



GATES AND DOORS AUTOMATION 2024

[www.keyautomation.me](http://www.keyautomation.me)



New products Concept and Design: Nicola Michelin  
Research and Development: Key Automation  
Catalogue Concept: Marketing Key Automation



# GATE & DOOR CATALOGUE 2023

Automations for gates, garage doors, pedestrian doors,  
road barriers and outdoor led lighting



### BIRTH

The company was founded in 1999



1999



### NEW TEAM

A new talented team is ready for a change of pace, the reorganization and the engineering of the new product range starts



2011



### SUB

The first new product arrives to the market with success: it immediately shows the technical capabilities of the company



2012



### NLS

Start-up of the Night Light System, the most innovative product range in the history of gate automation



2014



### NEW HEADQUARTERS

Key Automation moves to a new headquarter, doubling the warehouse space and with a new production area, equipped with the latest technologies



2017

### KUBE & KUBE PRO

An innovative Bluetooth interface for the configuration and management of Key Automation systems via App and Cloud server



### HALO

First garage door motor with integrated LED lighting, to light up the garage



2019

### NEW PARTNERS

Leading companies in our business choose Key Automation as partner for the production of their residential motors



### LEVANTE

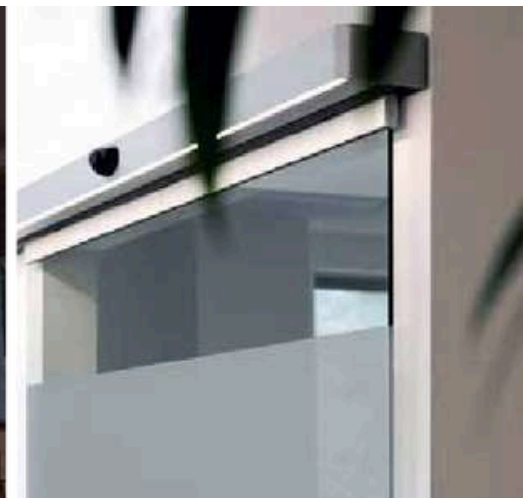
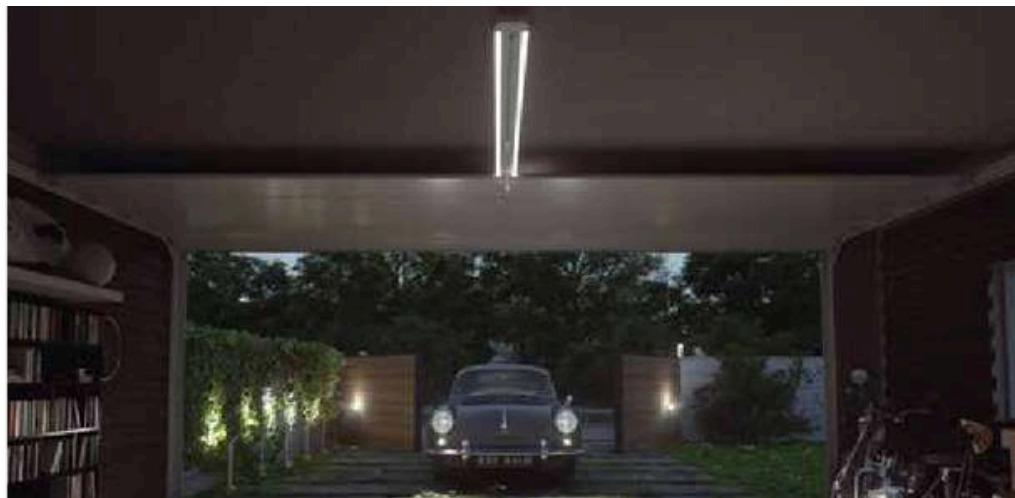
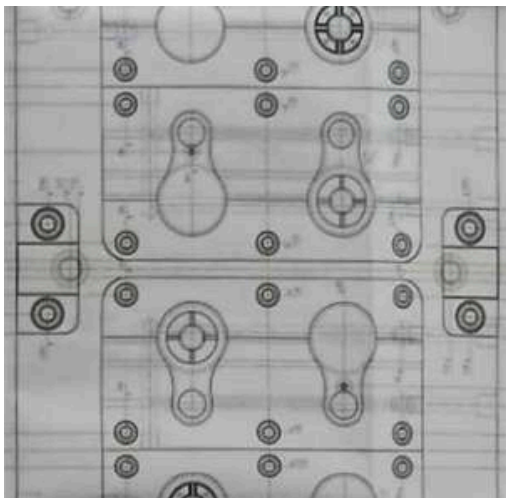
The new LEVANTE automatic doors introduced in the market. This revolutionary product is designed to have the most compact profile, combining a record capacity up to 160 kg or 120+120 kg



2021

### EGO TOUCH

A new range of touch capacitive keypad with RGB backlighting





# KEY AUTOMATION

## HISTORY

Key Automation is located in San Donà di Piave, Venice, in the heart of the Veneto region

The quality of products and processes is our focus

To maintain consistency over time, we have invested in research and development, internalising all the know-how required for product development, from mechanics to electronics, IoT software and design

## KEY TODAY

We provide a technologically advanced, comprehensive range, that is easy to program and use. We assemble our products in-house and test all production processes to provide our partner customers with an optimum service and high-quality products

In 2017 we opened the new plant, doubling the space compared to the previous site. This modern building accommodates final product assembly, using all the modern approaches pioneered by Industry 4.0

Our testing machines control 100% of in-house production, to deliver quality at the highest level





# MECHANICAL

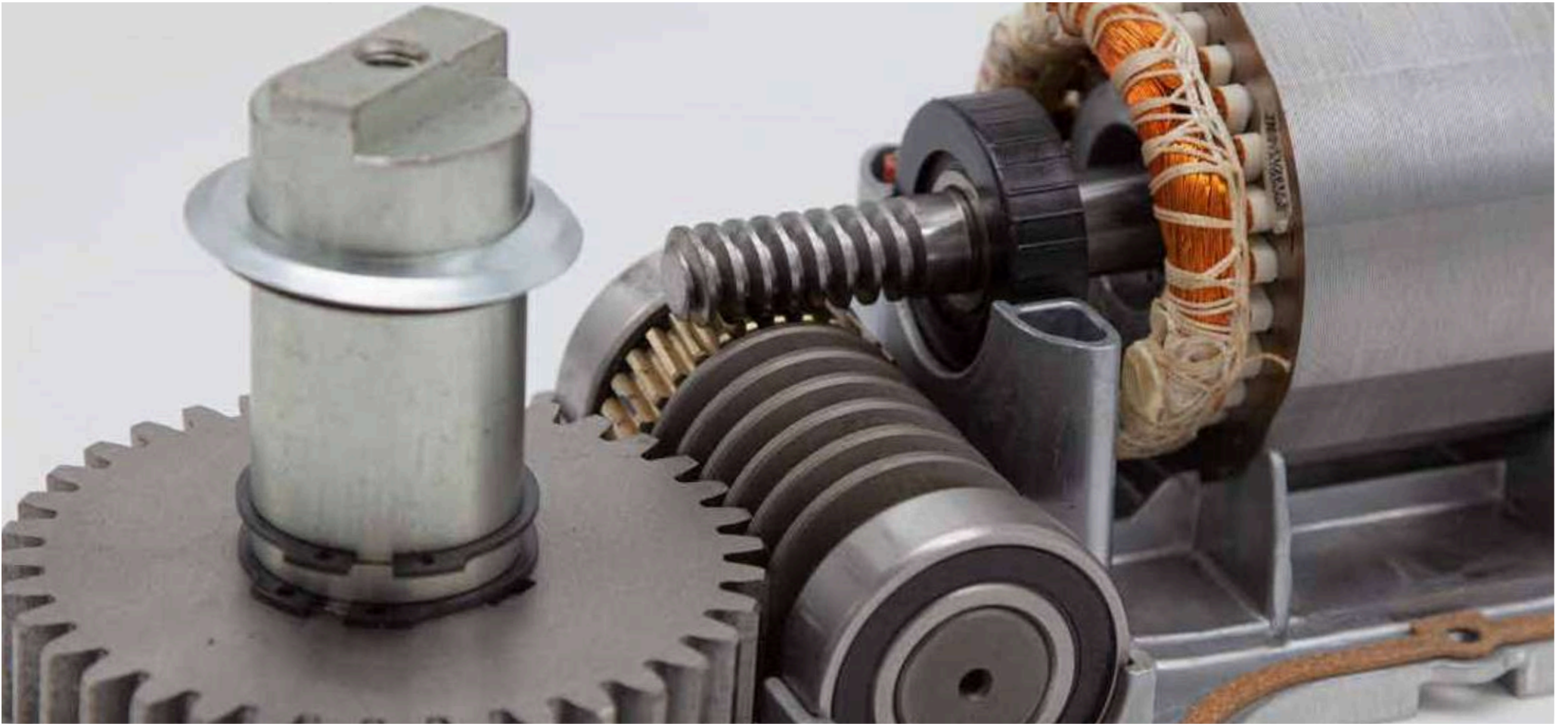
## ROBUST AND DURABLE MECHANICAL ENGINEERING

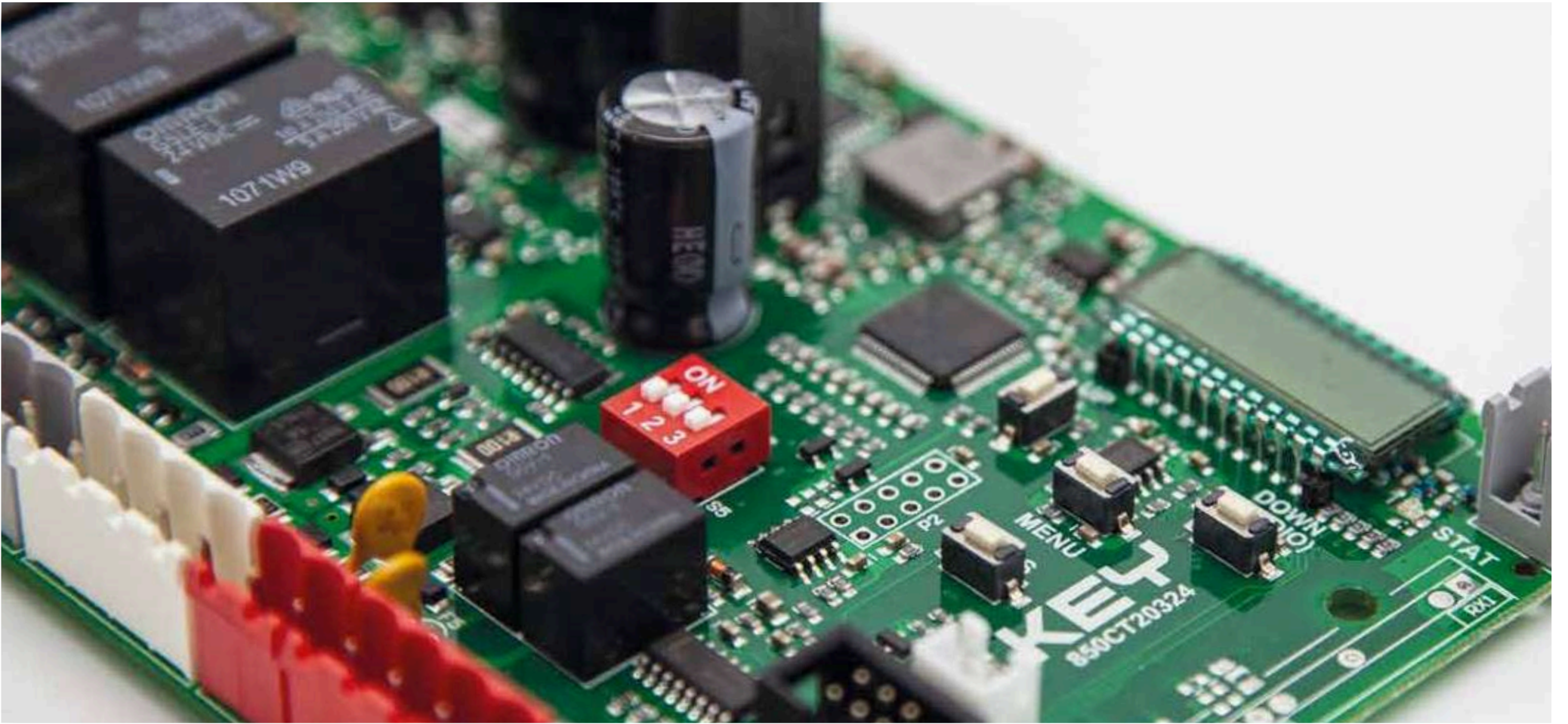
Our products are made with the highest quality materials

For demanding or heavy-duty applications, we only use steel and bronze billet gears, oversized electric motors, ball bearings and high-performance lubricants. Die-cast aluminium shells are dimensioned to protect mechanisms over time, even from accidental damages. For plastics, we use premium materials, such as **ASA** and **BAYBLEND®**, so they will not yellow or fade over time

To appreciate our mechanical engineering quality, we invite you to weigh one of our motors against a comparable one from our competitors









# ELECTRONICS

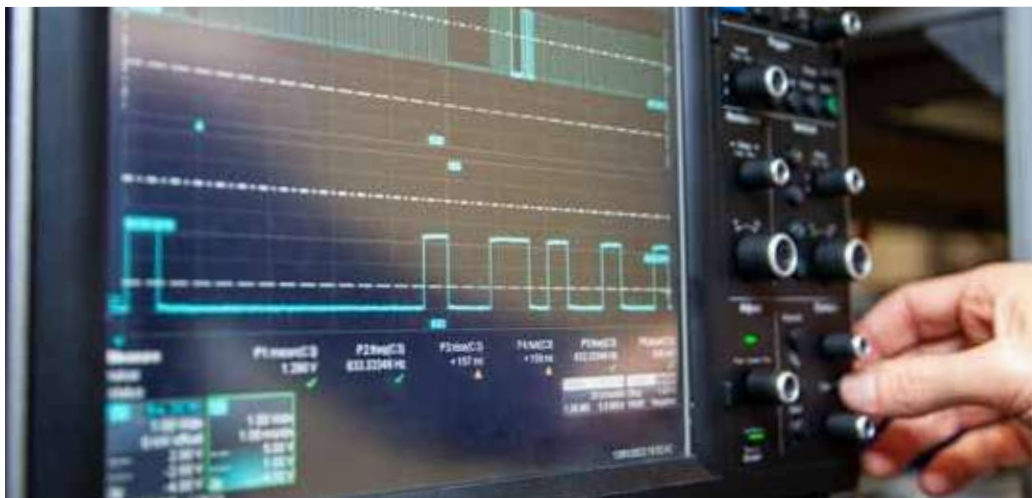
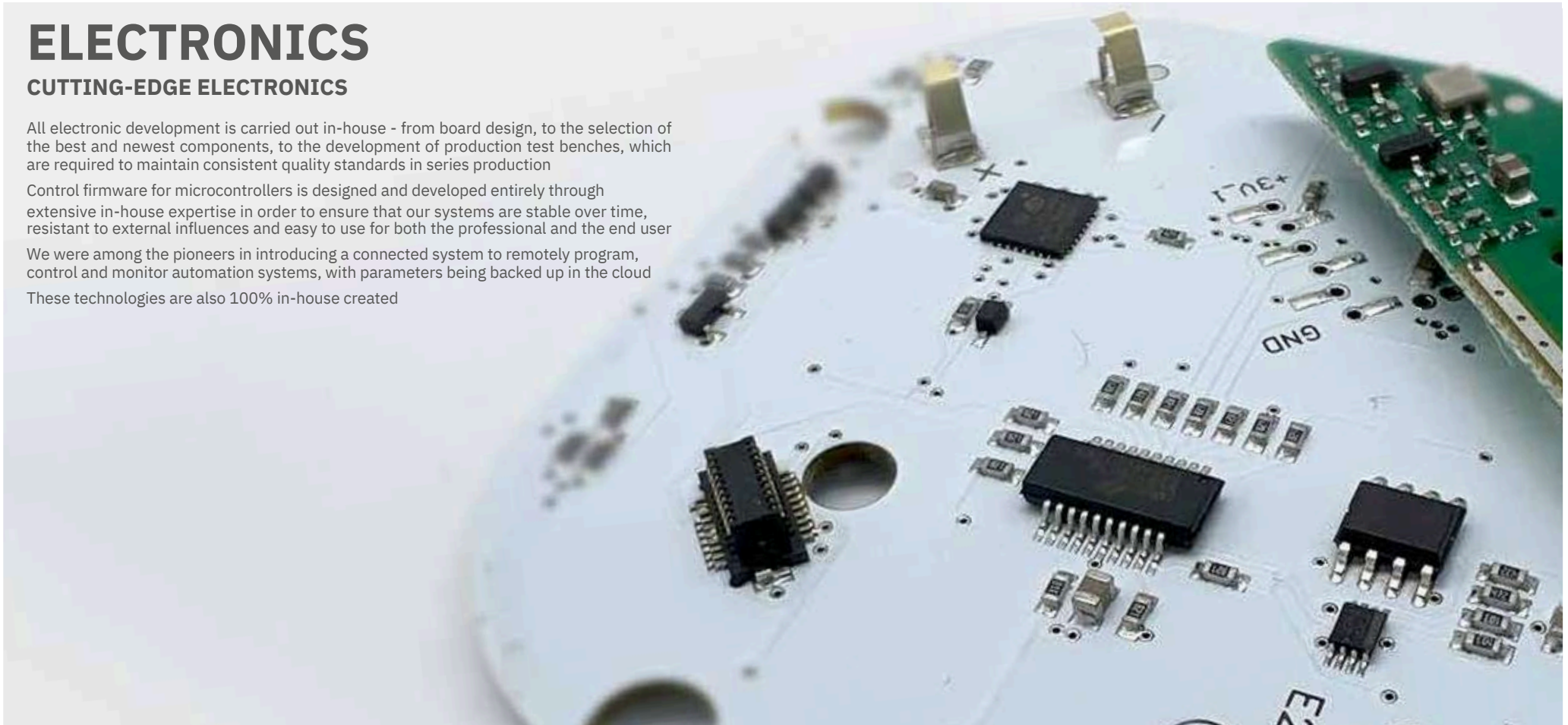
## CUTTING-EDGE ELECTRONICS

