Star B Plus

Electronics for one 230 Vac motor

Code	Description
Star B Plus	Control unit for one 230 Vac motor with built-in receiver, photocell input and pause time regulation

STAR - TECHNICAL DATA					
	STAR D124 KG	**STAR D1230 KG**	**STAR 224 KG STAR M224 KG STAR MM224 KG**	**STAR 2230 KG**	**STAR B PLUS**
Control unit power supply	0 – 12 – 24 Vac, 150VA (transformer code TR 20/24)	230/ 0 – 12 – 18 Vac, 20VA (transformer code TR 40)	0 – 12 – 24 Vac, 150VA (transformer code TR 20/24)	230/ 0 – 12 – 18 Vac, 40VA (transformer code TR 40L)	230 Vac
Motor/s output	24 Vdc (maximum 120 W)	230 Vac (maximum 500 W)	2X24 Vdc (maximum 60 W per motor)	2X230 Vac (maximum 400 W per motor)	230 Vac (maximum 600 W)
Power supply for accessories	12 Vdc (maximum 250 mA)	24 Vdc (maximum 250 mA)	12 Vdc (maximum 250 mA)	24 Vdc (maximum 250 mA)	24 Vdc (maximum 50 mA)
Power supply for flashing lamp	24 Vdc (max 10 W), flashing can be controlled from the board	230 Vac (max 15 W), flashing can be controlled from the board	24 Vdc (max 10 W), flashing can be controlled from the board	230 Vac (max 15 W), flashing can be controlled from the board	230 Vac (max 40 W)
Radio receiver	Built-in, 433.92 MHz, 180 codes				
Working temperature	-20 ÷ +50 (°C)				

