



# automation for gates, doors and outdoor led lighting

CATALOGUE 2015



look at the video:







# NIGHT LIGHT SYSTEM

A new approach to automation for doors and gates. No longer just a way to manage openings, but a light source during night hours.

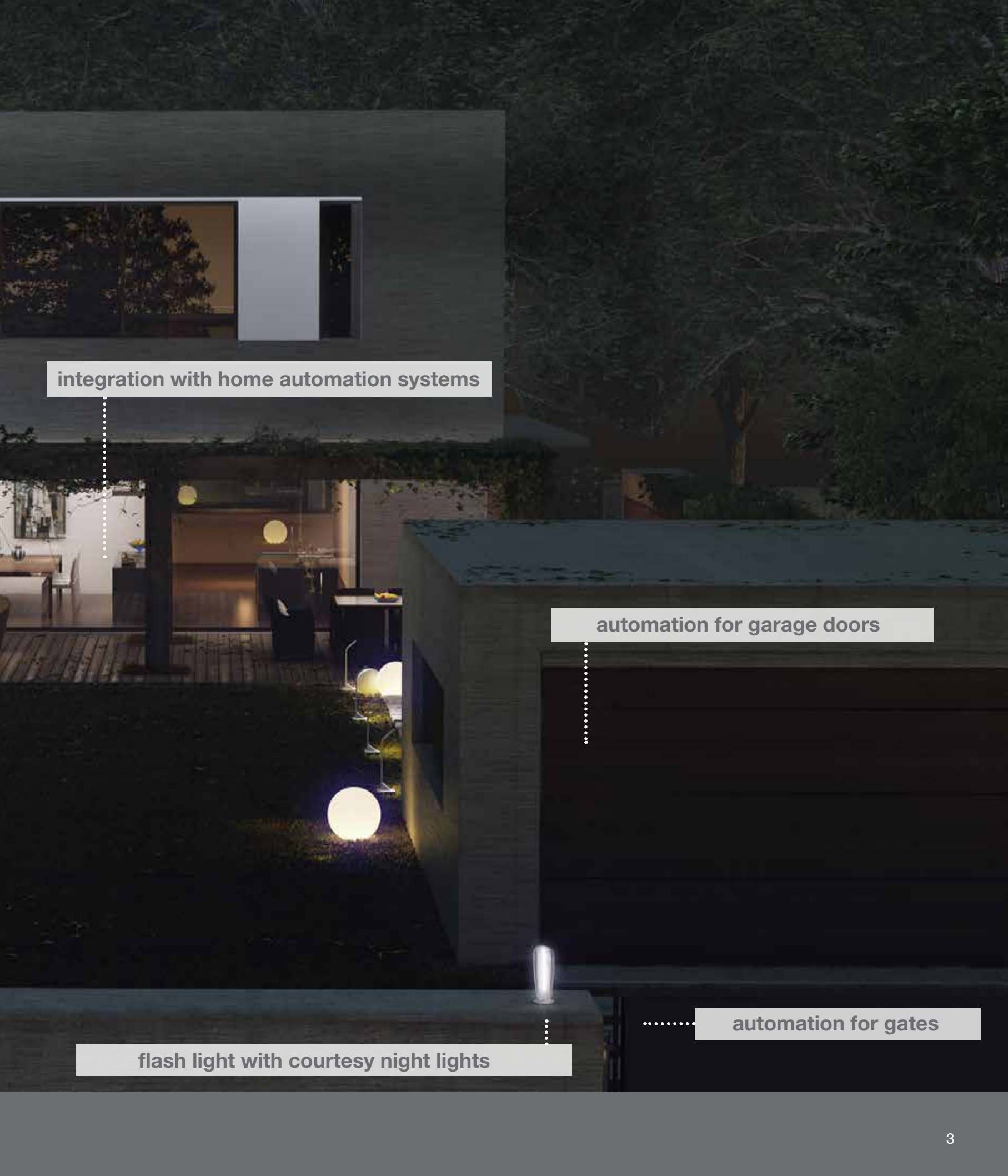
Night Light System is a concept that combines the comfort of an automatic gate with the use of LED lighting to illuminate your entrance over night, independently of the gate opening.

The innovative Night Light System is based on the integration of LED units within the automation, to light up the motors while functioning. This provides a comfortable courtesy light during night hours, thanks to a twilight sensor placed into the flash light itself. Our motors become a stylish light source for your gate.

Night Light System represents Italian style and design, combining elegance and technology with the use of state of the art materials. The smooth and streamlined shapes enhance the beauty of your gate, giving a personal appearance to your home and private environment.



integration with garden lighting



integration with home automation systems

automation for garage doors

flash light with courtesy night lights

automation for gates

# NIGHT LIGHT SYSTEM

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## COMFORT

Defines the width of the driveway passage during the night hours, simplifying the entrance and exit from the house



## DESIGN

Represents the Italian style and design, combining elegance and technology with the use of last generation materials and LEDs lighting

Enhances the beauty of the gate design, thanks to the smooth and sinuous shapes, giving a more sophisticated aspect to your environment



## SAFETY

Ease the night vision when security cameras are installed, in order to monitor the perimeter of the house and obtain a better control on your private property



## SAVING

The use of LEDs allows lower power consumption compared to the use of traditional incandescent bulbs providing a longer life cycle and a brighter vision

The cost of the Night Light System energy consumption referred to the lights at night is about 3 Euros per year\*



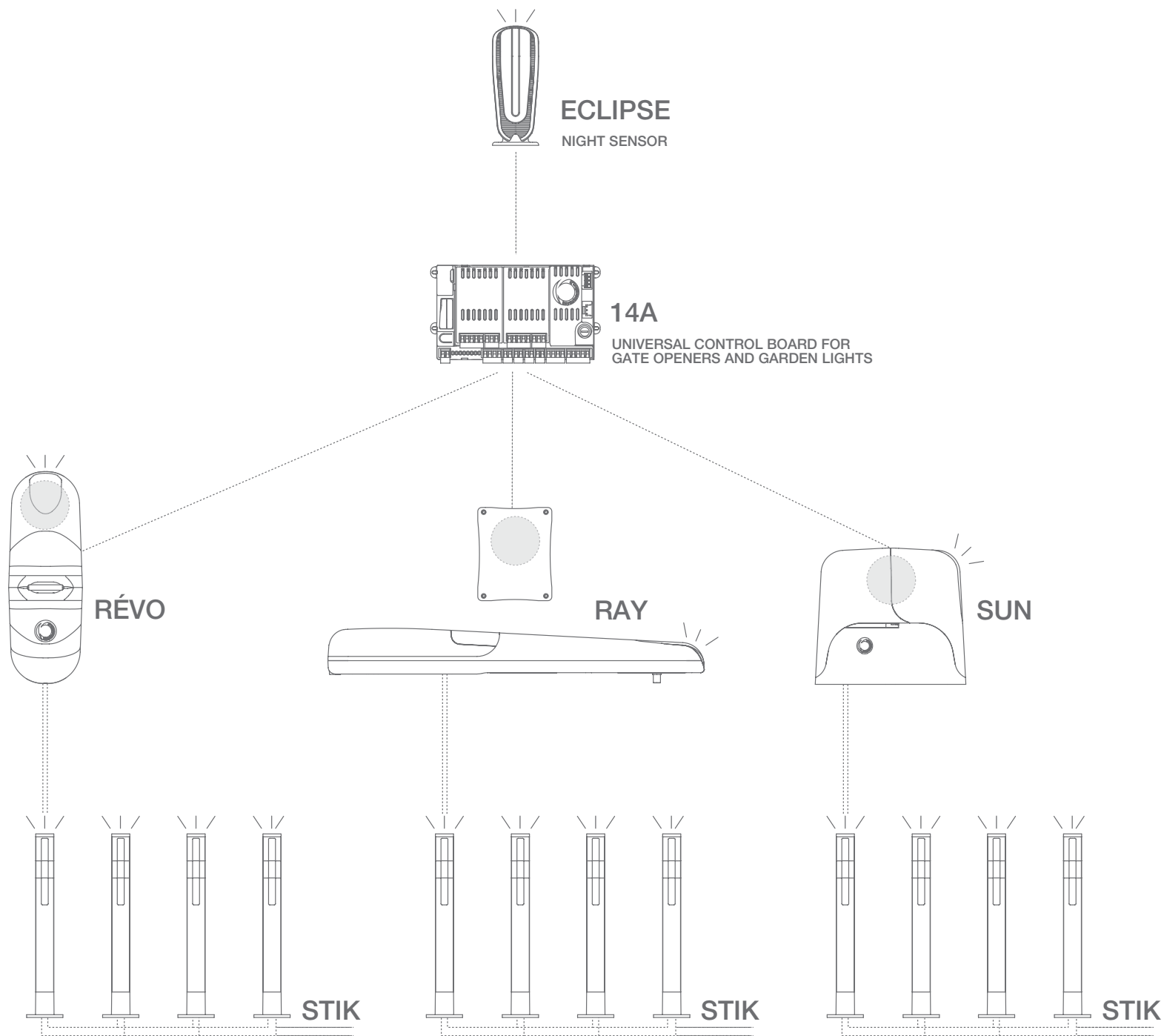
## PERFORMANCE

Designed and manufactured in compliance with the requirements of the EU standards and Italian quality

Efficient and reliable, tested for wear resistance and long durability for both mechanical and electronic components

Simple to install, easy to use and, above all, safe for the whole family

\*Night Light System: example of automation fot swing gates: with three lights at full power, continuously lit for 12 hours a day, every day of the year, at a cost of energy equal to 0.2073 Euros/kW (average cost of 1 kW/h in Italy, year 2012)



With only two 24Vdc wires it is possible to connect up to 20 lights per motor

# KEY GARDEN

## LED LIGHTS FOR GARDEN AND OUTDOOR AREAS

The new expanded product line "Key Garden" has been conceived to illuminate residential and industrial areas in a simple, safe and economic way.

The range includes the following models:

- **STIK:** garden lights, two colors (white or dark brown) and two models (front light or back light)
- **FLAT:** step lights for garage doors and pergolas, two colors (white and dark brown)
- **VERTICAL:** lights for pedestrian or vehicular premises, two colors (white and dark brown)
- **TOWER:** lights with double led strip, suitable for parking lots and public areas, two colors: white and dark brown

Connecting the night sensor Quadro or the flash light Eclipse the garden lights will switch on automatically at sunset and they will automatically switch off at sunrise. The garden lights installation is simple and intuitive, and it is suitable for the DY.

It is possible to control the lights via radio with remote control. In addition it is possible to dimmer the light intensity at night to the desired level or set different thresholds for light automatic activation.

It is possible to install the garden lights with two 24Vdc wires connected to the control board 14A or in alternative to the board BOX LED to make the light system independent from the gate automation.

The energy consumption of each light is 50mA for the models named STIK, FLAT and VERTICAL, whereas for model named TOWER the energy consumption is 100mA.





# CT102 24 AND CT202 24

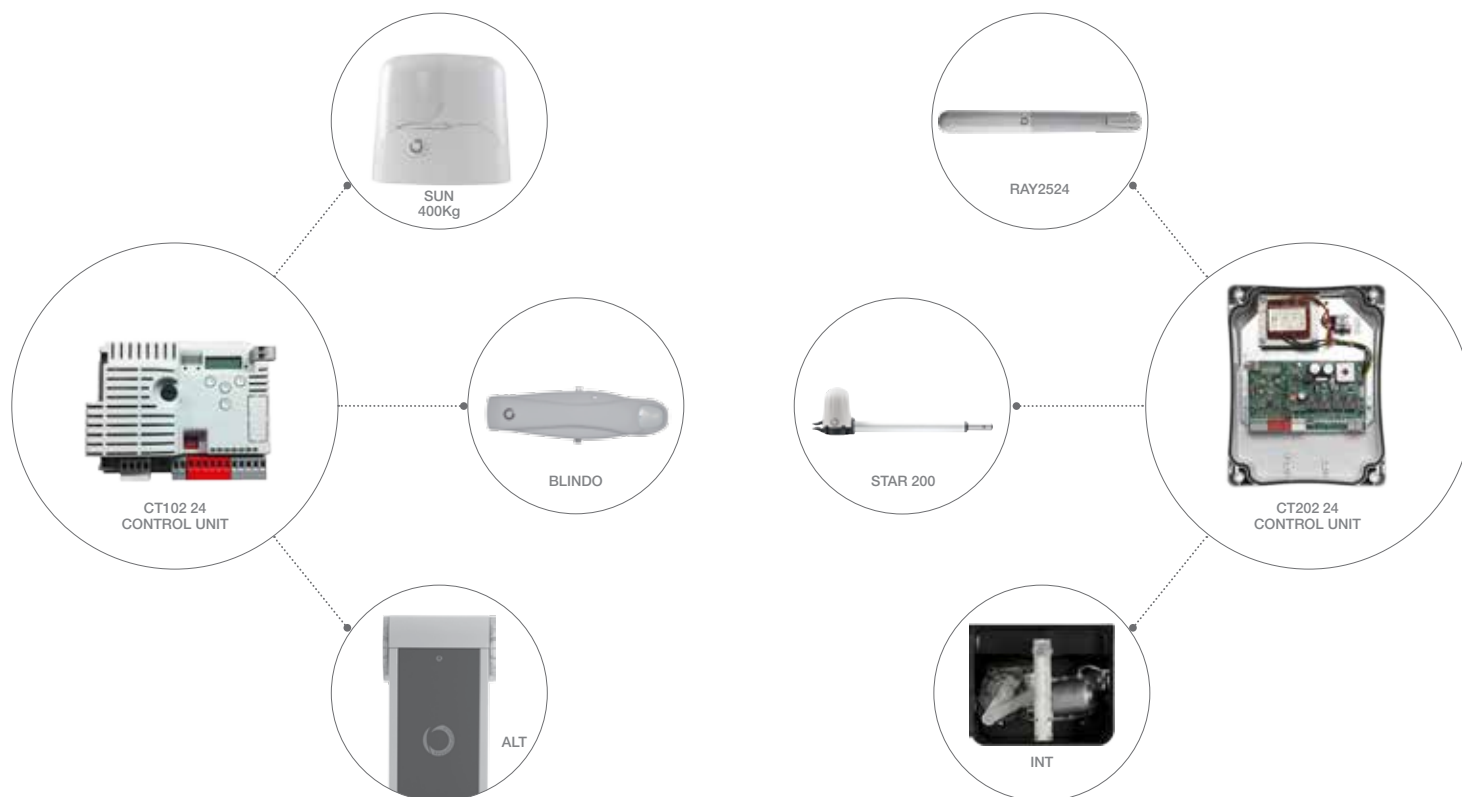
## 24Vdc CONTROL BOARDS

The main board CT102 24 is the most advanced and efficient system for the control of Key Automation gate and doors openers such as sliding gates, overhead doors and electromechanical barriers. The control board CT202 24 is suitable for two motors and therefore for swing gates applications.

Both the two control boards have new features such as:

- same programming logic of 230Vac boards CT102 and CT202 via display and self learning (CT102 24 and CT202 24)
- speed regulation and different slowdown in opening and closing (CT102 24 and CT202 24)
- built-in radio receiver compatible with all Key Automation rolling code remote controls (CT102 24 and CT202 24)
- possibility to use the encoder optionally (CT102 24)

Both the two boards have a display that ease a simple programming and a constant monitoring of output status; in addition the structure of the menu allows an easy setting of working time and other different parameters.



# PLAY

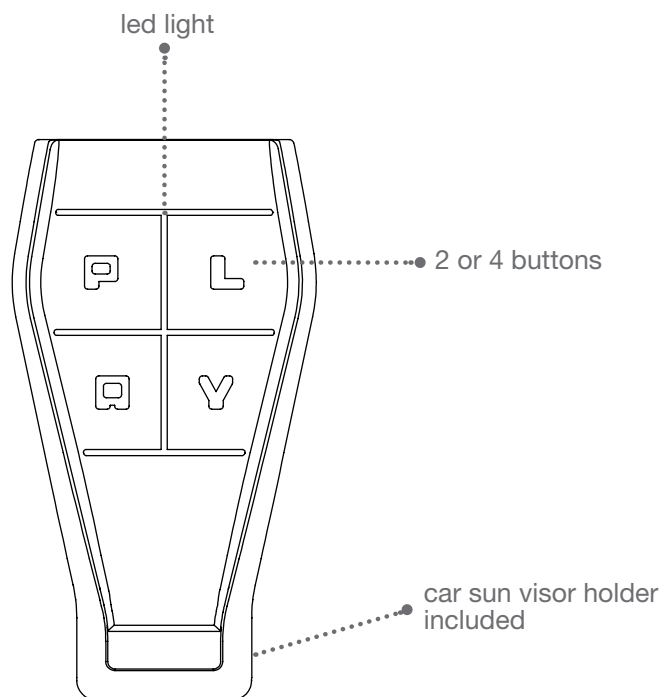
## 4 CHANNELS REMOTE CONTROLS

New rolling code remote control with 2 or 4 channels.

Simple, functional and ergonomic. Easy battery replacement.

The new remote control enables the use of any Key Automation automation, pre-existing or brand new.

Car sun visor holder included.

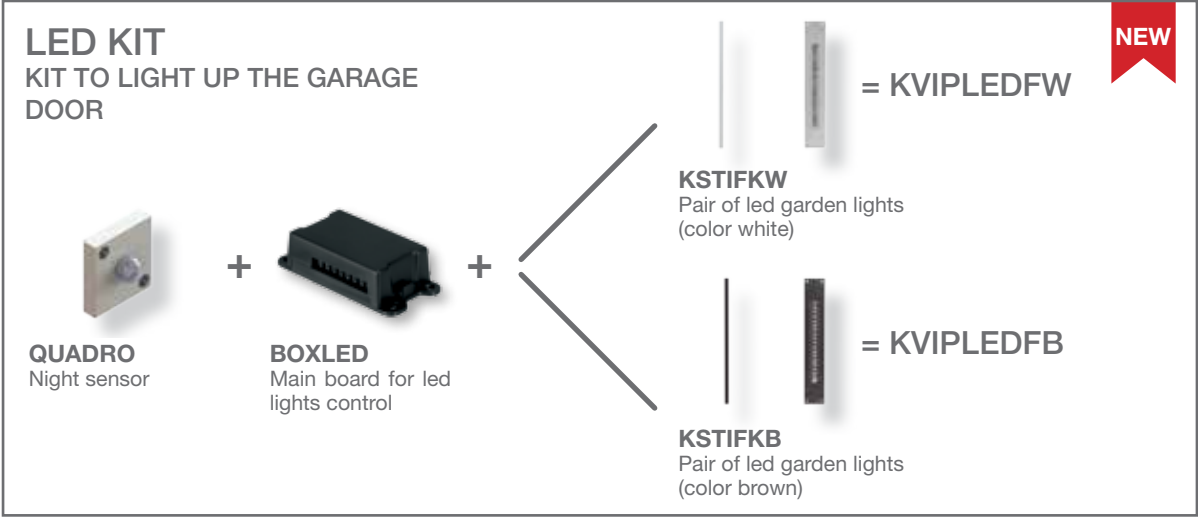


# VIPER LED

## ELECTROMECHANICAL GEAR MOTOR FOR SECTIONAL DOORS AND OVERHEAD DOORS

The new garage door opener VIPER LED has been redesigned and updated with new features:

- design re-styling with new color and led courtesy light
- more easy-friendly with possibility to fit onboard the battery back-up
- compatible with SUBF, radio remote control for multi-utilities
- new LED KIT to enable night light on garage doors frames: the area around the garage door can be illuminated at night automatically and at low cost



LED KIT includes:

- QUADRO: night sensor
- BOX LED: main board for led lights control
- KSTIKFW or KSTIKFB: pair of led garden lights





# KEY AUTOMATION HOME & INDUSTRY & GARDEN PRICE LIST 2015\*

## KEY HOME

### HOME SOLUTIONS

SYSTEMS FOR SWING GATES	16
SYSTEMS FOR SLIDING GATES	40
SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS	60

## KEY INDUSTRY

### INDUSTRY AND COMMERCIAL SOLUTIONS

SYSTEMS FOR SWING GATES	72
SYSTEMS FOR SLIDING GATES	76
ELECTROMECHANICAL BARRIERS	84
SYSTEMS FOR ROLLING SHUTTERS	92
SYSTEMS FOR SLIDING GLASS DOORS	98

## KEY GARDEN

### GARDEN AND OUTDOOR AREAS SOLUTIONS

OUTDOOR LIGHTING SYSTEMS	114
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## KEY ACCESSORIES

### ACCESSORIES

CONTROL UNITS	124
ACCESSORIES	138
ELECTRIC DIAGRAMS	148
ALPHABETICAL LIST	151



### SYSTEMS FOR SWING GATES

RAY 24 Vdc	16
RAY 230 Vac	18
RAY KIT	20
STAR 200	22
STAR KIT	24
RÉVO	26
RÉVO KIT	28
MEWA	30
MEWA KIT	32
UNDER	34
UNDER KIT	36
	38

### SYSTEMS FOR SLIDING GATES

SUN 24 Vdc	40
SUN KIT	42
SUN 4224	44
SUN 230 Vac	46
SUN KIT	48
TURBO 30	50
TURBO KIT	52
TURBO 50/80	54
TURBO KIT	56
	58

### SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS

VIPER LED	60
VIPER LED KIT	62
BLINDO	64
BLINDO KIT	66
	68

SELECTION GUIDE			
SYSTEMS FOR SWING GATES			
RAY	GEAR MOTOR FOR LEAVES UP TO 4 m	24 V, intensive use, up to 2,5 m	RAY2524
		24 V, intensive use, up to 4 m	RAY4024E
		230 V, normal use, up to 4 m	RAY40
STAR 200	GEAR MOTOR FOR LEAVES UP TO 2 m	24 V, intensive use	STAR2024
RÉVO	GEAR MOTOR WITH ARTICULATED ARMS FOR LEAVES UP TO 2,3 m	24 V, intensive use, with control unit	REVO2024
		24 V, intensive use, only motor	REVO2024S
MEWA	GEAR MOTOR WITH ARTICULATED ARMS FOR LEAVES UP TO 4 m	230 V, normal use	SN-50
		230 V, normal use	SN50B
		24 V, intensive use	SN-50-24
		24 V, intensive use	SN5024B
UNDER	GEAR MOTOR FOR LEAVES UP TO 3,5 m	230 V, normal use	INT
		230 V, normal use, cable 10 m	INT10
		24 V, intensive use	INT24



#### STANDARD INSTALLATION FOR SWING GATES

- 1 Post for photocells
- 2 Gear motor
- 3 Photocells
- 4 Flashing light
- 5 Key switch
- 6 Radio transmitter

# RAY 24 Vdc

ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES WITH LEAVES UP TO 4 m, 24 Vdc



## PLUS



Built in LED light in the frontal part of motor body, to light up gate entrance and define width of the passage at night

High technological materials resistant to weather conditions

UV-resistant plastic covers

Extremely silent mechanics, protected by robust die-casted and powder-coated aluminum body

Aligned front and rear mounting brackets to ease motors installation

Manual unlock possible with Sub transmitter. Easy and user friendly



Built-in LED light mask



Possibility to unlock motor with transmitter





Brackets in line



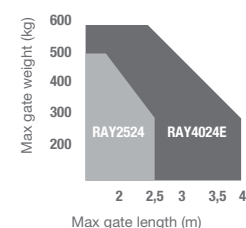
Stylish design screwless at sight

## MODELS

CODE	DESCRIPTION	PCS PALLET
 RAY2524	For swing gates with maximum length 2,5 m and weight 250 kg, 24 Vdc motor (1 pc)	25
 RAY4024E	For swing gates with maximum length 4 m and weight 300 kg, 24 Vdc motor with encoder (1 pc)	25

TECHNICAL DATA		RAY2524	RAY4024E
MECHANICAL DATA			
speed	cm/s	2,6	1,5
pulling force	N	1500	2000
working cycle	%	80	80
opening time at 90°	sec	18-25	20-25
ELECTRICAL DATA			
control board		14AB	14AB2
power	Vac (Vdc)	(24)	(24)
motor consumption	A	3,5	5
absorbed power	W	85	120
capacitor	µF	-	-
thermoprotection	°C	-	-
integrated lights		yes	yes
GENERIC DATA			
protection degree	IP	44	44
dimensions (L - D - H)	mm	844 - 100 - 104	844 - 100 - 104
weight	kg cad	6	8
working temperature	°C	-20 + 55	-20 + 55
leaves maximum weight	Kg	500	600

### LIMIT USE



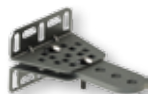
Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

## ACCESSORIES



**ADFB**  
Adjustable front mounting bracket  
(only RAY2524)

PC 1



**ADRB**  
Adjustable rear mounting bracket  
(only RAY2524)

PC 1



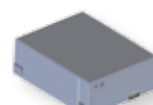
**FCRAY**  
Mechanical stop in closing

PC 1



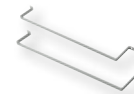
**ELS-C**  
Horizontal 12 V electrolock

PC 1



**KBP**  
Battery back-up kit

PC 1



**KITFIXBATT**  
Fixing batteries brackets

PCS 2



**999LED**  
Pair of led lights neutral white

PCS 2



**KC**  
Unlock key cilinder

PC 1



**EXRB**  
Extensions bracket for outside opening

PC 1



**520STAF032A00**  
Adapting rear bracket

PC 1



**14AB2**  
Control unit in box for two 24 Vdc motors

PC 1



**CT202 24**  
Control unit in box for two 24 Vdc motors  
(only RAY2524)

PC 1



**TS**  
Warning board

PC 1

# RAY 230 Vac

ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES WITH LEAVES UP TO 4 m, 230 Vac