All electronic development is carried out in-house - from board design, to the selection of the best and newest components, to the development of production test benches, which are required to maintain consistent quality standards in series production

Control firmware for microcontrollers is designed and developed entirely through extensive in-house expertise in order to ensure that our systems are stable over time, resistant to external influences and easy to use for both the professional and the end user

We were among the pioneers in introducing a connected system to remotely program, control and monitor automation systems, with parameters being backed up in the cloud

These technologies are also 100% in-house created





# 14A

## ONE CONTROL BOARD FOR ALL 24V AUTOMATION SYSTEMS

- Option to select and combine power modules according to your needs
- Night light management up to 20W
- The same programming for all motors
- Programming using KUBE PRO wireless module
- LED indicator for inputs and safeties
- Removable DYL programming display to protect the automation system
- CLOUD back-up of installation parameters



## APP INTERFACES

Two native APPs for the professional and the end user

### KUBEPRO

The KUBE PRO professional interface makes it as easy as can be to set up the system  
The dedicated Key Cloud allows you to collect your installation data, thus creating a database of your customers, an overview of the interventions undertaken and the geolocation of each automation system, thus guaranteeing a rapid, efficient service that reduces response times for your customers

### KUBE

The KUBE interface for end users allows shared access, including the possibility to set dates and times, via smartphone without using the remote control.  
With KUBE, you can also check the state of your automation at any time, and even edit the main operating parameters such as the brightness of the Night Light System





# 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

## 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 property

## COMFORT

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

## 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 2 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 for swing gates (Ray, Révo), with three courtesy lights at medium-high power, continuously lit for 12 hours a day, every day of the year, at a cost of energy equal to 0.21 Euros/kW (average price for residential use)

# EGO

## KEY AND DIGITAL SWITCHES EGO

### COMFORT

The EGO collection of accessories has been developed to ensure the user everyday functionality without ever having to forego the aesthetic factor

### DESIGN

Minimal design, it is universal and compatible with a whole host of electronic systems, such as electric locks, doors, automatic gates, shutters and alarms. Available with an all-metal shell or plastic base

### EGO TOUCH TECHNOLOGY

The new 433.920 MHz radio controlled touch keypad has a built-in antenna and is powered by AAA lithium batteries

### EGO TOUCH PERFORMANCES

It features RGB LED backlighting with a choice of 7 different colors and energy saving mode that allows you to switch off the lighting in the daytime thanks to the built-in night sensor

### KEY SELECTOR PERFORMANCE

The base is made of hand-brushed, painted metal

The metal front is powder-coated and equipped with a mechanical burglar-resistant device that prevents the selector switch from being removed without the original key





# COLUMN SUPPORTS

New EGO series column supports for photocells, switches and keypads

## WITH NIGHT LIGHT SYSTEM

The new EGO series of column supports combines safety devices with the exclusive courtesy Night Light System, to turn the classic unattractive column into a sophisticated designer lighting fixture

## DESIGN

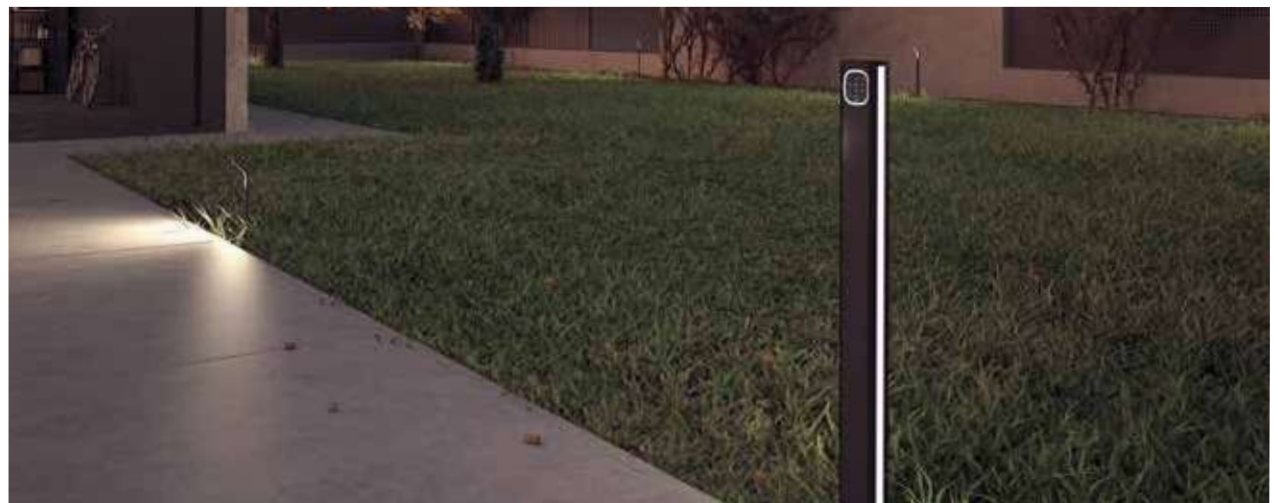
Made entirely of thick aluminium and metal for added strength and long-term resistance to the elements

## COMPATIBILITY

A wide range of accessories can be installed inside – photocells from the FT23, 43 and 43B series, key selector and touch keypads from the EGO line, fully integrating them into the main body and simultaneously benefiting from the advantage of the automatic Night Light System, which allows driveways to be fully lit at night

## MULTIFUNCTIONAL DESIGN

The columns are fully modular. They can act as a support for safety accessories or an outdoor luminaire, or a combination of both (patent pending)



# NEW-GENERATION LEDs

## NEW INTEGRATED LED STRIPS

### DESIGN

The new continuous, seamless LED strips enhance the naturalness of colours and illuminated objects

### SHARPNESS

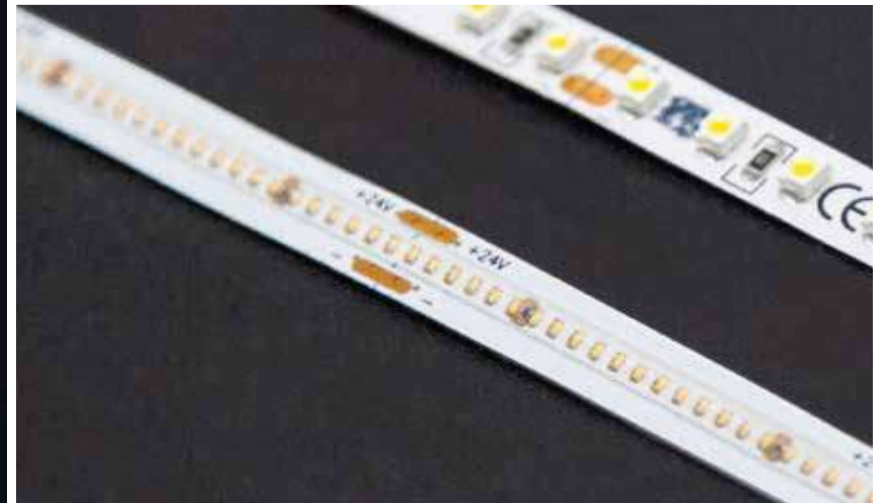
LED strips with a Colour Rendering Index (CRI) >90 ensure faithful colour reproduction even outdoors in addition to a high levels of illumination

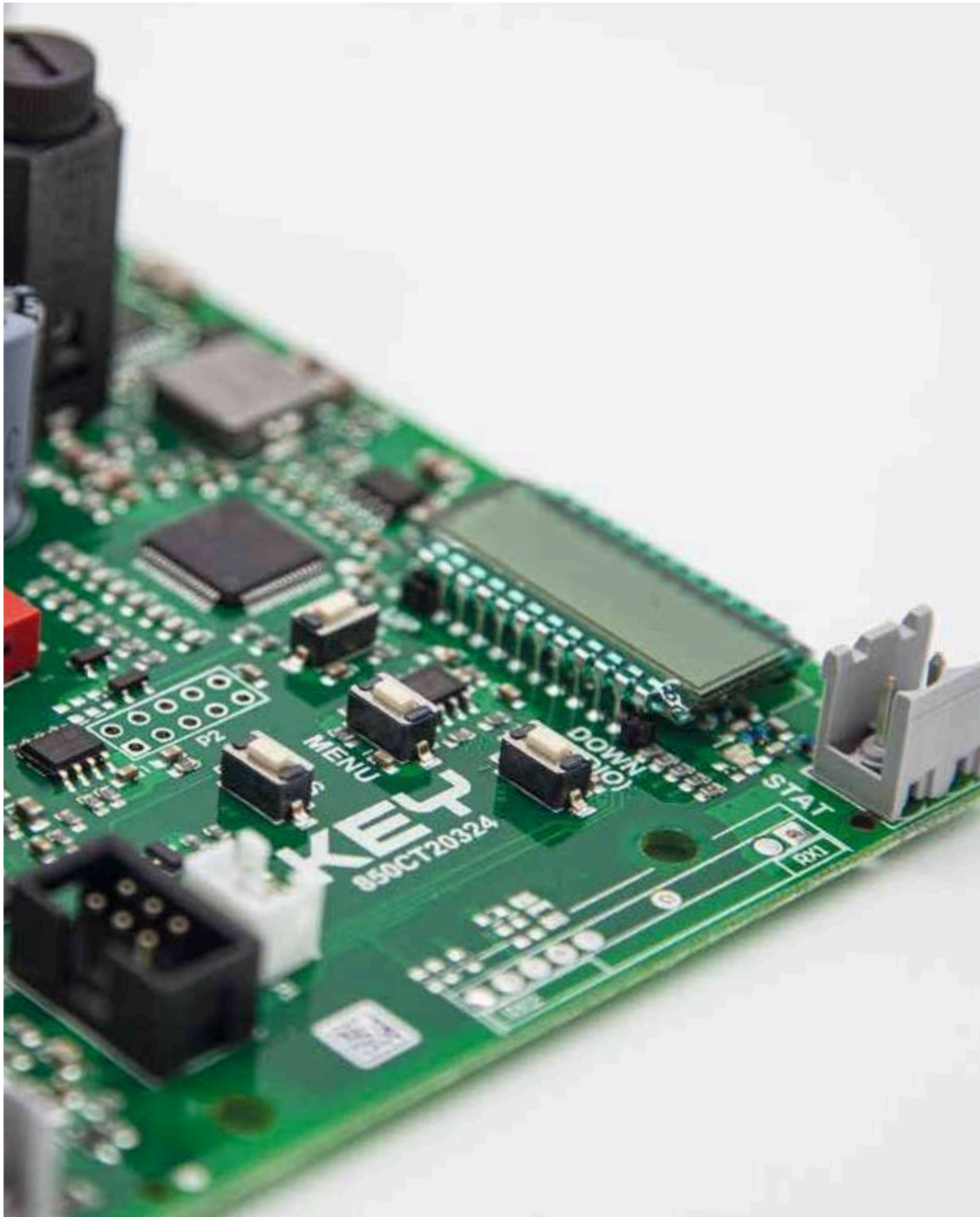
### COMPATIBILITY

The new LEDs are backward compatible, i.e., they can be substituted for previous versions on all KEY products

### PROTECTION RATING

Improved weather resistance to IP65, ensuring full protection against the penetration of solids and liquids (drops, vapours, splashes and water jets)





# NEW CT10324 AND CT20324 CONTROL UNITS

## SIMPLIFIED PROGRAMMING

Improved and unified programming logic for 20324 and 10324 control units with software-based motion reversal

### EASY READING

New 5-character / 16-segment display for more natural and intuitive reading

### TECHNOLOGY

Option of programming with KUBE PRO wireless module. Opening and closing via APP with KUBE module (from FW version 2.0)\*

### POSITION DETECTOR

Improved software position detection with no need for a physical encoder

### PROTECTION RATING

Fully protected control unit enclosure for better protection against the effects of weather

### ENCODER

Diagnostic LED for physical encoder fault detection (CT10324)

### ENERGY SAVING

Designed for future installation of a stand-by energy-saving module (2024)

### SAFETY

Disabling of safeties via dip-switch

### PLUS

250W transformer included (CT20324E in box)



\* CT20324 available from June 2023 and CT10324 available from September 2023



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud



Night Light System: automation system with integrated LEDs in motor body and flash light



FASTLINE motors provide faster closing and opening times, and ensure shorter waiting times and the utmost in safety



All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically

 MEANS PRODUCTS WITH LONGER DELIVERY TIME (WITHIN 6 WEEKS)



## KEY HOME HOME SOLUTIONS

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SYSTEMS FOR SWING GATES	2
SYSTEMS FOR SLIDING GATES	0
SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS	4

## KEY INDUSTRY INDUSTRIAL AND COMMERCIAL SOLUTIONS

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SYSTEMS FOR SWING GATES	0
SYSTEMS FOR SLIDING GATES	7
ROAD BARRIERS	4