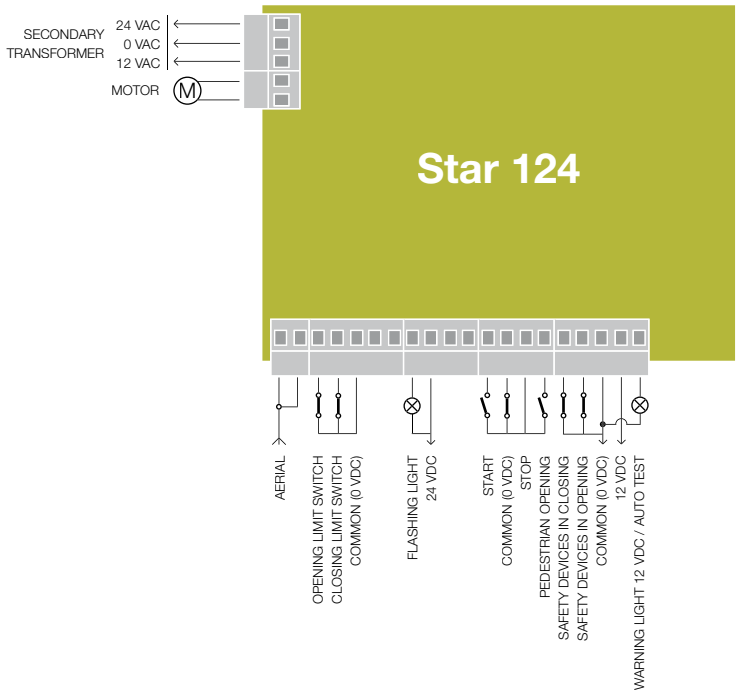
Technical features

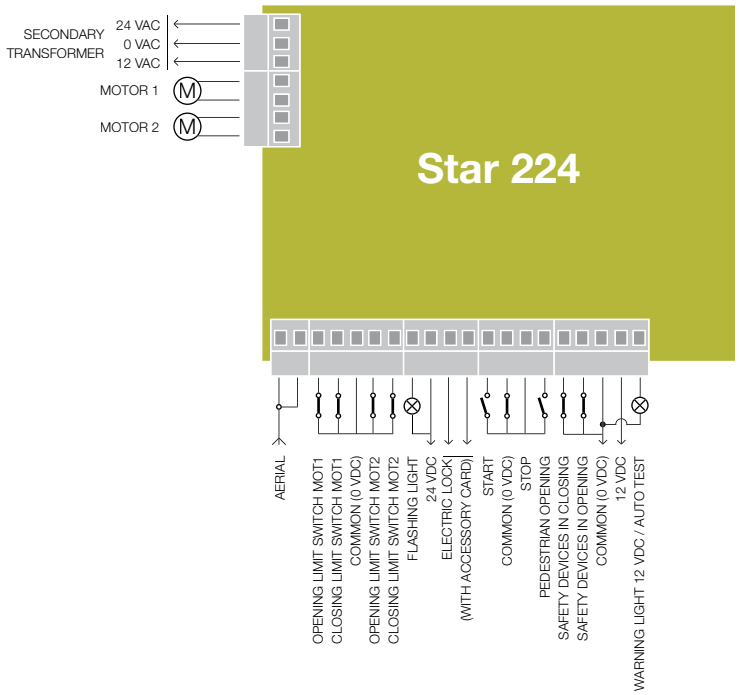
Star
24 Vdc electronic units

COMBINATION 24 V CONTROL UNITS		
Control unit	Gate	Automation
Star D124	Sliding gates	Dynamos 24/400 - Dynamos 24/600 - Dynamos 24/1000
Star 224 BOX	Swing gates	Jet 24 - Couper24 - Intro 24/400
Star M 224	Swing gates	Modus
Star MM224	Swing gates	MiniModus

ADJUSTMENTS		
Code	Star D124	Star 224
Force / Speed	•	•
Stand-by time	•	•
Obstacle sensitivity	•	•
Gate delay		•
Preflashing	•	

CHARACTERISTICS		
Code	Star D124	Star 224
OPEN/PAUSE/CLOSE Mode	•	•
STEP by STEP mode	•	•
Automatic closing	•	•
Pedestrian opening	•	•
Rapid re-closing	•	•
Deceleration in opening	•	•
Deceleration in closing	•	•
Safety test	•	•
Open gate control light	•	•
Lock stroke		•
Flashing light	•	•
Built-in radio receiver	•	•
Gradual “soft start”	•	•
Safety in closing	•	•
Safety in opening	•	•
Built-in aerial	•	•
Extractable terminal block	•	•
Radio memory module	•	•


SECONDARY TRANSFORMER
24 VAC
0 VAC
12 VAC
MOTOR
Star 124
AERIAL
OPENING LIMIT SWITCH
CLOSING LIMIT SWITCH
COMMON (0 VDC)
FLASHING LIGHT
24 VDC
START
COMMON (0 VDC)
STOP
PEDESTRIAN OPENING
SAFETY DEVICES IN CLOSING
SAFETY DEVICES IN OPENING
COMMON (0 VDC)
12 VDC
WARNING LIGHT 12 VDC / AUTO TEST


SECONDARY TRANSFORMER
24 VAC
0 VAC
12 VAC
MOTOR 1
MOTOR 2
Star 224
AERIAL
OPENING LIMIT SWITCH MOT1
CLOSING LIMIT SWITCH MOT1
COMMON (0 VDC)
OPENING LIMIT SWITCH MOT2
CLOSING LIMIT SWITCH MOT2
FLASHING LIGHT
24 VDC
ELECTRIC LOCK
(WITH ACCESSORY CARD)
START
COMMON (0 VDC)
STOP
PEDESTRIAN OPENING
SAFETY DEVICES IN CLOSING
SAFETY DEVICES IN OPENING
COMMON (0 VDC)
12 VDC
WARNING LIGHT 12 VDC / AUTO TEST