## PLUS



High technological materials resistant to weather conditions

UV-resistant plastic covers

Extremely silent mechanics, protected by robust die-casted and powder-coated aluminum body

Aligned front and rear mounting brackets to ease motors installation

Manual unlock possible with Sub transmitter. Easy and user friendly



Robust metal gear reduction



Possibility to unlock motor with transmitter



Brackets in line



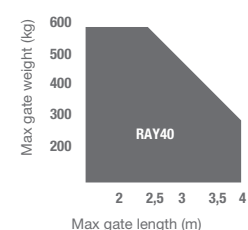
Stylish design screwless at sight

## MODELS

CODE	DESCRIPTION	PCS PALLET
RAY40	For swing gates with maximum length 4 m and weight 300 kg, 230 Vac motor (1 pc)	25

TECHNICAL DATA		RAY40
<b>MECHANICAL DATA</b>		
speed	cm/s	1,6
pulling force	N	2000
working cycle	%	40
opening time at 90°	sec	26
<b>ELECTRICAL DATA</b>		
control board		CT202
power	Vac (Vdc)	230
motor consumption	A	1,2
absorbed power	W	280
capacitor	µF	8
thermoprotection	°C	150
integrated lights		-
<b>GENERIC DATA</b>		
protection degree	IP	44
dimensions (L - D - H)	mm	844 - 100 - 104
weight	kg cad	8
working temperature	°C	-20 + 55
leaves maximum weight	Kg	600

## LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

## ACCESSORIES



**FCRAV**  
Pair of mechanical stops in closing

PC 1



**ELS-C**  
Horizontal 12 V electrolock

PC 1



**KC**  
Unlock key cilinder

PC 1



**EXRB**  
Extentions bracket for outside opening

PC 1



**520STAF032A00**  
Adapting rear bracket

PC 1



**CT202**  
Control unit in box for two 230 Vac motors

PC 1



**TS**  
Warning board

PC 1

RAY KIT

FOR SWING GATES WITH LEAVES UP TO 4 m, 24 Vdc AND 230 Vac



RAY2524 (2 pcs)  
RAY4024 (2 pcs)  
RAY40 (2 pcs - without Night Light System)

PLUS

- Easy slowdown and open limit settings





Mechanical parts well protected from external agents

Opening mechanical stop included for proper gate installation and use

New water resistant SUB remote control included
- Night Light System with LED light included (24 Vdc version)

14A control unit (24 Vdc version)

CT202 control unit (230 Vac version)

RAY KIT 24 Vdc				
	CODE	DESCRIPTION	WEIGHT	PCS PALLET
	KRAY2524ER	Kit for swing gates with leaves up to 2,5 m, 24 Vdc motor, control unit with slowdown and opening mechanic limit switch. With night light function included	18,6kg	15
	KRAY2524KR	Kit for swing gates with leaves up to 2,5 m, 24 Vdc motor, control unit with slowdown and opening mechanic limit switch	18,4kg	15
	KRAY4024ER	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown, opening mechanic limit switch and encoder. With night light function included	18,6kg	15
	KRAY4024KR	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown, opening mechanic limit switch and encoder	18,4kg	15

RAY KIT 230 Vac				
	CODE	DESCRIPTION	WEIGHT	PCS PALLET
	KRAY42ER	Kit for swing gates with leaves up to 4 m, 230 Vac motor, control unit with slowdown and opening mechanic limit switch	22kg	15
	KRAY42KR	Kit for swing gates with leaves up to 4 m, 230 Vac motor, control unit with slowdown and opening mechanic limit switch	21,8kg	15

## 24 Vdc KIT COMPONENTS



14A (1 pc)



ECLIPSE (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



SUB-44R (2 pcs)



TS (1 pc)

KRAY2524ER	● 14AB	●	●	●	●	●
KRAY2524KR	● 14AB		●	●	●	●
KRAY4024ER	● 14AB2	●	●	●	●	●
KRAY4024KR	● 14AB2		●	●	●	●

## 230 Vac KIT COMPONENTS



CT202 (1 pc)



LUMY-230E (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



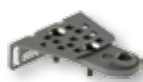
SUB-44R (2 pcs)



TS (1 pc)

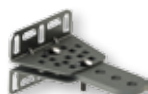
KRAY42ER	●	●	●	●	●	●
KRAY42KR	●		●	●	●	●

## ACCESSORIES



**ADFB**  
Adjustable front  
mounting  
bracket  
(only RAY2524)

PC 1



**ADRB**  
Adjustable rear  
mounting  
brackets  
(only RAY2524)

PC 1



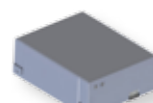
**FCRAY**  
Pair of mechanical  
stops in closing

PC 1



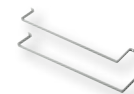
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



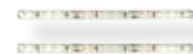
**KBP**  
Battery back-up  
kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PCS 2



**999LED**  
Pair of led lights  
neutral white

PCS 2



**KC**  
Unlock key cilinder

PC 1



**EXRB**  
Extensions bracket  
for outside  
opening

PC 1



**520STAF032A00**  
Adapting rear  
bracket

PC 1



**SEL-M**  
Key selector, metal  
front, plastic back

PC 1



**SEL-EU**  
Key selector with  
European cilinder,  
metal front and  
back

PC 1



**DY**  
Display module  
Cable lenght  
20 cm (only 14A)

PC 1



**DYL**  
Display module  
Cable lenght  
120 cm (only 14A)

PC 1

# STAR 200

ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES WITH LEAVES UP TO 2 m, 24 Vdc



## PLUS



New version without encoder

Easy slowdown and open limit settings

Mechanical parts well protected from external agents

Available on kit version

Compatible with control unit CT202.24 (pag. 129 for technical details)



Sturdy telescopic stem



Robust gears and mechanical parts



New version without encoder



Metallic release system

MODELS

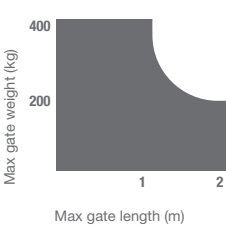
CODE	DESCRIPTION	PCS PALLET
 STAR2024	For swing gates with maximum length 2 m, pair of irreversible 24 Vdc motors, without encoder (2 pcs, left and right)	21

TECHNICAL DATA

STAR2024


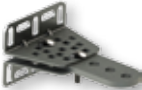

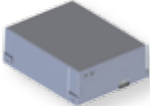



MECHANICAL DATA		
speed	cm/s	1,8
pulling force	N	1400
working cycle	%	80
opening time at 90°	sec	15-20
ELECTRICAL DATA		
control board		CT202 24
power	Vac (Vdc)	(24)
motor consumption	A	3,5
absorbed power	W	85
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	646 - 115 - 177
weight	kg cad	3
working temperature	°C	-20 + 55
leaves maximum weight	Kg	400

LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

ACCESSORIES

						
<b>ADFB</b> Adjustable front mounting bracket	<b>ADRB</b> Adjustable rear mounting bracket	<b>ELS-C</b> Horizontal 12 V electrolock	<b>KBP</b> Battery back-up kit	<b>KITFIXBATT</b> Fixing batteries brackets	<b>CT202 24</b> Control unit in box for two 24 Vdc motors	<b>TS</b> Warning board
PC 1	PC 1	PC 1	PC 1	PCS 2	PC 1	PC 1

# STAR KIT


FOR SWING GATES WITH LEAVES UP TO 2 m, 24 Vdc



STAR2024 (2 pcs)

## PLUS

- Easy slowdown and open limit settings
- Mechanical parts well protected from external agents
- New PLAY remote control included

STAR KIT				
CODE	DESCRIPTION		WEIGHT	PCS PALLET
 KSTAR2024KR	Kit for swing gates with leaves up to 2 m, 24 Vdc motor, control unit with slowdown		18,4kg	21

KIT COMPONENTS



CT202 24 (1 pc)



FT32 (1 pc)



PLAY4R (2 pcs)

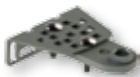


TS (1 pc)

KSTAR2024KR

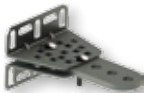


ACCESSORIES



**ADFB**  
Adjustable front  
mounting  
bracket

PC 1



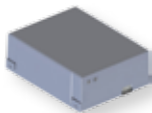
**ADRB**  
Adjustable rear  
mounting  
bracket

PC 1



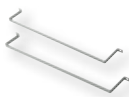
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



**KBP**  
Battery back-up  
kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PCS 2



**SEL-M**  
Key selector, metal  
front, plastic back

PC 1



**SEL-EU**  
Key selector with  
European cilinder,  
metal front and  
back

PC 1



**ECLIPSE**  
Led flash light with  
courtesy light

PC 1



**LUMY-24**  
Flash light

PC 1

# RÉVO

ELECTROMECHANICAL GEAR MOTOR WITH ARTICULATED ARM FOR SWING GATES  
WITH LEAVES UP TO 2,3 m, 24 Vdc



## PLUS



RÉVO combines a lighting system with an articulated arm gear motor. Designed for swing gates made of PVC or wooden leaves

Ideal for narrow columns or pillars with reduced dimensions. Compact shape and silent movement, made of strong die-casting aluminium and UV resistant covers

The articulated arm allows the installation of RÉVO in all those difficult situations where there is a significant depth between the leaf and the column, or with very narrow columns (10x10 cm). Available in two versions, with articulated arm or sliding arm for pedestrian gates

The unlocking system is simple and intuitive. The unlock is possible also using the transmitter Sub. Unlock from the outside is optional

The installation of the motor is also eased by the front and rear brackets located at the same level

Back-up battery (optional) on board

Double mechanical built-in stop



Stylish design screwless at sight



Possibility to unlock motor with transmitter




Compact dimensions (width 12 cm)

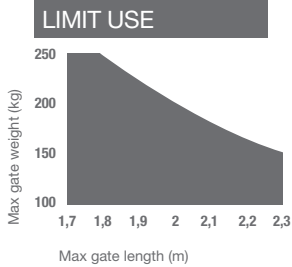


Built-in limit switches

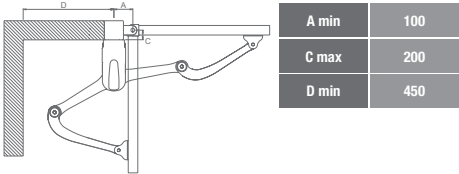
MODELS

CODE	DESCRIPTION	PCS PALLET
 REVO2024	For swing gates with maximum length 2,3 m or weight 250 kg, 24 Vdc motor (1 pc)	16
 REVO2024S	For swing gates with maximum length 2,3 m or weight 250 kg, 24 Vdc motor. Without control unit (1 pc)	16


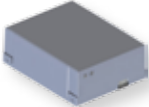







TECHNICAL DATA		REVO2024	REVO2024S
MECHANICAL DATA			
torque	Nm	120	120
working cycle	%	80	80
opening time at 90°	sec	14-20	14-20
ELECTRICAL DATA			
control board		14A	-
power	Vac (Vdc)	230 (24)	(24)
motor consumption	A	0,5	2
absorbed power	W	100	50
integrated lights		yes	yes
GENERIC DATA			
protection degree	IP	44	44
dimensions (L - D - H)	mm	120 - 250 - 350	120 - 250 - 350
weight	kg cad	10,5	8
working temperature	°C	-20 + 55	-20 + 55
leaves maximum weight	Kg	250	250



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas



ACCESSORIES

						
<b>ELS-C</b> Horizontal 12 V electrolock	<b>KBP</b> Battery back-up kit	<b>999LED</b> Pair of led lights neutral white	<b>KC</b> Unlock key cilinder	<b>REV1</b> Slide arm	<b>REV2</b> Pedestrian gate arm	<b>REV3</b> External release unlock kit
PC 1	PC 1	PCS 2	PC 1	PC 1	PC 1	PC 1
						
<b>BMET</b> Metal box with release system	<b>TS</b> Warning board					
PC 1	PC 1					

# RÉVO KIT

FOR SWING GATES WITH LEAVES UP TO 2,3 m, 24 Vdc



REVO2024 (2 pcs)

## PLUS



- Easy slowdown and open limit settings

Mechanical parts well protected from external agents

Mechanical stops included for proper gate installation and use
- New water resistant SUB remote control included

Night Light System with LED light included

14A control unit

RÉVO KIT				
	CODE	DESCRIPTION	WEIGHT	PCS PALLET
	KREVO2024ER	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, 14A control unit with slowdown, mechanical stops in opening and closing. With night light function included	18,6kg	16
	KREVO2024KR	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, 14A control unit with slowdown, mechanical stops in opening and closing	18,4kg	16

KIT COMPONENTS

							
	14A (1 pc)	ECLIPSE (1 pc)	RX4X (1 pc)	FT32 (1 pc)	SUB-44WR (2 pcs)	SUB-44R (2 pcs)	TS (1 pc)
KREVO2024ER	●	●	●	●	●		●
KREVO2024KR	●		●	●		●	●

ACCESSORIES

						
<b>ELS-C</b> Horizontal 12 V electrolock	<b>KBP</b> Battery back-up kit	<b>999LED</b> Pair of led lights neutral white	<b>KC</b> Unlock key cilinder	<b>REV1</b> Slide arm	<b>REV2</b> Pedestrian gate arm	<b>REV3</b> External release unlock kit
PC 1	PC 1	PCS 2	PC 1	PC 1	PC 1	PC 1
						
<b>BMET</b> Metal box with release system	<b>SEL-M</b> Key selector, metal front, plastic back	<b>SEL-EU</b> Key selector with European cilinder, metal front and back	<b>DY</b> Display module Cable lenght 20 cm (only 14A)	<b>DYL</b> Display module Cable lenght 120 cm (only 14A)		
PC 1	PC 1	PC 1	PC 1	PC 1		

# MEWA

ELECTROMECHANICAL GEAR MOTOR WITH ARTICULATED ARM FOR SWING GATES  
WITH LEAVES UP TO 4 m, 24 Vdc AND 230 Vac



## PLUS



With encoder (24 Vdc version): possibility of speed and slowdown regulation

Max safety in the obstacle detection

Also external release for an easy manual unlock from outside

With slowdown, soft start and soft stop granting the product mechanical parts integrity

Compatible with 24Vdc control unit 14A, (pag. 126 for technical details)

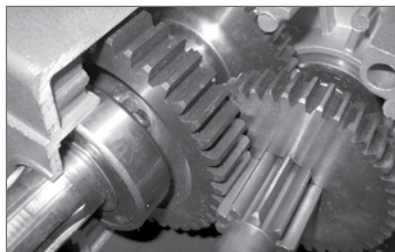
Compatible with 230Vac control unit CT202, (pag. 131 for technical details)



External release for an easy manual unlock from outside



Reinforced and sturdy arm suitable for wide-angles opening





Powerful motor with solid metal gearbox



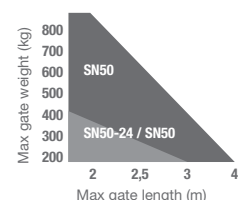
Limit switch with high precision regulation

## MODELS

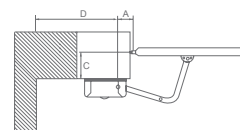
CODE	DESCRIPTION	PCS PALLET
SN-50	For swing gates with maximum length 4 m, 230 Vac motor with opening and closing electric limit switches (1 pc) specify right or left motor (installation inside view)	36
KSN50B	Pair of motor for swing gates with maximum length 4 m, 230 Vac motor with opening and closing electric limit switches (2 pcs)	18
 SN-50-24	For swing gates with maximum length 3 m, 24 Vdc motor with encoder (1 pc) specify right or left motor (installation inside view)	36
 KSN5024B	Pair of motor for swing gates with maximum length 3 m, 24 Vdc motor with encoder (2 pcs)	18

TECHNICAL DATA		SN-50	KSN50B	SN-50-24	KSN5024B
MECHANICAL DATA					
torque	Nm	400	400	350	350
working cycle	%	30	30	80	80
opening time at 90°	sec	18	18	15-25	15-25
ELECTRICAL DATA					
control board		CT202	CT202	14AB2	14AB2
power	Vac (Vdc)	230	230	(24)	(24)
motor consumption	A	1,5	1,5	5	5
absorbed power	W	340	340	120	120
capacitor	µF	12	12	-	-
thermoprotection	°C	150	150	-	-
GENERIC DATA					
protection degree	IP	43	43	43	43
dimensions (L - D - H)	mm	330 - 187 - 157	330 - 187 - 157	330 - 187 - 157	330 - 187 - 157
weight	kg cad	14	28	13,8	27,6
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55
leaves maximum weight	Kg	800	800	400	400

### LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas



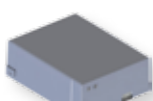
A min	150
C max	300
D min	500

## ACCESSORIES



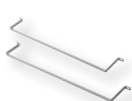
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



**KBP**  
Battery back-up  
kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PCS 2



**BMET**  
Metal box with  
release system

PC 1



**SBLEXT**  
Cable external  
release kit

PC 1



**14AB2**  
Control unit in box  
for two 24 Vdc  
motors

PC 1



**CT202**  
Control unit in box  
for two 230 Vac  
motors

PC 1



**TS**  
Warning board

PC 1

MEWA KIT

FOR SWING GATES WITH LEAVES UP TO 4 m, 230 Vac



SN-50 (2 pcs)

PLUS






- Easy slowdown and open limit settings
- Mechanical parts well protected from external agents
- New water resistant SUB remote control included

MEWA KIT				
CODE	DESCRIPTION	WEIGHT	PCS PALLET	
KSN52ER	Kit for swing gates with leaves up to 4 m, 230 Vac motor with articulated arms, control unit with slowdown	17,6kg	12	
KSN52KR	Kit for swing gates with leaves up to 4 m, 230 Vac motor with articulated arms, control unit with slowdown	17,4kg	12	

KIT COMPONENTS

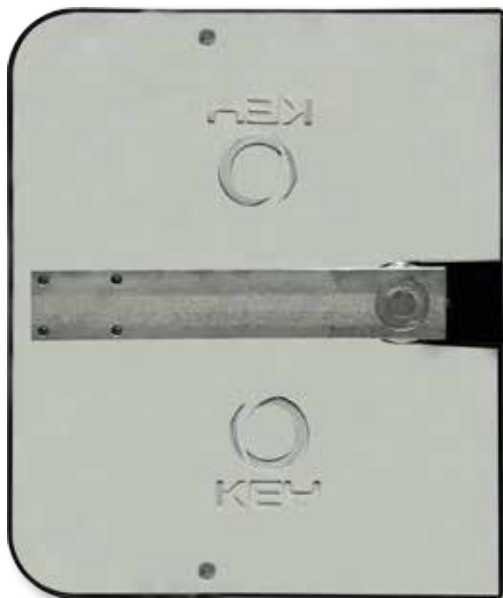
							
	CT202 (1 pc)	LUMY-230E (1 pc)	RX4X (1 pc)	FT32 (1 pc)	SUB-44WR (2 pcs)	SUB-44R (2 pcs)	TS (1 pc)
KSN52ER	●	●	●	●	●		●
KSN52KR	●		●	●		●	●

ACCESSORIES

				
<b>ELS-C</b> Horizontal 12 V electrolock	<b>BMET</b> Metal box with release system	<b>SBLEXT</b> Cable external release kit	<b>SEL-M</b> Key selector, metal front, plastic back	<b>SEL-EU</b> Key selector with European cilinder, metal front and back
PC 1	PC 1	PC 1	PC 1	PC 1

# UNDER

UNDERGROUND ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES  
WITH LEAVES UP TO 3,5 m, 24 Vdc AND 230 Vac



## PLUS



New foundation box CF2

Opening and closing mechanical stops included

Adjustable speed and slowdown functions

24 Vdc motor without encoder

Possibility to choose between 1.5 m and 10 m cable motor  
(for 230 Vac)

Compatible with 24Vdc control unit 14A, (pag.126 for technical  
details)

Compatible with 230Vac control unit CT202, (pag. 131 for technical  
details)



High precision mechanical stops



Bronze and tempered steel internal  
gears for maximum reliability




Internal and external unlock with  
special metal key



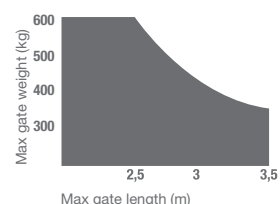
Easy maintenance thanks to the  
double greasers both on housing  
and gear motor

## MODELS

CODE	DESCRIPTION	PCS PALLET
INT	For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 1.5 m (1 pc)	36
INT10	For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 10 m (1 pc)	36
 INT24	For swing gates with maximum length 3,5 m, 24 Vdc motor, without encoder, with opening and closing mechanical stops (1 pc)	36

TECHNICAL DATA		INT	INT10	INT24
<b>MECHANICAL DATA</b>				
torque	Nm	300	300	250
working cycle	%	30	30	80
opening time at 90°	sec	20	20	18-25
<b>ELECTRICAL DATA</b>				
control board		CT202	CT202	14AB2
power	Vac (Vdc)	230	230	(24)
motor consumption	A	1	1	5
absorbed power	W	230	230	120
capacitor	µF	10	10	-
thermoprotection	°C	150	150	-
<b>GENERIC DATA</b>				
protection degree	IP	67	67	67
dimensions (L - D - H)	mm	380 - 300 - 160	380 - 300 - 160	380 - 300 - 160
weight	kg cad	11	11	10,8
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
leaves maximum weight	Kg	600	600	600

### LIMIT USE



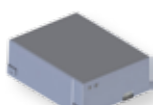
Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

## ACCESSORIES



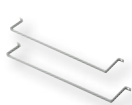
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



**KBP**  
Battery back-up  
kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PCS 2



**SBLINT**  
Connecting lever  
with key

PC 1



**AP110**  
Kit for over 110°  
opening.  
Leaf lenght max  
3000 mm

PC 1



**420CHSB**  
Unlock key

PC 1



**CF2**  
Cataphoresis  
housing box with  
connecting levers

PC 1



**CI2**  
Stainless steel  
housing box, with  
connecting levers

PC 1



**CF2SB**  
Cataphoresis  
housing box,  
without  
connecting levers

PC 1



**14AB2**  
Control unit in box  
for two 24 Vdc  
motors (for INT24)

PC 1



**CT202 24**  
Control unit in box  
for two 24 Vdc  
motors (for INT24)

PC 1



**CT202**  
Control unit in box  
for two 230 Vac  
motors (for INT)

PC 1

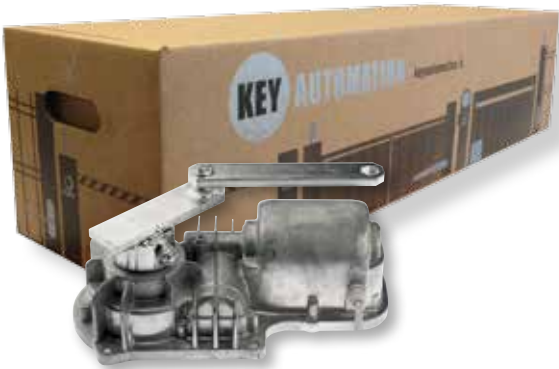


**TS**  
Warning board

PC 1

# UNDER KIT



FOR SWING GATES WITH LEAVES UP TO 3,5 m, 24 Vdc AND 230 Vac



INT (2 pcs)

## PLUS

- Without encoder (24 Vdc version)
- Adjustable speed and slowdown functions
- Mechanical parts well protected from external agents
- New water resistant SUB remote control included

INT KIT 24 Vdc				
CODE	DESCRIPTION		WEIGHT	PCS PALLET
 KINT3024ER	Underground kit for swing gates with leaves up to 3,5 m, 24 Vdc motor, control unit with slowdown. With night light function included		18,6kg	9
 KINT3024KR	Underground kit for swing gates with leaves up to 3,5 m, 24 Vdc motor, control unit with slowdown		18,4kg	9

INT KIT 230 Vac				
CODE	DESCRIPTION		WEIGHT	PCS PALLET
KINT2ER	Underground kit for swing gates with leaves up to 3,5 m, 230 Vac motor, control unit with slow-down		22kg	9
KINT2KR	Underground kit for swing gates with leaves up to 3,5 m, 230 Vac motor, control unit with slow-down		21,8kg	9

## 24 Vdc KIT COMPONENTS



14AB2 (1 pc)



ECLIPSE (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



SUB-44R (2 pcs)



TS (1 pc)

KINT3024ER



KINT3024KR



## 230 Vac KIT COMPONENTS



CT202 (1 pc)



LUMY-230E (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



SUB-44R (2 pcs)



TS (1 pc)

KINT2ER



KINT2KR

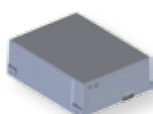


## ACCESSORIES



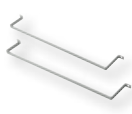
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