## KEY ACCESSORIES ACCESSORIES

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12

4

6



# KEY HOME HOME SOLUTIONS

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## SYSTEMS FOR SWING GATES

	<b>20</b>
RAY	22
RAY KIT	26
STAR	28
STAR KIT	30
RÉVO +	32
RÉVO KIT	36
MEWA	40
MEWA KIT	42
UNDER	44
UNDER KIT	46

## SYSTEMS FOR SLIDING GATES

	<b>48</b>
SUN	50
SUN KIT	54
TURBO	56
TURBO KIT	58

## SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS

	<b>60</b>
HALO	64
HALO KIT	66
BLINDO	68
BLINDO KIT	70

# SELECTION GUIDE

## SYSTEMS FOR SWING GATES

### RAY

GEAR MOTOR FOR LEAVES UP TO 4 m

24 V, intensive use, up to 3 m



RAY2524  
RAY2524E  
RAY2224  
RAY3024F

24 V, intensive use, up to 4 m

RAY4024  
E  
RAY4224  
E

24 V, intensive use, up to 4 m, reversible

KRAY4024R

230 V, normal use, up to 4 m

RAY40

### STAR

GEAR MOTOR FOR LEAVES UP TO 3 m

24 V, intensive use, up to 3 m

STAR3024

### RÉVO+

GEAR MOTOR WITH ARTICULATED ARMS FOR LEAVES UP TO 2,3 m

24 V, intensive use, with control unit

REP2024/REP2324

24 V, intensive use, only motor

REP2024S/REP2224S

### MEWA

GEAR MOTOR WITH ARTICULATED ARMS FOR LEAVES UP TO 4 m

230 V, normal use

SN-50/KSN50B

24 V, intensive use

SN-50-24/KSN5024B

### UNDER

GEAR MOTOR FOR LEAVES UP TO 3,5 m

230 V, normal use

UND

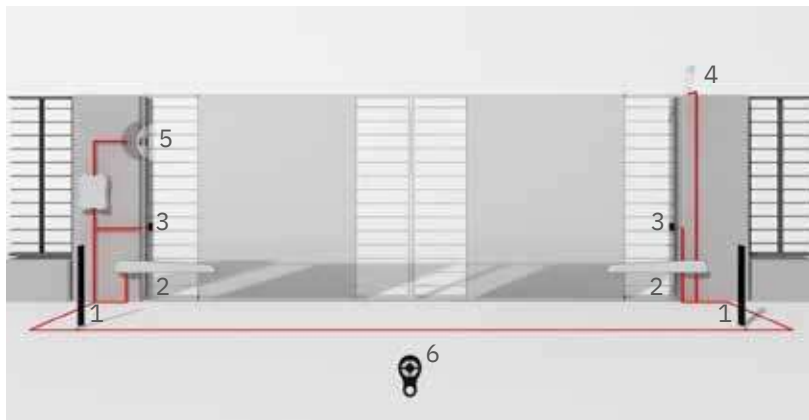
230 V, normal use, cable 10 m

UND10

24 V, intensive use



UND24  
UND24F



**STANDARD INSTALLATION  
FOR SWING GATES**

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

ELECTROMECHANICAL GEAR MOTOR FOR SWING GATES WITH LEAVES UP TO 4 m, 24 Vdc WITH INTEGRATED NIGHT LIGHT SYSTEM



## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>RAY2524</b>	For swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor	25
<b>RAY2524E</b>	For swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor, with encoder	25
<b>RAY4024E</b>	For swing gates with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor, with encoder	25
<b>KRAY4024R</b>	For swing gates with maximum length 4 m or max weight 500 kg per leaf, 24 Vdc motor, reversible, included of power module PO24R, with encoder	25
<b>RAY3024F</b>	For swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor, with encoder	5

## PLUS

High technological materials resistant to weather conditions

User friendly. Manual unlock possible with Sub transmitter

Built in LED light in the front of the motor body, to light up gate entrance and define width of the passage at night UV-resistant plastic covers

Aligned front and rear mounting brackets for ease of motor installation

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

### FASTLINE

RAY FAST: opening speed at 90° in 10 seconds\*

\* slow down phase excluded



Built-in LED light mask




Possibility to unlock motor with transmitter



Robust bronze lock nut on endless screw

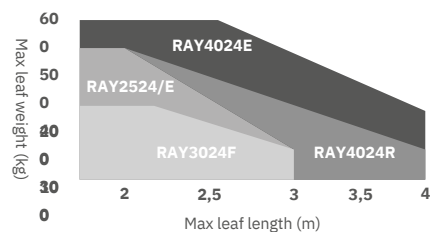


Metal gearing (RAY4024E, RAY4024R, RAY3024F)

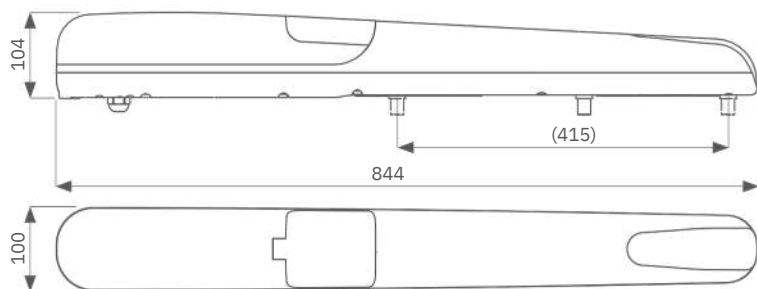
		RAY2524	RAY2524E	RAY4024E	KRAY4024R	RAY3024F
<b>MECHANICAL DATA</b>						
speed	cm/s	2,6	2,6	1,5	3	3,8
pulling force	N	1500	1500	2000	1000	1000
working cycle	%	80	80	80	80	80
opening time at 90°	sec	18-25*	18-25*	20-25*	20-25*	10-15*
<b>ELECTRICAL DATA</b>						
control board		14AB	14AB	14AB2	14AB2	14AB2F 
power	Vdc	24	24	24	24	24
consumption	A	3,5	3,5	5	5	5
absorbed power	W	85	85	120	120	120
integrated lights		yes	yes	yes	yes	yes
<b>GENERIC DATA</b>						
protection degree	IP	44	44	44	44	44
dimensions (L - D - H)	mm	844 - 100 - 104				
weight	kg cad	8,01	9,65	9,3	9,4	9,3
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55	-20 + 55
leaf maximum weight	Kg	500	500	600	500	300

\* with optimized fixing dimensions

## 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. The RAY4024 model is recommended for condominium installations



## ACCESSORIES

 <b>ADFB</b> Pair of adjustable front mounting brackets	 <b>ADRB</b> Pair of adjustable rear mounting brackets	 <b>ADWA</b> Adapter kit for competitors motors	 <b>FCRAY</b> Mechanical stop in closing
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>ELS-C</b> 12 V horizontal electric lock. Up to 2000 Kg	 <b>KBP</b> Kit of 1.3 Ah lead battery and battery charger	 <b>KITFIXBATT</b> Fixing brackets for batteries 24V	 <b>KC</b> Unlock key cylinder
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>EXRB</b> Extension bracket for outside opening	 <b>STAF032A00</b> Adapting rear bracket	 <b>550CABL045A00 *</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm² (100m)	 <b>14AB2</b> Control unit in box for two 24 Vdc motors
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>14AB2F</b> Control unit in box for two 24 Vdc motors (only RAY3024F)	 <b>DYL</b> Programming module Cable length 120 cm (only 14A board)	 <b>KUBEPRO</b> Wireless programming module	 <b>KUBE</b> Wireless controlling module for end user
PZ. 1	PZ. 1	PZ. 1	PZ. 1

\* it is not recommended to use a connection longer than 4 m to avoid sensible loss of reach



## PLUS

High technological materials resistant to weather conditions



Manual unlock possible with Sub transmitter. User friendly

UV-resistant plastic covers

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

Aligned front and rear mounting brackets for ease of motor installation

## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>RAY40</b>	For swing gates with maximum length 4 m or max weight 600 kg per leaf, 230 Vac motor	25
 <b>RAY2224</b>	For swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor	25
 <b>RAY4224E</b>	For swing gates with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor with encoder	25



Stylish design screwless at sight



Possibility to unlock motor with transmitter



Brackets in line



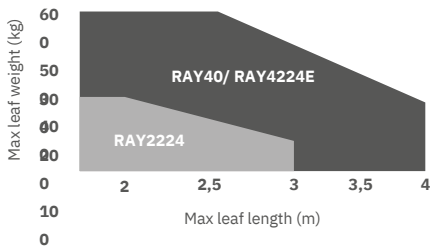
Metal gearing (RAY40, RAY4224E)



## TECHNICAL DATA

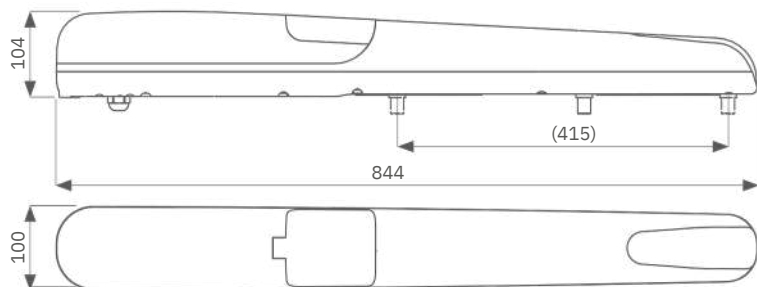
		RAY40	RAY2224	RAY4224E
<b>MECHANICAL DATA</b>				
speed	cm/s	1,6	2,6	1,5
pulling force	N	2000	1500	2000
working cycle	%	40	80	80
opening time at 90°	sec	20-25*	18-25*	20-25*
<b>ELECTRICAL DATA</b>				
control board		CT202	CT20324	CT20324E
power	Vac	230	-	-
	Vdc	-	24	24
consumption	A	1,2	3,5	5
absorbed power	W	280	85	120
capacitor	µF	8	-	-
thermoprotection	°C	150	-	-
<b>GENERIC DATA</b>				
protection degree	IP	44	44	44
dimensions (L - D - H)	mm		844 - 100 - 104	
weight	kg cad	10,2	8	9,3
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
leaves maximum weight	Kg	600	300	600
*with optimized fixing dimensions				

## 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. The RAY4224E model is recommended for condominium installations

## DIMENSIONS



## ACCESSORIES

 <b>ADFB</b> Pair of adjustable front mounting brackets	 <b>ADRB</b> Pair of adjustable rear mounting brackets	 <b>ADWA</b> Adapter kit for competitors motors	 <b>FCRAY</b> Mechanical stop in closing
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>ELS-C</b> 12 V horizontal electric lock. Up to 2000 kg.	 <b>KBP</b> Kit of 1.3 Ah lead battery and battery charger	 <b>KITFIXBATT</b> Fixing brackets for batteries 24V	 <b>KC</b> Unlock key cylinder
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>EXRB</b> Extention bracket for outside opening	 <b>STAF032A00</b> Adapting rear bracket	 <b>CT20324</b> Control unit 2 motors, 24 Vdc in box (only RAY2224)	 <b>CT20324E</b> Control unit 2 motors, 24 Vdc in box (only RAY2224E)
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>CT202</b> Control unit in box for two 230 Vac motors (only RAY40)	 <b>RX4K</b> 4-channel plug-in receiver, 433MHz, for CT202 control unit	 <b>KUBEPRO</b> Wireless module for programming	 <b>KUBE</b> Wireless controlling module for end user
PZ. 1	PZ. 1	PZ. 1	PZ. 1

# RAY KIT

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



## PLUS

Easy slowdown and open limit settings

Mechanical parts well protected from external agents

Opening mechanical stop included for proper gate installation and use


Water resistant SUB remote control included


Night Light System with LED light included (NLS version)


14A control unit (NLS version)

CT20324 control unit (version without NLS)









CT202 control unit (version without NLS)

 Simple and intuitive programming and data management thanks to the KUBE PRO wireless module









 All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically

 IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud





## MODELS · WITHOUT NIGHT LIGHT SYSTEM

CODICE	DESCRIZIONE	WEIGHT	PCS PALLET
 <b>KRAY2524EK</b>	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop. With night light function included	21,7 kg	15
 <b>KRAY2524KK</b>	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop	21 kg	15
 <b>KRAY4024EK</b>	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown, opening mechanic stop and encoder. With night light function included	24,8 kg	15
 <b>KRAY4024KK</b>	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown, opening mechanic stop and encoder	24 kg	15
 <b>KRAY3024FEK</b> 	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop and encoder. With night light function included	18,65 kg	15
 <b>KRAY3024FKK</b> 	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop and encoder	18,65 kg	15









## KIT COMPONENTS

	 RAY	 14A	 ECLIPSE	 RX4K	 FT33/FT23	 SUB44WR	 SUB44R	 KUBE
KRAY2524EK	• 2 PZ.	• 14AB	•	•	• FT33	•		•
KRAY2524KK	• 2 PZ.	• 14AB		•	• FT23		•	•
KRAY4024EK	• 2 PZ.	• 14AB2	•	•	• FT33	•		•
KRAY4024KK	• 2 PZ.	• 14AB2		•	• FT23		•	•
KRAY3024FEK	• 2 PZ.	• 14AB2F	•	•	• FT33	•		•
KRAY3024FKK	• 2 PZ.	• 14AB2F		•	• FT23		•	•

## MODELS · WITHOUT NIGHT LIGHT SYSTEM


CODICE	DESCRIZIONE	WEIGHT	PCS PALLET
KRAY42ES	Kit for swing gates with leaves up to 4 m, 230 Vac motor, control unit with slowdown and opening mechanic stop	23,6 kg	15
KRAY42KS	Kit for swing gates with leaves up to 4 m, 230 Vac motor, control unit with slowdown and opening mechanic stop	23,5 kg	15
 KRAY2324ES	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop	21,1 kg	15
 KRAY2324KS	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop	20,9 kg	15
 KRAY4324ES	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop	18,4 kg	15
 KRAY4324KS	Kit for swing gates with leaves up to 4 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop	18,4 kg	15

## KIT COMPONENTS

	 RAY	 CT202	 CT20324	 LUMY	 RX4K	 FT33/FT23	 SUB44WR	 SUB44R
KRAY42ES	• 2 PZ.	•		•	•	• FT33	• 2 PZ.	
KRAY42KS	• 2 PZ.	•			•	• FT23		• 2 PZ.
KRAY2324ES	• 2 PZ.		•	•	INTEGRATED	• FT33	• 2 PZ.	
KRAY2324KS	• 2 PZ.		•		INTEGRATED	• FT23		• 2 PZ.
KRAY4324ES	• 2 PZ.		•	•	INTEGRATED	• FT33	• 2 PZ.	
KRAY4324KS	• 2 PZ.		•		INTEGRATED	• FT23		• 2 PZ.