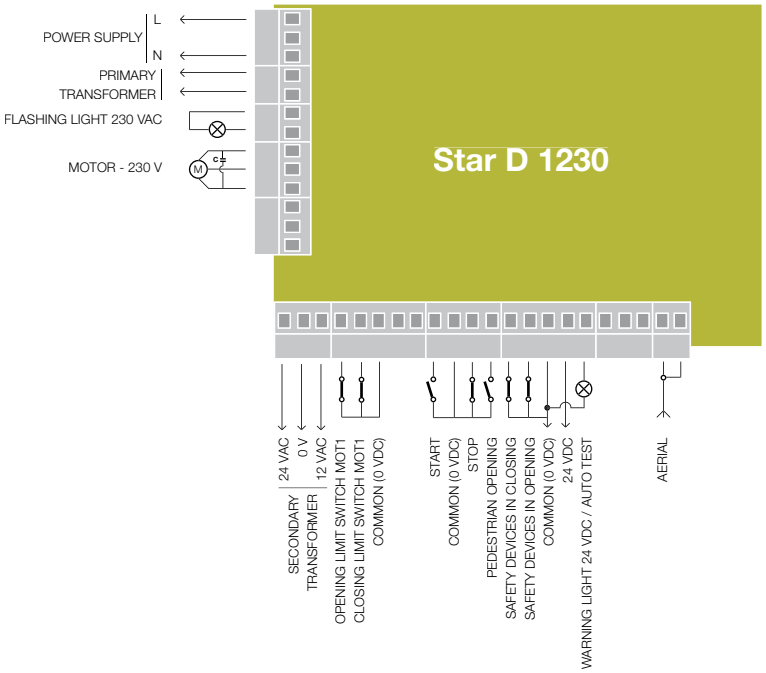
Technical features

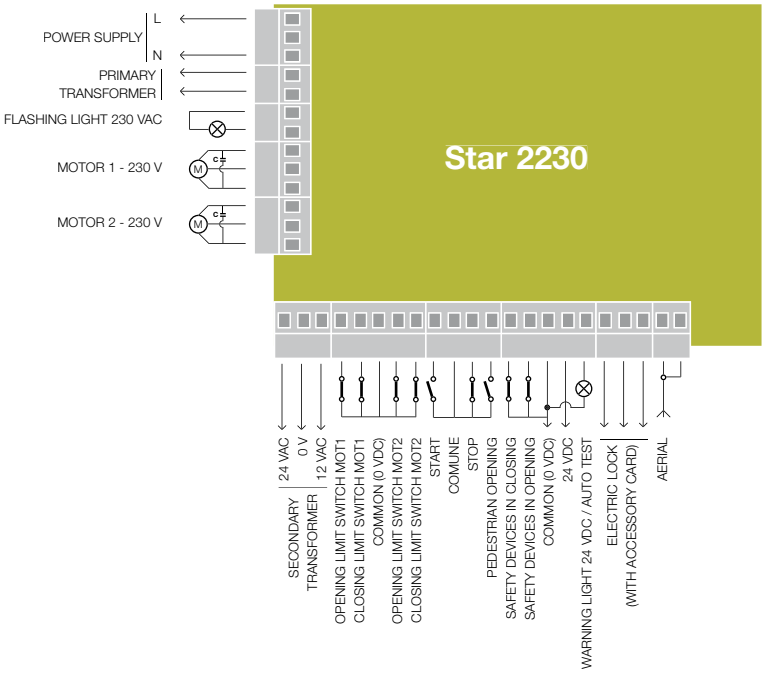
Star
230 Vac electronic units

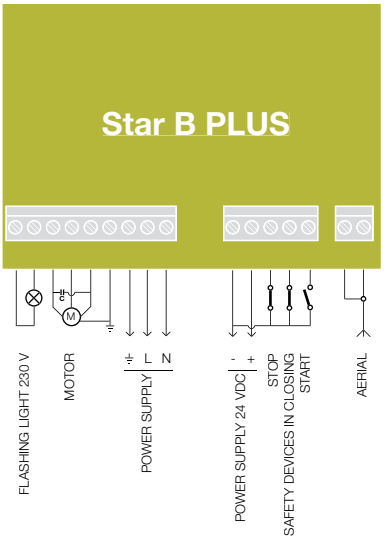
COMBINATION 230 V CONTROL UNITS		
Control unit	Gate	Automation
Star D1230	Sliding gates	Dynamos 500 - Dynamos 1000
Star 2230	Swing gates	Jet 230 - Linear 400 - Intro 230/400
Star B Plus	Rolling shutters	Ring 150

ADJUSTMENTS			
Code	Star D1230	Star 2230	Star B Plus
Power	•	•	
Stand-by time	•	•	•
Obstacle sensitivity	•	•	
Gate delay		•	
Preflashing	•		

CHARACTERISTICS			
Code	Star D1230	Star 2230	Star B Plus
CONDOMINIUM mode	•	•	•
STEP by STEP mode	•	•	•
Automatic closing	•	•	•
Pedestrian opening	•	•	
Rapid re-closing	•	•	
Deceleration in opening	•	•	
Deceleration in closing	•	•	
Safety test	•	•	
Open gate control light	•	•	
Lock stroke		•	
Flashing light	•	•	
Built-in radio receiver	•	•	•
Safety in closing	•	•	•
Safety in opening	•	•	
Built-in aerial	•	•	•
Extractable terminal block	•	•	
Radio memory module	•	•	


POWER SUPPLY
L
N
PRIMARY TRANSFORMER
FLASHING LIGHT 230 VAC
MOTOR - 230 V
Star D 1230
24 VAC
0 V
12 VAC
SECONDARY TRANSFORMER
OPENING LIMIT SWITCH MOT1
CLOSING LIMIT SWITCH MOT1
COMMON (0 VDC)
START
COMMON (0 VDC)
STOP
PEDESTRIAN OPENING
SAFETY DEVICES IN CLOSING
SAFETY DEVICES IN OPENING
COMMON (0 VDC)
24 VDC
WARNING LIGHT 24 VDC / AUTO TEST
AERIAL