**KBP**  
Battery back-up  
kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PCS 2



**SBLINT**  
Connecting lever  
with key

PC 1



**AP110**  
Kit for over 110°  
opening.  
Leaf lenght max  
3000 mm

PC 1



**420CHSB**  
Unlock key

PC 1



**SEL-M**  
Key selector, metal  
front, plastic back

PC 1



**SEL-EU**  
Key selector with  
European cilinder,  
metal front and  
back

PC 1



**DY**  
Display module  
Cable lenght  
20 cm (only 14A)

PC 1



**DYL**  
Display module  
Cable lenght  
120 cm (only 14A)

PC 1



**CF2**  
Cataphoresis  
housing box with  
connecting levers

PC 1



**CI2**  
Stainless steel  
housing box, with  
connecting levers

PC 1



**CF2SB**  
Cataphoresis  
housing box,  
without  
connecting levers

PC 1

# SELECTION GUIDE

## SYSTEMS FOR SLIDING GATES

SUN	GEAR MOTOR FOR GATES UP TO 1200 Kg	24 V, intensive use, up to 400 Kg	SUN4024/SUN4224
		24 V, intensive use, up to 700 Kg	SUN7024
		24 V, intensive use, up to 1100 Kg	SUN11024
		230 V, normal use, up to 500 Kg	SUN50
		230 V, normal use, up to 800 Kg	SUN80
		230 V, normal use, up to 1200 Kg	SUN120
TURBO 30	GEAR MOTOR FOR GATES UP TO 300 Kg	24 V, intensive use, up to 300 Kg	SC-30CSM
TURBO 50/80	GEAR MOTOR FOR GATES FROM 500 Kg TO 800 Kg	230 V, normal use, up to 500 Kg	SC52
		230 V, normal use, up to 800 Kg	SC82



#### STANDARD INSTALLATION FOR SLIDING GATES

- 1 Post for photocells
- 2 Gear motor
- 3 Photocells
- 4 Flashing light
- 5 Key switch
- 6 Radio transmitter

# SUN 24 Vdc

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 1100 Kg, 24 Vdc



## PLUS



Like all the other Night Light System models, SUN has an extremely silent mechanics, thanks to a neat design and the use of top performance materials

High technological materials resistant to weather conditions

UV-resistant plastic covers

Extremely silent mechanics, protected by robust die-casted and powder-coated aluminum body

The release system is ergonomic, efficient and easily accessible

Back-up battery (optional) on board

Gear reduction with extra-large bearing with high performance

With 24 Vdc control unit 14AB2 (pag. 126 for technical details)



Only control board 14A



Built-in LED light






Robust gear reduction with self-standing bearing



Stylish design screwless at sight




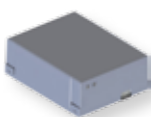
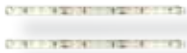

MODELS

CODE	DESCRIPTION	PCS PALLET
 SUN4024	For sliding gates up to 400 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with 14A control board (1 pc)	36
 SUN7024	For sliding gates up to 700 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with 14A control board (1 pc)	36
 SUN11024	For sliding gates up to 1100 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with 14A control board (1 pc)	36

TECHNICAL DATA		SUN4024	SUN7024	SUN11024
MECHANICAL DATA				
speed	cm/s	25*	25*	20*
torque	Nm	13	26	38
working cycle	%	80	80	80
ELECTRICAL DATA				
control board		14A	14A	14A
power	Vac (Vdc)	230 (24)	230 (24)	230 (24)
motor consumption	A	1,1	2,5	2,3
absorbed power	W	250	500	450
capacitor	µF	-	-	-
thermoprotection	°C	-	-	-
integrated lights		yes	yes	yes
GENERIC DATA				
protection degree	IP	44	44	44
dimensions (L - D - H)	mm	330 - 205 - 300	330 - 205 - 300	330 - 205 - 300
weight	kg	12	12,5	13
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
gate maximum weight	Kg	400	700	1100

\* variable according to the gate weight

ACCESSORIES

					
<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>CREM-8</b> M4 iron toothed rack 30x8 mm L=1000 mm	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm	<b>KBP</b> Battery back-up kit	<b>999LED</b> Pair of led lights neutral white	<b>TS</b> Warning board
PC 1	PC 1	PC 1	PC 1	PCS 2	PC 1

# SUN KIT

FOR SLIDING GATES UP TO 1100 Kg, 24 Vdc



SUN4024 (1 pc)  
SUN7024 (1 pc)  
SUN11024 (1 pc)

## PLUS







With slowdown function both in opening and closing to preserve gate integrity

Conceived to carry intensive use

New water resistant SUB remote control included

Night Light System with LED light included

14A control unit

SUN KIT 24 Vdc				
	CODE	DESCRIPTION	WEIGHT	PCS PALLET
	KSUN4024ER	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit with slowdown, electric limit switch. With night light function included	13,1kg	36
	KSUN4024KR	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit with slowdown, electric limit switch	12,9kg	36
	KSUN7024ER	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit with slowdown, electric limit switch. With night light function included	14kg	36
	KSUN7024KR	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit with slowdown, electric limit switch	13,8kg	36
	KSUN11024ER	Kit for sliding gates up to 1100 kg, 24 Vdc motor, control unit with slowdown, electric limit switch. With night light function included	14,5kg	36
	KSUN11024KR	Kit for sliding gates up to 1100 kg, 24 Vdc motor, control unit with slowdown, electric limit switch	14,3kg	36

24 Vdc KIT COMPONENTS

						
	ECLIPSE (1 pc)	RX4X (1 pc)	FT32 (1 pc)	SUB-44WR (2 pcs)	SUB-44R (2 pcs)	TS (1 pc)
KSUN4024ER	●	●	●	●		●
KSUN4024KR		●	●		●	●
KSUN7024ER	●	●	●	●		●
KSUN7024KR		●	●		●	●
KSUN11024ER	●	●	●	●		●
KSUN11024KR		●	●		●	●

ACCESSORIES

						
<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>CREM-8</b> M4 iron toothed rack 30x8 mm L=1000 mm	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm	<b>KBP</b> Battery back-up kit	<b>999LED</b> Pair of led lights neutral white	<b>SEL-M</b> Key selector, metal front, plastic back	<b>SEL-EU</b> Key selector with European cilinder, metal front and back
PC 1	PC 1	PC 1	PC 1	PCS 2	PC 1	PC 1
						
<b>DY</b> Display module Cable lenght 20 cm (only 14A)	<b>DYL</b> Display module Cable lenght 120 cm (only 14A)					
PC 1	PC 1					

# SUN 4224

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 400 Kg, 24 Vdc



## PLUS



High technological materials resistant to weather conditions

UV-resistant plastic covers

Extremely silent mechanics, protected by robust die-casted and powder-coated aluminum body

The release system is ergonomic, efficient and easily accessible

Back-up battery (optional) on board

Gear reduction with extra-large bearing with high performance

With 24 Vdc control unit CT102 24 (pag. 128 for technical details)



Manual unlock with lever



CT102 24 control board



Robust gear reduction with self-standing bearing



Stylish design screwless at sight




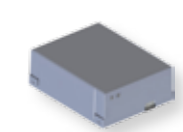

MODELS

CODE	DESCRIPTION	PCS PALLET
SUN4224	For sliding gates up to 400 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with CT102 24 control board (1 pc)	36

TECHNICAL DATA		SUN4224
MECHANICAL DATA		
speed	cm/s	25*
torque	Nm	13
working cycle	%	80
ELECTRICAL DATA		
control board		CT102 24
power	Vac (Vdc)	230 (24)
motor consumption	A	1,1
absorbed power	W	250
capacitor	µF	-
thermoprotection	°C	-
integrated lights		-
GENERIC DATA		
protection degree	IP	44
dimensions (L - D - H)	mm	330 - 205 - 300
weight	kg	12
working temperature	°C	-20 + 55
gate maximum weight	Kg	400

\* variable according to the gate weight

ACCESSORIES

				
<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>CREM-8</b> M4 iron toothed rack 30x8 mm L=1000 mm	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm	<b>KBP</b> Battery back-up kit	<b>TS</b> Warning board
PC 1	PC 1	PC 1	PC 1	PC 1

# SUN 230 Vac

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 1200 Kg, 230 Vac



## PLUS



High technological materials resistant to weather conditions

UV-resistant plastic covers

Extremely silent mechanics, protected by robust die-casted and powder-coated aluminum body

The release system is ergonomic, efficient and easily accessible

Back-up battery (optional) on board

Gear reduction with extra-large bearing with high performance

With 24 Vdc control unit CT102 (pag. 130 for technical details)



Manual unlock with lever



CT102 control board



Robust gear reduction with self-standing bearing




Stylish design screwless at sight

MODELS

CODE	DESCRIPTION	PCS PALLET
SUN50	For sliding gates up to 500 Kg, 230 Vac motor, control unit with slowdown and electric limit switch, with CT102 control board (1 pc)	36
SUN80	For sliding gates up to 800 Kg, 230 Vac motor, control unit with slowdown and electric limit switch, with CT102 control board (1 pc)	36
SUN120	For sliding gates up to 1200 Kg, 230 Vac motor, control unit with slowdown and electric limit switch, with CT102 control board (1 pc)	36


TECHNICAL DATA		SUN50	SUN80	SUN120
MECHANICAL DATA				
speed	cm/s	16	16	16
torque	Nm	16	23	35
working cycle	%	30	30	30
ELECTRICAL DATA				
control board		CT102	CT102	CT102
power	Vac (Vdc)	230	230	230
motor consumption	A	1,3	1,9	2,6
absorbed power	W	300	450	600
capacitor	µF	12,5	16	20
thermoprotection	°C	150	150	150
integrated lights		-	-	-
GENERIC DATA				
protection degree	IP	44	44	44
dimensions (L - D - H)	mm	330 - 205 - 300	330 - 205 - 300	330 - 205 - 300
weight	kg	15,5	16	16,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
gate maximum weight	Kg	500	800	1200

ACCESSORIES




**CREM-P**  
M4 nylon toothed rack L=1000 mm for gates up to max 800 kg

PC 1




**CREM-8**  
M4 iron toothed rack 30x8 mm L=1000 mm

PC 1



**CREM-12**  
M4 iron toothed rack 30x12 mm L=1000 mm

PC 1



**TS**  
Warning board

PC 1

# SUN KIT

FOR SLIDING GATES UP TO 400 Kg, 24 Vdc AND UP TO 1200 Kg, 230 Vac



SUN4224 (1 pc)  
SUN50 (1 pc)  
SUN80 (1 pc)  
SUN120 (1 pc)

## PLUS

With slowdown function both in opening and closing to preserve gate integrity

Conceived to carry intensive use (24 Vdc version)

New water resistant SUB remote control included (24 Vdc version)

New PLAY remote control included (230 Vac version)

CT102 24 control unit (24 Vdc version)

CT102 control unit (230 Vac version)

### SUN KIT 24 Vdc

CODE	DESCRIPTION	WEIGHT	PCS PALLET
KSUN4224KR	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit with slowdown, electric limit switch	12,9kg	36

### SUN KIT 230 Vac

CODE	DESCRIPTION	WEIGHT	PCS PALLET
KSUN52ER	Kit for sliding gates up to 500 kg, 230 Vac motor, control unit with slowdown, electric limit switch	17kg	36
KSUN52KR	Kit for sliding gates up to 500 kg, 230 Vac motor, control unit with slowdown, electric limit switch	16,8kg	36
KSUN82ER	Kit for sliding gates up to 800 kg, 230 Vac motor, control unit with slowdown, electric limit switch	17,5kg	36
KSUN82KR	Kit for sliding gates up to 800 kg, 230 Vac motor, control unit with slowdown, electric limit switch	17,3kg	36
KSUN122ER	Kit for sliding gates up to 1200 kg, 230 Vac motor, control unit with slowdown, electric limit switch	18kg	36
KSUN122KR	Kit for sliding gates up to 1200 kg, 230 Vac motor, control unit with slowdown, electric limit switch	17,8kg	36

## 24 Vdc KIT COMPONENTS



RX4X (1 pc)



FT32 (1 pc)



PLAY4R (2 pcs)



TS (1 pc)

KSUN4224KR



## 230 Vac KIT COMPONENTS



LUMY-230E (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



SUB-44R (2 pc)



TS (1 pc)

KSUN52ER



KSUN52KR



KSUN82ER



KSUN82KR



KSUN122ER



KSUN122KR



## ACCESSORIES



### CREM-P

M4 nylon toothed rack L=1000 mm for gates up to max 800 kg

PC 1



### CREM-8

M4 iron toothed rack 30x8 mm L=1000 mm

PC 1



### CREM-12

M4 iron toothed rack 30x12 mm L=1000 mm

PC 1



### SEL-M

Key selector, metal front, plastic back

PC 1



### SEL-EU

Key selector with European cilinder, metal front and back

PC 1

# TURBO 30

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 300 Kg, 24 Vdc



## PLUS

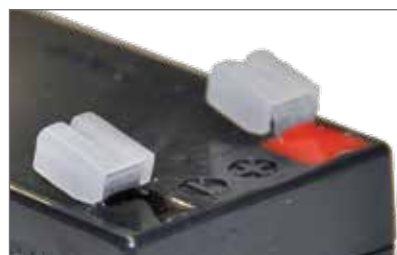


With slowdown function both in opening and closing to preserve gate integrity

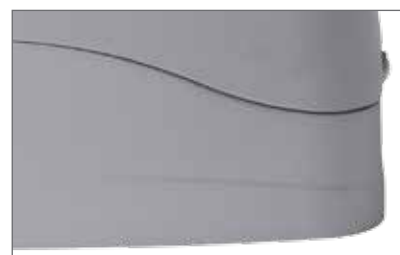
Electronic and mechanical parts well protected from external agents

Easy maintenance thanks to the horizontal control unit position

With fixing plate included



Internal battery back-up optional



Hidden external case fixing




Compact dimensions



Magnetic limit switch

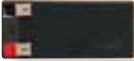




MODELS

CODE	DESCRIPTION	PCS PALLET
 SC-30CSM	For sliding gates up to 300 Kg, 24 Vdc motor, control unit with slowdown and magnetic limit switch (1 pc)	36

TECHNICAL DATA		SC-30CSM
MECHANICAL DATA		
speed	cm/s	20*
torque	Nm	10
working cycle	%	50
ELECTRICAL DATA		
control board		CT-24M
power	Vac (Vdc)	230 (24)
motor consumption	A	1,1
absorbed power	W	250
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	253 - 170,5 - 240
weight	kg	9
working temperature	°C	-20 + 55
gate maximum weight	Kg	300

\* variable according to the gate weight

ACCESSORIES

				
<b>BAT-12</b> Battery 12 V 1.3 A	<b>CABAT-30</b> Battery charger for 24 Vdc motors	<b>RXI23X</b> 2 channels plug-in receiver, fix or rolling code	<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>TS</b> Warning board
PC1	PC 1	PC 1	PC 1	PC 1

# TURBO KIT

FOR SLIDING GATES UP TO 300 Kg, 24 Vdc



TURBO 30 (1 pc)

## PLUS


With slowdown function both in opening and closing to preserve gate integrity

Easy maintenance thanks to the horizontal control unit position

With fixing plate included

Conceived to carry intensive use

New PLAY remote control included

TURBO KIT				
CODE	DESCRIPTION		WEIGHT	PCS PALLET
 KIT-433KR	Kit for sliding gates up to 300 kg, 24 Vdc motor, control unit with slowdown, magnetic limit switch		8,56kg	36

KIT COMPONENTS



RXI23X (1 pc)



FT32 (1 pc)



PLAY4R (2 pcs)



TS (1 pc)

KIT-433KR



ACCESSORIES



**BAT-12**  
Battery 12 V 1.3 A

PC1



**CABAT-30**  
Battery charger  
for 24 Vdc motors

PC 1



**CREM-P**  
M4 nylon toothed  
rack L=1000 mm  
for gates up to  
max 800 kg

PC 1



**SEL-M**  
Key selector, metal  
front, plastic back

PC 1



**SEL-EU**  
Key selector with  
European cilinder,  
metal front and  
back

PC 1



**LUMY-24**  
Flash light

PC 1

# TURBO 50/80

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES FROM 500 Kg TO 800 Kg, 230 Vac



## PLUS



With slowdown function both in opening and closing to preserve gate integrity

Electronic and mechanical parts well protected from external agents

Easy maintenance thanks to the horizontal control unit position

With fixing plate included

With 230 Vac control unit CT102 (pag. 130 for technical details)



LCD display



Sturdy and performing motors








High quality ball bearing

MODELS

CODE	DESCRIPTION	PCS PALLET
SC52	For sliding gates up to 500 Kg, 230 Vac motor, control unit with slowdown and electric limit switch (1 pc)	36
SC82	For sliding gates up to 800 Kg, 230 Vac motor, control unit with slowdown and electric limit switch (1 pc)	36

TECHNICAL DATA		SC52	SC82
MECHANICAL DATA			
speed	cm/s	16	16
torque	Nm	16	23
working cycle	%	30	30
ELECTRICAL DATA			
control board		CT102	CT102
power	Vac (Vdc)	230	230
motor consumption	A	1,3	1,9
absorbed power	W	300	450
capacitor	µF	12,5	16
thermoprotection	°C	150	150
GENERIC DATA			
protection degree	IP	44	44
dimensions (L - D - H)	mm	320 - 184 - 260	320 - 184 - 260
weight	kg	12	12,5
working temperature	°C	-20 + 55	-20 + 55
gate maximum weight	Kg	500	800

ACCESSORIES

				
<b>CPHSC-50</b> Rised fixing plate	<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>CREM-8</b> M4 iron toothed rack 30x8 mm L=1000 mm	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm (for SC82)	<b>TS</b> Warning board
PC 1	PC 1	PC 1	PC 1	PC 1

# TURBO KIT

FOR SLIDING GATES FROM 500 Kg TO 800 Kg, 230 Vac



TURBO 50/80 (1 pc)

## PLUS

With slowdown function both in opening and closing to preserve gate integrity

Electronic and mechanical parts well protected from external agents

Easy maintenance thanks to the horizontal control unit position

With fixing plate included

New PLAY remote control included

TURBO KIT				
CODE	DESCRIPTION	WEIGHT	PCS PALLET	
KSC52KR	Kit for sliding gates up to 500 kg, 230 Vac motor, control unit with slowdown, electric limit switch	13,5kg	36	
KSC82KR	Kit for sliding gates up to 800 kg, 230 Vac motor, control unit with slowdown, electric limit switch	13,3kg	36	

KIT COMPONENTS

				
	RX4X (1 pc)	FT32 (1 pc)	PLAY4R (2 pcs)	TS (1 pc)
KSC52KR	●	●	●	●
KSC82KR	●	●	●	●

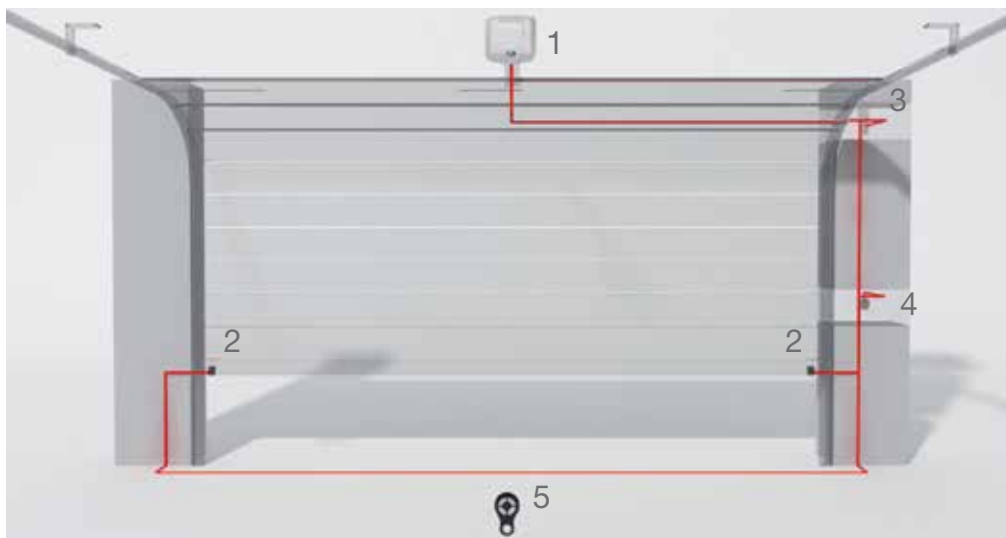
ACCESSORIES

						
<b>CPHSC-50</b> Rised fixing plate	<b>CREM-P</b> M4 nylon toothed rack L=1000 mm for gates up to max 800 kg	<b>CREM-8</b> M4 iron toothed rack 30x8 mm L=1000 mm	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm (for SC82)	<b>SEL-M</b> Key selector, metal front, plastic back	<b>SEL-EU</b> Key selector with European cilinder, metal front and back	<b>LUMY-230E</b> Flash light
PC 1	PC 1	PC 1	PC 1	PC 1	PC 1	PC1

# SELECTION GUIDE

## SYSTEM FOR SECTIONAL AND OVERHEAD DOORS

VIPER LED	GEAR MOTOR FOR SECTIONAL DOORS UP TO 16 m² AND OVERHEAD DOORS UP TO 14 m²	24 V, intensive use, single piece rail	VIP7U (up to 10 mq)
		24 V, intensive use, 3 pieces rail	VIP7 (up to 10 mq)
		24 V, intensive use, single piece rail	VIP10U (up to 13 mq)
		24 V, intensive use, 3 pieces rail	VIP10 (up to 13 mq)
		24 V, intensive use, single piece rail	VIP104 (up to 16 mq)
BLINDO	GEAR MOTOR FOR SPRING OR COUNTERWEIGHT OVERHEAD DOORS UP TO 9 m²	230 V, normal use	BS52
		24 V, intensive use	BS5224



#### STANDARD INSTALLATION FOR SECTIONAL DOORS

- 1 Gear motor
- 2 Photocells
- 3 Flashing light
- 4 Key switch
- 5 Radio transmitter

NEW

# VIPER LED

ELECTROMECHANICAL GEAR MOTOR FOR SECTIONAL DOORS UP TO 16 m<sup>2</sup>  
AND OVERHEAD DOORS UP TO 14 m<sup>2</sup>, 24 Vdc



## PLUS



- 24 Vdc motor to offer full safety for residential use
- New control board suitable for LED KIT integrability
- One or three pcs pre-assembled guide with chain
- Adjustable motor head
- Courtesy light setting
- Battery back-up (optional in case of power failure)
- New built-in led courtesy light



Compact release carriage



Anti-intrusion function








Adjustable motor head



Safe and silent functioning thanks to chain transmission

## MODELS

CODE	DESCRIPTION	PCS PALLET
 VIP7U	For sectional doors up to 10 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 700 N force and pre-assembled single piece chain rail 3320 mm (1 pc)	70 (only head)
 VIP7	For sectional doors up to 10 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 700 N force and three pieces chain rail with fast joints (1 pc)	36
 VIP10U	For sectional doors up to 13 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 1000 N force and pre-assembled single piece chain rail 3320 mm (1 pc)	70 (only head)
 VIP10	For sectional doors up to 13 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 1000 N force and three pieces chain rail with fast joints (1 pc)	36
 VIP104	For sectional doors up to 16 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 1000 N force and pre-assembled single piece chain rail 4000 mm (1 pc)	70 (only head)

TECHNICAL DATA		VIP7U/VIP7	VIP10U/VIP10	VIP104
<b>MECHANICAL DATA</b>				
speed	cm/s	12	12	12
pulling force	N	700	1000	1000
working cycle	%	60	60	60
<b>ELECTRICAL DATA</b>				
power	Vac (Vdc)	230 (24)	230 (24)	230 (24)
motor consumption	A	4,16	6,66	6,66
absorbed power	W	100	160	160
integrated lights		yes	yes	yes
<b>GENERIC DATA</b>				
protection degree	IP	43	43	43
dimensions (L - P - H)	mm	200 - 370 - 155	200 - 370 - 155	200 - 370 - 155
weight	kg	13	13,5	16
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
door maximum dimensions	m <sup>2</sup>	10	13	16

Data are subject to smoothness and balance of the door and the type of rail used

### LIMIT USE

Sectional	Up and over	No projecting up and over
-----------	-------------	---------------------------

### VIP7U/VIP7

H max = 2,7 m	H max = 3 m	H max = 2,5 m
m <sup>2</sup> max = 10 m <sup>2</sup>	m <sup>2</sup> max = 9 m <sup>2</sup>	m <sup>2</sup> max = 9 m <sup>2</sup>

### VIP10U/VIP10

H max = 2,7 m	H max = 3 m	H max = 2,5 m
m <sup>2</sup> max = 13 m <sup>2</sup>	m <sup>2</sup> max = 14 m <sup>2</sup>	m <sup>2</sup> max = 14 m <sup>2</sup>

### VIP104

H max = 3,4 m	H max = 3,4 m	H max = 3,2 m
m <sup>2</sup> max = 16 m <sup>2</sup>	m <sup>2</sup> max = 14 m <sup>2</sup>	m <sup>2</sup> max = 14 m <sup>2</sup>

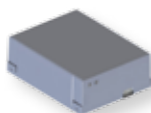
## ACCESSORIES



### BO-SEZ

Swinging arm for counterweight overhead doors

PC 1



### KBP

Battery back-up kit

PC 1



### SBCO

External unlocking system L=3000 mm

PC 1



### SBLST

Kit for external unlock with key and metal cord

PC 1



### STF-SEZ

Kit supplementary fixing ceiling guide

PC 1



### STS-SEZ

Kit 2 supplementary fixing clamps

PCS 2



### 520STAF029A00

Fixing clamp

PC 1



**TS**  
Warning board

PC 1

### LED KIT

KIT TO LIGHT UP THE GARAGE DOOR



**QUADRO**  
Night sensor

+



**VIP1**  
Main board for led lights control

+



**KSTIKFW**  
Pair of led garden lights (white color)

= **KVIPLEDFW**  
PC 1

**NEW**

**KSTIKFB**  
Pair of led garden lights (brown color)

= **KVIPLEDFB**  
PC 1

NEW

# VIPER LED KIT

FOR SECTIONAL DOORS UP TO 16 m<sup>2</sup> AND OVERHEAD DOORS UP TO 14 m<sup>2</sup>, 24 Vdc