## MODELS

CODE	DESCRIPTION	PCS PALLET
 <b>STAR3024</b>	For swing gates with maximum length 3 m per leaf, pair of irreversible 24 Vdc motors, without encoder (2 pcs, left and right)	15

## PLUS

Version without encoder

Easy slowdown and open limit settings

Mechanical parts well protected from external debris

Compatible with control unit CT20324 (optional)

Available in kit version

Motor up to 3 m max length



Sturdy telescopic stem



Robust gears and mechanical parts



New version without encoder

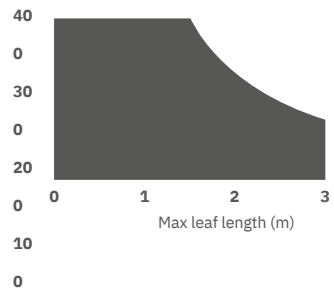


Metallic release system in composite material

## TECHNICAL DATA

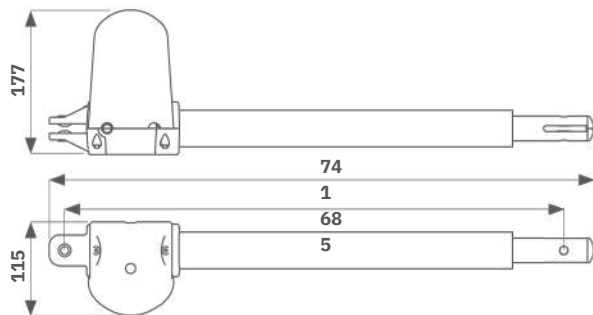
		STAR3024	
<b>MECHANICAL DATA</b>			
speed pulling force	cm/s		2,5
working cycle opening time at 90°	N		1400
	%		80
<b>ELECTRICAL DATA</b>	sec		18-25
control board power consumption absorbed		CT20324	
power <b>GENERIC DATA</b>	Vdc		24
protection degree	A		3,5
dimensions (L - D - H)	W		85
weight working			
temperature leaves	IP		54
maximum weight	mm	741 - 115 - 177	
	kg cad		9,24
	°C		-20 + 55
	Kg		400

## LIMIT USE









Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph

## DIMENSIONS



## ACCESSORI

			 NEW
<b>ELS-C</b> 12 V horizontal electric lock. Up to 2000 Kg	<b>KBP</b> Kit of 1.3 Ah lead battery and battery charger	<b>KITFIXBATT</b> Fixing brackets for batteries 24 V	<b>CT20324</b> Control unit 2 motors, 24 Vdc in box
PZ. 1	PZ. 1	PZ. 1	PZ. 1
			
<b>KUBEPRO</b> Wireless module for programming	<b>KUBE</b> Wireless controlling module for end user		
PZ. 1	PZ. 1		

# STAR KIT

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



## PLUS

Easy slowdown and open limit settings

Mechanical parts well protected from external debris



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
<b>KSTAR3324ES</b>	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown	14,2 kg	15
<b>KSTAR3324KS</b>	Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown	14 kg	15

## KIT COMPONENTS

	<b>STAR</b>	<b>CT20324</b> <span style="color: red; font-weight: bold;">NEW</span>	<b>LUMY</b> <span style="color: red; font-weight: bold;">NEW</span>	<b>RX4K</b>	<b>FT33/FT23</b>	<b>SUB44WR</b>	<b>SUB44R</b>
<b>KSTAR3324ES</b>	• 2 PZ.	•	•	INTEGRATED	• FT33	• 2 PZ.	
<b>KSTAR3324KS</b>	• 2 PZ.	•		INTEGRATED	• FT23		• 2 PZ.



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



## PLUS

Even more compact size. Installation height just 5 cm from ground level

The product combines a lighting system with an articulated arm gear motor. Designed for swing gates made of aluminum, PVC or wood leaves

Simplified adjustment of the on-board mechanical limit switches as standard

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 reduced openings

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

The unlocking system is simple and intuitive, also possible using the transmitter Sub

Optional unlock from the outside

## MODELS

CODE	DESCRIPTION	PCS PALLET
 <b>REP2024</b>	For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor	5 
 <b>REP2024S</b>	For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor. Without control unit	5 



Installation up to 5 cm from the ground



Easy cable passage



Suitable for narrow pillars (10x10 cm)



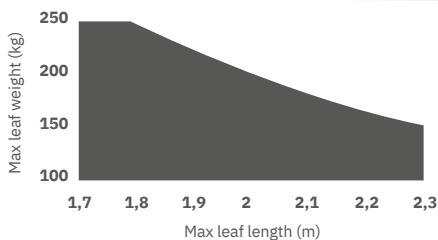
Simplified limit switch adjustment



## TECHNICAL DATA

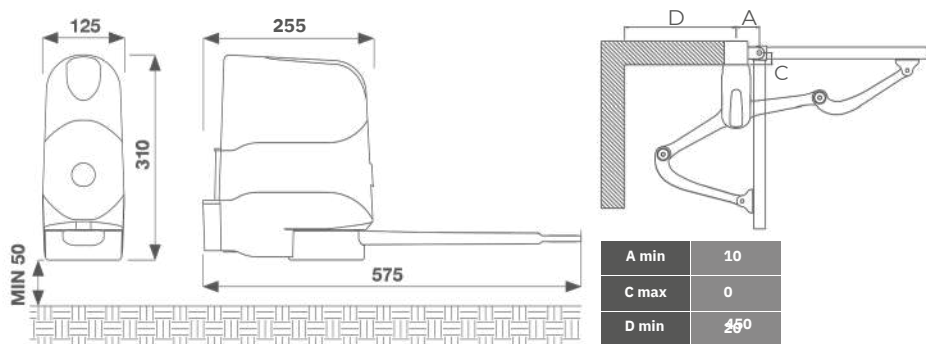
		REP2024	REP2024S
<b>MECHANICAL DATA</b>			
torque	Nm	120	120
working cycle	%	80	80
opening time at 90°	sec	14-20	14-20
<b>ELECTRICAL DATA</b>			
control board		14A	-
power	Vac	230	-
	Vdc	-	24
consumption	A	0,6	2
absorbed power	W	115	50
integrated lights		yes	yes
<b>GENERIC DATA</b>			
protection degree	IP	44	44
dimensions (L - D - H)	mm	125 - 255 - 310	125 - 255 - 310
weight	kg cad	13	10
working temperature	°C	-20 + 55	-20 + 55
leaves maximum weight	Kg	250	250

## LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph

## DIMENSIONS



## ACCESSORIES

<p><b>ELS-C</b> 12 V horizontal electric lock. Up to 2000 Kg</p>	<p><b>KBPN</b> Kit of 1.3 Ah lead battery and battery charger</p>	<p><b>KC</b> Unlock key cylinder</p>	<p><b>REV1</b> Slide arm</p>
PZ. 1	PZ. 1	PZ. 1	PZ. 1
<p><b>REV2</b> Arm for reduced openings</p>	<p><b>REV3</b> External release unlock kit</p>	<p><b>BMET</b> Metal box with release system</p>	<p><b>550CABL045A00 *</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm² (100m)</p>
PZ. 1	PZ. 1	PZ. 1	PZ. 1
<p><b>DYL</b> Programming module Cable length 120 cm (only 14A board)</p>	<p><b>KUBEPRO</b> Wireless programming module</p>	<p><b>KUBE</b> Wireless controlling module for end user</p>	
PZ. 1	PZ. 1	PZ. 1	

\* it is not recommended to use a connection longer than 4 m to avoid sensible loss of reach



## PLUS

Even more compact size. Installation height just 5 cm from ground level

Articulated arm gear motor. Designed for swing gates made of aluminum, PVC or wood leaves

Simplified adjustment of the on-board mechanical stops, mechanical limit switches as standard

The unlocking system is simple and intuitive, also possible using the transmitter Sub

Optional unlock from the outside

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 reduced openings

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

Back-up battery (optional) on board

## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>REP2324</b>	For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor, With control unit	5
<b>REP2224S</b>	For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor. Without control unit	5



Installation up to 5 cm from the ground



New CT20324 control unit



Suitable for narrow pillars (10x10 cm)

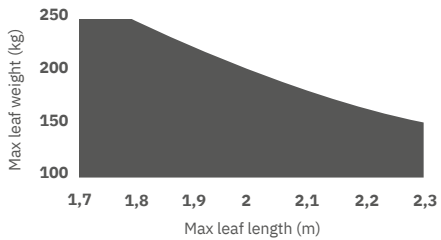


Simplified limit switch adjustment

## TECHNICAL DATA

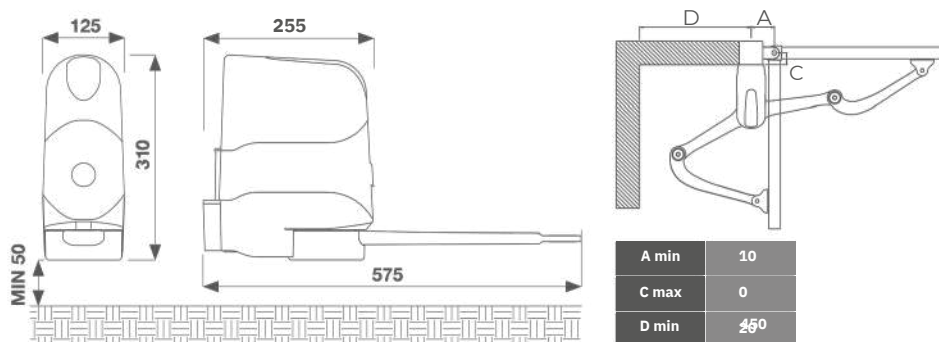
		REP2324	REP2324S
<b>MECHANICAL DATA</b>			
torque working cycle	Nm	120	120
opening time at 90°	%	80	80
<b>ELECTRICAL DATA</b>			
control board	sec	14-20	14-20
power			
		CT20324	-
	Vac	230	-
consumption	Vdc	-	24
absorbed power	A	0,65	2
<b>GENERIC DATA</b>			
protection degree	W	115	50
dimensions (L - D - H)	IP	44	44
weight	mm	125 - 255 - 310	125 - 255 - 310
working temperature	kg cad	13,5	10
leaves maximum weight	°C	-20 + 55	-20 + 55
	Kg	250	250

## LIMIT USE



Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph

## DIMENSIONS



## ACCESSORIES






# RÉVO + KIT

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





Easy slowdown and open limit settings  
 Mechanical parts well protected from external debris  
 Mechanical stops included for proper gate installation and use  
 Water resistant SUB remote control included

Night Light System with LED light included (NLS version)  
 14A control unit (NLS version)  
 CT20234 control unit (version without NLS)

-  Simple and intuitive programming and data management thanks to the KUBE PRO wireless module
-  All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically
-  IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud



## MODELS · WITH NIGHT LIGHT SYSTEM

CODE	DESCRIPTION	WEIGHT	PCS PALLET
 <b>KREP2024EK</b>	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, control unit with slowdown, mechanical stop in opening and closing. With night light function included (with control unit 14A)	21,9 kg	24
 <b>KREP2024KK</b>	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, control unit with slowdown, mechanical stop in opening and closing (with control unit 14A)	21,6 kg	24

## KIT COMPONENTS

	 <b>RÉVO+</b>	 <b>ECLIPSE</b>	<b>RX4K</b>	<b>FT33/FT23</b>	<b>SUB44WR</b>	<b>SUB44R</b>	<b>KUBE</b>
<b>KREP2024EK</b>	• 2 PCS	•	•	• FT33	•	•	•
<b>KREP2024KK</b>	• 2 PCS	•	•	• FT23	•	•	•