POWER SUPPLY
L
N
PRIMARY TRANSFORMER
FLASHING LIGHT 230 VAC
MOTOR 1 - 230 V
MOTOR 2 - 230 V
Star 2230
24 VAC
0 V
12 VAC
SECONDARY TRANSFORMER
OPENING LIMIT SWITCH MOT1
CLOSING LIMIT SWITCH MOT1
COMMON (0 VDC)
OPENING LIMIT SWITCH MOT2
CLOSING LIMIT SWITCH MOT2
START
COMUNE
STOP
PEDESTRIAN OPENING
SAFETY DEVICES IN CLOSING
SAFETY DEVICES IN OPENING
COMMON (0 VDC)
24 VDC
WARNING LIGHT 24 VDC / AUTO TEST
ELECTRIC LOCK
(WITH ACCESSORY CARD)
AERIAL


Star B PLUS
FLASHING LIGHT 230 V
MOTOR
POWER SUPPLY
L
N
POWER SUPPLY 24 VDC
-
+
STOP
SAFETY DEVICES IN CLOSING
START
AERIAL

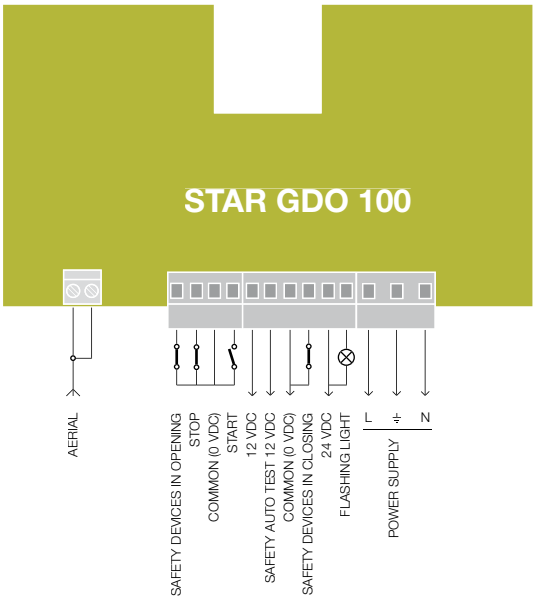
Technical features

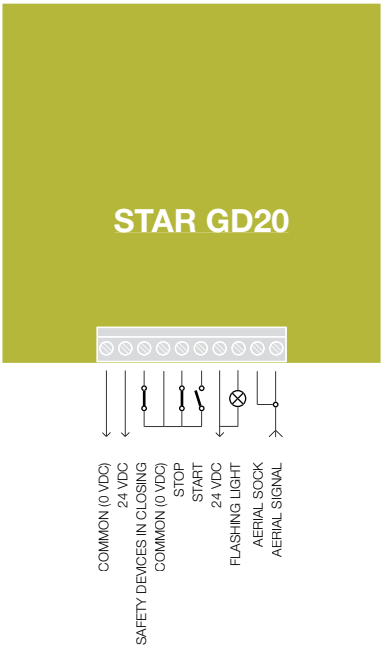
Star
Control units for garage doors

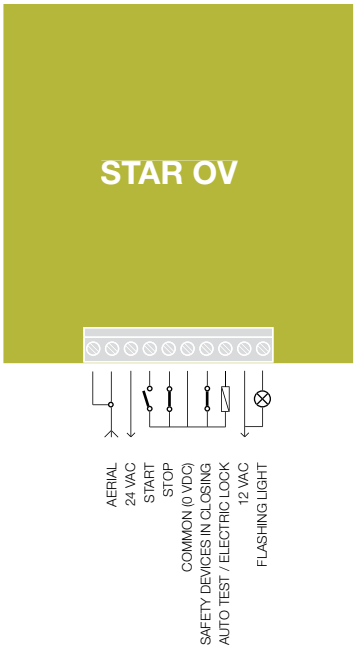
CONTROL UNIT – GARAGE COMBINATIONS		
Control unit	Door	Automation
Star GDO 100	Sectional or overhead door	Rolls 700 - Rolls 1200
Star GD 20	Sectional door	Book 600 - Book 1000
Star OVO	Sectional door	Ovo 550

ADJUSTMENTS			
Code	Star GDO 100	Star GD 20	Star OVO
Force / Speed	•	•	•
Obstacle sensitivity	•	•	•
Stand-by time	•	•	•

CHARACTERISTICS			
Code	Star GDO 100	Star GD 20	Star OVO
CONDOMINIUM mode	•	•	•
STEP by STEP mode	•	•	•
Automatic closing	•	•	•
Encoder handling	•	•	•
Deceleration in opening	•	•	•
Deceleration in closing	•	•	•
Safety test	•	•	•
Flashing light	•	•	•
Built-in radio receiver	•	•	•
Safety in closing	•	•	•
Safety in opening	•		
Optional battery charge card	•		
Built-in aerial	•	•	•
Extractable terminal block	•		