VIP7U - VIP7  
VIP10U - VIP10 (1 pc)

## PLUS

24 Vdc motor to offer full safety for residential use

New control board suitable for LED KIT integrability

One or three pcs pre-assembled guide with chain

Adjustable motor head





Courtesy light setting

Battery back-up (optional in case of power failure)

New built-in led courtesy light

New PLAY remote control included

### VIPER LED KIT

CODE	DESCRIPTION	WEIGHT	PCS PALLET
 KVIP7UER	For sectional doors up to 10 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 700 N force and pre-assembled single piece chain rail 3320 mm	12kg	70 (only head)
 KVIP7ER	For sectional doors up to 10 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 700 N force and three pieces chain rail with fast joints	12kg	36
 KVIP10UER	For sectional doors up to 13 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 1000 N force and pre-assembled single piece chain rail 3320 mm	12kg	70 (only head)
 KVIP10ER	For sectional doors up to 13 m <sup>2</sup> , 24 Vdc motor, control unit and built-in receiver, 1000 N force and three pieces chain rail with fast joints	12kg	36

KIT COMPONENTS



PLAY4R (2 pcs)



SINGLE PIECE RAIL 3,3 m



RAIL IN 3 PCS (tot 3,3m)



HEAD (1 pc)

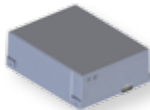
KVIP7UER	●	●		●
KVIP7ER	●		●	●
KVIP10UER	●	●		●
KVIP10ER	●		●	●

ACCESSORIES



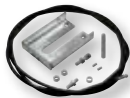
**BO-SEZ**  
Swinging arm for counterweight overhead doors

PC 1



**KBP**  
Battery back-up kit

PC 1



**SBCO**  
External unlocking system L=3000 mm

PC 1



**SBLST**  
Kit for external unlock with key and metal cord

PC 1



**STF-SEZ**  
Kit supplementary fixing ceiling guide

PC 1



**STS-SEZ**  
Kit 2 supplementary fixing clamps

PCS 2



**520STAF029A00**  
Fixing clamp

PC 1



**ECLIPSE**  
Led flash light with courtesy light

PC 1



**LUMY-24**  
Flash light

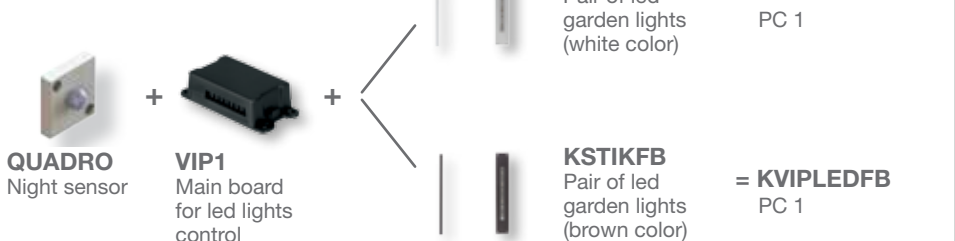
PC 1



**TS**  
Warning board

PC 1

**LED KIT**  
KIT TO LIGHT UP THE GARAGE DOOR



NEW

# BLINDO

ELECTROMECHANICAL GEAR MOTOR FOR SPRING OR COUNTERWEIGHT OVERHEAD DOORS  
UP TO 9 m², 24 Vdc AND 230 Vac



## PLUS



230 Vac motor, with pre-installed opening and closing limit switches

24 Vdc motor with encoder

External release for easy manual unlock from outside

With slowdown function, granting doors integrity

With 24 Vdc control unit CT102 24, (pag. 128 for technical details)

With 230 Vac control unit CT102, (pag. 130 for technical details)




Gearbox with metal gears



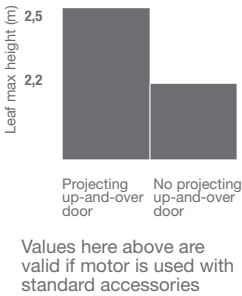
High precision limit switches

## MODELS










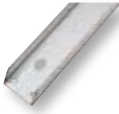
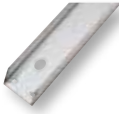
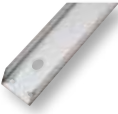
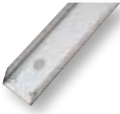



CODE	DESCRIPTION	PCS PALLET
BS52	For spring or counterweight overhead doors up to 9 m², 230 Vac motor, control unit and slowdown, with opening and closing limit switches. With internal release system and pre set for unlocking from outside (1 pc)	40
 BS5224	For spring or counterweight overhead doors up to 9 m², 24 Vdc motor, control unit, with encoder and slowdown. With release system and pre set for unlocking from outside (1 pc)	40

TECHNICAL DATA		BS52	BS5224
<b>MECHANICAL DATA</b>			
torque	Nm	350	350
working cycle	%	30	80
<b>ELECTRICAL DATA</b>			
control board		CT102	CT102 24
power	Vac (Vdc)	230	230 (24)
motor consumption	A	1,5	6
absorbed power	W	340	150
capacitor	µF	12,5	-
thermoprotection	°C	150	150
integrated lights		yes	yes
<b>GENERIC DATA</b>			
protection degree	IP	43	43
dimensions (L - D - H)	mm	190 - 140 - 580	190 - 140 - 580
weight	kg	10,3	10
working temperature	°C	-20 + 55	-20 + 55
door maximum dimensions	m²	9	9

LIMIT USE



ACCESSORIES

						
<b>BC</b> Standard curved telescopic arm	<b>BCBOC</b> Curved telescopic arm with welded bushing	<b>BCNS</b> Curved telescopic arm with drilller round bar to avoid welding pipes	<b>BD</b> Straight telescopic arm	<b>BDBOC</b> Straight telescopic arm with welded bushing	<b>BDNS</b> Straight telescopic arm with drilller round bar to avoid welding pipes	<b>BOC</b> Bushing
PC 1	PCS 2	PCS 2	PC 1	PCS 2	PC 1	PC 1
						
<b>SBCO</b> External unlocking system L=3000 mm	<b>SBLST</b> Kit for external unlock with key and metal cord	<b>ST-650</b> Motor support bracket L=650 mm	<b>ST-1200</b> Motor support bracket L=1200 mm	<b>ST-1600</b> Motor support bracket L=1600 mm	<b>ST-1800</b> Motor support bracket L=1800 mm	<b>TZ-1500</b> 1500 mm long drive shaft, complete with supports
PC 1	PC 1	PC 1	PC 1	PC 1	PC 1	PCS 2
						
<b>TZ-2000</b> 2000 mm long drive shaft, complete with supports	<b>TS</b> Warning board					
PCS 2	PC 1					

# BLINDO KIT

FOR OVERHEAD DOORS UP TO 9 m<sup>2</sup>, 230 Vac



BS52 (1 pc)

## PLUS

- 230 Vac motor, with pre-installed opening and closing limit switch
- External release for easy manual unlock from outside
- With slowdown function, granting doors integrity
- New water resistant SUB remote control included

BLINDO KIT			
CODE	DESCRIPTION	WEIGHT	PCS PALLET
KBS52ER	Kit for spring and counterweight overhead doors up to 9 m <sup>2</sup> , 230 Vac motor, control unit with slowdown function	23,7kg	18+9

## KIT COMPONENTS



LUMY-230E (1 pc)



RX4X (1 pc)



FT32 (1 pc)



SUB-44WR (2 pcs)



BDNS (2 pcs)



ST-650 (1 pc)



TZ-1500 (2 pcs)

KBS52ER



## ACCESSORIES



**BC**  
Standard curved  
telescopic arm

PC 1



**BCBOC**  
Curved telescopic  
arm with welded  
bushing

PCS 2



**BCNS**  
Curved telescopic  
arm with driller  
round bar to avoid  
welding pipes

PCS 2



**BD**  
Straight telescopic  
arm

PC 1



**BDBOC**  
Straight telescopic  
arm with welded  
bushing

PCS 2



**BOC**  
Bushing

PC 1



**SBCO**  
External unlocking  
system  
L=3000 mm

PC 1



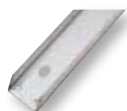
**SBLST**  
Kit for external  
unlock with key  
and metal cord

PC 1



**ST-1200**  
Motor support  
bracket  
L=1200 mm

PC 1



**ST-1600**  
Motor support  
bracket  
L=1600 mm

PC 1



**ST-1800**  
Motor support  
bracket  
L=1800 mm

PC 1



**TZ-2000**  
2000 mm long  
drive shaft,  
complete with  
supports

PC 1



**SEL-M**  
Key selector, metal  
front, plastic back

PC 1



**SEL-EU**  
Key selector with  
European cylinder,  
metal front and  
back

PC 1



**TS**  
Warning board

PC 1



SYSTEMS FOR SWING GATES	72
STAR 500	74
SYSTEMS FOR SLIDING GATES	76
TURBO 160	78
TURBO 200	80
TURBO 400	82
ELECTROMECHANICAL BARRIERS	84
ALT 424K / ALT 624K	86
ALT 424 / ALT 624	88
ACCESSORIES	90
SYSTEMS FOR ROLLING SHUTTERS	92
SHARP 60 / 60BM	94
SHARP 76 / 76BM	96
SYSTEMS FOR SLIDING GLASS DOORS	98
WIND	100
WIND LIGHT	106

# SELECTION GUIDE

## SYSTEM FOR SWING GATES

### STAR 500

GEAR MOTOR  
FOR LEAVES UP TO 5 m

230 V, normal use

PS-400FA

230 V, normal use, reversible

PS-400FA-R

230 V, intensive use, irreversible

PS400-24FA



#### STANDARD INSTALLATION FOR SWING GATES

- 1 Post for photocells
- 2 Gear motor
- 3 Photocells
- 4 Flashing light
- 5 Key switch
- 6 Radio transmitter

# STAR 500

ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES WITH LEAVES UP TO 5 m, 24 Vdc AND 230 Vac



## PLUS



Opening mechanical limit switch to control your gate movement

Double bearing on the main screw to grant robustness and movement fluidity

Easy mechanical release

Mechanical parts well protected from external agents

Compatible with 24 Vdc control unit 14AB2, (pag. 126 for technical details)

Compatible with 230 Vac control unit CT202, (pag. 131 for technical details)



Robust bronze lock nut on endless screw



Easy mechanical release



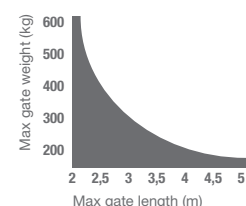
Double bearing on the main screw to grant robustness and movement fluidity

## MODELS

CODE	DESCRIPTION	PCS PALLET
PS-400FA	For swing gates with maximum length 5 m, 230 Vac motor, with opening mechanical stop (1 pc)	25
PS-400FA-R	For swing gates with maximum length 5 m, 230 Vac motor, with opening mechanical stop, reversible (1 pc)	25
PS400-24FA	For swing gates with maximum length 5 m, 24 Vdc motor, with opening mechanical stop, irreversible, with encoder (1 pc)	25

TECHNICAL DATA		PS-400FA	PS-400FA-R	PS400-24FA
<b>MECHANICAL DATA</b>				
speed	cm/s	1,4	1,4	2,7
pulling force	N	1700	1300	1300
working cycle	%	30	30	30
opening time at 90°	sec	24	24	24
<b>ELECTRICAL DATA</b>				
control board		CT202	CT202	14AB2
power	Vac (Vdc)	230	230	(24)
motor consumption	A	1,1	1,1	5
absorbed power	W	250	250	120
capacitor	µF	10	10	-
thermoprotection	°C	150	150	-
<b>GENERIC DATA</b>				
protection degree	IP	44	44	44
dimensions (L - P - H)	mm	995 - 108 - 110	995 - 108 - 110	995 - 108 - 110
weight	kg cad	9,5	9,5	9,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
leaves maximum weight	Kg	600	600	600

### LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

## ACCESSORIES



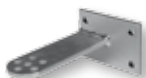
**ELS-C**  
Horizontal 12 V  
electrolock

PC 1



**FC-PS**  
Mechanical  
closing stop

PC 1



**STPOAVS**  
Rear welded  
bracket

PC 1



**STANAV**  
Front welded  
bracket

PC 1



**14AB2**  
Control unit in box  
for two 24 Vdc  
motors

PC 1



**CT202**  
Control unit in box  
for two 230 Vac  
motors

PC 1



**TS**  
Warning board

PC 1

# SELECTION GUIDE

## SYSTEMS FOR SLIDING GATES

TURBO 160	GEAR MOTOR FOR GATES UP TO 1600 Kg	230 V, normal use, up to 1600 Kg	SC162
		electric limit switch	
TURBO 200	GEAR MOTOR FOR GATES UP TO 2500 Kg	230 V, intensive use, up to 2000 Kg	SC202MHD
		magnetic limit switch	
		230 V, normal use, up to 2500 Kg	SC252M
		magnetic limit switch	
TURBO 400	GEAR MOTOR FOR GATES UP TO 4000 Kg	400 V, normal use, up to 4000 Kg	SC400M
		magnetic limit switch	



#### STANDARD INSTALLATION FOR SLIDING GATES

- 1 Post for photocells
- 2 Gear motor
- 3 Photocells
- 4 Flashing light
- 5 Key switch
- 6 Radio transmitter

# TURBO 160

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 1600 Kg, 230 Vac



## PLUS



With slowdown function both in opening and closing to preserve gate integrity

Electronic and mechanical parts well protected from external agents

Easy maintenance thanks to the horizontal control unit position

With fixing plate included

With 230 Vac control unit CT102 (pag. 130 for technical details)



LCD display



Bronze gears



Sturdy and performing motors

MODELS

CODE	DESCRIPTION	PCS PALLET
SC162	For sliding gates up to 1600 Kg, 230 Vac motor, control unit with slowdown and electric limit switch (1 pc)	36

TECHNICAL DATA		SC162
MECHANICAL DATA		
speed	cm/s	16
torque	Nm	40
working cycle	%	30
ELECTRICAL DATA		
control board		CT102
power	Vac (Vdc)	230
motor consumption	A	3
absorbed power	W	700
capacitor	µF	20
thermoprotection	°C	150
GENERIC DATA		
protection degree	IP	44
dimensions (L - D - H)	mm	320 - 184 - 260
weight	kg	14,5
working temperature	°C	-20 + 55
gate maximum weight	Kg	1600

ACCESSORIES



**CPHSC-50**  
Rised fixing plate

PC 1



**CREM-12**  
M4 iron toothed  
rack 30x12 mm  
L=1000 mm

PC 1



**TS**  
Warning board

PC 1

# TURBO 200

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 2500 Kg, 230 Vac



## PLUS



With slowdown function both in opening and closing to preserve gate integrity

Electronic and mechanical parts well protected from external agents

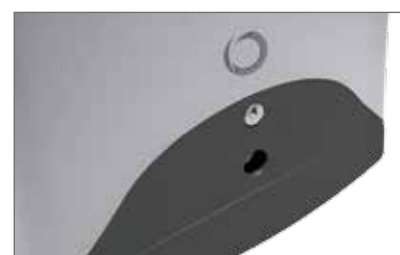
Easy maintenance thanks to the horizontal control unit position

New heavy duty version with cooling fan for higher intensity of use

With 230 Vac control unit CT102 (pag. 130 for technical details)



Hidden external case fixing



Aluminum polished base and raised fixing plate



Cooling fan (SC202MHD) for intensive use



Sturdy and performing motors

MODELS

CODE	DESCRIPTION	PCS PALLET
SC202MHD	For sliding gates up to 2000 Kg, 230 Vac motor, control unit with slowdown and magnetic limit switch. M4 pinion. Intensive use (1 pc)	16
SC252M	For sliding gates up to 2500 Kg, 230 Vac motor, control unit with slowdown and magnetic limit switch. M4 pinion (1 pc)	16

TECHNICAL DATA		SC202MHD	SC252M
MECHANICAL DATA			
speed	cm/s	20	20
torque	Nm	57	57
working cycle	%	50/70*	30
ELECTRICAL DATA			
control board		CT102	CT102
power	Vac (Vdc)	230	230
motor consumption	A	4	4
absorbed power	W	580	580
capacitor	µF	25	35
thermoprotection	°C	150	150
GENERIC DATA			
protection degree	IP	44	44
dimensions (L - D - H)	mm	360 - 270 - 390	360 - 270 - 390
weight	kg	25	24
working temperature	°C	-20 + 55	-20 + 55
gate maximum weight	Kg	2000	2500

\* variable according to the gate weight and dimensions

ACCESSORIES

			
<b>480RM6Z12</b> Pinion M6 Z12	<b>CREM-12</b> M4 iron toothed rack 30x12 mm L=1000 mm	<b>CREM-30</b> M6 iron toothed rack 30x30 mm L=1000 mm	<b>TS</b> Warning board
PC 1	PC 1	PC 1	PC 1

# TURBO 400

ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 4000 Kg, 400 Vac



## PLUS



Electronic and mechanical parts well protected from external agents

Easy maintenance thanks to the control unit position

Electric brake, to grants safety also on heaviest installations

With 400 Vac control unit CT-400, see page 135 for technical details



Anti-UV rays coating



Sturdy and high-performing motor

MODELS

CODE	DESCRIPTION	PCS PALLET
SC400M	For sliding gates up to 4000 Kg, 400 Vac motor, control unit with slowdown and magnetic limit switch. M6 pinion (1 pc)	4

TECHNICAL DATA		SC400M
MECHANICAL DATA		
speed	cm/s	17
torque	Nm	180
working cycle	%	50*
ELECTRICAL DATA		
control board		CT-400
power	Vac (Vdc)	400
motor consumption	A	2
absorbed power	W	750
thermoprotection	°C	150
GENERIC DATA		
protection degree	IP	54
dimensions (L - P - H)	mm	520 - 300 - 585
weight	kg	76
working temperature	°C	-20 + 55
gate maximum weight	Kg	4000

\* variable according to the gate weight and dimensions

ACCESSORIES



**CREM-30**  
M6 iron toothed  
rack 30x30 mm  
L=1000 mm

PC 1



**TS**  
Warning board

PC 1

# SELECTION GUIDE

## SYSTEMS FOR ELECTROMECHANICAL BARRIERS

ALT4	BARRIER UP TO 4 m	24 V, intensive use	ALT424
		24 V, intensive use with built-in flashing light	ALT424K
ALT6	BARRIER UP TO 6 m	24 V, intensive use	ALT624
		24 V, intensive use with built-in flashing light	ALT624K



#### STANDARD INSTALLATION FOR ELECTROMECHANICAL BARRIERS

- 1 Post for photocells
- 2 Barrier
- 3 Photocells
- 4 Flashing light
- 5 Key switch
- 6 Radio transmitter

# ALT 4/6

ELECTROMECHANICAL BARRIER WITH DOUBLE BUILT-IN FLASHING LIGHT  
FOR BAR FROM 4 TO 6 m, 24 Vdc



## PLUS



Double spring (6 m model) to counter balance movement and make it more fluent

Anti-UV rays epoxy power coating

Robust gears and levers for reliable functioning over time

Performance increase: 3,5 sec opening time for 4m barrier and 6 sec for 6 m barrier

Encoder for obstacle detection and immediate run inversion

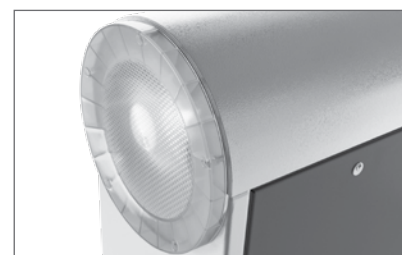
For intensive use, for private and public solutions

Energy saving mode

Universal box: bar can be installed both right or left

Possibility to set different speed in opening and closing motion

With 24 Vdc control unit CT102 24, (pag. 128 for technical details)





Double Led flashing light



Metallic gear + shock resistant motor

## MODELS

CODE	DESCRIPTION	PCS PALLET
 ALT424K	Barrier body, 24 Vdc motor, with control unit in box, with encoder, double built-in led flashing light. For 4 m bar (1 pc)	6
 ALT624K	Barrier body, 24 Vdc motor, with control unit in box, with encoder, double built-in led flashing light. For 6 m bar (1 pc)	5

TECHNICAL DATA		ALT424K	ALT624K
MECHANICAL DATA			
torque	Nm	200	250
working cycle	%	80	80
opening time at 90°	sec	3,5	6/*12
ELECTRICAL DATA			
control board		CT102 24	CT102 24
power	Vac (Vdc)	230 (24)	230 (24)
motor consumption	A	1,3	1,3
absorbed power	W	300	300
integrated lights		yes	yes
GENERIC DATA			
protection degree	IP	54	54
dimensions (L - D - H)	mm	360 - 220 - 1110	450 - 280 - 1188
weight	kg	47	67
working temperature	°C	-20 + 55	-20 + 55
maximum bar lenght	m	4	6 *(8 mt)

\* with 8 m bar

## ACCESSORIES ALT 4K



**AS4**  
Aluminum bar  
L=4000 mm  
di. 60x30 mm

PC 1



**AS-4J**  
2+2 m aluminum  
bar, 60x30x2 with  
joint included

PC 1



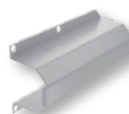
**AS-SNO3**  
Joint for  
articulated rods  
with 3 m aluminum  
bar included. Only  
for ALT424K

PC 1



**AST4**  
Aluminum tubular  
bar L=4000 mm Ø  
60 mm, in case of  
strong wind

PC 1



**ATAST60X**  
Connection for  
round bar Ø 60  
mm

PC 1



**CP-BR**  
Anchorage plate  
with rag bolts

PC 1



**PROF**  
Flexible rubber  
profile, 8 m and  
plug set for AS4

PC 1

## ACCESSORIES ALT 6K



**AS6**  
Aluminum bar  
L=6000 mm  
di. 100 x 40 mm

PC 1



**AS-6J**  
3+3 m aluminum  
bar, 100x40x2 with  
joint included

PC 1



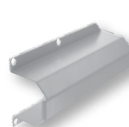
**AST6**  
Aluminum tubular  
bar L=6000 mm Ø  
90 mm, in case of  
strong wind

PC 1



**AST8**  
Round telescopic  
aluminum boom  
L max=9000 mm  
Ø 60/90 mm, with  
counter- weight,  
joints and fixed  
support (not acces.)

PC 1



**ATAST90X**  
Connection for  
round bar Ø 90  
mm

PC 1



**CP-BR6**  
Anchorage plate  
with rag bolts

PC 1



**PROF6**  
Flexible rubber  
profile, 12 m and  
plug set for AS6

PC 1

# ALT 4/6

ELECTROMECHANICAL BARRIER FOR BAR FROM 4 TO 6 m, 24 Vdc



## PLUS



Double spring (6 m model) to counter balance movement and make it more fluent

Anti-UV rays epoxy power coating

Robust gears and levers for reliable functioning over time

Performance increase: 3,5 sec opening time for 4m barrier and 6 sec for 6 m barrier

Encoder for obstacle detection and immediate run inversion

For intensive use, for private and public solutions

Energy saving mode

Universal box: bar can be installed both right or left

Possibility to set different speed in opening and closing motion

With 24 Vdc control unit CT102 24, (pag. 128 for technical details)





Metallic gear + shock resistant motor



Double balance springs for a more fluid movement

## MODELS

CODE	DESCRIPTION	PCS PALLET
 ALT424	Barrier body, 24 Vdc motor, with control unit in box, with encoder. For 4 m bar (1 pc)	6
 ALT624	Barrier body, 24 Vdc motor, with control unit in box, with encoder. For 6 m bar (1 pc)	6

TECHNICAL DATA		ALT424	ALT624
MECHANICAL DATA			
torque	Nm	200	250
working cycle	%	80	80
opening time at 90°	sec	3,5	6/*12
ELECTRICAL DATA			
control board		CT102 24	CT102 24
power	Vac (Vdc)	230 (24)	230 (24)
motor consumption	A	1,3	1,3
absorbed power	W	300	300
GENERIC DATA			
protection degree	IP	54	54
dimensions (L - D - H)	mm	320 - 220 - 1000	400 - 280 - 1051
weight	kg	46	66
working temperature	°C	-20 + 55	-20 + 55
maximum bar lenght	m	4	6 *(8 mt)

\* with 8 m bar

## ACCESSORIES ALT 4



**AS4**  
Aluminum bar  
L=4000 mm  
di. 60x30 mm

PC 1



**AS-4J**  
2+2 m aluminum  
bar, 60x30x2 with  
joint included

PC 1



**AS-SNO3**  
Joint for  
articulated rods  
with 3 m aluminum  
bar included. Only  
for ALT424

PC 1



**AST4**  
Aluminum tubular  
bar L=4000 mm Ø  
60 mm, in case of  
strong wind

PC 1



**ATAST60**  
Connection for  
round bar Ø 60  
mm

PC 1



**CP-BR**  
Anchorage plate  
with rag bolts

PC 1



**PROF**  
Flexible rubber  
profile, 8 m and  
plug set for AS4

PC 1

## ACCESSORIES ALT 6



**AS6**  
Aluminum bar  
L=6000 mm  
di. 100 x 40 mm

PC 1



**AS-6J**  
3+3 m aluminum  
bar, 100x40x2 with  
joint included

PC 1



**AST6**  
Aluminum tubular  
bar L=6000 mm Ø  
90 mm, in case of  
strong wind

PC 1



**AST8**  
Round telescopic  
aluminum boom  
L max=9000 mm  
Ø 60/90 mm, with  
counter- weight,  
joints and fixed  
support (not acces.)