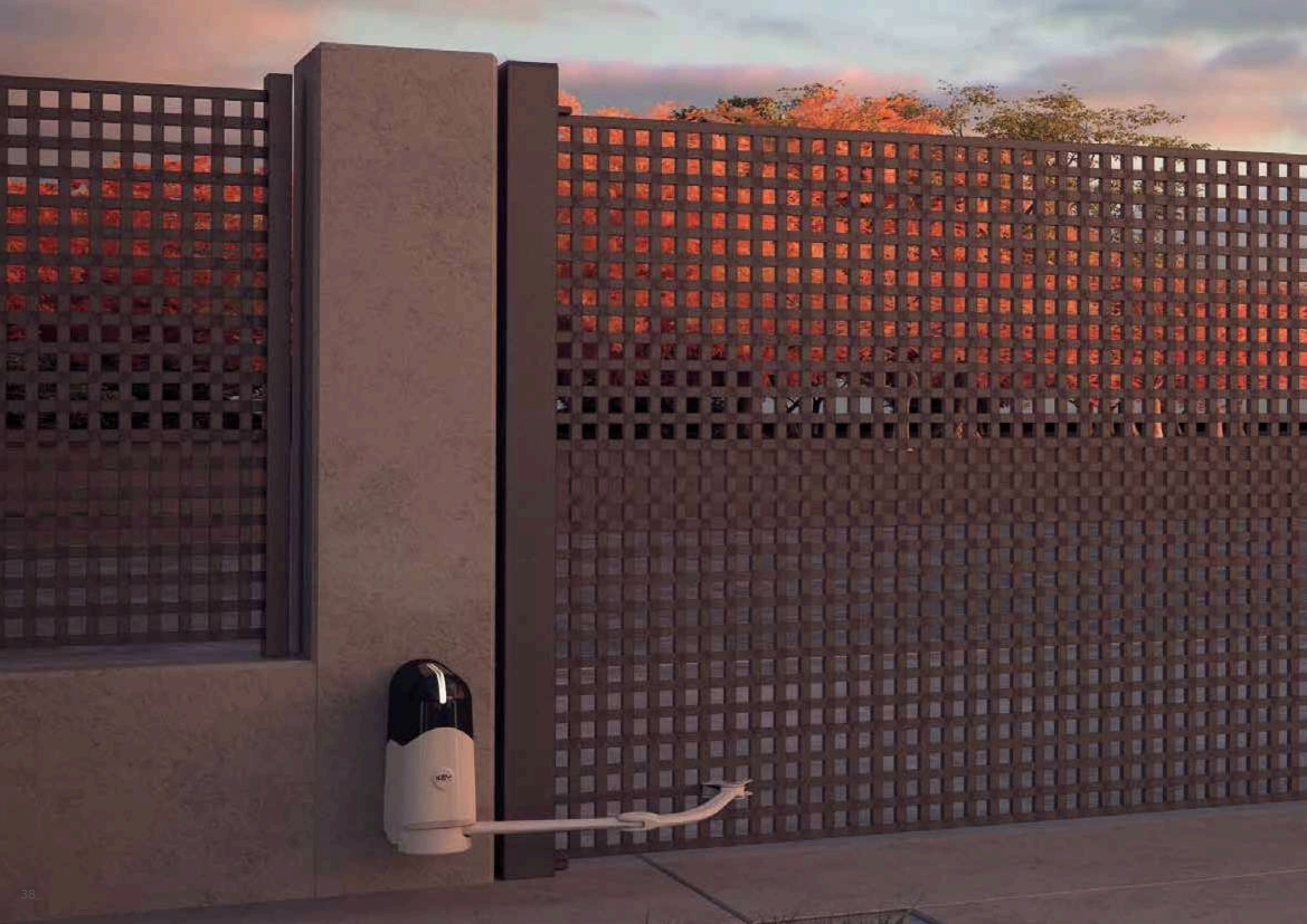
## MODELS · WITHOUT NIGHT LIGHT SYSTEM

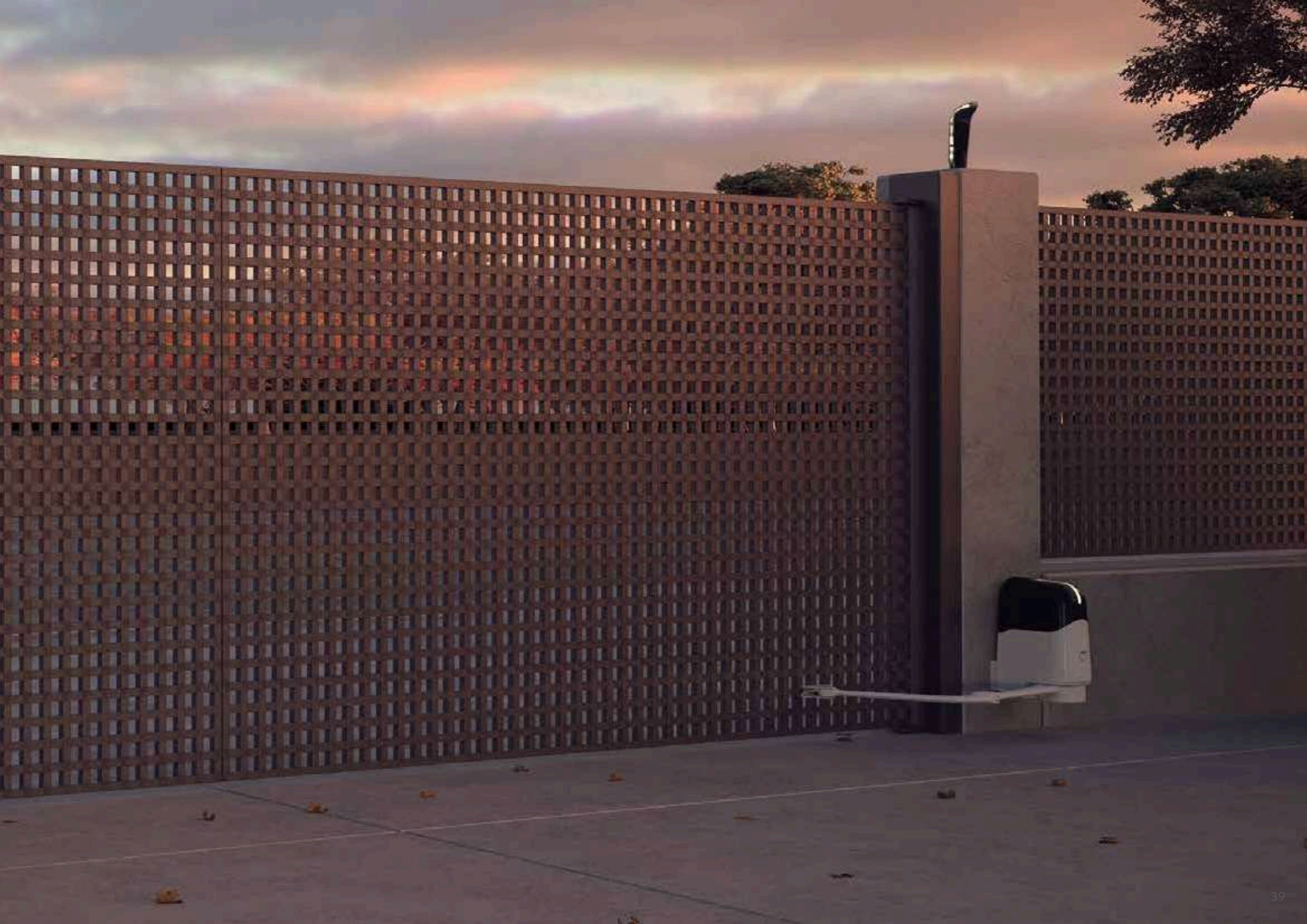
CODE	DESCRIPTION	WEIGHT	PCS PALLET
 <b>KREP2324ES</b>	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, control unit with slowdown, mechanical stop in opening and closing (with control unit CT20324)	20,4 kg	24
 <b>KREP2324KS</b>	Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, control unit with slowdown, mechanical stop in opening and closing (with control unit CT20324)	20,1 kg	24

## KIT COMPONENTS

	 <b>RÉVO+</b>	 <b>LUMY</b>	 <b>RX4K</b>	 <b>FT33/FT23</b>	 <b>SUB44WR</b>	 <b>SUB44R</b>
<b>KREP2324ES</b>	• 2 PZ.	•	INTEGRATED	• FT33	• 2 PZ.	
<b>KREP2324KS</b>	• 2 PZ.		INTEGRATED	• FT23		• 2 PZ.












## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>SN50DX</b>	RIGHT motor (view from inside) for swing gates with maximum length 4 m per leaf, 230 Vac motor with electric limit switches	6
<b>SN50SX</b>	LEFT motor (view from inside) for swing gates with maximum length 4 m per leaf, 230 Vac motor with electric limit switches	6
<b>KSN50B</b>	Pair of motors for swing gates with maximum length 4 m per leaf, 230 Vac motor with opening and closing electric limit switches (2 pcs)	12
 <b>SN5024DX</b>	RIGHT motor (view from inside) for swing gates with maximum length 3 m per leaf, 24 Vdc motor with encoder	6
 <b>SN5024SX</b>	LEFT motor (view from inside) for swing gates with maximum length 3 m per leaf, 24 Vdc motor with encoder	6
 <b>KSN5024B</b>	Pair of motors for swing gates with maximum length 3 m per leaf, 24 Vdc motor with encoder (2 pcs)	12

## PLUS

Motor with encoder (24 Vdc version) and possibility of speed and slowdown regulation  
 Maximum safety in the obstacle detection  
 Optional external release for an easy manual unlock from outside

With soft start and soft stop, granting mechanical parts integrity  
 Compatible with 24Vdc control unit 14AB2  
 Compatible with 230Vac control unit CT202



External release for an easy manual unlock from outside



Reinforced and sturdy arm suitable for wide-angles opening



Powerful motor with solid metal gearbox

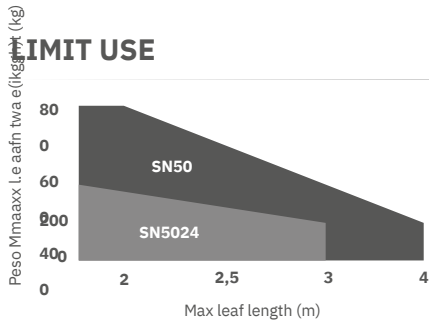


Limit switch with precision regulation



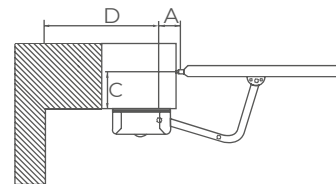
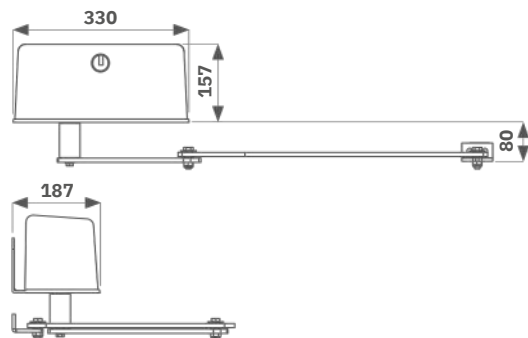
## TECHNICAL DATA

		SN50	SN5024
<b>MECHANICAL DATA</b>			
torque	Nm	400	350
working cycle	%	30	80
opening time at 90°	sec	18	15-25
<b>ELECTRICAL DATA</b>			
control board		CT202	14AB2
power	Vac	230	-
	Vdc	-	24
consumption	A	1,5	5
absorbed power	W	340	120
capacitor	µF	12	-
thermoprotection	°C	150	-
<b>GENERIC DATA</b>			
protection degree	IP	43	43
dimensions (L - D - H)	mm	330 - 187 - 157	330 - 187 - 157
weight	kg cad	15,5	13,8
working temperature	°C	-20 + 55	-20 + 55
leaves maximum weight	Kg	800	400



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

## DIMENSIONS



A min	150	
C max	30	450
D min	0	*

\* with accessory LEVA008A00

## ACCESSORIES

 <b>EL5-C</b> 12 V horizontal electric lock. Up to 2000 Kg	 <b>KBP</b> Kit of 1.3 Ah lead battery and battery charger	 <b>KITFIXBATT</b> Fixing brackets for batteries	 <b>BMET</b> Metal box with release system
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>550CABL045A00 *</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm² (100m)	 <b>SBLEXT</b> Cable external release kit	 <b>KFE</b> Kit electric limit switches for 24Vdc version	 <b>LEVA008A00</b> Articulated straight arm for columns from 301 to 450mm
PZ. 1	PZ. 1	PZ. 1	PZ. 1
 <b>BDBOC</b> Telescopic arm for folding doors	 <b>CT202</b> Control unit in box for two 230 Vac motors	 <b>14AB2</b> Control unit for two motors 24 Vdc in box	 <b>DYL</b> Programming module Cable length 120 cm (only 14A board)
PZ.1	PZ.1	PZ.1	PZ.1
 <b>KUBEPRO</b> Wireless programming module	 <b>KUBE</b> Wireless controlling module for end user	 <b>RX4K</b> 4-channel plug-in receiver, 433MHz, for CT202 control unit	
PZ.1	PZ.1		

\* it is not recommended to use a connection longer than 4 m to avoid sensible loss of reach

# MEWA KIT

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



## PLUS

Easy slowdown and open limit settings  
Mechanical parts well protected from external debris

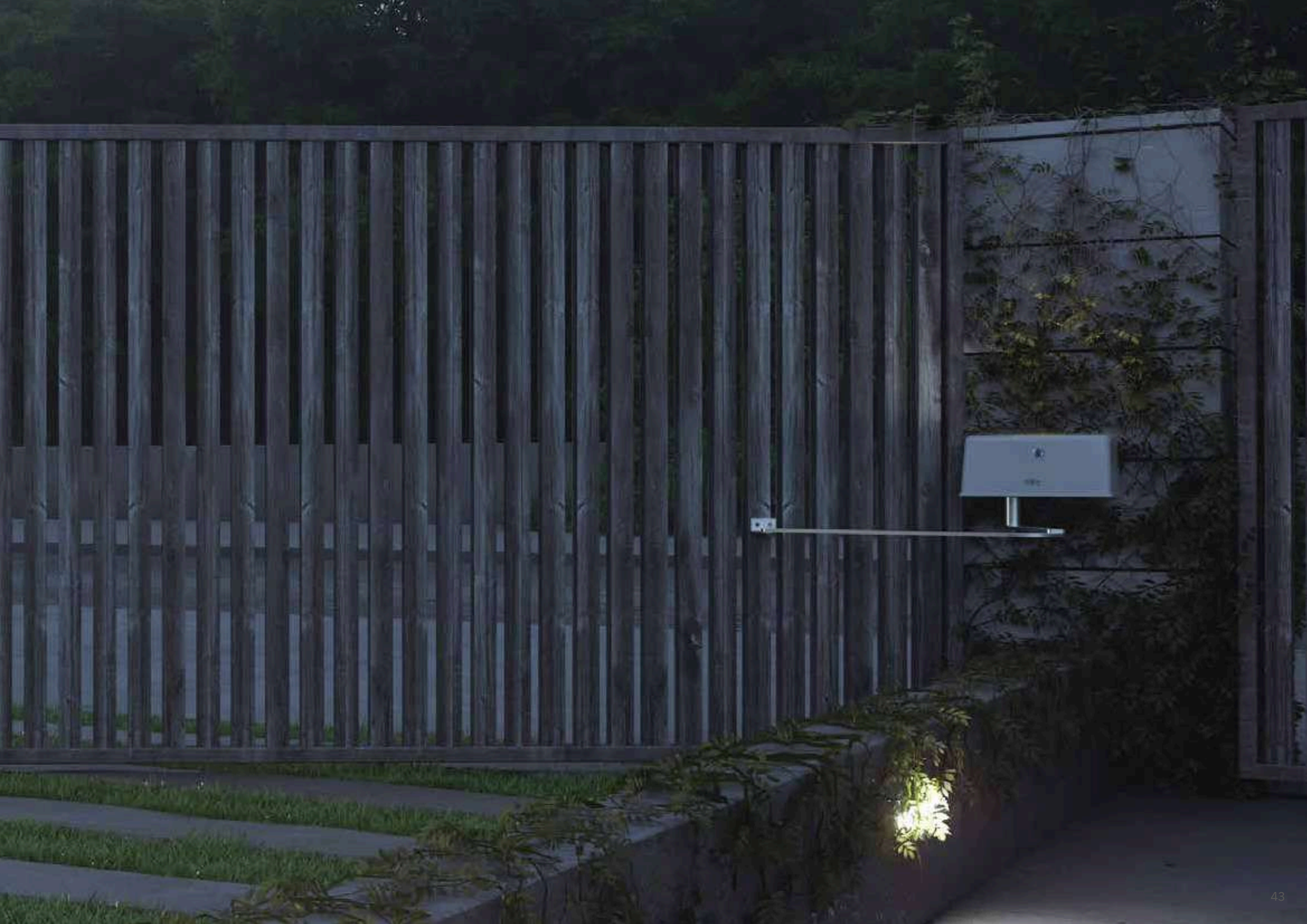
Water resistant SUB remote control included

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
KSN52ES	Kit for swing gates with leaves up to 4 m, 230 Vac motor with articulated arms, control unit with slowdown	32,5 kg	12
KSN52KS	Kit for swing gates with leaves up to 4 m, 230 Vac motor with articulated arms, control unit with slowdown	32 kg	12

## KIT COMPONENTS

							
	MEWA	CT202	LUMY	RX4K	FT33/FT23	SUB44WR	SUB44R
KSN52ES	• 2 PCS	•	•	•	• FT33	• 2 PCS	
KSN52KS	• 2 PCS	•		•	• FT23		• 2 PCS



# UNDER



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

## PLUS

Sustainable for foundation box CF3 or CI3  
 Unlock lever with key and integrated pull lever  
 Opening and closing mechanical stops included  
 Compatible with 230Vac control unit CT202  
 Shell compatible with other producers' foundation boxes (with ADUN accessory)  
 24 Vdc motor with and without encoder  
 Possibility to choose between 1.5 m and 10 m






cable motor (for 230 Vac)  
 Adjustable speed and slowdown functions

### FASTLINE

UNDER FAST ideal for pedestrian gates: 90° opening rate in 10 seconds\*  
 \* slow down phase excluded



## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>UND</b>	For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 1.5 m	18
<b>UND10</b>	For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 10 m	10
 <b>UND24</b>	For swing gates with maximum length 3,5 m, 24 Vdc motor, without encoder, with opening and closing mechanical stops	18
 <b>UND24F</b>  	For pedestrian entrances with swing gates with a maximum length of 3 m, 24 Vdc motor with encoder and with opening and closing limit switches	36
 <b>UND24E</b>	For swing gates with maximum length 3,5 m, 24 Vdc motor, with encoder, with opening and closing mechanical stops	18



High precision mechanical stops



Bronze and tempered steel internal gears for maximum reliability



Internal and external unlock with special metal key

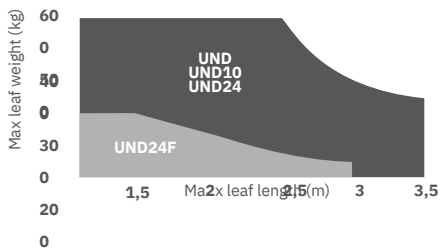


Easy maintenance thanks to the double greasers both on housing and gear motor

## TECHNICAL DATA

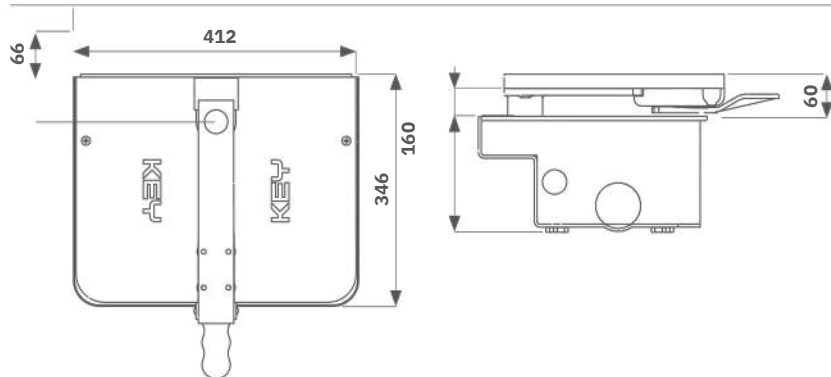
		UND	UND10	UND24	UND24F
<b>MECHANICAL DATA</b>					
torque	Nm	300	300	250	130
working cycle	%	30	30	80	50
opening time at 90°	sec	20	20	18-25	10-15
<b>ELECTRICAL DATA</b>					
control board		CT202	CT202	14AB2	14AB2F
power	Vac	230	230	-	-
	Vdc	-	-	24	24
consumption	A	1	1	5	5
absorbed power	W	230	230	120	120
capacitor	µF	10	10	-	-
thermoprotection	°C	150	150	-	-
<b>GENERIC DATA</b>					
protection degree	IP	67	67	67	67
dimensions (L - D - H)	mm	412 - 160 - 346			
weight	kg cad	11,4	12,4	10,1	10,1
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55
leaves maximum weight	Kg	600	600	600	300