STAR GDO 100
AERIAL
SAFETY DEVICES IN OPENING
STOP
COMMON (0 VDC)
START
12 VDC
SAFETY AUTO TEST 12 VDC
COMMON (0 VDC)
SAFETY DEVICES IN CLOSING
24 VDC
FLASHING LIGHT
L
⏚
N
POWER SUPPLY


STAR GD20
COMMON (0 VDC)
24 VDC
SAFETY DEVICES IN CLOSING
COMMON (0 VDC)
STOP
START
24 VDC
FLASHING LIGHT
AERIAL SOCK
AERIAL SIGNAL


STAR OV
AERIAL
24 VAC
START
STOP
COMMON (0 VDC)
SAFETY DEVICES IN CLOSING
AUTO TEST / ELECTRIC LOCK
12 VAC
FLASHING LIGHT

KINGgates RADIO SYSTEMS CONTROL

The wide range of KINGgates systems includes receivers and remote controls with rolling code, fixed code and copy function to facilitate use in both residential and institutional applications.

The innovative design of the radio remote controls and vast applicability of the receivers optimise installation, guaranteeing the end user maximum functionality.

KINGGATES

Radio

Stylo 4 K
Radiotransmitter
Rolling code
433.92 MHz

Inspired by the automobile sector,
Stylo 4 K is a tough radio remote control with a high-impact appearance, thanks to its chromed metal structure.

Available in four-channel 433.92 MHz rolling code version, customisable in white with the WE4 accessory cover.

AVAILABLE VERSIONS	
Code	**Description**
Stylo 4 K	Four-channel rolling code radio transmitter, black
BAT3V2	Spare 3 V batteries, pack of 5

TECHNICAL DATA						
Code	**Frequency**	**Range**	**Encoding**	**Power supply**	**Power input**	**Dimensions**
Stylo 4 K	433.92 MHz	100 m	Rolling code	3 Vdc	10 mA	70x38x10

INTERCHANGEABLE COVER	
Code	**Colour**
Cover WE 4	White

Stylo 2 K
Radiotransmitter
Rolling code
433.92 MHz

Stylo 2 K is a two-channel 433.92 MHz rolling code radio remote control. The sophisticated all-black design with alternating glossy and matt surfaces make it an elegant innovative object.

AVAILABLE VERSIONS	
Code	**Description**
Stylo 2 K	Two-channel rolling code radio transmitter, black
BAT3V2	Spare 3 V batteries, pack of 5

TECHNICAL DATA						
Code	**Frequency**	**Range**	**Encoding**	**Power supply**	**Power input**	**Dimensions**
Stylo 2 K	433.92 MHz	100 m	Rolling code	3 Vdc	10 mA	70x38x10

Myo
Radiotransmitter with copy function 433.92 MHz

Myo C4 is a four-channel 433.92 MHz radio remote control with copy function. This technology allows the majority of fixed code transmitters present on the market to be replaced with a quick easy procedure.

By using the Fred Myo2 outdoor receiver, you can programme the Myo and Stylo transmitters directly and use the copy function between them.

AVAILABLE VERSIONS	
Code	**Description**
Myo C4 BL	Four-channel radio transmitter with copy function, black
Myo C4 WE	Four-channel radio transmitter with copy function, white
BAT3V2	Spare 3 V batteries, pack of 5

TECHNICAL DATA						
Code	**Frequency**	**Range**	**Encoding**	**Power supply**	**Power input**	**Dimensions**
Myo	433.92 MHz	100 m	Fixed code / self learning	3 Vdc	10 mA	73x38x12

Metallic chromed frame

Clipper
Radiotransmitter
Rolling code
433.92 MHz

The first KINGgates transmitter, available with 2 or 4 channels, 433.92 MHz frequency and Rolling code.

The oval shape and the double-curved border make the Clipper radio transmitter an ergonomic and full of design object.

AVAILABLE VERSIONS	
Code	**Description**
Clipper 2	Two-channel radio transmitter, compatible with Fred Myo 2
Clipper 4	Four-channel radio transmitter, compatible with Fred Myo 2
BAT3V	Spare 3 V batteries, pack of 5

TECHNICAL DATA						
Code	**Frequency**	**Range**	**Encoding**	**Power supply**	**Power input**	**Dimensions**
Clipper	433.92 MHz	100 m	Rolling code	6 Vdc	10 mA	69x35x11

Novo Tx

Wall or table radiotransmitter
Rolling code
433.92 MHz

NOVO tx is the KINGgates 4 channel wireless transmitter. Designed to be wall mounted or used as a table top thanks to the anti-slip rubber included in the package.