PC 1



**ATAST90**  
Connection for  
round bar Ø 90  
mm

PC 1



**CP-BR6**  
Anchorage plate  
with rag bolts

PC 1



**PROF6**  
Flexible rubber  
profile, 12 m and  
plug set for AS6

PC 1

# ALT 4/6

## ACCESSORIES



**APF**  
Fixed support

PC 1



**APM**  
Mobile support

PC 1



**CT-LIGHT**  
Control unit for KLIGHT

PC 1



**KLIGHT**  
Kit lights

PCS 4



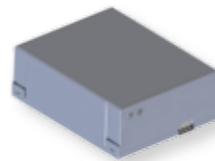
**RIMAE**  
Magnetic sensor, one coil, two outputs  
(impulse and presence)

PC 1



**SKIRT**  
Kit aluminum fence,  
length 1,7 m

PC 1



**KBP**  
Battery back-up kit

PC1



**AD**  
Red reflecting adhesive  
stripes

PCS 10



# SELECTION GUIDE

## SYSTEMS FOR ROLLING SHUTTERS

### SHARP

GEAR MOTOR  
FOR ROLLING SHUTTERS

shaft Ø 42-48-60 mm  
rim 200-220 mm

up to 170 Kg SW6200

up to 170 Kg, with electro-brake SW6200EF

up to 320 Kg SW12200

up to 320 Kg, with electro-brake SW12200EF

shaft Ø 76 mm  
rim 240 mm

up to 180 Kg SW6240E

up to 180 Kg, with electro-brake SW6240EFE

up to 350 Kg SW12240E

up to 350 Kg, with electro-brake SW12240EFE



#### STANDARD INSTALLATION FOR ROLLING SHUTTERS

- 1 Gear motor
- 2 Photocells
- 3 Flashing light
- 4 Key switch
- 5 Radio transmitter

# SHARP 60/60BM

ELECTROMECHANICAL GEAR MOTOR FOR ROLLING SHUTTERS,  
UP TO 320 Kg, 230 Vac, SHAFT 60 mm



## PLUS

Semi-automatic limit switch, easy and intuitive

Excellent performance thanks to noiseless gear motor

Electromagnetic brake version

Smooth reversibility in case of power failure

Low maintenance required with good resistance to wear

With 230 Vac control unit CT1RD, (pag. 134 for technical details)



Limit switch with fast adjustment



Solid and robust design










High performance motors

MODELS

CODE	DESCRIPTION	PCS PALLET
SW6200	Motor for ø 42-48-60 mm shaft, rim ø 200-220 mm, 170 Kg (1 pc)	45
SW6200EF	Motor for ø 42-48-60 mm shaft, rim ø 200-220 mm, 170 Kg. With electro-brake (1 pc)	45
SW12200	Motor for ø 42-48-60 mm shaft, rim ø 200-220 mm, 320 Kg (1 pc)	45
SW12200EF	Motor for ø 42-48-60 mm shaft, rim ø 200-220 mm, 320 Kg. With electro-brake (1 pc)	45

TECHNICAL DATA		SW6200	SW6200EF	SW12200	SW12200EF
MECHANICAL DATA					
speed	rpm	10	10	10	10
torque	Nm	175	175	325	325
working cycle	%	30	30	30	30
ELECTRICAL DATA					
control board		CT1RD	CT1RD	CT1RD	CT1RD
power	Vac (Vdc)	230	230	230	230
motor consumption	A	2,8	2,8	5,6	5,6
absorbed power	W	600	600	1200	1200
capacitor	µF	20	20	35	35
thermoprotection	°C	170	170	170	170
GENERIC DATA					
protection degree	IP	20	20	20	20
dimensions (L - D - H)	mm	350 - Ø 200	350 - Ø 200	350 - Ø 200	350 - Ø 200
weight	kg	8	9	11,5	12,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55

ACCESSORIES

						
<b>ACS W002 A00</b> Shaft adapter Ø 42	<b>B MET</b> Metal box with release system	<b>CT1 RD</b> 230 Vac control unit with integrated receiver. In box	<b>FT22</b> Pair of photocells for external use and flush- mounting (30x28x90 mm)	<b>SEL-M</b> Outdoor key selector	<b>SW-EF</b> Electro-brake with release	<b>TS</b> Warning board
PCS 2	PC 1	PC 1	PCS 2	PC 1	PC 1	PC 1

# SHARP 76/76BM

ELECTROMECHANICAL GEAR MOTOR FOR ROLLING SHUTTERS,  
UP TO 350 Kg, 230 Vac, SHAFT 76 mm



## PLUS

Semi-automatic limit switch, easy and intuitive

Excellent performance thanks to noiseless gear motor

76 mm shaft, single or bi-motor version

Electromagnetic brake version

Smooth reversibility in case of power failure

Low maintenance required with good resistance to wear

With 230 Vac control unit CT1RD, (pag. 134 for technical details)



Solid and robust design






High performance motors

MODELS

CODE	DESCRIPTION	PCS PALLET
SW6240E	Motor for ø 76 mm shaft, rim ø 240 mm, 180 kg (1 pc)	45
SW6240EFE	Motor for ø 76 mm shaft, rim ø 240 mm, 180 Kg. With electro-brake (1 pc)	45
SW12240E	Motor for ø 76 mm shaft, rim ø 240 mm, 350 kg (1 pc)	45
SW12240EFE	Motor for ø 76 mm shaft, rim ø 240 mm, 350 Kg. With electro-brake (1 pc)	45

TECHNICAL DATA		SW6240E	SW6240EFE	SW12240E	SW12240EFE
MECHANICAL DATA					
speed	rpm	8	8	8	8
torque	Nm	185	185	370	370
working cycle	%	30	30	30	30
ELECTRICAL DATA					
control board		CT1RD	CT1RD	CT1RD	CT1RD
power	Vac (Vdc)	230	230	230	230
motor consumption	A	2,8	2,8	5,6	5,6
absorbed power	W	600	600	1200	1200
capacitor	µF	20	20	40	40
thermoprotection	°C	170	170	170	170
GENERIC DATA					
protection degree	IP	20	20	20	20
dimensions (L - D - H)	mm	350 - Ø 240	350 - Ø 240	399 - Ø 240	399 - Ø 240
weight	kg	12	13	16,5	17,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55

ACCESSORIES

					
<b>BMET</b> Metal box with release system	<b>CT1RD</b> 230 Vac control unit with integrated receiver. In box	<b>FT22</b> Pair of photocells for external use and flush-mounting (30x28x90 mm)	<b>SEL-M</b> Outdoor key selector	<b>SW-EFE</b> Electro-brake with release	<b>TS</b> Warning board
PC 1	PC 1	PCS 2	PC 1	PC 1	PC 1

# SELECTION GUIDE

## SYSTEMS FOR SLIDING GLASS DOORS

WIND	SYSTEM FOR SINGLE SLIDING DOOR 160 kg  automation length from 1900 mm to 4200 mm	assembled automation	PA1901K
			PA2101K
			PA2501K
			PA2901K
			PA3301K
			PA3701K
		kit for custom made automation	PA4201K
			PA151K

WIND	SYSTEM FOR DOUBLE SLIDING DOOR 130 + 130 Kg  automation length from 1900 mm to 4200 mm	assembled automation	PA1902K
			PA2102K
			PA2502K
			PA2902K
			PA3302K
			PA3702K
		kit for custom made automation	PA4202K
			PA152K

WIND LIGHT	SYSTEM FOR SINGLE SLIDING DOOR 120 Kg  automation length from 1900 mm to 4200 mm	assembled automation	PA1901LK
			PA2101LK
			PA2501LK
			PA2901LK
			PA3301LK
			PA3701LK
		kit for custom made automation	PA4201LK
			PA151LK

WIND LIGHT	SYSTEM FOR DOUBLE SLIDING DOOR 80 + 80 Kg  automation length from 1900 mm to 4200 mm	assembled automation	PA1902LK
			PA2102LK
			PA2502LK
			PA2902LK
			PA3302LK
			PA3702LK
		kit for custom made automation	PA4202LK
			PA152LK



# WIND

SYSTEM FOR SLIDING DOORS UP TO 160 Kg



## PLUS

### CONTROL UNIT

Equipped with connectors and terminals for the connection of:

- Main power
- Motor power
- Cyclic counter
- Battery
- Electromechanical stop

Possibility to program the door via digital selector with display  
EASY:

Characteristics:

- Visualization of door status mode
- Programming
- Parameters regulation
- Diagnostic
- Parameters control

Self-bearing cover for an easier inspection from outside

External digital keypad to program, select, set-up functions  
without operating on control unit

Manual selector with knob for an easy selection of standard  
functions

Operating status led

Battery charge monitoring

Safety device surveillance

## TECHNICAL DETAILS

### TECHNICAL DATA

#### MECHANICAL DATA

opening speed	cm/s	adjustable max 70 cm/s (for leaf)
closing speed	cm/s	adjustable max 60 cm/s (for leaf)
working cycle	%	100

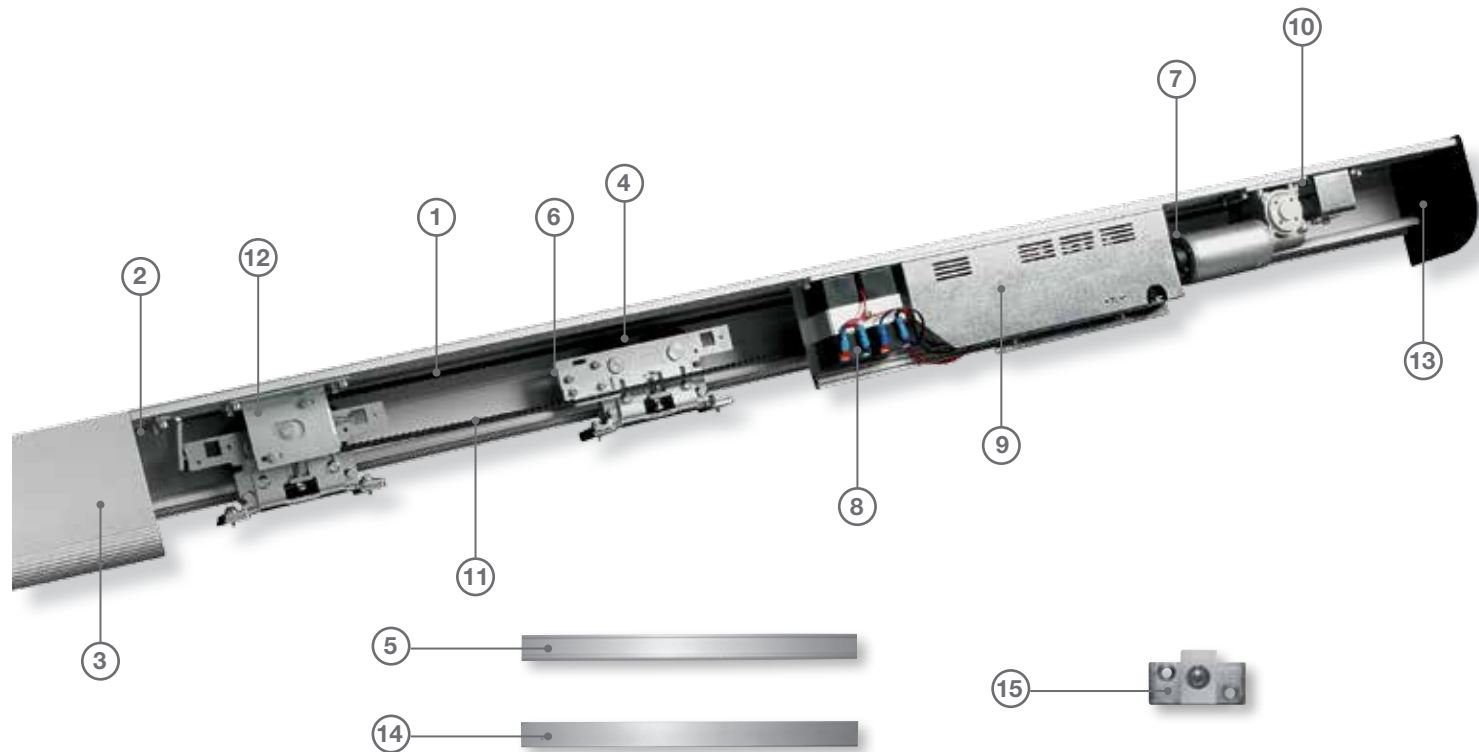
#### ELECTRICAL DATA

control board		CT-PAE
power	Vac (Vdc)	230 50/60 Hz
absorbed power	W	130
opening pause time	sec	adjustable from 0 to 60 seconds
anti-crushing system		standard

#### GENERIC DATA

protection degree	IP	22
bar dimensions (D - H)	mm	150 - 150
working temperature	°C	-20 + 55
max weight 1 leaf	Kg	160
max weight 2 leaves	Kg	130+130

## PART IDENTIFICATION



1. 10 MICRON CHEMICAL SILVER OXIDIZED ALUMINIUM  
BAR

2. MECHANICAL STOP

3. OXIDIZED ALUMINIUM BOX

4. CARRIAGE

5. ADAPTOR (OPTIONAL)

6. TRACTION BRACKETS

7. MOTOR WITH ENCODER

8. EMERGENCY BATTERY UNIT (OPTIONAL)

9. CONTROL UNIT

10. ELECTROMECHANICAL STOP (OPTIONAL)

11. BELT

12. TRANSMISSION PULLEY

13. BOX SIDE PLUG

14. FLOOR GUIDANCE (OPTIONAL)

15. PLATE WITH HINGE AND NYLON BLOCK (OPTIONAL)

## WIND AUTOMATION

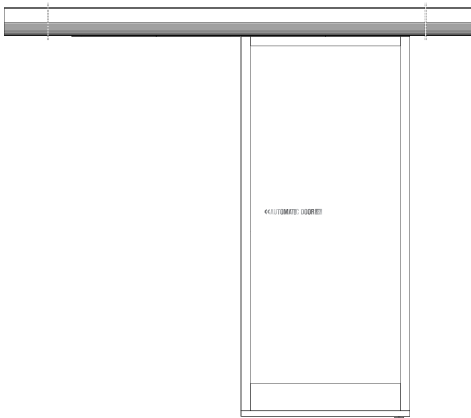
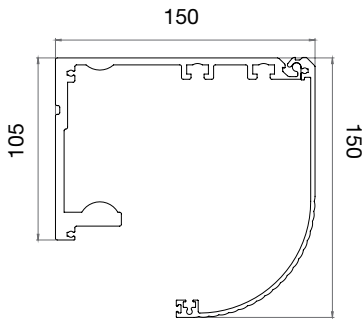
WIND are a new series of straight sliding hi-tech automatic systems for very intensive use, with high technical content and silent operation. They offer many features mixed with quality and reliability and are easy to install and program. WIND offers solutions with appropriate anti-panic break-out devices allowing easy access to escape routes. The complete range offers solutions for all requirements of size, use and weight

### TECHNICAL FEATURES

WIND are provided with a 24 Vdc motor, a microprocessor electronic control panel and an electronic impact-free device with encoder. Control unit learn door weight and stroke length with a simple self learning procedure. The casing is made of aluminum extrusion and, thanks to a special locating hook system, there is the possibility to "hold open" the profile cover without supporting it. Faults are displayed on the selector screen (optional)

# WIND

SYSTEM FOR SINGLE SLIDING DOOR UP TO 160 Kg



## ASSEMBLED AUTOMATION INCLUDES:

CODE	DESCRIPTION	
PA151K	Kit for single leaf (1 pc)	
PA000	Anodized beam profile	
PA001	Anodized cover profile	
PA003	Belt	
600AD-PA	Adhesive automatic door right + left (1 pc)	

## ASSEMBLED AUTOMATION AVAILABLE SIZES

CODE	NOMINAL CLEARANCE ROOM: mm	AUTOMATION LENGTH: mm
PA1901K	900	1900
PA2101K	1000	2100
PA2501K	1200	2500
PA2901K	1400	2900
PA3301K	1600	3300
PA3701K	1800	3700
PA4201K	2000	4200

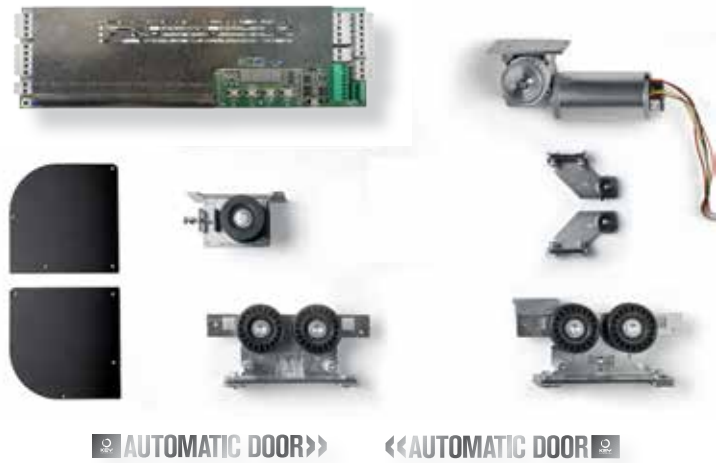
For intermediate size select higher dimension  
when ordering specify right or left opening (installation inside view)

PA151K: CUSTOM MADE AUTOMATION KIT










CODE	DESCRIPTION
PA151K	Kit for single leaf (1 pc)

KIT FOR SINGLE LEAF INCLUDES:

- Motor with encoder 24 Vdc (1 pc)
- Kit door carriages (1 pc)
- Electronic control unit (1 pc)
- Plug set (2 pcs)
- Mechanic limit switch (2 pcs)
- Kit accessories and screws for fixing (1 pc)
- Adhesive automatic door right + left (1 pc)



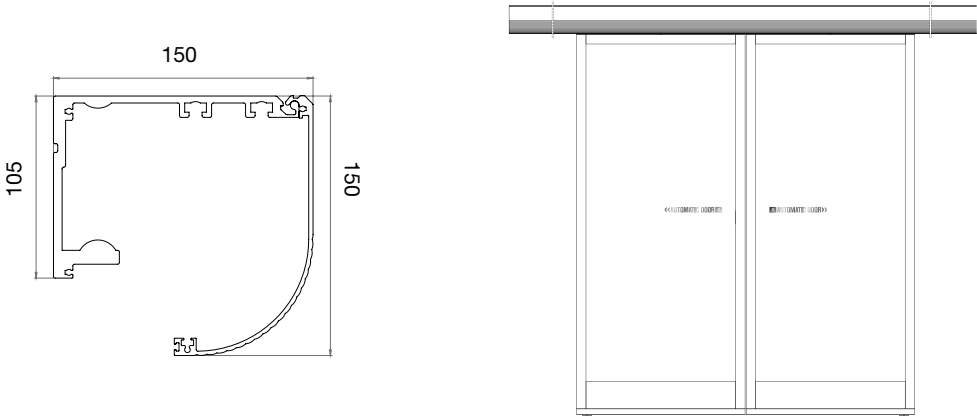
OPTIONAL ELEMENTS

CODE	DESCRIPTION	
PA000	Anodized beam profile	
PA001	Anodized cover profile	
PA003	Belt	
PA020	Upper adaptor profile	
PA021	Floor guidance and track	
PA023	Electric lock kit set-up for installation with cord release PA011 (1 pc)	
PA024	Plate with hinge and nylon block (1 pc)	
PA032	Emergency battery kit 12 V - 1,2A with fixing aluminum support (1 pc)	
SMNP AE	Manual selector	

Accessories for control and security page 112

WIND

SYSTEM FOR DOUBLE SLIDING DOOR UP TO 130+130 Kg



ASSEMBLED AUTOMATION INCLUDES:

CODE	DESCRIPTION	
PA152K	Kit for double leaf (1 pc)	
PA000	Anodized beam profile	
PA001	Anodized cover profile	
PA003	Belt	
600AD-PA	Adhesive automatic door right + left (1 pc)	

ASSEMBLED AUTOMATION AVAILABLE SIZES

CODE	NOMINAL CLEARANCE ROOM: mm	AUTOMATION LENGTH: mm
PA1902K	450+450	1900
PA2102K	500+500	2100
PA2502K	600+600	2500
PA2902K	700+700	2900
PA3302K	800+800	3300
PA3702K	900+900	3700
PA4202K	1000+1000	4200

For intermediate size select higher dimension

PA152K: CUSTOM MADE AUTOMATION KIT










CODE	DESCRIPTION
PA152K	Kit for double leaf (1 pc)

KIT FOR DOUBLE LEAF INCLUDES:

- Motor with encoder 24 Vdc (1 pc)
- Kit door carriages (2 pcs)
- Electronic control unit (1 pc)
- Plug set (2 pcs)
- Mechanic limit switch (2 pcs)
- Kit accessories and screws for fixing (1 pc)
- Adhesive automatic door right + left (1 pc)



OPTIONAL ELEMENTS

CODE	DESCRIPTION	
PA000	Anodized beam profile	
PA001	Anodized cover profile	
PA003	Belt	
PA020	Upper adaptor profile	
PA021	Floor guidance and track	
PA023	Electric lock kit set-up for installation with cord release PA011 (1 pc)	
PA024	Plate with hinge and nylon block (1 pc)	
PA032	Emergency battery kit 12 V - 1,2A with fixing aluminum support (1 pc)	
SMNP AE	Manual selector	

Accessories for control and security page 112

# WIND LIGHT

SYSTEM FOR SLIDING DOOR UP TO 120 Kg



## PLUS

### CONTROL UNIT

Equipped with connectors and terminals for the connection of:

- Main power
- Motor power
- Cyclic counter
- Battery
- Electromechanical stop

Possibility to program the door via digital selector with display  
EASY:

Characteristics:

- Visualization of door status mode
- Programming
- Parameters regulation
- Diagnostic
- Parameters control

Self-bearing cover for an easier inspection from outside

External digital keypad to program, select, set-up functions  
without operating on control unit

Manual selector with knob for an easy selection of standard  
functions

Operating status led

Battery charge monitoring

Safety device surveillance

## TECHNICAL DETAILS

### TECHNICAL DATA

#### MECHANICAL DATA

opening speed	cm/s	adjustable max 70 cm/s (for leaf)
closing speed	cm/s	adjustable max 60 cm/s (for leaf)
working cycle	%	100

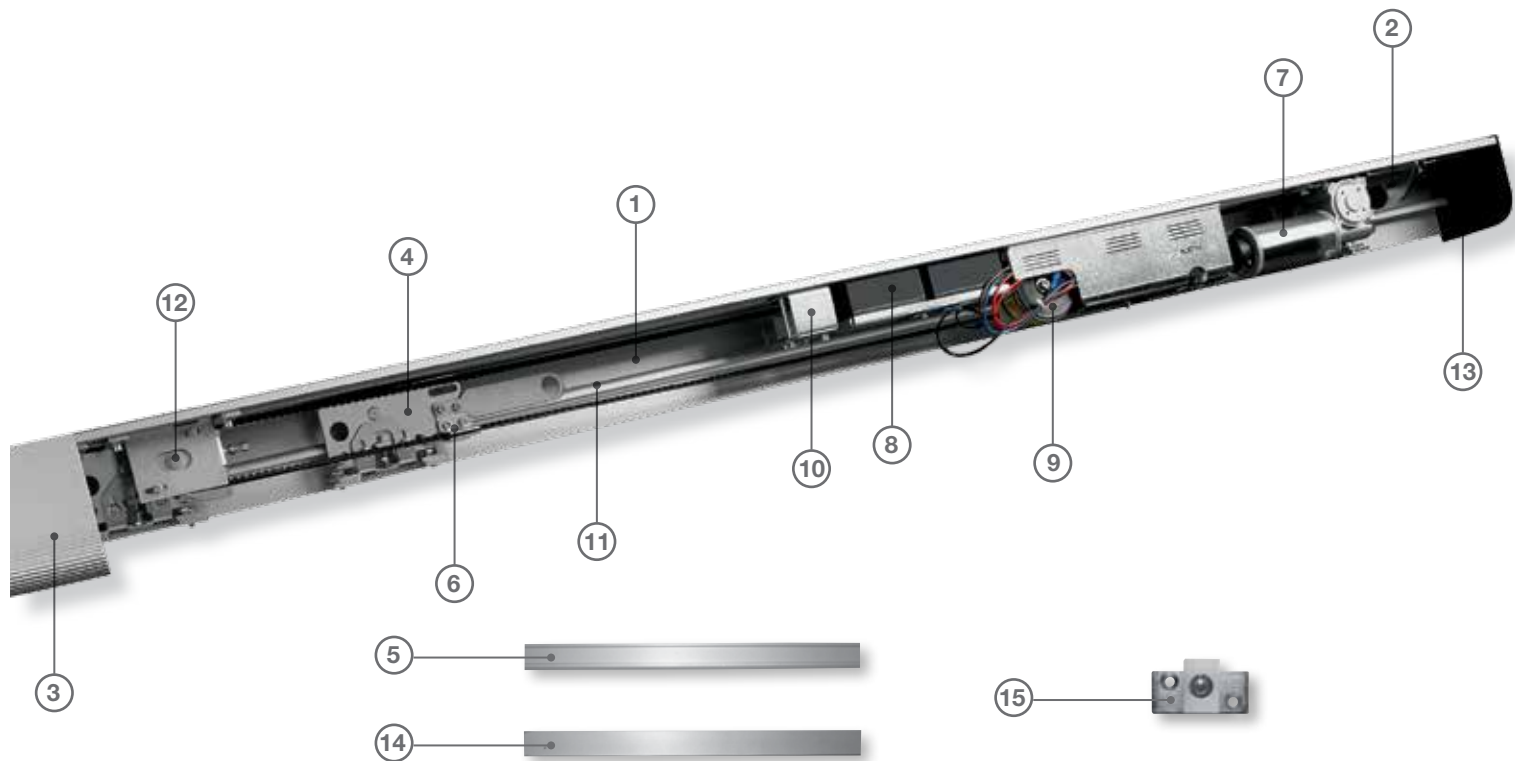
#### ELECTRICAL DATA

control board		CT-PAE
power	Vac (Vdc)	230 50/60 Hz
absorbed power	W	80
opening pause time	sec	adjustable from 0 to 60 seconds
anti-crushing system		standard