## 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

## DIMENSIONS



## ACCESSORIES

			
<b>ELS-C</b> 12 V horizontal electric lock. Up to 2000 Kg	<b>KBP</b> Kit of 1.3 Ah lead battery and battery charger	<b>KITFIXBATT</b> Fixing brackets for batteries 24 V	<b>CF3 *</b> Cataphoresis housing box with galvanised cover and unlock lever SB3
PZ. 1	PZ. 1	PZ. 1	PZ. 1
			
<b>CI3 *</b> Stainless steel housing box, with unlock lever SB3	<b>CF3SB *</b> Cataphoresis housing box, without connecting levers	<b>ADUN</b> Fixing kit for other producers' boxes	<b>SB3</b> Unlock lever with key
PZ. 1	PZ. 1	PZ. 1	PZ. 1
			
<b>OP100</b> Kit for over 100° opening. Leaf length max 3000 mm	<b>550CABL045A00 *</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm <sup>2</sup> (100m)	<b>14AB2F</b> Control unit in box for two 24 Vdc motors (only UND24F)	<b>CT20324</b> Control unit 2 motors, 24 Vdc in box (only UND24)
PZ. 1	PZ. 1	PZ. 1	PZ. 1
			
<b>CT202</b> Control unit in box for two 230 Vac motors	<b>14AB2</b> Control unit in box for two 24 Vdc motors	<b>RX4K</b> 4-channel plug-in receiver, 433MHz, for CT202 control unit	<b>DYL</b> Programming module Cable length 120 cm (only 14A board)
PZ. 1	PZ. 1	PZ. 1	PZ. 1
			
<b>KUBEPRO</b> Wireless programming module	<b>KUBE</b> Wireless controlling module for end user		
PZ. 1	PZ. 1		

\* 36 pz. pallet

# UNDER KIT

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



## PLUS

Without encoder (24 Vdc version)

Water resistant SUB remote control included

Adjustable speed and slowdown functions

Mechanical parts well protected from external debris



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module





All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
 <b>KUND3024EK</b>	Underground kit for swing gates with leaves up to 3,5 m, 24 Vdc motor, control unit with slowdown. With Night Light System included	26 kg	9
 <b>KUND3024KK</b>	Underground kit for swing gates with leaves up to 3,5 m, 24 Vdc motor, control unit with slowdown	26,3 kg	9
<b>KUND2ES</b>	Underground kit for swing gates with leaves up to 3,5 m, 230 Vac motor, control unit with slowdown	26 kg	12
<b>KUND2KS</b>	Underground kit for swing gates with leaves up to 3,5 m, 230 Vac motor, control unit with slowdown	26,5 kg	12

## KIT COMPONENTS

								
	<b>UNDER</b>	<b>14A</b>	<b>ECLIPSE</b>	<b>RX4K</b>	<b>FT33/FT23</b>	<b>SUB44WR</b>	<b>SUB44R</b>	<b>KUBE</b>
<b>KUND3024EK</b>	• 2 PCS	• 14AB2	•	•	• FT33	•	•	•
<b>KUND3024KK</b>	• 2 PCS	• 14AB2	•	•	• FT23	•	•	•
								
	<b>UNDER</b>	<b>CT202</b>	<b>LUMY</b>	<b>RX4K</b>	<b>FT33/FT23</b>	<b>SUB44WR</b>	<b>SUB44R</b>	
<b>KUND2ES</b>	• 2 PCS	•	•	•	• FT33	• 2 PCS	•	
<b>KUND2KS</b>	• 2 PCS	•	•	•	• FT23	•	• 2 PCS	



# SELECTION GUIDE

## SYSTEMS FOR SLIDING GATES

### SUN

GEAR MOTOR FOR GATES UP TO 1100 Kg

24 V, intensive use, up to 400 Kg

**SUN4024/SUN4224**

24 V, intensive use, up to 500 Kg

**FASTLINE SUN5024F**

24 V, intensive use, up to 700 Kg

**SUN7024/SUN7224**

24 V, intensive use, up to 1100 Kg

**SUN11024/SUN1324M**

### TURBO

GEAR MOTOR FOR GATES UP TO 800 Kg

24 V, normal use, up to 400 Kg

**TU4324**

24 V, normal use, up to 700 Kg

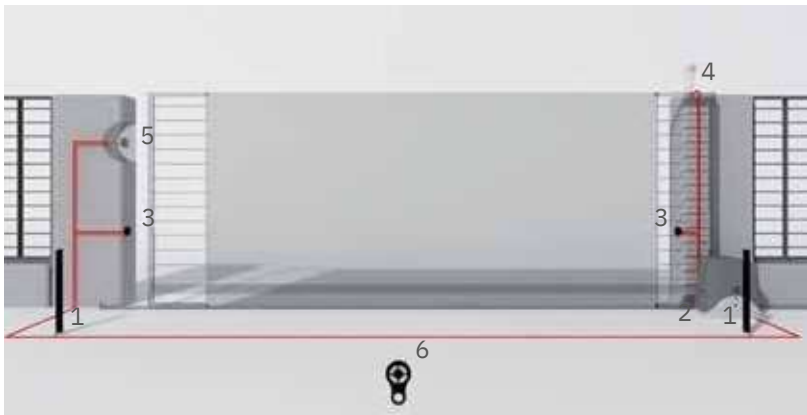
**TU7324**

230 V, normal use, up to 500 Kg

**SC52**

230 V, normal use, up to 800 Kg

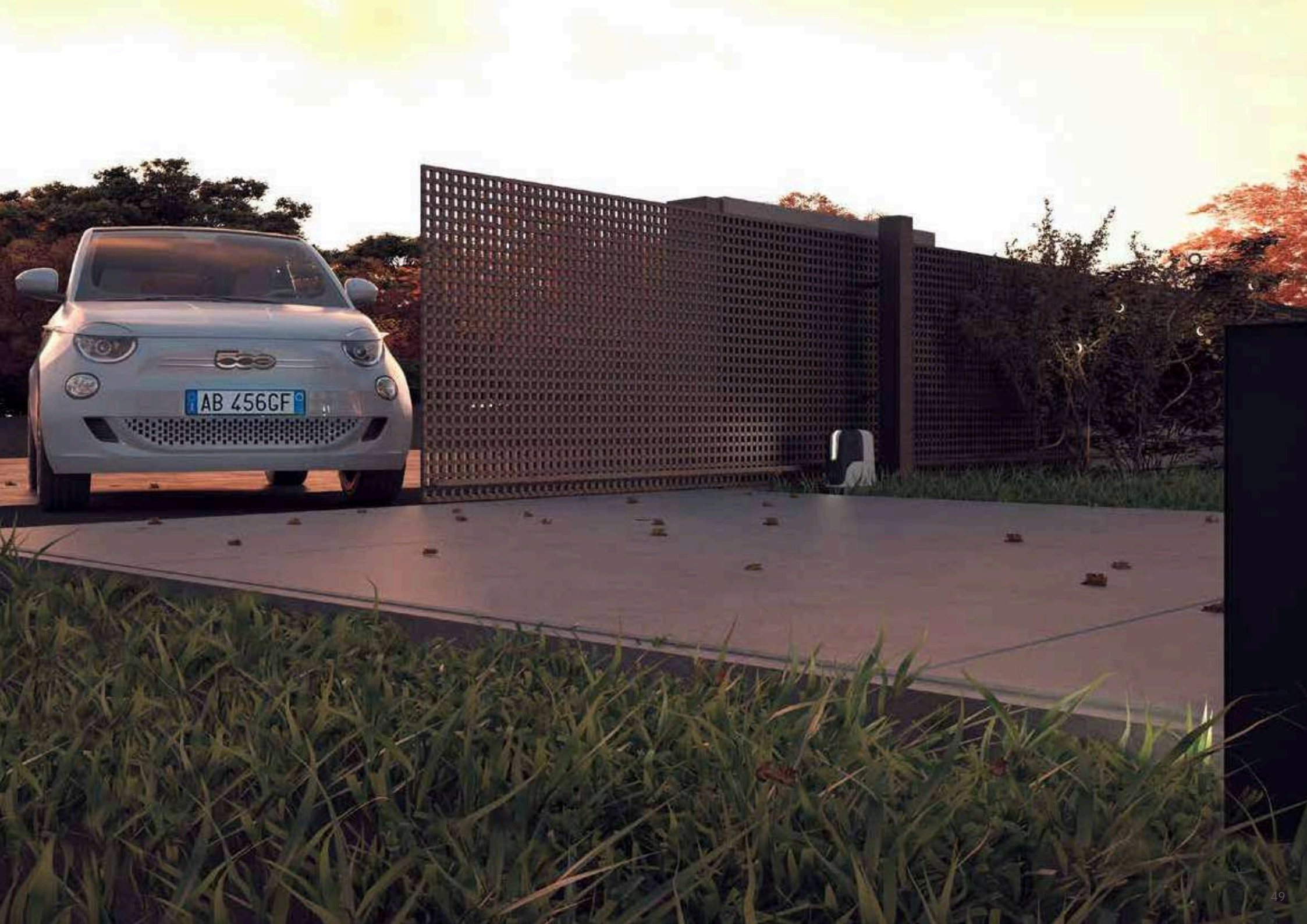
**SC82**



#### STANDARD INSTALLATION FOR SLIDING GATES

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





## ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 1100 Kg, 24 Vdc WITH INTEGRATED NIGHT LIGHT SYSTEM



### PLUS

- Built-in LED light
- High technological materials resistant to weather conditions
- Gear reduction with extra-large bearing with high performance
- Extremely silent mechanics, protected by robust die-cast and powder-coated aluminum body
- With 24 Vdc control unit 14A

- The release system is ergonomic, efficient and easily accessible
- Magnetic limit switch version upon request
- Back-up battery (optional) on board
- UV-resistant plastic covers

### FASTLINE

SUN FAST: Opening speed up to 40 cm/sec

### MODELS

CODE	DESCRIPTION	PCS PALLET
<b>SUN4024</b>	For sliding gates up to 400 Kg, 24 Vdc motor, control unit 14A with slowdown and electric limit switch	36
<b>SUN7024</b>	For sliding gates up to 700 Kg, 24 Vdc motor, control unit 14A with slowdown and electric limit switch	36
<b>SUN11024</b>	For sliding gates up to 1100 Kg, 24 Vdc motor, control unit 14A with slowdown and electric limit switch	18
<b>SUN5024F</b>	For sliding gates up to 500 Kg, 24 Vdc fast motor, control unit 14A with slowdown and magnetic limit switch	18



Control board 14A



Built-in LED light




Robust gear reduction with self-standing bearing



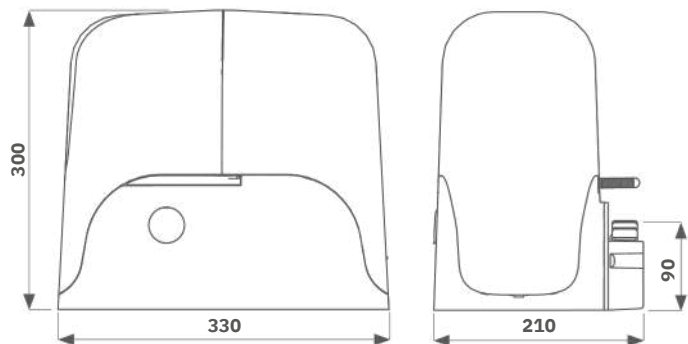
Stylish design screwless at sight

## TECHNICAL DATA











		SUN4024	SUN7024	SUN11024	SUN5024F
<b>MECHANICAL DATA</b>					
speed	cm/s	26*	25*	20*	40*
torque	Nm	18	2	38	23
working cycle	%	80	6	80	80
<b>ELECTRICAL DATA</b>					
control board		14A	14A	14A	14AF 
power	Vac	230	230	230	230
consumption	A	1,1	1,5	1,8	1,3
absorbed power	W	250	345	360	300
capacitor	µF	-	-	-	-
thermoprotection	°C	-	-	-	-
integrated lights		yes	yes	yes	yes
<b>GENERIC DATA</b>					
protection degree	IP	44	44	44	44
dimensions (L - D - H)	mm		330 - 210 - 300		
weight	kg	13	13,8	14,5	13,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55
gate maximum weight	Kg	400	700	1100	500

\* variable according to the gate weight  
Models of 700 and upward are recommended for condominium installations

## DIMENSIONS



## ACCESSORIES

 <b>RN800 *</b> M4 nylon rack L=1000 mm for gates up to 800 kg €/m	 <b>CREM-8 **</b> M4 zinc coated rack 30x8 mm L=1000 mm €/m	 <b>CREM-12 **</b> M4 zinc coated rack 30x12 mm L=1000 mm €/m	 <b>KBP</b> Kit of 1.3 Ah lead battery and battery charger PZ. 1
 <b>KCS</b> Unlock kit with key PZ. 1	 <b>550CABL045A00 ***</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm <sup>2</sup> (100m) PZ. 1	 <b>TWIN</b> Interface for master/slave function (SUN5024F, SUN7024 and SUN11024) PZ. 1	 <b>DYL</b> Programming module Cable length 120 cm (only 14A board) PZ. 1
 <b>KUBEPRO</b> Wireless programming module PZ. 1	 <b>KUBE</b> Wireless controlling module for end user PZ. 1		

\* pack of 10 pcs  
\*\* pack of 4 pcs  
\*\*\* it is not recommended to use a connection longer than 4 m to avoid sensible loss of reach



### PLUS

Integrated receiver

High technological materials resistant to weather conditions

Gear reduction with extra-large bearing with high performance

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

With 24 Vdc CT10324 control unit with integrated display

The release system is ergonomic, efficient and easily accessible

Magnetic limit switch version upon request

Back-up battery (optional) on board

UV-resistant plastic covers

### MODELS

CODE	DESCRIPTION	PCS PALLET
<b>SUN4324</b>	For sliding gates up to 400 Kg, 24 Vdc motor, control unit CT10324 with slowdown and electric limit switch. Integrated receiver	18
<b>SUN7324</b>	For sliding gates up to 700 Kg, 24 Vdc motor, control unit CT10324 with slowdown and electric limit switch. Integrated receiver	36
<b>SUN11324M</b>	For sliding gates up to 1100 Kg, 24 Vdc motor, control unit CT10324 with slowdown and magnetic limit switch	18



Manual unlock with trasmitter



Robust gear reduction with self-standing bearing



Control unit CT10324 with integrated receiver programmable with KUBE PRO



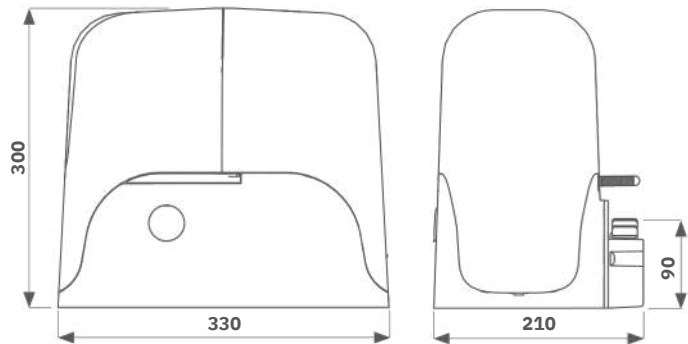
Stylish design screwless at sight

## TECHNICAL DATA

		SUN4324	SUN7324	SUN11324M
<b>MECHANICAL DATA</b>				
speed	cm/s	26*	25*	20*
torque	Nm	1	26	38
working cycle	%	8	80	80
<b>ELECTRICAL DATA</b>				
		8		
control board		CT10324	CT10324	CT10324
power	Vac	230	230	230
consumption	A	1,2	1,5	1,8
absorbed power	W	250	345	360
capacitor	μF	-	-	-
thermoprotection	°C	-	-	-
<b>GENERIC DATA</b>				
protection degree	IP	44	44	44
dimensions (L - D - H)	mm		330 - 210 - 300	
weight	kg	10,7	13,6	14,5
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
gate maximum weight	Kg	400	700	1100