NOVO tx is programmed as a normal transmitter and battery replacement is fast and easy.

Metal protection dust painted

AVAILABLE VERSIONS	
Code	**Description**
Novo TX4	Wall radiotransmitter 4 channels 433.92 MHz
BAT-AAA	Spare batteries 2 pcs

TECHNICAL DATA							
Code	**Frequency**	**Range**	**Coding**	**Power supply**	**Battery**	**Dimensions**	**Protection level**
Novo TX4	433.92 MHz	100 m	Rolling code	2x1.5 V	2 x AAA	109x65x35 mm	IP 40

Novo digy
Numeric combination keypad
Rolling code
433.92 MHz

NOVO digy is the KINGgates numeric combination keypad via radio that can control up to 3 automation with a security code and also has a direct channel without numeric code combination.

NOVO digy is programmed as a simple remote control and provides maximum security through the MASTER code changed or deleted only by the installer.
NOVO digy is the perfect combination of aesthetic design and installation flexibility. Designed to be installed vertically with screen printing of the numbers on the front, you can instal NOVO digy horizontally by applying a rigid label (included in the package rotating the numbers of 90°).

Like every product of the NOVO line you can install the device on recess box 503.

Metal protection dust painted

AVAILABLE VERSIONS	
Code	**Description**
Novo digy	Numeric radio keypad 4 channels 433.92 MHz
BAT-AAA	Spare batteries 2 pcs

TECHNICAL DATA							
Code	**Frequency**	**Range**	**Coding**	**Power supply**	**Battery**	**Dimensions**	**Protection level**
Novo digy	433.92 MHz	100 m	Rolling code	2x1.5 V	2 x AAA	109x65x35 mm	IP 54

Radio receivers
433.92 MHz

KINGgates produces a wide range of radio receivers: fixed code, rolling code and with customisable output contacts.

Fred Myo 2

Fred 3

Novo RX2

AVAILABLE VERSIONS	
Code	**Description**
Fred Myo 2	External radio receiver with plastic box, IP 54. 2 channels - 480 codes
Fred 3	Miniaturized control unit for controlling loads 230Vac max 1000 W with built-in receiver and switch
Novo RX2	Receiver with metal protection IP54. Mono-stable, bi-stable and Timed option functioning. Included removable memory. 2 channels - 200 codes
RXK1	Plug-in receiver for Open barriers

ACCESSORIES	
Code	**Description**
Ant 433E	Aerial 433,92 MHz with cable

Safety devices

Bar, Topbar, Passbar

Slim

Movi control

Tab

SAFETY EDGES				
Code	**Passive shock system**	**Micro switches**	**Required Controlbar**	**Lenght**
Passbar 1400	•			1400
Passbar 1800	•			1800
Passbar 2000	•			2000
Passbar 2500	•			2500
Bar 1400		•		1400
Bar 1800		•		1800
Bar 2000		•		2000
Bar 2500		•		2500
Topbar 1800		•	•	1800
Topbar 2500		•	•	2500
Slim 1500		•		1500
Slim 1700		•		1700
Slim 2000		•		2000
Slim 2500		•		2500

ACCESSORIES FOR SAFETY EDGES	
Code	**Description**
Controlbar	Control card for Topbar
Movi Control RX	Radio device for the activation of electric safety edges. Receiver
Movi Control TX	Radio device for the activation of electric safety edges. Transmitter

SIGNAL ACCESSORIES	
Code	**Description**
Tab	Sign board

Control devices

Novo click
Key selector

Novo click is the KINGgates wall mounted key switch.

Novo click is built with miniaturised pre-wired microswitches and is fitted with an anti-vandal system with customised key.
Novo click is designed to combine an original appearance and ease of use. Unlike the usual key selectors which require time and special tools to connect the faston microswitch terminals, Novo click is fitted with a pre-wired terminal for quick connection to the control board

Shock resistant and designed for either vertical or horizontal installation, like all products in the Novo line it can be installed in the 503 recessed box.

Metal protection dust painted

AVAILABLE VERSIONS	
Code	**Description**
Novo click	Key selector with pre-wired connectors

TECHNICAL DATA		
Code	**Dimensions**	**Protection level**
Novo click	104x60x30 mm	IP 54

Wired control devices

Click 30

Digy Elite

SELECTORS	
Code	**Description**
Click 30	Key selector with pre-wired connectors
Digy elite	Stainless steel anti-vandalism hard-wired digital selector, IP67, 500 users. Back-lighted.