#### GENERIC DATA

protection degree	IP	22
bar dimensions (D - H)	mm	142 - 111
working temperature	°C	-20 + 55
max weight 1 leaf	Kg	120
max weight 2 leaves	Kg	80+80

## PART IDENTIFICATION



1. 10 MICRON CHEMICAL SILVER OXIDIZED ALUMINIUM  
BAR

2. MECHANICAL STOP

3. OXIDIZED ALUMINIUM BOX

4. CARRIAGE

5. ADAPTOR (OPTIONAL)

6. TRACTION BRACKETS

7. MOTOR WITH ENCODER

8. EMERGENCY BATTERY UNIT (OPTIONAL)

9. CONTROL UNIT

10. ELECTROMECHANICAL STOP (OPTIONAL)

11. BELT

12. TRANSMISSION PULLEY

13. BOX SIDE PLUG

14. FLOOR GUIDANCE (OPTIONAL)

15. PLATE WITH HINGE AND NYLON BLOCK (OPTIONAL)

## WIND LIGHT AUTOMATION

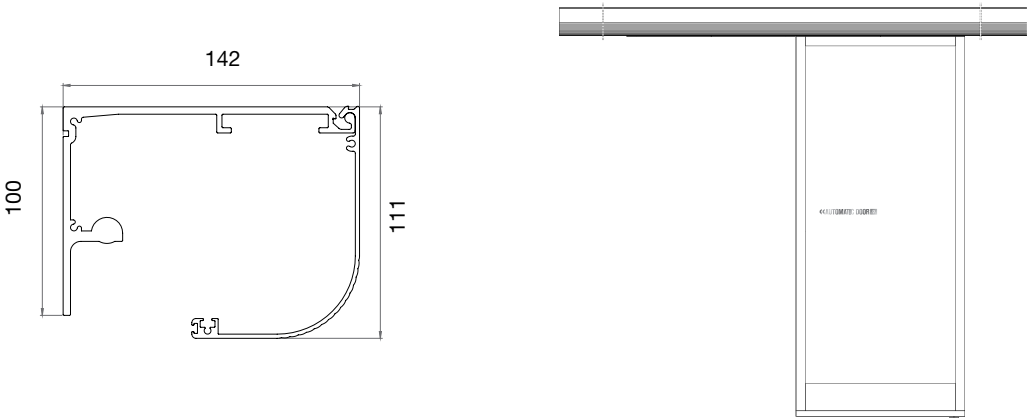
WIND LIGHT are a new series of straight sliding hi-tech automatic systems for very intensive use, with high technical content and silent operation. They offer many features mixed with quality and reliability and are easy to install and program. WIND LIGHT offers solutions with appropriate anti-panic break-out devices allowing easy access to escape routes. The complete range offers solutions for all requirements of size, use and weight

### TECHNICAL FEATURES

WIND LIGHT are provided with a 24 Vdc motor, a microprocessor electronic control panel and an electronic impact-free device with encoder. Control unit learn door weight and stroke length with a simple self learning procedure. The casing is made of aluminum extrusion and, thanks to a special locating hook system, there is the possibility to "hold open" the profile cover without supporting it. Faults are displayed on the selector screen (optional)

# WIND LIGHT

SYSTEM FOR SINGLE SLIDING DOOR UP TO 120 Kg



## ASSEMBLED AUTOMATION INCLUDES:

CODE	DESCRIPTION	
PA151LK	Kit for single leaf (1 pc)	
PA000L	Anodized beam profile	
PA001L	Anodized cover profile	
PA003	Belt	
600AD-PA	Adhesive automatic door right + left (1 pc)	

## ASSEMBLED AUTOMATION AVAILABLE SIZES

CODE	NOMINAL CLEARANCE ROOM: mm	AUTOMATION LENGTH: mm
PA1901LK	900	1900
PA2101LK	1000	2100
PA2501LK	1200	2500
PA2901LK	1400	2900
PA3301LK	1600	3300
PA3701LK	1800	3700
PA4201LK	2000	4200

For intermediate size select higher dimension  
when ordering specify right or left opening (installation inside view)

PA151LK: CUSTOM MADE AUTOMATION KIT










CODE	DESCRIPTION
PA151LK	Kit for single leaf (1 pc)

KIT FOR SINGLE LEAF INCLUDES:

- Motor with encoder 24 Vdc (1 pc)
- Kit door carriages (1 pc)
- Electronic control unit (1 pc)
- Plug set (2 pcs)
- Mechanic limit switch (2 pcs)
- Kit accessories and screws for fixing (1 pc)
- Adhesive automatic door right + left (1 pc)



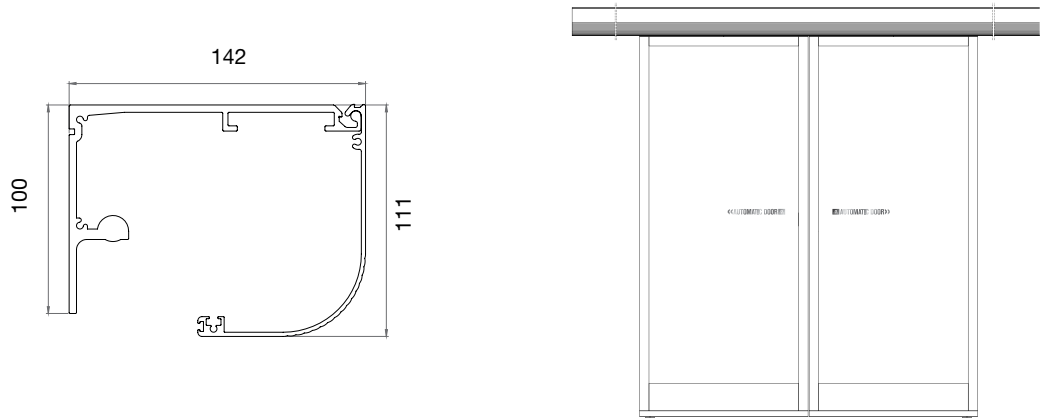
OPTIONAL ELEMENTS

CODE	DESCRIPTION	
PA000L	Anodized beam profile	
PA001L	Anodized cover profile	
PA003	Belt	
PA020	Upper adaptor profile	
PA021	Floor guidance and track	
PA022L	Emergency battery kit 12 V - 1,2A (1 pc)	
PA023L	Electric lock kit set-up for installation with cord release PA011L (1 pc)	
PA024	Plate with hinge and nylon block (1 pc)	
SMNP AE	Manual selector	

Accessories for control and security page 112

# WIND LIGHT

## SYSTEM FOR DOUBLE SLIDING DOOR UP TO 80+80 Kg



ASSEMBLED AUTOMATION INCLUDES:

CODE	DESCRIPTION	
PA152LK	Kit for double leaf (1 pc)	
PA000L	Anodized beam profile	
PA001L	Anodized cover profile	
PA003	Belt	
600AD-PA	Adhesive automatic door right + left (1 pc)	

ASSEMBLED AUTOMATION AVAILABLE SIZES

CODE	NOMINAL CLEARANCE ROOM: mm	AUTOMATION LENGTH: mm
PA1902LK	450+450	1900
PA2102LK	500+500	2100
PA2502LK	600+600	2500
PA2902LK	700+700	2900
PA3302LK	800+800	3300
PA3702LK	900+900	3700
PA4202LK	1000+1000	4200

For intermediate size select higher dimension

PA152LK: CUSTOM MADE AUTOMATION KIT










CODE	DESCRIPTION
PA152LK	Kit for double leaf (1 pc)

KIT FOR DOUBLE LEAF INCLUDES:

- Motor with encoder 24 Vdc (1 pc)
- Kit door carriages (2 pcs)
- Electronic control unit (1 pc)
- Plug set (2 pcs)
- Mechanic limit switch (2 pcs)
- Kit accessories and screws for fixing (1 pc)
- Adhesive automatic door right + left (1 pc)



OPTIONAL ELEMENTS

CODE	DESCRIPTION	
PA000L	Anodized beam profile	
PA001L	Anodized cover profile	
PA003	Belt	
PA020	Upper adaptor profile	
PA021	Floor guidance and track	
PA022L	Emergency battery kit 12 V - 1,2A (1 pc)	
PA023L	Electric lock kit set-up for installation with cord release PA011L (1 pc)	
PA024	Plate with hinge and nylon block (1 pc)	
SMNP AE	Manual selector	

Accessories for control and security page 112

# WIND - WIND LIGHT

## ACCESSORIES



**EASY**  
Digital pad with graphic display 128x64 pixel for sliding doors

PC 1



**SMNPAE**  
Manual selector for automatic sliding doors

PC 1



**SEL-T**  
Proximity sensor for transponder cards

PC 1



**SEL-W**  
Wired digital keypad

PC 1



**SEL-R**  
Wireless radio digital keypad

PC 1



**DECSEL-W**  
Decoder for digital keypad **SEL-W**

PC 1



**DECSEL-T**  
Decoder for proximity sensor for transponder cards **SEL-T**

PC 1



**CARD**  
Transponder card

PCS 10



**RXM23X**  
Universal receiver 2 channels, fix or rolling code

PC 1



**TAG**  
Proximity tag with key ring

PC 1



**SUB-44WRT**  
4 channels transmitter, rolling code, with transponder

PC 1



**PA012MW**  
Microwave bidirectional sensor

PC 1



**PA012**  
Infrared volumetric radar

PC 1



**PA025CT**  
Active infrared radar sensor

PC 1



**PA014S**  
Photocells kit with electronic board

PC 1



**PA011**  
Complete kit for manual release (for WIND)

PC 1



**PA011L**  
Complete kit for manual release (for WIND LIGHT)

PC 1



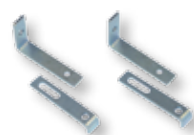
**BMET**  
Metal box with release system

PC 1



**SPA25**  
Brush h 25 mm for glass doors

PC 1



**KPAFCO**  
Casing supports

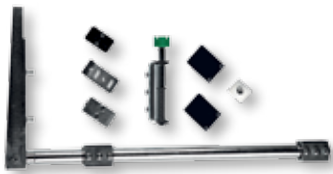
PC 1



**KOMSCA**  
Kit cable supports

PCS 10

# KIT FOR EMERGENCY EXIT

CODE	DESCRIPTION	
KITANTSF1	Emergency exit system for one door with max length 1100 mm (not certified) (1 pc)	
KITANTSF2C	Emergency exit kit for single leaf up to 1300 mm (certified) (1 pc)	
PA033	Upper emergency exit adaptor profile (for KITANTSF1)	
PA034	Lower emergency exit adaptor profile (for KITANTSF1)	

# KIT FOR GLASS DOOR

CODE	DESCRIPTION	
PA007	Aluminium profile for glass door L=3200 mm Maximum glass thickness 1 cm (1 pc)	
PA009	Kit fixing screws (for PA007) (1 pc)	
PA005E	Fastening kit for glass door 1500 mm. Maximum glass thickness 1 cm (1 pc)	
PA008	Floor guide (for PA007 and PA005E) (1 pc)	



OUTDOOR LIGHTING SYSTEMS	116
STIK	118
FLAT	119
VERTICAL	120
TOWER	121
BOX LED	122

# KEY GARDEN

The new expanded product line "Key Garden" has been conceived to illuminate residential and industrial areas in a simple, safe and economic way.

The range includes the following models:

- **STIK:** garden lights, two colours (white or dark brown) and two models (front light or back light)
- **FLAT:** step lights for garage doors and pergolas, two colors (white and dark brown)
- **VERTICAL:** lights for pedestrian or vehicular premises, two colors (white and dark brown)
- **TOWER:** lights with double led strip, suitable for parking lots and public areas, two colors: white and dark brown

Connecting the night sensor Quadro or the flash light Eclipse the garden lights will switch on automatically at sunset and they will automatically switch off at sunrise. The garden lights installation is simple and intuitive, and it is suitable for the DY.

It is possible to control the lights via radio with remote control. In addition it is possible to dimmer the light intensity at night to the desired level or set different thresholds for light automatic activation.

It is possible to install the garden lights with two 24Vdc wires connected to the control board 14A or in alternative to the board BOX LED to make the light system independent from the gate automation.

The energy consumption of each light is 50mA for the models named STIK, FLAT and VERTICAL, whereas for model named TOWER the energy consumption is 100mA.



**STIK: led lights for garden**



**TOWER:** lights with double led strip

**FLAT:** led lights, flat shape

**VERTICAL:** led light for premises

# STIK

## LED GARDEN LIGHTS



## PLUS

Conceived to light premises, gate entries, fences and driveways

The connections are made of only two wires 24 Vdc directly into the 14A control unit or into the BOX LED control unit, in order to control the system independently of the gate movement

Stik is available in two versions: UP with leds facing upward, for a scattered light, DOWN with leds facing downward for a spot light



Completely made of aluminium

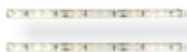
## MODELS

CODE	DESCRIPTION	WEIGHT
KSTIKDW	Pair of led garden lights, version DOWN, color WHITE RAL 9010. H= 404 mm (2 pcs)	1,7kg
KSTIKDB	Pair of led garden lights, version DOWN, color BROWN RAL 8019. H= 404 mm (2 pcs)	1,7kg
KSTIKUW	Pair of led garden lights, version UP, color WHITE RAL 9010. H= 404 mm (2 pcs)	1,7kg
KSTIKUB	Pair of led garden lights, version UP, color BROWN RAL 8019. H= 404 mm (2 pcs)	1,7kg

## ACCESSORIES



**KSTI1**  
Pair of tip for soil  
fixing

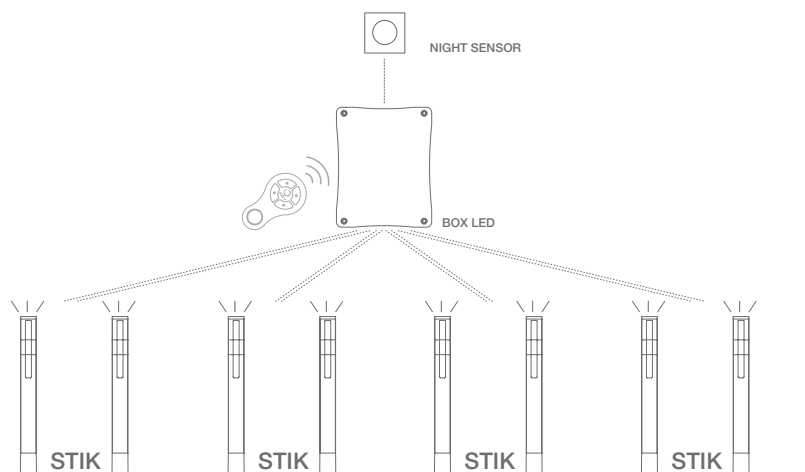


**999LED**  
Pair of led lights  
neutral white

PCS 2

PCS 2

## STANDARD INSTALLATION



It is possible to connect with two 24 Vdc wires up to 15 lights per group with a total of 60 lights

# FLAT

## LED GARDEN LIGHTS



## PLUS

Conceived as steplights or to light garage doors, pergolas or sun blinds

The connections are made of only two wires 24 Vdc directly into the 14A control unit or into the BOX LED control unit, in order to control the system independently of the gate movement

Flat is available in two colors: white or dark brown

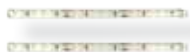


Completely made of aluminium

## MODELS

CODE	DESCRIPTION	WEIGHT
KSTIKFW	Pair of led garden lights, color WHITE RAL 9010. H= 240 mm (2 pcs)	1,7kg
KSTIKFB	Pair of led garden lights, color BROWN RAL 8019. H= 240 mm (2 pcs)	1,7kg

## ACCESSORIES

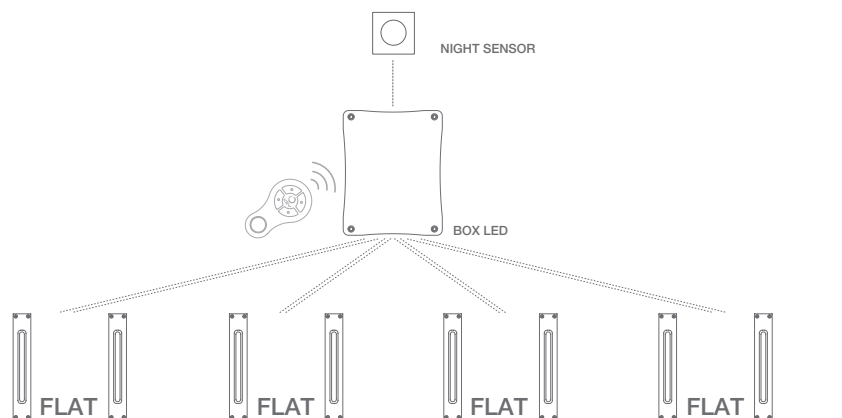


### 999LED

Pair of led lights  
neutral white

PCS 2

## STANDARD INSTALLATION



It is possible to connect with two 24 Vdc wires up to 15 lights per group with a total of 60 lights

NEW

# VERTICAL

LED GARDEN LIGHTS

## PLUS

Conceived to light residential and industrial premises

The connections are made of only two wires 24 Vdc directly into the 14A control unit or into the BOX LED control unit, in order to control the system independently of the gate movement

Vertical is available in two colors: white or dark brown



Completely made of aluminium

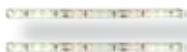
## MODELS

CODE	DESCRIPTION	WEIGHT
KSTIKVW	Pair of led garden lights, color WHITE RAL 9010. H= 246 mm (2 pcs)	1,7kg
KSTIKVB	Pair of led garden lights, color BROWN RAL 8019. H= 246 mm (2 pcs)	1,7kg

## ACCESSORIES



**KSTI1**  
Pair of tip for soil  
fixing

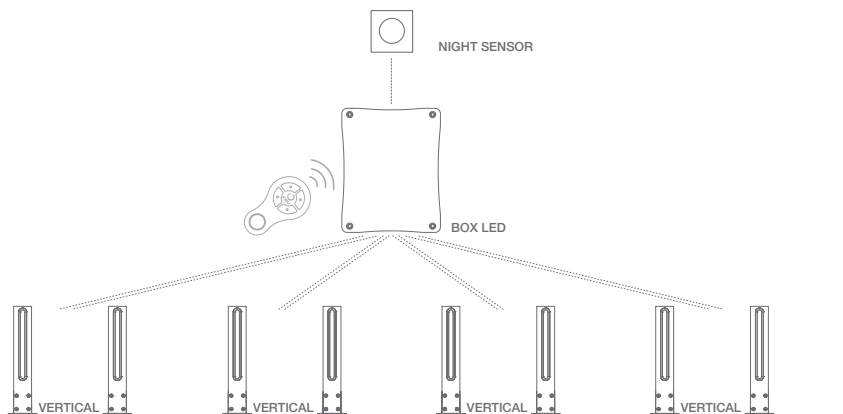


**999LED**  
Pair of led lights  
neutral white

PCS 2

PCS 2

## STANDARD INSTALLATION



It is possible to connect with two 24 Vdc wires up to 15 lights per group with a total of 60 lights

# TOWER

## LED GARDEN LIGHTS



### PLUS

Conceived to light premises, parking lots and fences

The connections are made of only two wires 24 Vdc directly into the 14A control unit or into the BOX LED control unit, in order to control the system independently of the gate movement

Tower is available in two colors: white or dark brown



Completely made of aluminium

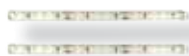
### MODELS

CODE	DESCRIPTION	WEIGHT
KSTIKTW	Pair of led garden lights, color WHITE RAL 9010. H= 1000 mm (2 pcs)	2,7kg
KSTIKTB	Pair of led garden lights, color BROWN RAL 8019. H= 1000 mm (2 pcs)	2,7kg

### ACCESSORIES



**KSTI1**  
Pair of tip for soil  
fixing

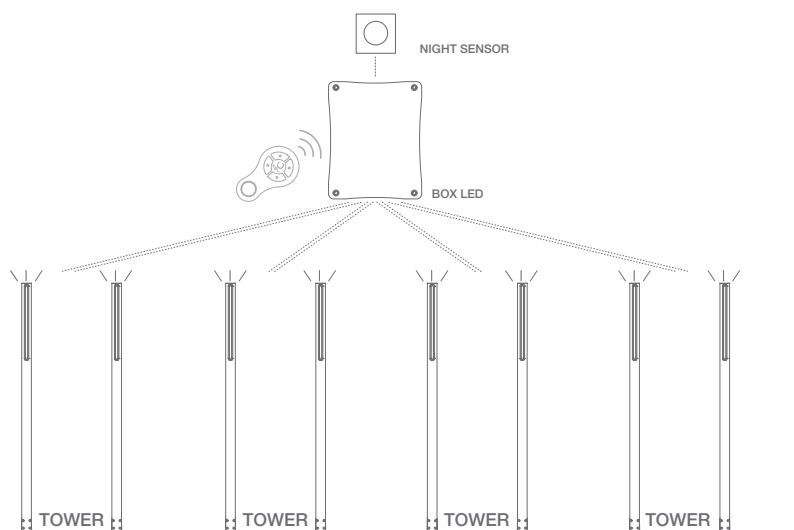


**999LED**  
Pair of led lights  
cold white

PCS 2

PCS 2

### STANDARD INSTALLATION



It is possible to connect with two 24 Vdc wires up to 7 lights per group with a total of 28 lights

NEW

# BOX LED

MAIN BOARD FOR LED LIGHTS CONTROL



## PLUS

Conceived for the automatic control of LED lights, to illuminate the area around the gate entry, frames and driveways

4 independent outputs to control up to 15 lights each (60 lights total)

Output for night sensor QUADRO

Built-in receiver

Possibility to use 3 different outputs to control RGB lights

Programming with buttons or via display DY


MODELS

CODE	DESCRIPTION
BOXLED	Main board for control of led lights (1 pc)

Main features:


- 4 led outputs
- 600mA per output (max. with 15 lights) with overload protection
- output for external light sensor
- display connection DY/DYL (optional)
- built-in radio receiver
- suitable up to 150 codes
- output leds
- fast programming button
- external antenna onboard
- 230Vac

ACCESSORIES




**QUADRO**  
Night sensor

PC 1




**DY**  
Display module  
Cable lenght  
20 cm

PC 1



**DYL**  
Display module  
Cable lenght  
120 cm

PC 1



**RX2H**  
Miniaturized  
control unit

PC 1



## KEY ACCESSORIES

<b>CONTROL UNITS</b>	126
14A	126
CT102 24	128
CT202 24	129
CT102	130
CT202	131
CT-2	132
RX2H	133
CT1RD	134
CT-400	135
<b>ACCESSORIES</b>	136
<b>PROGRAMMING FUNCTIONS</b>	137
<b>TRANSMITTERS</b>	138
SUB	138
PLAY	139
XR CODE	139
<b>RECEIVERS</b>	140
RX4X	140
UNIVERSAL RECEIVERS	140
<b>FLASHING LIGHTS</b>	141
ECLIPSE	141
LUMY	142
<b>PHOTOCELLS</b>	143
SEKUR FT	143
SEKUR CH	144
<b>SWITCHES</b>	145
SEKUR C	145
<b>SAFETY EDGES</b>	146
SEKUR CO/COR	146
SEKUR CO-W	147

# 14A

## 24 Vdc CONTROL UNIT



Logic mainboard (MA24)



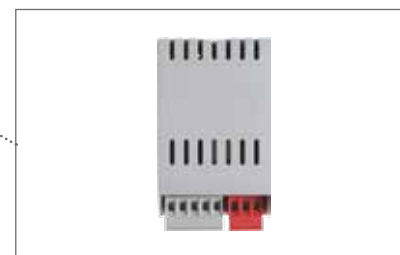
Display module (DY)



Control unit in box for 2 24Vdc motors (BOX250)



4 channels plug-in receiver (RX4X)



24Vdc 10A power module (PO24)

## PLUS

New generation control unit "One For All" to control all 24Vdc automations

NIGHT LIGHT SYSTEM to control Led lights during night hours

14A main functions:

- possibility to combine the power modules according to the installation (1 or 2 motors)
- same programming for different systems
- wide display in different languages to program both the motor and the radio receiver
- compatible with main home automation systems
- amperometric obstacle detection with run inversion
- standard or programmable slowdown in opening and closing
- programmable pedestrian automatic closing
- separate OPEN-STOP-CLOSE inputs and PP - Pedestrian input
- safety edge 8,2K ohm NC - photo 1 and photo 2
- inputs and safety devices LED visualization
- optional test for safety edge
- LED courtesy light output
- open gate indicator output
- plug-in programmable radio receiver 4 channels
- for motors with or without encoder
- flashing light output with user indicator
- electrolock output
- battery back-up optional


MODELS

CODE	DESCRIPTION
14AB2 *	Control unit in box for two 24Vdc motors (without DY and without receiver RX4X) with tranformer 250 VAmp (1 pc)
MA24	Logic mainboard (1 pc)
PO24	Power module 24Vdc 10A (1 pc)
BOX250	Box with tranformer 250 VAmp (1 pc)

\* mandatory for motors RAY4024E, INT24, SN-50-24, SN5024B


TECHNICAL DATA		14AB2
ELECTRICAL DATA		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	(24)
max motor power	W	300
max working time	sec	240
max pause time	sec	900
obstacle detection		yes
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	222 - 110 - 275
operating temperature	°C	-20 + 55