\* variable according to the gate weight  
Models of 700 kg and upward are recommended for condominium installations

## DIMENSIONS



## ACCESSORIES



**RN800 \***  
M4 nylon rack L=1000 mm for gates up to 800 kg

€/m



**KCS**  
Unlock kit with key

PZ.1



**CREM-8 \*\***  
M4 zinc coated rack 30x8 mm L=1000 mm

€/m



**TWIN**  
Interface for master/slave function (SUN7224)

PZ.1



**CREM-12 \*\***  
M4 zinc coated rack 30x12 mm L=1000 mm

€/m



**KUBEPRO**  
Wireless programming module

PZ.1



**KBP**  
Kit of 1.3 Ah lead battery and battery charger

PZ. 1



**KUBE**  
Wireless controlling module for end user

PZ.1

\* pack of 10 pcs  
\*\* pack of 4 pcs

# SUN KIT

FOR SLIDING GATES UP TO 1100 Kg, 24 Vdc



## PLUS

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

Conceived to carry intensive use (24 Vdc version)

Water resistant SUB remote control included

Night Light System with LED light included (NLS version)

14A control unit (NLS version)

CT10324 24 Vdc control unit with integrated display (version without NLS)



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module






All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS · WITH NIGHT LIGHT SYSTEM





CODE	DESCRIPTION	WEIGHT	PCS PALLET
<b>KSUN4024EK</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch. With night light function included.	13,2 kg	36
<b>KSUN4024KK</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch.	13 kg	36
<b>KSUN5024FEK</b>	Kit for sliding gates up to 500 kg, 24 Vdc motor, control unit 14AF with slowdown, magnetic limit switch. With night light function included.	14,2 kg	36
<b>KSUN5024FKK</b>	Kit for sliding gates up to 500 kg, 24 Vdc motor, control unit 14AF with slowdown, magnetic limit switch.	14 kg	36
<b>KSUN7024EK</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch. With night light function included.	14,4 kg	36
<b>KSUN7024KK</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch.	13,8 kg	36
<b>KSUN11024EK</b>	Kit for sliding gates up to 1100 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch. With night light function included.	15,1 kg	36

CODE	DESCRIPTION	WEIGHT	PCS PALLET
 <b>KSUN11024KK</b>	Kit for sliding gates up to 1100 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switches	14,9 kg	18
 <b>KSUN4024TW</b>	Pair of motors for opposed sliding gates up to 400 Kg, 24 Vdc, control unit 14A with slow down function and electric limit switch	22,4 kg	5 

## KIT COMPONENTS

	 <b>SUN</b>	 <b>ECLIPSE</b>	 <b>RX4K</b>	 <b>FT33/FT23</b>	 <b>SUB44WR</b>	 <b>SUB44R</b>	 <b>KUBE</b>
<b>KSUN4024EK</b>	• 1 PC	•	•	• FT33	•	•	•
<b>KSUN4024KK</b>	• 1 PC	•	•	• FT23	•	•	•
<b>KSUN5024FEK</b>	• 1 PC	•	•	• FT33	•	•	•
<b>KSUN5024FKK</b>	• 1 PC	•	•	• FT23	•	•	•
<b>KSUN7024EK</b>	• 1 PC	•	•	• FT33	•	•	•
<b>KSUN7024KK</b>	• 1 PC	•	•	• FT23	•	•	•
<b>KSUN11024EK</b>	• 1 PC	•	•	• FT33	•	•	•
<b>KSUN11024KK</b>	• 1 PC	•	•	• FT23	•	•	•
<b>KSUN4024TW</b>	• 2 PCS	•	•	• FT23	•	•	•

## MODELS · WITHOUT NIGHT LIGHT SYSTEM

CODE	DESCRIPTION	WEIGHT	PCS PALLET
 <b>KSUN4324ES</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	13 kg	3
 <b>KSUN4324KS</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control CT10324 unit with slowdown, electric limit switch	12,8 kg	6
 <b>KSUN7324ES</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	14,1 kg	3
 <b>KSUN7324KS</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	13,9 kg	6

## KIT COMPONENTS

	 <b>SUN</b>	 <b>LUMY</b>	 <b>RX4K</b>	 <b>FT33/FT23</b>	 <b>SUB44WR</b>	 <b>SUB44R</b>
<b>KSUN4324ES</b>	• 1 PZ.	•	INTEGRATED	• FT33	• 2 PZ.	•
<b>KSUN4324KS</b>	• 1 PZ.	•	INTEGRATED	• FT23	•	• 2 PZ.
<b>KSUN7324ES</b>	• 1 PZ.	•	INTEGRATED	• FT33	• 2 PZ.	•
<b>KSUN7324KS</b>	• 1 PZ.	•	INTEGRATED	• FT 23	•	• 2 PZ.

# TURBO



ELECTROMECHANICAL GEAR MOTOR FOR SLIDING GATES UP TO 700 Kg, 24 Vdc AND UP TO 800 Kg, 230 Vac



## 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

With 24 Vdc CT10324 control unit with integrated display

With 230 Vac CT102B control unit with integrated display

Electronic and mechanical parts well protected from weather conditions

## MODELS

CODE	DESCRIPTION	PCS PALLET
 <b>TU4324</b>	For sliding gates up to 400 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with built-in radio receiver	36
 <b>TU7324</b>	For sliding gates up to 700 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with built-in radio receiver	18
<b>SC52</b>	For sliding gates up to 500 Kg, 230 Vac motor, control unit with slowdown and electric limit switch	36
<b>SC82</b>	For sliding gates up to 800 Kg, 230 Vac motor, control unit with slowdown and electric limit switch	36



LCD display



Sturdy and performing motors



Control unit CT10324 with integrated receiver programmable with KUBE PRO



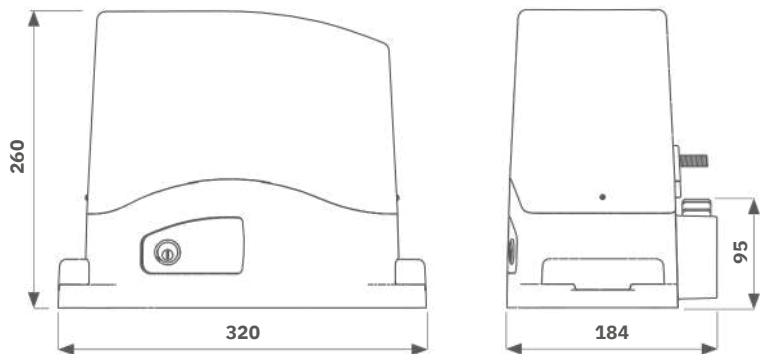
Kube e Kube Pro



## TECHNICAL DATA

		TU4324	TU7324	SC52	SC82
<b>MECHANICAL DATA</b>					
speed	cm/s	2	2	1	1
torque	Nm	4	3	6	6
working cycle	%	1	3	1	2
<b>ELECTRICAL DATA</b>					
control board		CT10324	CT10324	CT102B	CT102B
power	Vac	230	230	230	230
consumption	A	1,2	2,5	1,3	1,9
absorbed power	W	250	500	300	450
capacitor	µF	-	-	12,5	16
thermoprotection	°C	-	-	150	150
<b>GENERIC DATA</b>					
protection degree	IP	44	44	44	44
dimensions (L - D - H)	mm	320 - 184 - 260			
weight	kg	10,5	12,3	12,3	13
working temperature	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55
gate maximum weight	Kg	400	700	500	800

## DIMENSIONS



## ACCESSORIES



**RN800 \***  
M4 nylon rack L=1000 mm for gates up to 800 kg

€/m



**CREM-8 \*\***  
M4 zinc coated rack 30x8 mm L=1000 mm

€/m



**CREM-12 \*\***  
M4 zinc coated rack 30x12 mm L=1000 mm

€/m



**RX4K**  
4-channel plug-in receiver, 433MHz, for CT202 control unit

PZ.1



**KUBEPRO**  
Wireless programming module

PZ.1



**KUBE**  
Wireless controlling module for end user

PZ.1

\* pack of 10 pcs  
\*\* pack of 4 pcs

# TURBO KIT



FOR SLIDING GATES UP TO 700 Kg, 24 Vdc AND UP 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 weather conditions  
 Easy maintenance thanks to the horizontal control unit position

With fixing plate included  
 With 24 Vdc CT10324 control unit with integrated display  
 With 230 Vac CT102B control unit with integrated display



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module

IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS · WITHOUT NIGHT LIGHT SYSTEM

CODE	DESCRIPTION	WEIGHT	PCS PALLET
<b>KTU4324ES</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	11,1 kg	36
<b>KTU4324KS</b>	Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	10,6 kg	36
<b>KTU7324ES</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	12,9 kg	36
<b>KTU7324KS</b>	Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch	12,7 kg	36
<b>KSC52ES</b>	Kit for sliding gates up to 500 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch	12,9 kg	36
<b>KSC52KS</b>	Kit for sliding gates up to 500 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch	12,7 kg	36
<b>KSC82ES</b>	Kit for sliding gates up to 800 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch	13,6 kg	36
<b>KSC82KS</b>	Kit for sliding gates up to 800 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch	13,3 kg	36

## KIT COMPONENTS



### CT10324

#### TURBO

#### LUMY

#### RX4K

#### FT33/FT23

#### SUB44WR

#### SUB44R

KTU4324ES

• 1 PZ.

•

INTEGRATED

• FT33

• 2 PZ.

KTU4324KS

• 1 PZ.

INTEGRATED

• FT23

• 2 PZ.

KTU7324ES

• 1 PZ.

•

INTEGRATED

• FT33

• 2 PZ.

KTU7324KS

• 1 PZ.

INTEGRATED

• FT23

• 2 PZ.

### CT102B

KSC52ES

• 1 PZ.

•

•

• FT33

• 2 PZ.

KSC52KS

• 1 PZ.

•

• FT23

• 2 PZ.

KSC82ES

• 1 PZ.

•

•

• FT33

• 2 PZ.

KSC82KS

• 1 PZ.

•

• FT23

• 2 PZ.



# SELECTION GUIDE

## SYSTEM FOR SECTIONAL AND OVERHEAD DOORS

### HALO

GEAR MOTOR FOR SECTIONAL DOORS UP TO 19 m<sup>2</sup> AND OVERHEAD DOORS UP TO 17 m<sup>2</sup>

24 V, intensive use, up to 12 m<sup>2</sup>

**HA8**

24 V, intensive use, up to 19 m<sup>2</sup>

**HA12**

### BLINDO

GEAR MOTOR FOR SPRING OR COUNTERWEIGHT OVERHEAD DOORS UP TO 9 m<sup>2</sup>

230 V, normal use

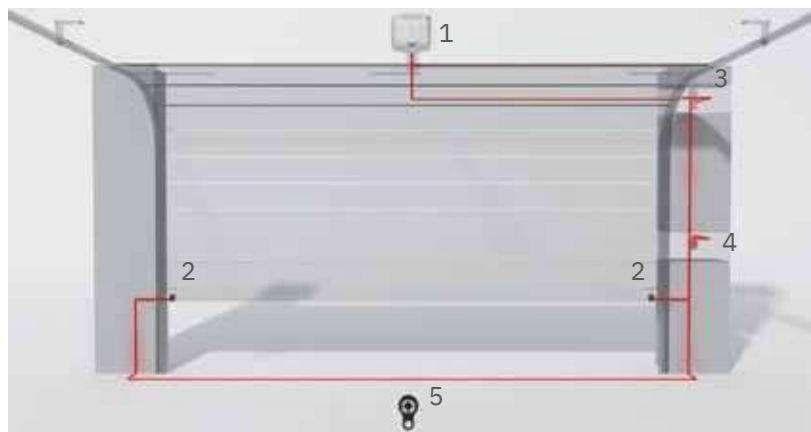
**BS-50**

230 V, normal use

**BS52**

24 V, intensive use

**BS5324**



#### STANDARD INSTALLATION FOR SECTIONAL DOORS

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

HALO





## HALO

“Halo”, means “circle of light”

This is the effect the motor seeks to create in the garage, as well as serving as a designer LED lamp

## AUTOMATION SYSTEM AND LIGHTING

HALO combines the utility of automation with that of lighting, in line with the Night Light System created by Key Automation, allowing your garage to be illuminated automatically

The luminaire enhances the space of the garage and provides the installer with the option of simultaneously connecting the automation system and the LED lighting

## TECHNOLOGICAL INNOVATION

Technology is at the core of the innovation. Installation can be in the traditional mode or in two new positions - on the lintel and through the spring holder shaft

These two new installations not only save time in assembly and wiring, but also make the luminaire the centrepiece by minimising the visual impact of the automation system

## ELECTRONIC INNOVATION

HALO benefits from all the features of the KUBE “IoT” platform:

Programming via two keys, with KUBE PRO receiver or with DYL wired programmer

Notification of maintenance and/or malfunctions on app (with KUBE)

Editing of parameters remotely (with KUBE)

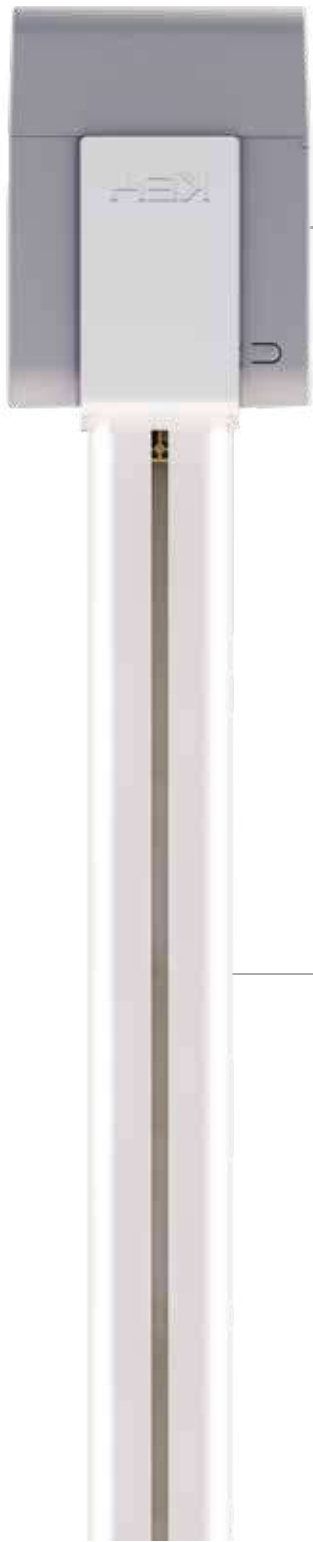
Door opening via smartphone (with KUBE)

Dip-switch to bypass safeties (photo + sensitive edge)

Built-in radio receiver

Electronics covered by accidental damage





## HEAD UNIT

Compact head unit (total height 8 cm) with rail integral in unit, allowing installation close to the spring shaft

LED courtesy light

Side-opening hatch for access to electronics

Builder button (external step-by-step operating button)