METALLIC MASS DETECTORS	
Code	**Description**
Spiro UN 1	Detector 1 channel - Plastic box IP 44 with connector Undecal

INDUCTIVE COIL	
Code	**Description**
WIRE 6	Pre-assembled coil - perimeter 6 m
WIRE 10	Pre-assembled coil - perimeter 10 m

Photocells

Viky
Outdoor photocells

Complete range of battery-powered relay photocells with beam angle adjustment.

Viky 30

Viky 180, Viky B2

Tower 500, Tower 1000

AVAILABLE VERSIONS	
Code	**Description**
Viky 30	Pair of outdoor photocells
Viky 180	Pair of photocells adjustable through 180°
Viky B2	Pair of photocells adjustable through 180° with batteries

TECHNICAL DATA				
Code	**Supply**	**Consumption**	**Range**	**Working temp.**
Viky 30	12 ÷ 24 Vac-Vdc	50 mA (TX+RX)	30 m Standard	-20° +55°
Viky 180	12 ÷ 24 Vac-Vdc	60 mA (TX+RX)	25 m Standard	-20° +55°
Viky B2	12 ÷ 24 Vac-Vdc (RX) Battery 3 V (TX)	35 mA (RX) 25 mA (TX)	20 m Standard	-20° +55°

ACCESSORIES	
Code	**Description**
Super 100	Plastic bracket for Viky 30

POSTS	
Code	**Description**
Tower 500	Post for two Viky30 photocells, height 500 mm
Tower 1000	Post for two Viky30 photocells, height 1000 mm
PTO 01	Fixing plate

Novo ph
Rotating photocells

NOVO Ph 180 is the KINGgates photocell with protective metal case.

NOVO ph 180 is the infrared photocell with great performance with a range in open space of 30 meters and up to 15 meters in critical weather conditions. It is adjustable in 3 positions (0°-90°-180°), easy to install in all environments. Thanks to metallic alloy case NOVO ph is a robust and shock-resistant photocell, integrates with all the NOVO accessory line and ensures the security of all automated paths through a sober and original way.
The size and the metal case protection of the NOVO accessories make the photocell NOVO ph 180 a solid and professional product.

Like all the NOVO product line you can install NOVO light with the recess box 503.

Metal protection dust painted

AVAILABLE VERSIONS	
Code	**Description**
NOVO ph 180	Pair of rotating photocells (0°-90°-180°) with metal protection

TECHNICAL DATA						
Code	**Supply**	**Range**	**Consumption**	**Working temperature**	**Dimensions**	**Protection level**
NOVO ph 180	12 ÷ 24 Vac-Vdc	30 m Standard	50 mA (TX+RX)	-20° +55°	109x65x35 mm	IP 54

Flashing lights

Idea
Flashing light with built-in aerial

Available in orange and white with 12-24 Vdc and 230 Vac bulbs, with and without electronics for flashing light.

The Plus version has a 433.92 MHz tuned aerial protected in a resistant shockproof polycarbonate box.

AVAILABLE VERSIONS			
Code	**Lamp**	**Built-in electronics**	**Antenna**
Idea 230	230 V 15 W		
Idea 230 Plus	230 V 15 W		•
Idea CL 230	230 V 15 W	•	
Idea CL 230 Plus	230 V 15 W	•	•
Idea 24	24 V 10 W		
Idea 24 Plus	24 V 10 W		•
Idea CL24 DC	24 V 10 W	•	
Idea CL24 DC Plus	24 V 10 W	•	•
Idea 12	12 V 10 W		
Idea 12 Plus	12 V 10 W		•

IDEA WE

To order it, indicate the abbrevation WE after the code. Example: Idea 230 WE

Idea WE

COMPATIBILITY OF FLASHING LIGHTS	
Automation	**Flashing light**
Dynamos 500, Dynamos 1000, Star 2230	Idea 230, Idea 230 Plus
Dynamos 24/400, Dynamos 24/600, Dynamos 24/1000, Modus 280, Modus 420, Minimodus, Rolls 650, Rolls 1200, Book 600, Book 600 led, Book 1000, Book 1000 led, Star 224 Box	Idea 24, Idea 24 Plus, Novo LT 24 plus, Novo led plus
Open 4000, Open 6000	Idea CL24DC, Idea CL24 DC Plus
Ovo 550	Idea 12, Idea 12 Plus
Star B Plus	Idea 230 CL