ACCESSORIES




**DY**  
Display module  
Cable lenght 20 cm

PC 1



**DYL**  
Display module  
Cable lenght 120 cm

PC 1



**RX4X**  
4 channels plug-in receiver

PC 1

**DISPLAY FUNCTIONS DY - DYL:**

- system programming
- radio codes programming
- diagnostics
- motor control
- multiple languages

# CT102 24

24 Vdc CONTROL UNIT



CODE	DESCRIPTION
CT102 24	For one motor for sliding gate, overhead door or electromechanical barrier, 24 Vdc, with electric clutch and slowdown in opening and closing. Built-in receiver (1 pc)

TECHNICAL DATA		CT102 24
<b>ELECTRICAL DATA</b>		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	24 (24)
max motor power	W	150
max working time	sec	240
max pause time	sec	0 - 900
obstacle detection		yes
<b>GENERIC DATA</b>		
protection degree	IP	-
dimensions (L - D - H)	mm	120 - 90 - 30
operating temperature	°C	-20 + 55

## PLUS

Same programming logic for all control boards CT102, CT202, CT102 24, CT202 24 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Pedestrian programmable automatic closing

Separate OPEN-CLOSE inputs and PP - Pedestrian input

Safety edge 8,2K ohm NC / stop - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light output

Spia open gate indicator output/ electrolock

3 digit display

Optional phototest

Optional test for safety edge

Built-in receiver

Possibility to memorize up to 150 codes

# CT202 24

24 Vdc CONTROL UNIT



CODE	DESCRIPTION
CT202 24	For two motors for swing gate, 24 Vdc, with electric clutch and slowdown in opening and closing. Built-in receiver. In box (1 pc)

TECHNICAL DATA		CT202 24
<b>ELECTRICAL DATA</b>		
input power	Vac/Hz	230/50-60
output power accessories	Vac (Vdc)	24 (24)
max motor power	W	300
max working time	sec	240
max pause time	sec	0 - 900
obstacle detection		yes
<b>GENERIC DATA</b>		
protection degree	IP	54
dimensions (L - D - H)	mm	222 - 110 - 275
operating temperature	°C	-20 + 55

## PLUS

Same programming logic for all control boards CT102, CT202, CT102 24, CT202 24 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Pedestrian programmable automatic closing

Separate OPEN-CLOSE inputs and PP - Pedestrian input

Safety edge 8,2K ohm NC / stop - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light output

Spia open gate indicator output/ electrolock

3 digit display

Optional phototest

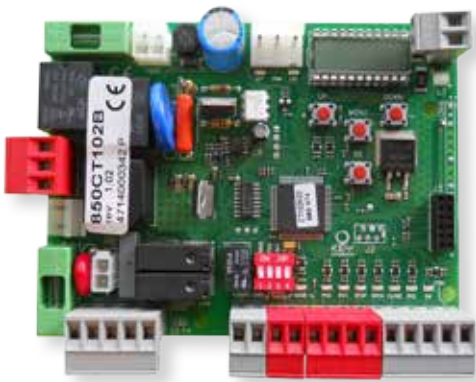
Optional test for safety edge

Built-in receiver

Possibility to memorize up to 150 codes

# CT102

230 Vac CONTROL UNIT



CODE	DESCRIPTION
CT102B	For one motor for sliding gate, overhead door, 230 Vac, with electric clutch and connector for receiver, slowdown in opening and closing (1 pc)

TECHNICAL DATA		CT102B
ELECTRICAL DATA		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	(24)
max motor power	W	700
max working time	sec	adjustable
max pause time	sec	0 - 900
obstacle detection		yes
GENERIC DATA		
protection degree	IP	-
dimensions (L - D - H)	mm	120 - 90 - 30
operating temperature	°C	-20 + 55

## PLUS

Same programming logic for all control boards CT102, CT202, CT102 24, CT202 24 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Pedestrian programmable automatic closing

Separate OPEN - CLOSE inputs and PP - Pedestrian input

Safety edge 8,2K ohm NC - STOP - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light output or spia open gate indicator

3 digit display

Optional phototest

Optional test for safety edge

New plug-in radio receiver 4 channels RX4X

# CT202

230 Vac CONTROL UNIT



CODE	DESCRIPTION
CT202	For two motors for swing gate, 230 Vac, with electric clutch and connector for receiver, slowdown in opening and closing (1 pc)

TECHNICAL DATA		CT202
ELECTRICAL DATA		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	24 (24)
max motor power	W	700+700
max working time	sec	adjustable
max pause time	sec	0 - 900
obstacle detection		yes
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	222 - 110 - 275
operating temperature	°C	-20 + 55

## PLUS

Same programming logic for all control boards CT102, CT202, CT102 24, CT202 24 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Pedestrian programmable automatic closing

Separate OPEN - CLOSE inputs and PP - Pedestrian input

Safety edge 8,2K ohm NC - STOP - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light output or spia open gate indicator

Programmable electrolock timing

Pressure control for hydraulic motors

3 digit display

Optional phototest

Optional test for safety edge

New plug-in radio receiver 4 channels RX4X

# CT-2

230 Vac CONTROL UNIT



CODE	DESCRIPTION
CT-2	For two motors for swing gate, 230 Vac, with electric clutch and connector for receiver (1 pc)

TECHNICAL DATA		CT-2
ELECTRICAL DATA		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	24
max motor power	W	700+700
max working time	sec	60
max pause time	sec	2 - 180
obstacle detection		-
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	222 - 110 - 275
operating temperature	°C	-20 + 55

## PLUS

Easy programming with trimmers and dip-switches

Simple and robust electronics

Plug-in logic board

Led indicator of commands and safety devices

Adjustable electric clutch

Plug-in radio receiver (RXI23X)

Open gate indicator output

Flashing light and courtesy light output

Electric limit switches

OPEN - CLOSE inputs

Pedestrian open input

RX2H

MINIATURIZED HOME AUTOMATION CONTROL UNIT



CODE	DESCRIPTION
RX2H	Miniaturized control unit for management of awnings, shutters, and wireless lighting systems (1 pc)

TECHNICAL DATA		RX2H
ELECTRICAL DATA		
reception frequency	MHz	433,92
power	Vac	230
range	m	35
relay contacts max supply	A	5 (Cos φ=1) resistive load
relay contacts max voltage	W	1200
GENERIC DATA		
protection degree	IP	20
dimensions (L - D - H)	mm	42 - 21 - 36
operating temperature	°C	-20 + 55

PLUS

For the control of 230Vac/110Vac main voltage loads with power up to 1000W

2 independent channels

Easy programming with led and buzzer

Memorize up to 30 transmitters

Internal connection plug

Manage two time sensors for automatic switch-off

Maximum flexibility in the single control of two outputs with different modes: mono-stable, bi-stable, temporized, motor control

Possibility to combine with wired control points for lighting

# CT1RD

230 Vac CONTROL UNIT



CODE	DESCRIPTION
CT1RD	For one motor for rolling shutter or sliding gate, 230 Vac, with electric clutch, limit switch and receiver. In box (1 pc)

TECHNICAL DATA		CT1RD
ELECTRICAL DATA		
input power	Vac/Hz	230/50
output power accessories	Vac (Vdc)	24
max motor power	W	600
max working time	sec	180
max pause time	sec	120
obstacle detection		-
GENERIC DATA		
protection degree	IP	54
dimensions (L - D - H)	mm	160 - 90 - 200
operating temperature	°C	-20 + 55

## PLUS

Easy programming with trimmers and dip-switches

Versatile

On board radio receiver

Extractable radio memory

Electric limit switches

OPEN and STOP outputs

Man present functions

Pedestrian open functions

Flashing light output

Electric adjustment of power

# CT-400

400 Vac CONTROL UNIT



CODE	DESCRIPTION
CT-400	For one motor for sliding gate or industrial sectional door 400 Vac / 230 Vac motor and electric clutch. In box (1 pc)
CT-401	For one motor for sliding gate or industrial sectional door 400 Vac / 230 Vac motor and electric clutch. In box with control buttons (1 pc)

TECHNICAL DATA		CT-400	CT-401
ELECTRICAL DATA			
power	Vac/Hz	400-230/50	400-230/50
output power accessories	Vac (Vdc)	24	24
max motor power	W	1500	1500
max working time	sec	0 - 120	0 - 120
max pause time	sec	0 - 120	0 - 120
obstacle detection		-	-
GENERIC DATA			
protection degree	IP	54	54
dimensions (L - D - H)	mm	222 - 110 - 275	222 - 110 - 275
operating temperature	°C	-20 + 55	-20 + 55

## PLUS

For industrial motor

Suitable for intensive and longlasting use

Compatible with plug-in receivers RXM23X, RXM-44R

Electronic obstacle detection with amperometric control

Equipped with internal brake and with function for external brake activation

Closing function after transit

Separate OPEN-STOP-CLOSE-PP-Pedestrian inputs

Programmable safety edge parameter

Open gate indicator output

Phototest function

Compatible both with monophase 230V or three-phase 400V/230V motors

# ACCESSORIES



**RX4X**  
4 channels plug-in receiver

PC 1



**RXM23X**  
Universal receiver 2 channels, fix o rolling code

PC 1



**BOXKEY**  
Plastic box for two motors control unit

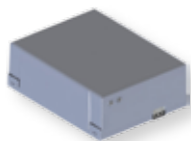
PC 1



**BOXKEYS**  
Plastic box for one motor control unit

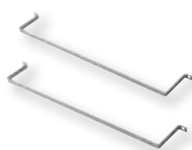
PC 1

# 24 Vdc ACCESSORIES



**KBP**  
Battery back-up kit

PC 1



**KITFIXBATT**  
Kit fixing batteries 24 Vdc (for BOXKEY)

PCS 2

# PROGRAMMABLE FUNCTIONS

motor power	24 Vdc			230 Vac			400 Vac
motors number/light	1	2	LIGHT	1	2	LIGHT	1
14A	•	•	•				
CT102 24	•						
CT202 24		•					
CT102				•			
CT202					•		
CT-2					•		
RX2H					•	•	
CT1RD				•			
CT-400							•
BOX LED			•				

# PROGRAMMABLE FUNCTIONS

	CT102 24	CT202 24	CT-24M	CT-SEZ	14A	CT1RD	CT102	CT202	CT-2	CT400	CT401
motor power	24 Vdc					230 Vac				400 Vac	
motors number	1				2	1		2		1	
hold to run	•	•			•	•	•	•		•	•
semi automatic functioning	•	•	•	•	•	•	•	•	•	•	•
automatic functioning	•	•	•	•	•	•	•	•	•	•	•
condominium function (only open)	•	•	•	•	•	•	•	•	•	•	•
pre-flashing	•	•			•		•	•	•	•	•
photo during opening	•	•	•		•		•	•	•	•	•
soft start	•	•	•	•	•		•	•			
soft stop	•	•	•	•	•						
courtesy light	•	•	•	•	•		•	•	•		
open gate light with proportional flashing light	•	•	•		•		•	•	•	•	•
slowdown function	•	•	•	•	•		•	•			
water hammering		•			•			•	•		
electric limit switch exclusion	•	•			•	•			•		
temporary pause in opening	•	•	•		•		•	•	•		
step by step function (open-stop-close-stop)	•	•	•	•	•	•	•	•	•	•	•
separate open and close	•	•			•	•	•	•	•	•	•
working time extension									•		
pause time with presence detector	•	•	•	•	•	•	•	•	•	•	•
1st motor delay during opening		•			•			•	•		
brake							•	•		•	•
cycles counter	•	•		•	•		•	•			
display	•	•		•	•		•	•			
encoder	•	•	•	•	•						
close after passage	•	•			•		•	•		•	•
pedestrian opening	•	•	•		•	•	•	•	•	•	•
elettrolock	•	•			•			•	•		
energy saving	•	•	•	•	•						
black-out settings	•	•		•	•		•	•			
safety edge connection	•	•			•		•	•		•	•
obstacle detection	•	•	•	•	•		•	•		•	•

# SUB

## WATER RESISTANT 4 CHANNELS TRANSMITTER, 433 MHz



CODE	DESCRIPTION
SUB-44WR	4 channels, white colour, XR rolling code (1 pc)
SUB-44R	4 channels, black colour, XR rolling code (1 pc)
CODE	DESCRIPTION
SUB44WF	4 channels, white colour, XR rolling code, with on board receiver (1 pc)
SUB44F	4 channels, black colour, XR rolling code, with on board receiver (1 pc)
CODE	DESCRIPTION
KSUB44WS	4 channels, white colour, XR rolling code, with sequential codes for multiple addition (10 pcs)
SUB-44WRT	4 channels, white colour, XR rolling code, with transponder (1 pc)
CODE	DESCRIPTION
SUB-44W	4 channels, fix code, white colour (1 pc)
SUB-44WN	4 channels, fix code copier, white colour (1 pc)
CODE	DESCRIPTION
KSUB44OR	Kit 10 SUB transmitters XR rolling code orange (10 pcs)
KSUB44BR	Kit 10 SUB transmitters XR rolling code blue (10 pcs)
KSUB44DR	Kit 10 SUB transmitters XR rolling code grey (10 pcs)
KSUB44MR	Kit 10 SUB transmitters XR rolling code magenta (10 pcs)
KSUB44RR	Kit 10 SUB transmitters XR rolling code red (10 pcs)
KSUB44GR	Kit 10 SUB transmitters XR rolling code green (10 pcs)
KSUB44WR	Kit 10 SUB transmitters XR rolling code white (10 pcs)
KSUB44-R	Kit 10 SUB transmitters XR rolling code black (10 pcs)

## PLUS

Water resistant

Ergonomic, simple and modern design

Valuable materials and tidy details thanks to the new generation tri-injection molding process

Metal chromed insert

Different interchangeable colors

## ACCESSORIES



**KRING**  
Key ring

PCS 10

## PLAY

4 CHANNELS TRANSMITTER, 433 MHz



CODE	DESCRIPTION
PLAY4R	4 channels, rolling code (1 pc)
PLAY2R	2 channels, rolling code (1 pc)

## PLUS

New rolling code remote control with 2 or 4 channels

Simple, functional and ergonomic. Easy battery replacement

The new remote control enables the use of any Key Automation automation, pre-existing or brand new

Car sun visor holder included

## XR CODE MANAGER

PALM PROGRAMMER FOR XR ROLLING CODE, 433 MHz



CODE	DESCRIPTION
XRMAN	Programmer for XR rolling code (1 pc)

## PLUS

The main features are:

- wireless programming of transmitters
- programming of receivers
- code visualization
- addition of transmitters
- cancellation of transmitters

- read and copy of the receiver memory on the palm programmer and viceversa
- receiver lock
- association of data at every code
- multiple insertion

# RX4X - RX4S

PLUG-IN RECEIVER, 433 MHz



RX4X / RX4S

CODE	DESCRIPTION
RX4X	4 channels plug-in receiver, fix or rolling code, 1000 codes, green led (1 pc)
RX4S	4 channels plug-in receiver, fix or rolling code, 1000 codes, green led with serial number (1 pc)

## PLUS

Plug-in receiver, fixed or rolling code with automatic selection

RX4S: receiver with serial number for the remote programming of new transmitters of XR rolling code series

4 channels output

Memory up to 1000 codes

# UNIVERSAL RECEIVERS



RXM23X



RXM-44R



RXM230-42

CODE	DESCRIPTION
RXM23X	Universal receiver 2 channels, fix o rolling code, 1000 codes (1 pc)
RXM-44R	Universal receiver 4 channels, rolling code, 220 codes (1 pc)
RXM230-42	Universal receiver 2 channels, fix code, 400 codes (1 pc)

TECHNICAL DATA		RXM23X	RXM-44R	RXM230-42
ELECTRICAL DATA				
reception frequency	MHz	433,920	433,920	433,920
power	Vac (Vdc)	12-24 (12-24)	12-24 (12-24)	230
idle consumption	mA	44	70	70
relay contacts max supply	A	1	1	8
GENERIC DATA				
protection degree	IP	30	44	44
dimensions (L - D - H)	mm	85 - 40 - 25	130 - 80 - 120	130 - 80 - 120
operating temperature	°C	-20 + 55	-20 + 55	-20 + 55

ECLIPSE

FULL LED FLASHING AND COURTESY LIGHT



Vertical installation on column



Horizontal installation on column

CODE	DESCRIPTION
ECLIPSE	Led flashing and courtesy light with crepuscular sensor and built-in antenna (1 pc)

TECHNICAL DATA		ECLIPSE
MECHANICAL DATA		
maximum cycle operation (led flashing)	%	50/100
maximum cycle operation (courtesy light)	%	100
ELECTRICAL DATA		
power	Vac/Vdc	24V max 3w
courtesy light	Vac/Vdc	24
flashing light	Vac/Vdc	24
absorbed power	W	3
antenna frequency	MHz	433,92
GENERIC DATA		
protection degree	IP	44
colour (led flashing)	-	amber
colour (courtesy light)	-	white
dimensions (L - D - H)	mm	75 - 98 - 190
operating temperature	°C	-20 + 55

PLUS

New generation Led flashing light made of high-technological materials molded with bi-injection process

Flashing light with blinking amber color LED light when automation is activated

Multiple positioning both horizontally and vertically

Courtesy light: fixed white led light commanded by an internal crepuscular sensor. Courtesy light is automatically activated independently from the automation (with 14A control board)

Flashing light + courtesy light

Integrated antenna with radio board



LUMY

FLASHING LIGHT



CODE	DESCRIPTION
LUMY-24	24 Vdc flashing light, 25 W, with antenna (1 pc)
LUMY-230	230 Vac flashing light, 25 W, with antenna and internal board for flashing light control (1 pc)
LUMY-230E	230 Vac flashing light, 25 W, with antenna (1 pc)

ACCESSORIES



**ANTS-433**  
433 MHz, aerial  
with steel bracket  
and 5 mrg-58  
cable 5000 mm

PC 1



**500RG-58**  
Coaxial cable  
rg-58

PC 1



**SULU**  
Support for LUMY

PC 1

# SEKUR FT

## PHOTOCELLS



FT32



FT22



FT42



FT42B

CODE	DESCRIPTION
FT32	Pair of photocells for external use and flush mounting
FT22	Pair of photocells for external use for small pillars
FT42	Pair of photocells for external use adjustable through 180°, for small pillars
FT42B	Pair of photocells for external use adjustable through 180°, for small pillars, battery powered

TECHNICAL DATA		FT32	FT22	FT42	FT42B
ELECTRICAL DATA					
power	Vac (Vdc)	12-24 (12-24)	12-24 (12-24)	12-24 (12-24)	12-24 (12-24)
range	m	25	25	25	20
consumption rx	mA	27	27	27	35
consumption tx	mA	10	10	10	0,04
relay contacts max supply	A	1	1	1	1
GENERIC DATA					
protection degree	IP	54	54	54	54
dimensions (L - D - H)	mm	80 - 33 - 90	30 - 28 - 90	35 - 35 - 110	35 - 35 - 110
operating temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55

## PLUS

New logic circuit with improved performance

Snow function: photocell activates an adaptative temporized mode, in case of frequent dimming or darkening, to avoid false obstacles detection

Two programmable ranges


# SEKUR CH

## POSTS FOR PHOTOCELLS




CODE	DESCRIPTION
CH-51	Pair of support posts H 50 cm, anodized aluminum (1 pc)
CH-101	Pair of support posts H 100 cm, anodized aluminum (1 pc)
CH-101S	Pair of support posts H 100 cm, anodized aluminum, with key switch support (1 pc)

## ACCESSORIES




**BAT-3**  
Kit battery for FT42B

PC 1




**MUR-P**  
Plastic wall support

PC 1




**SUMCH**  
Support head for photocell and key switch

PC 1




**FT22**  
Pair of photocells for external use for small pillars

PCS 2




**SEL-M**  
Key switch, metal front, plastic back

PC 1




**SEL-EU**  
Key switch with European cylinder, metal front and back

PC 1




**SEL-W**  
Wired digital keypad, to be ordered together with DECSEL-W

PC 1



**SEL-R**  
Wireless radio digital keypad, compatible with all rolling code receivers, batteries included

PC 1



**SEL-T**  
Proximity sensor for transponder cards, to be ordered together with DECSEL-T

PC 1

# SEKUR C

## KEY AND DIGITAL SWITCHES



SEL-M



SEL-EU



SEL-W  
SEL-R



SEL-T



BMET

CODE	DESCRIPTION
SEL-M	Key switch, metal front, plastic back (1 pc)
SEL-EU	Key switch with European cylinder, metal front and back (1 pc)
SEL-W	Wired digital keypad, metal front, plastic back, to be ordered together with <b>DECSEL-W</b> (1 pc)
SEL-R	Wireless radio digital keypad, metal front, plastic back, compatible with all rolling code receivers, batteries included (1 pc)
SEL-T	Proximity sensor for transponder cards, metal front, plastic back, to be ordered together with <b>DECSEL-T</b> (1 pc)
BMET	Metal box with release system (1 pc)

## ACCESSORIES



**370BATDIG**  
Batteries kit  
for **SEL-R**

PC 1



**DECSEL-W**  
Decoder for digital  
key pad **SEL-W**  
(max 70  
memory codes)

PC 1



**DECSEL-T**  
Decoder for  
proximity sensor for  
transponder  
cards **SEL-T**  
(max 500  
memory codes)  
PC 1



**RXM23X**  
Universal receiver  
2 channels, fix o  
rolling code, 1000  
codes

PC 1



**SUB-44WRT**  
4 channels  
transmitter, rolling  
code, with  
transponder

PC 1



**TAG**  
Proximity tag  
with key ring

PC 1



**CARD**  
Transponder card

PCS 10

SEKUR CO/COR

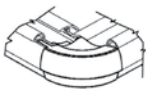
SAFETY SYSTEMS



CODE	DESCRIPTION
COMS16	Mechanic safety edge, 1,6 m long for sliding gates. With micro-switches (1 pc)
COMS20	Mechanic safety edge, 2,0 m long for sliding gates. With micro-switches (1 pc)
COMS25	Mechanic safety edge, 2,5 m long for sliding gates. With micro-switches (1 pc)
COMB12	Mechanic safety edge, 1,2 m long for overhead doors. With micro-switches (1 pc)
COMB18	Mechanic safety edge, 1,8 m long for overhead doors. With micro-switches (1 pc)

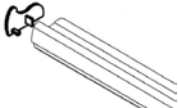
Control board and resistance not included. With line COMB pair: ANG, TAP, GIUN

ACCESSORIES




**ANG**  
Right/ left angle joint

PC 1



**TAP**  
Right/left finishing cap

PC 1



**GIUN**  
Joints

PC 1

# SEKUR CO-W

RADIO SAFETY EDGE SYSTEM, 868 MHz



COMTX



COMRX

CODE	DESCRIPTION
COMTX	868MHz radio transmitter for safety edge (1 pc)
COMRX	868MHz radio receiver for safety edge control (1 pc)
KCOMW	Radio transmitter and receiver kit with batteries included (1 pc)

## PLUS

Radio receiver-transmitter system for maximum safety and fast installation

Possibility to connect mechanical or resistive safety edge 8.2kohm

Bidirectional 868MHz transmission

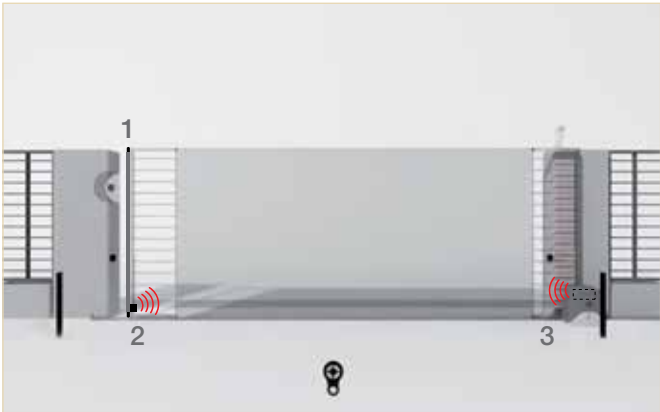
Waterproof box

Up to 8 transmitters for each receiver

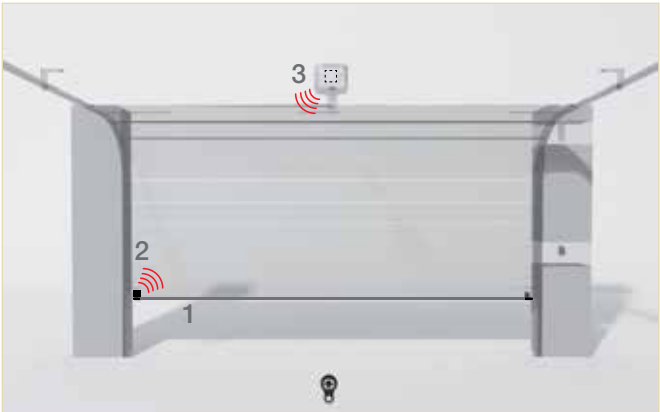
2 years battery lifetime (5 years with power saving mode)