Novo light
Wall mounted flashing light

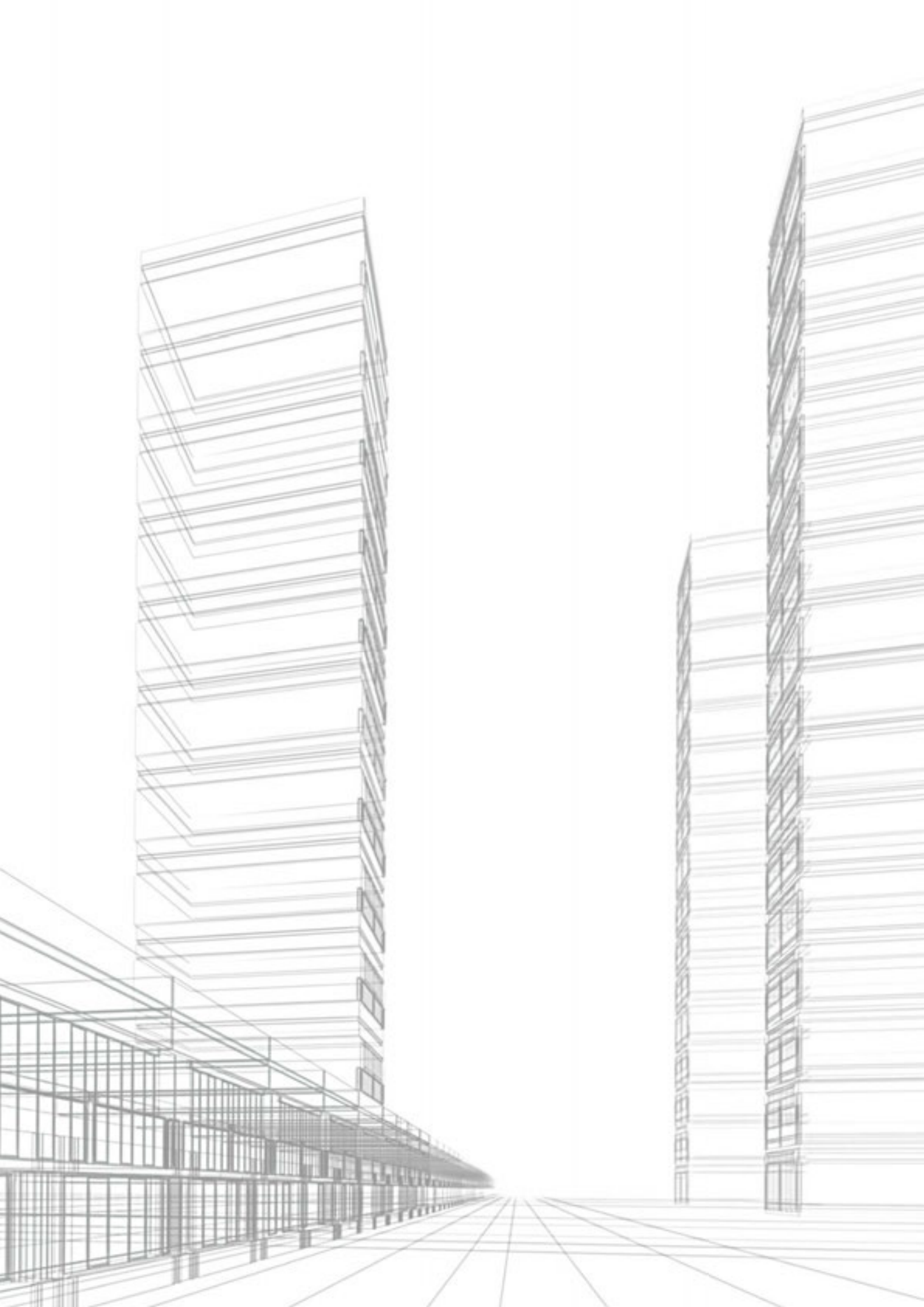
NOVO Light is the KINGgates wall flashing light.

With the programmable functions in the KINGgates control units, NOVO light can be powered in a “oscillating” or continuously so that it can be used as a flashing light or courtesy light. The LED technology in the version NOVO LT Led garantees intensity, low consumption and long life. Can be installed vertically or horizontally, NOVO light is ideal flashing light for garage door and residential gate use. The compact size and the metal case protection make this original product blend into all environments.

Like all the NOVO product line you can install NOVO light with the recess box 503. Practical and original is the direct installation on the overhead door frame.
The metal cover makes NOVO light a shock resistant product, while the integrated aerial avoids vandalism and enhances the radio transmitter range.

AVAILABLE VERSIONS	
Code	**Description**
Novo LT 24 plus	24 V lamp, 10W with integrated aerial
Novo Led Plus	24 V lamp, LED technology with integrated aerial

TECHNICAL DATA					
Code	**Built-in aerial**	**Lamp**	**Supply**	**Dimensions**	**Protection level**
Novo light	433.92 MHz	E10 10W (LT 24 version)	24 Vac	109x65x35 mm	IP 54



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