4 different frequencies to avoid interference

## STANDARD INSTALLATION



- 1 Edge system
- 2 Transmitter
- 3 Receiver

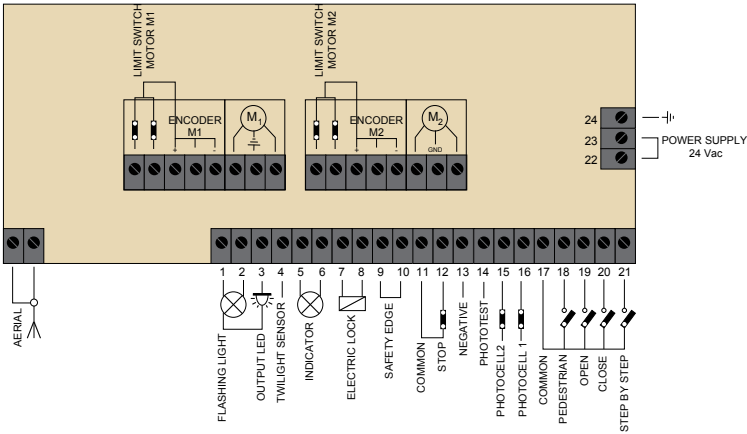


- 1 Edge system
- 2 Transmitter
- 3 Receiver

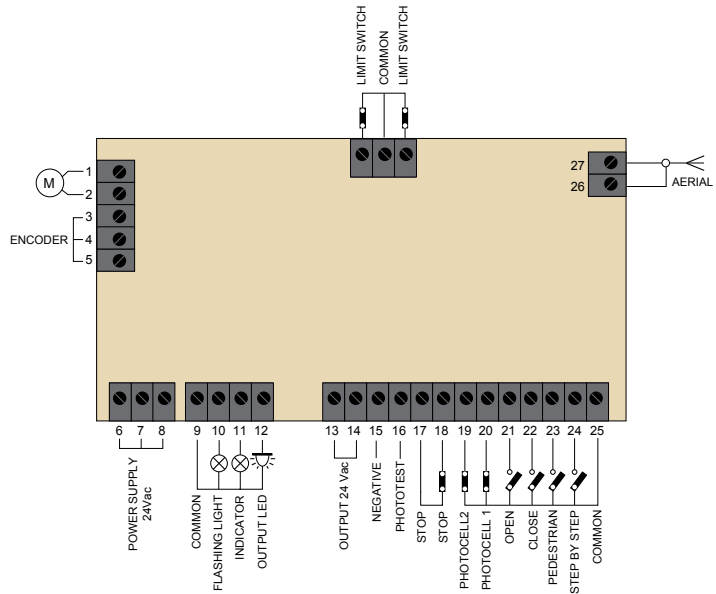
# CONTROL UNITS

## ELECTRIC DIAGRAMS

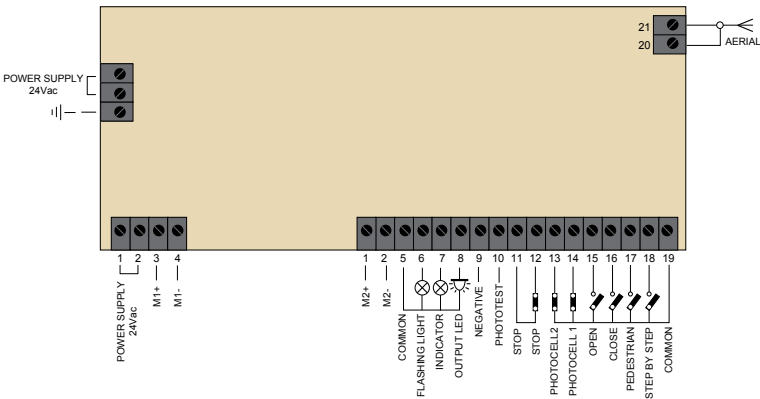
14A



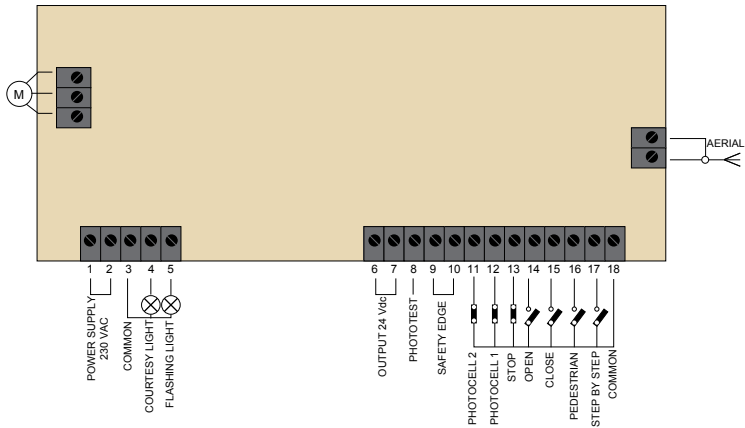
CT102 24



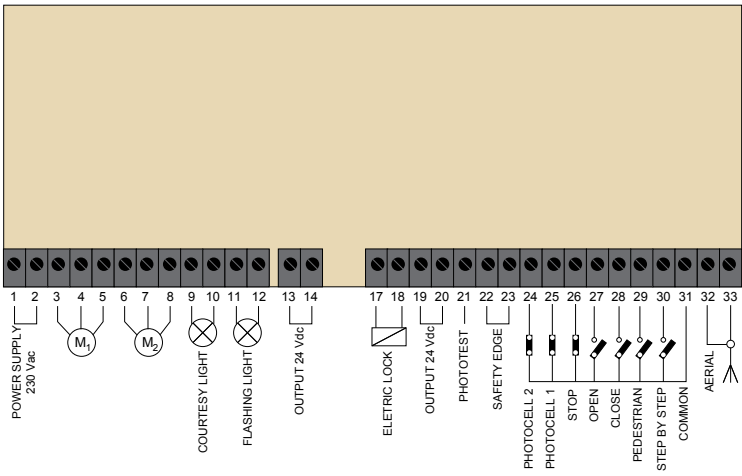
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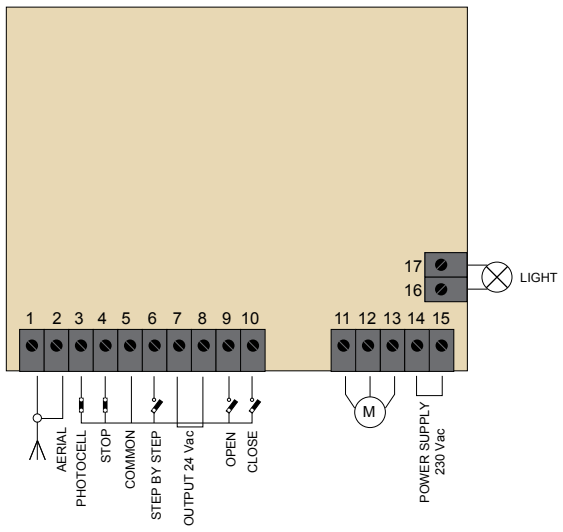
CT102



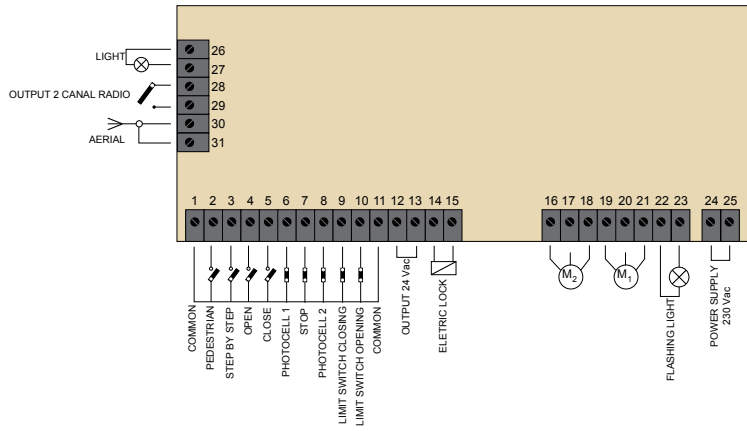
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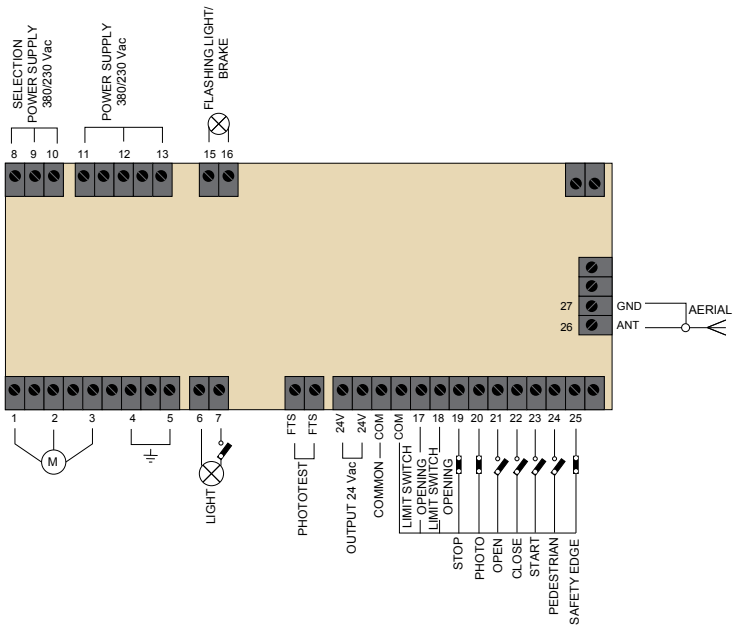
CT1RD



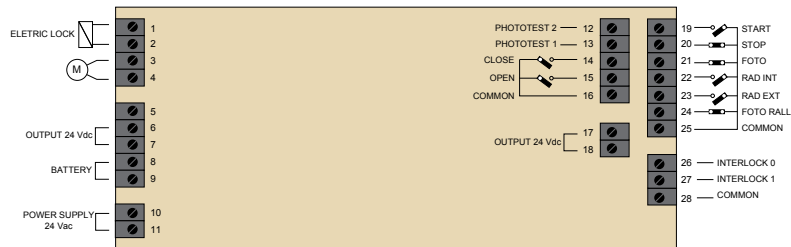
## CT-2



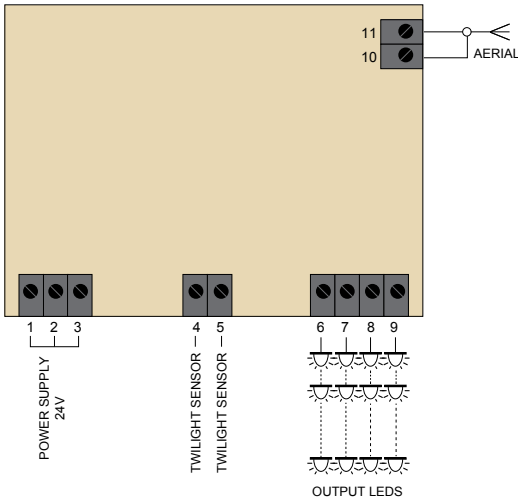
## CT-400 - CT-401



CT-PAE



BOX LED



# ALPHABETICAL LIST

CODES	P.
14AB2	127
370BAT-DIG	145
420CHSB	37
480RM6Z12	81
500RG-58	142
520STAF029A00	63
520STAF032A00	19
600AD-PA	102
999LED	19
ACSW002A00	95
AD	90
ADFB	19
ADRB	19
ALT424	89
ALT424K	87
ALT624	89
ALT624K	87
ANTS-433	142
ANG	146
AP110	37
APF	90
APM	90
AS4	87
AS-4J	87
AS6	87
AS-6J	87
AS-SNO3	87
AST4	87
AST6	87
AST8	87
ATAST60	89
ATAST60X	87
ATAST90	89
ATAST90X	87
BAT-3	144
BAT-12	53

CODES	P.
BC	67
BCBOC	67
BCNS	67
BD	67
BDBOC	67
BDNS	67
BMET	145
BO-SEZ	63
BOC	67
BOX250	127
BOXLED	122
BOXKEY	136
BOXKEYS	136
BS52	66
BS5224	66
CABAT-30	53
CARD	112
CF2	37
CF2SB	37
CI2	37
CH-51	144
CH-101	144
CH-101S	144
COMB12	146
COMB18	146
COMS16	146
COMS20	146
COMS25	146
COMRX	147
COMTX	147
CP-BR	87
CP-BR6	87
CPHSC-50	57
CREM-8	43
CREM-12	43
CREM-30	81

CODES	P.
CREM-P	43
CT-2	132
CT-400	135
CT-401	135
CT-LIGHT	90
CT102B	130
CT10224	128
CT1RD	134
CT202	131
CT20224	129
DECSEL-T	145
DECSEL-W	145
DY	127
DYL	127
EASY	112
ECLIPSE	141
ELS-C	19
EXRB	19
FC-PS	75
FCRAY	19
FT22	143
FT32	143
FT42	143
FT42B	143
GIUN	146
KBP	19
KBS52ER	68
KC	19
KCOMW	147
KINT2ER	38
KINT2KR	38
KINT3024ER	38
KINT3024KR	38
KIT-433KR	54
KITANTSF1	113
KITANTSF2C	113

CODES	P.
KITFIXBATT	19
KLIGHT	90
KOMSCA	112
KPAFCO	112
KRAY2524ER	22
KRAY2524KR	22
KRAY4024ER	22
KRAY4024KR	22
KRAY42ER	22
KRAY42KR	22
KREVO2024ER	30
KREVO2024KR	30
KRING	138
KSC52KR	58
KSC82KR	58
KSN52ER	34
KSN52KR	34
KSTAR2024KR	26
KSTI1	118
KSTIKDB	118
KSTIKDW	118
KSTIKFB	119
KSTIKFW	119
KSTIKTB	120
KSTIKTW	120
KSTIKUB	118
KSTIKUW	118
KSTIKVB	121
KSTIKVW	121
KSUB44-R	138
KSUB44BR	138
KSUB44DR	138
KSUB44GR	138
KSUB44MR	138
KSUB44OR	138
KSUB44RR	138

CODES	P.
KSUB44WR	138
KSUB44WS	138
KSUN4024ER	44
KSUN4024KR	44
KSUN4224KR	50
KSUN52ER	50
KSUN52KR	50
KSUN7024ER	44
KSUN7024KR	44
KSUN82ER	50
KSUN82KR	50
KSUN11024ER	44
KSUN11024KR	44
KSUN122ER	50
KSUN122KR	50
KVIP7UER	64
KVIP7ER	64
KVIP10UER	64
KVIP10ER	64
KVIPLEDFB	63
KVIPLEDFW	63
INT	37
INT24	37
INT10	37
LUMY-230	142
LUMY-230E	142
LUMY-24	142
MA24	127
MUR-P	144
PA000	102
PA000L	108
PA001	102
PA001L	108
PA003	102
PA005E	113
PA007	113

CODES	P.
PA008	113
PA009	113
PA011	112
PA011L	112
PA012	112
PA012MW	112
PA014S	112
PA020	103
PA021	103
PA022L	109
PA023	103
PA023L	109
PA024	103
PA025CT	112
PA032	103
PA033	113
PA034	113
PA151K	102
PA151LK	108
PA152K	104
PA152LK	110
PA1901K	102
PA1901LK	108
PA1902K	104
PA1902LK	110
PA2101K	102
PA2101LK	108
PA2102K	104
PA2102LK	110
PA2501K	102
PA2501LK	108
PA2502K	104
PA2502LK	110
PA2901K	102
PA2901LK	108
PA2902K	104

CODES	P.
PA2902LK	110
PA3301K	102
PA3301LK	108
PA3302K	104
PA3302LK	110
PA3701K	102
PA3701LK	108
PA3702K	104
PA3702LK	110
PA4201K	102
PA4201LK	108
PA4202K	104
PA4202LK	110
PLAY2R	139
PLAY4R	139
PO24	127
PROF	87
PROF6	87
PS-400FA	75
PS-400FA-R	75
PS400-24FA	75
QUADRO	123
RAY2524	19
RAY2524E	19
RAY40	21
REV1	29
REV2	29
REV3	29
REVO2024	29
REVO2024S	29
RIMAE	90
RX2H	133
RX4S	140
RX4X	140
RXIX23	53
RXM-44R	140

CODES	P.
RXM230-42	140
RXMX23	140
SBCO	63
SBLEXT	33
SBLINT	37
SBLST	63
SC-30CSM	53
SC52	57
SC82	57
SC162	79
SC202MHD	81
SC252M	81
SC400M	83
SEL-EU	145
SEL-M	145
SEL-R	145
SEL-W	145
SEL-T	145
SKIRT	90
SMNPAE	112
SN-50	33
SN50B	33
SN-50-24	33
SN5024B	33
SPA25	112
ST-650	67
ST-1200	67
ST-1600	67
ST-1800	67
STANAV	75
STAR2024	25
STF-SEZ	63
STPOAVS	75
STS-SEZ	63
SUB-44R	138
SUB-44W	138

CODES	P.
SUB-44WN	138
SUB-44WR	138
SUB-44WRT	138
SUB44F	138
SUB44WF	138
SUN4024	43
SUN4224	47
SUN50	49
SUN7024	43
SUN80	49
SUN11024	43
SUN120	49
SULU	142
SUMCH	144
SW6200	95
SW6200EF	95
SW6240E	97
SW6240EFE	97
SW12200	95
SW12200EF	95
SW12240E	97
SW12240EFE	97
SW-EF	95
SW-EFE	97
TAG	112
TAP	146
TS	19
TZ-1500	67
TZ-2000	67
VIP1	63
VIP7U	63
VIP7	63
VIP10U	63
VIP10	63
VIP104	63
XRMAN	139

# GENERAL TERMS OF SALE

## 1. EFFECTIVENESS OF THESE GENERAL CONDITIONS OF SALE

These general conditions of Sale will replace all previous conditions and are applicable to all orders submitted to Key Automation Srl (hereinafter referred to as Key Automation) for products carrying the Key Automation trademark. All sales of goods by Key Automation to its Customers (hereinafter referred to as Customer) shall be governed by the following General Conditions of Sale, which shall constitute an integral part of any agreement for the sale of goods between Key Automation and Customer, and shall supersede and cancel any inconsistent covenant or provision contained in the order or other document issued by the Customer. Illustrations, descriptions, values tables and other materials contained in Key Automation catalogues and other printed materials are for the sole purpose of identification, and may be modified by Key Automation at any time without prior notice.

## 2. ORDERS

Any orders shall be deemed as issued "subject to availability of the goods and any alteration of the price lists". Key Automation reserves the right to accept or reject, in whole or in part, any order submitted by the Customer, on account of their compliance with these General Conditions, and of the availability of the goods order. Key Automation reserves the right to change/modify the technical characteristics of its products at any time and without prior notice or liability. Orders placed by the customer cannot be cancelled by the Customer, either wholly or partially, after ten days of being submitted to Key Automation: if any orders are cancelled after such term, Key Automation shall be entitled to payment of the whole price.

## 3. PRICES

The goods shall be sold by Key Automation to Customer at the prices set out in the Key Automation price list effective at the time of delivery. The Customer shall unconditionally accept any variation of the price list made between the time of order and the time of delivery. Any new Key Automation price list cancels and substitutes the previous ones. All prices in the Key Automation catalogue are "ex factory" and before tax.

## 4. DELIVERY TERMS

All goods shall be delivered "ex factory" Key Automation S.r.l., via Volta 30 30020 Noventa di Piave (Venezia). Except for different written agreement delivery terms are 10 days for National shipment and 30 days for International shipment, a part for products signed on price list with red sign on right part of paper, which have a delivery time of 6 weeks. Delivery terms start from customer acceptance of Key Automation order confirmation. In case of delay of delivery not exceed in customary allowances, the Customer shall not be entitled to claim for termination, in whole or in part, of the agreement, or to refuse to accept delivery of the goods, or to claim compensation for damages. The obligation to deliver the goods shall be fulfilled upon delivery of the goods to the carrier. Key Automation shall be released from the obligation to deliver the goods in any event of "Act of God" or "force majeure", such as strikes, social and political disorders, unavailability of raw materials, electrical components or other products, and any other events preventing Key Automation from delivering the goods, for which Key Automation

## 5. SHIPMENTS

The goods shall be shipped on such carrier(s) as Key Automation may select, and Key Automation shall charge the relevant amount to the Customer including in the relevant invoice. The customer may agree with Key Automation at the time of order, to use a different carrier (always at the customer costs, or to collect the goods directly ex factory Key Automation S.r.l., Noventa di Piave, Venezia. All risks shall pass to the Customer at the time of delivery. Thefts, losses, damages, shortfalls shall not release the Customer from the obligation to pay the price, if the goods have been duly delivered to the carrier at Key Automation factory. The goods shall not be covered by insurance, unless expressly required by the Customer and at Customer's cost and risk.

## 6. COLLECTION OF THE GOODS

The Customer shall properly collect the goods as soon as they are put at the Customer's disposal, and communicated to him through telephone, fax or e-mail. In case of delay, Key Automation shall be entitled to full payment of the price and reimbursement for any cost of storage and custody of the goods, saving any compensation for damages. Key Automation shall not be liable in respect of any damage resulting directly or indirectly from the storage of any goods not collected when available at the Key Automation warehouses of the carrier, forwarding agent or third parties.

## 7. WARRANTY

Our guarantee takes effect from the date of manufacturing, put on each Key's product and it lasts for 30 months. This warranty period is fix and imperative. It is limited exclusively to the repair or replacement free of charge of the parts recognised by Key Automation as faulty due to lack of essential qualities in the material or to errors in workmanship. Any complaints about apparent defects shall be claimed to Key Automation compulsory no later than 8 days after delivery and occult defects within 8 days from discovery. If these terms are not respected the warranty is not valid. Complaints never allow the order reducing or cancellation from Customer, and moreover never allow Key Automation refund or compensation. All expenses related to delivery and dispatch of complained material are charged to the customer.

Key Automation shall not be responsible for any direct or consequential damage or inquiry caused by installation and use of any equipment. In the event of totally or partially irreparable equipment, Key Automation shall arrange for its replacement in the state in which it is or, upon explicit request of the customer, shall repair the same by replacing the irreparable parts, charging the customer with the whole cost of the new parts supplied. Key Automation shall not be held responsible for defects resulting from connection, combination, or interaction of its products with other products not supplied by Key Automation. Key Automation products can only be used in combination with other Key Automation's products, failing which this warranty will cease to be effective. Key Automation disclaims all liability for defects or damage resulting from failure to comply with its assembly and wiring instructions, or with any electrical codes or other regulations locally in force at the time of installation. Moreover the Manufacturer disclaims all responsibility for defects or damage resulting from improper installation, use or connection of any accessories and or electrical or mechanic components manufactured by Key Automation, including failure to comply with the diagrams and types of connections for which these products have specifically been designed, as well as for the use or application of these products for purposes other than those for which they are intended, in compliance with their specific capacity and range. For products longer covered by this warranty Key Automation shall provide repair services, charging the related costs to the Customer. In case of products that cannot be repaired, Key Automation shall, at its sole discretion, replace them, and charge related costs to the Customer.

## **8. COMPLAINTS AND RETURNED GOODS**

No complaints are accepted after 8 days from the receipt of the goods. Any return of goods for credit must be authorised before and by Key Automation. Goods returns and shipment freight are of customer charge. Any communication has to be done to Key Automation headquarter.

## **9. CANCELLATION CLAUSE**

If the customer fails to pay the total price of goods or even a part of it by the previously agreed expiration date specified in the invoice, Key Automation will be entitled to cancel the right of goods receipt by the customer, cancel the sale and moreover charge the customer with interests on arrears in equal measure to standard norms and not inferior to current bank interests. Key Automation is also entitled to cancel the sale at any moment by simply forwarding a written notice of cancellation to the customer without the involvement of any juridical court. Goods that have been delivered to customers but not paid completely should be given back to Key Automation on customer's charge. In order to do so, Key Automation and any other entitled third party or carrier are authorized to demand and retire unpaid goods from customer's facility. It is not an any kind of compensation possibility between possible credits claimed by customer and its debts with Key Automation, except if agreed by Key Automation with formal written agreement between the parts.

## **10. TRADEMARKS AND DISTINCTIVE MARKS**

The customer is aware of the fact that Key Automation products are subjected to both the know-how and design intellectual ownership right which is an exclusive industrial property of Key Automation. Customers shall not violate the rights of Key Automation by removing, covering or in any way changing trademarks, distinctive marks or labels and the like attached to products and shall not apply there on new trademarks, distinctive marks or labels and the like of any kind. Unless written authority is given by Key Automation to the contrary any form of reproduction use by the Customer of the Key Automation trademark, logos, emblems, symbols and the like attached to or applied on the products is forbidden.

## **11. RETENTION OF TITLE**

Notwithstanding any other provision contained herein, it is acknowledged and agreed that ownership of the goods shall pass to the Customer only upon full payment of the total price; therefore until full payment (including interest) is received by Key Automation, the goods delivered - wherever they may be held and even if they have already been resold by the Customer - shall remain the sole and exclusive property of Key Automation.

Any cheques, bills of Exchange and transfer of credit will count as payment only upon collection. In the event of non - payment, Key Automation shall be entitled to immediate repossession sold products wherever they may be located. The Customer shall disclose the names of any third purchasers of the products, from whom Key Automation shall be entitled to claim and collect them

## **12. ITALIAN LAW AND COMPETENT COURT**

The place of jurisdiction for any dispute that may rise in relation to the performance of the contract is the Law Court of Treviso (Italy).

## **13. VARIOUS**

At the time of signing the contract or order confirmation, the Customer accepts these general terms. Any modification to the general terms must be signed by Key Automation and stipulated in written form. For sales made in foreign countries, Italian law will be applied.

All information have been listed and carefully checked by Key Automation, but the company decline any kind of responsibility for possible mistakes or omissions.



New Products Concept and Design:  
Nicola Michelin  
R&D Key Automation  
Catalogue Concept:  
Marketing Key Automation





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