Compact Key 24 Vdc motor

Motor sizes: 800 Nm and 1200 Nm

Optional battery pack

## CARRIAGE

Completely integrated into the rail

Permanent release using rope with manual reset

Prefitted for release from outside with metal cable

Two symmetrical door connections

Allows three automation mounting modes

## LED RAIL

Available with belt drive system

Illuminates garage with two rows of LEDs up to 4 m long, total output 40W LED

Lighting-industry grade polycarbonate LED cover

Very low power consumption thanks to LED technology

Extruded aluminium rail powder-coated in RAL9010

Rail opening designed to minimise carriage visibility

Minimal, elegant ceiling mounting fixture

One-piece rail

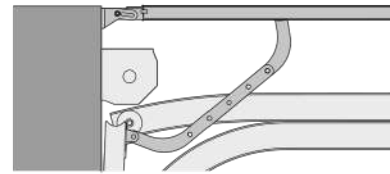
## STANDARD RAIL

Steel C-section available with belt drive system

Total length 3 or 4m

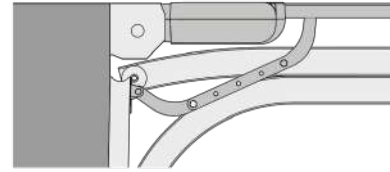
One-piece or 3-piece rail for 3m length

## INSTALLATION MODES



### CLASSIC INSTALLATION

With head in the center of the garage



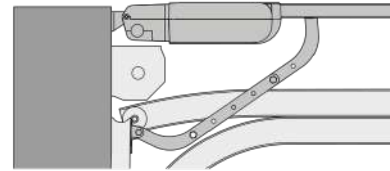
### CROSS BEAM INSTALLATION

All wiring remains on the cross beam

Reinforces the spring shaft for added rigidity

Shorter installation times

Less weight projecting into centre of garage



### SPRING SHAFT INSTALLATION

All wiring remains on the cross beam

Shorter installation times

Less weight projecting into centre of garage

ELECTROMECHANICAL GEAR MOTOR FOR SECTIONAL DOORS UP TO 19 m<sup>2</sup> AND OVERHEAD DOORS UP TO 17 m<sup>2</sup>, 24 Vdc



## PLUS

Side-opening hatch for access to electronics  
 Illuminates the garage with double row of leds with maximum length of 4 m for a total of 40W LED Carriage completely integrated into the rail  
 Two-button programming, with KUBE PRO receiver or with DYL cabled display  
 Door opening via smartphone (with KUBE)  
 Extruded aluminium rubber powder-coated in RAL9010

Standard rail with C profile in steel with belt traction, total length of 3, 4 or 6m, rail in a single piece or in 3 pieces 3 m-long each  
 3 installation modes: classic, on cross beam, on spring shaft  
 Compact head unit (total height 8 cm) with runner integral in unit, allowing installation close to the spring shaft

## MODELS

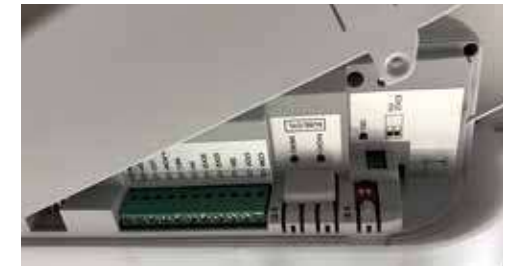
CODE	DESCRIPTION	PCS PALLET
HA8	For sectional doors up to 11 sqm (with 3 m rail) or 12 sqm (with 4 m rail), a 24 Vdc motor and a control unit with integrated receiver	104
HA12	For sectional doors up to 16 sqm (with 3 m rail) or 19 sqm (with 4 m rail), a 24 Vdc motor and a control unit with integrated receiver	104

## RAILS

CODE	DESCRIPTION
RAL31	Aluminum belt rail with integrated LED lighting, 3090 mm (1x3m) one-piece rail
RAL41	Aluminum belt rail with integrated LED lighting, 4090 mm (1x4m) one-piece rail
RAB3X1P	Steel belt rail, 3100 mm (3x1.03m) 3-pieces rail Steel belt rail, 4100 mm
RAB2X2P	(2x2.05m) 2-pieces rail Steel belt rail, 3100 mm (1x3.1m) one-piece rail Steel
RAB31	belt rail, 4100 mm (1x4.1m) one-piece rail Steel belt rail, 6200 mm (2x3.1m) 2-
RAB41	pieces rail
RAB61	



Rail with LED light



Side-opening hatch



Compact head unit (total height 8 cm)



Installations on spring shaft/cross beam



## TECHNICAL DATA

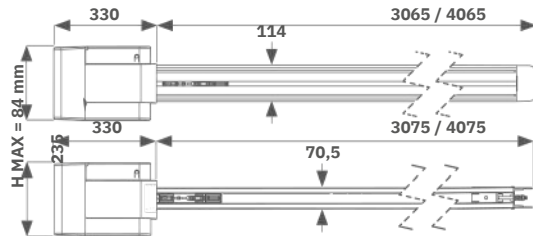
		HA8	HA12
<b>MECHANICAL DATA</b>			
speed	cm/s	15	15
force	N	800	1200
max cycles/hour (1)		20	20
<b>ELECTRICAL DATA</b>			
power supply	Vac	230 (±10%) 50Hz	
flashing	W	3 max	3 max
courtesy light on rail with integrated LEDs	W	-	40 max
accessories power output	mA	100 (24 Vdc not regulated)	
max no. of transmitters that can be stored ROLLING CODE		90	90
<b>GENERIC DATA</b>			
degree of protection	IP	20	20
dimensions (L x D x H):	mm	330 - 235 - 84	
weight	kg	6,5	6,9
working temperature	°C	-10 + 45	-10 + 45
maximum door size	m <sup>2</sup>	12	19
maximum door weight	kg	120	200

<sup>(1)</sup> for 2,4x2m LxH door. Data are subject to smoothness and balance of the door and the type of rail used

## LIMIT USE

Sectional	Up-and-over slide-away	Sectional	Up-and-over slide-away
<b>HA8 with 3 m rail</b>		<b>HA12 with 3 m rail</b>	
S max=11m <sup>2</sup> - H max = 2,6m	S max=10m <sup>2</sup> - H max = 3m	S max=16m <sup>2</sup> - H max = 2,6m	S max=16m <sup>2</sup> - H max = 3m
<b>HA8 with 4 m rail</b>		<b>HA12 with 4 m rail</b>	
S max=12m <sup>2</sup> - H max = 3,6m	S max=11m <sup>2</sup> - H max = 3,4m	S max=19m <sup>2</sup> - H max = 3,6m	S max=17m <sup>2</sup> - H max = 3,4m





















## DIMENSIONS



## COMPATIBILITY HEAD - RAIL

	HA8	HA12
RAB31	X	X
RAB2X2P	X	X
RAB3X1P	X	X
RAB41	X	X
RAB61		X
RAL31		X
RAL41		X

## ACCESSORIES

 <p><b>KBPN</b> Kit of 1.3 Ah lead battery and battery charger</p> <p>PZ. 1</p>	 <p><b>KBP</b> Kit of 1.3 Ah lead battery and battery charger</p> <p>PZ. 1</p>	 <p><b>HAL2</b> Swinging arm for counterweight overhead doors</p> <p>PZ. 1</p>	 <p><b>HAL7</b> Motor support bracket, L=1400 mm. For up and over doors</p> <p>PZ. 1</p>
 <p><b>HAL15</b> Kit for external unlock with key and metal cord for insulated overhead doors</p> <p>PZ. 1</p>	 <p><b>SBLST</b> Kit for external unlock with key and metal cord for uninsulated overhead doors</p> <p>PZ. 1</p>	 <p><b>HAL3</b> Kit supplementary fixing ceiling rail (for steel rail)</p> <p>PZ. 1</p>	 <p><b>HAL4</b> Kit 2 supplementary fixing clamps (for steel rail)</p> <p>PZ. 1</p>
 <p><b>HAL5</b> Kit supplementary fixing ceiling rail (for Led rail)</p> <p>PZ. 1</p>	 <p><b>HAL6</b> Kit for wall support (for Led rail)</p> <p>PZ. 1</p>	 <p><b>SBCO</b> External unlocking system L=3000 mm</p> <p>PZ. 1</p>	 <p><b>550CABL045A00 *</b> Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm<sup>2</sup> (100m)</p> <p>PZ. 1</p>
 <p><b>520STAF029A00</b> Fixing clamp</p> <p>PZ. 1</p>	 <p><b>TO1U</b> Touch transmitter, 1 channel, rolling code, to be recessed in the door panel</p> <p>PZ. 1</p>	 <p><b>TO1M</b> Touch transmitter, 1 channels, rolling code</p> <p>PZ. 1</p>	 <p><b>TO2M</b> Touch transmitter, 2 channels, rolling code</p> <p>PZ. 1</p>
 <p><b>TO2M</b> Touch transmitter, 2 channels, with motion sensor</p> <p>PZ. 1</p>	 <p><b>DYL</b> Programming module Cable length 120 cm (only 14A board)</p> <p>PZ. 1</p>	 <p><b>KUBEPRO</b> Wireless module for programming</p> <p>PZ. 1</p>	 <p><b>KUBE</b> Wireless controlling module for end user</p> <p>PZ. 1</p>

\* it is not recommended to use a connection longer than 4 m to avoid sensible loss of reach

# HALO KIT



ELECTROMECHANICAL GEAR MOTOR FOR SECTIONAL DOORS UP TO 19 m<sup>2</sup> AND OVERHEAD DOORS UP TO 17 m<sup>2</sup>, 24 Vdc



## PLUS

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

New built-in led courtesy light

Water resistant SUB remote control included

New PLAY remote control included



Simple and intuitive programming and data management thanks to the KUBE PRO wireless module



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
HA8SS	For sectional doors up to 11 sqm (with 3 m rail) or 12 sqm (with 4 m rail), a 24 Vdc motor and a control unit with an integrated receiver	6,7 kg	64
HA12SS	For sectional doors up to 16 sqm (with 3 m rail) or 19 sqm (with 4 m rail), a 24 Vdc motor and a control unit with an integrated receiver	7,1 kg	64
HA8PP	For sectional doors up to 11 sqm (with 3 m rail) or 12 sqm (with 4 m rail), a 24 Vdc motor and a control unit with an integrated receiver	6,3 kg	64
HA12PP	For sectional doors up to 16 sqm (with 3 m rail) or 19 sqm (with 4 m rail), a 24 Vdc motor and a control unit with an integrated receiver	6,85 kg	64

## KIT COMPONENTS



**HEAD**



**SUB44WR**



**PLAY4R**

<b>HA8SS</b>	• 1 PZ.	• 2 PZ.	
<b>HA12SS</b>	• 1 PZ.	• 2 PZ.	
<b>HA8PP</b>	• 1 PZ.		• 2 PZ.
<b>HA12PP</b>	• 1 PZ.		• 2 PZ.



# BLINDO



ELECTROMECHANICAL GEAR MOTOR FOR SPRING OR COUNTERWEIGHT OVERHEAD DOORS UP TO 9 m<sup>2</sup>, 24 Vdc AND 230 Vac



## PLUS

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

24 Vdc motor with encoder


With 24 Vdc CT10324 control unit with integrated display

With 230 Vac CT102B control unit with integrated display

With slowdown function, granting doors integrity

External release for easy manual unlock from outside

## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>BS-50</b>	For spring or counterweight overhead doors up to 9 m <sup>2</sup> , 230 Vac motor, without control unit. With internal release system and preset for unlocking from outside	40
<b>BS52</b>	For spring or counterweight overhead doors up to 9 m <sup>2</sup> , 230 Vac motor, control unit and slowdown, with limit switches. With internal release system and preset for unlocking from outside	40
 <b>BS5324</b>	For spring or counterweight overhead doors up to 9 m <sup>2</sup> , 24 Vdc motor, control unit, with encoder and slowdown. With release system and preset for unlocking from outside	24



High precision limit switches



Gearbox with metal gears



Control unit CT10324 with integrated receiver programmable with KUBE PRO

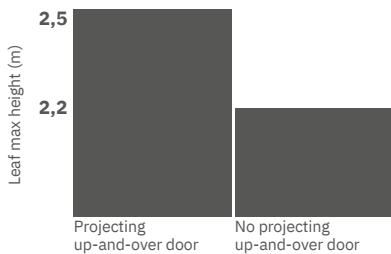


Kube and Kube pro

## TECHNICAL DATA

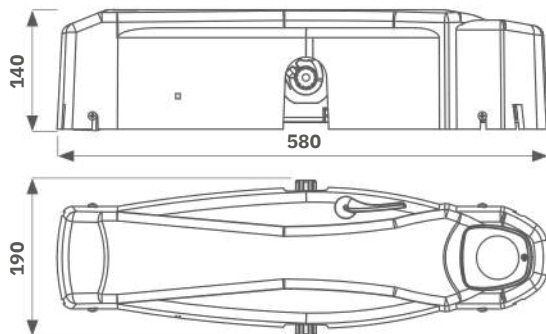
		BS-50	BS52	BS5324
<b>MECHANICAL DATA</b>				
torque	Nm	440	440	350
working cycle	%	30	30	80
<b>ELECTRICAL DATA</b>				
control board		-	CT102B	CT10324
power	Vac	230	230	230
consumption	A	1,8	1,8	1,3
absorbed power	W	400	400	300
capacitor	µF	12,5	12,5	-
thermoprotection	°C	150	150	-
integrated lights		si	si	si
<b>GENERIC DATA</b>				
protection degree	IP	43	43	43
dimensions (L - D - H)	mm	580 - 190 - 140	580 - 190 - 140	580 - 190 - 140
weight	kg	9,4	10,5	9,8
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
door maximum dimensions	m <sup>2</sup>	9	9	9

## LIMIT USE



Values here above are valid if motor is used with standard accessories

## DIMENSIONS



## ACCESSORIES



**BC**  
Standard curved telescopic arm

PZ. 1



**BD**  
Straight telescopic arm

PZ. 1



**BDNS**  
Straight telescopic arm with driller round bar to avoid welding pipes

PZ. 1



**BOC**  
Bushing

PZ. 1



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

PZ. 1



**HAL1S**  
Kit for external unlock with key and metal cord for insulated overhead doors

PZ. 1



**SBLST**  
Kit for external unlock with key and metal cord for uninsulated overhead doors

PZ. 1



**ST2000**  
Motor support bracket. L=2000 mm

PZ. 1



**TZ-1500**  
Pair of transmission arms, length 1500 mm, with supports

PZ. 1



**TZ-2000**  
Pair of transmission arms, length 2000 mm, with supports

PZ. 1



**KUBEPRO**  
Wireless programming module

PZ. 1



**KUBE**  
Wireless controlling module for end user

PZ. 1

NEW

# BLINDO KIT

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



## 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

Water resistant SUB remote control included




Simple and intuitive programming and data management thanks to the KUBE PRO wireless module










IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
<b>KBS52PS</b>	Kit for spring and counterweight overhead doors up to 9 m <sup>2</sup> , 230 Vac motor, control unit with slowdown function (with control unit CT102B)	26 kg	16
 <b>KBS5324PS</b>	Kit for spring and counterweight overhead doors up to 9 m <sup>2</sup> , 24 Vdc motor, control unit with slowdown function (with control unit CT10324)	25,5 kg	16

## KIT COMPONENTS

	 <b>BLINDO</b>	 <b>RX4K</b>	 <b>SUB44WR</b>	 <b>BDNS</b>	 <b>ST2000</b> 	 <b>TZ-1500</b>
<b>KBS52PS</b>	• 1 PC	•	• 2 PCS	• 2 PCS	•	•
<b>KBS5324PS</b>	• 1 PC	INTEGRATED	• 2 PCS	• 2 PCS	•	•







# KEY INDUSTRY INDUSTRIAL AND COMMERCIAL SOLUTIONS

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## SYSTEMS FOR SWING GATES

STAR 500

**74**

76

## SYSTEMS FOR SLIDING GATE

TURBO 160 TURBO 200 TURBO

400

**78**

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## ROAD BARRIERS

ALT

ACCESSORIES

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# SELECTION GUIDE

## SYSTEMS FOR SWING GATES

### STAR 500

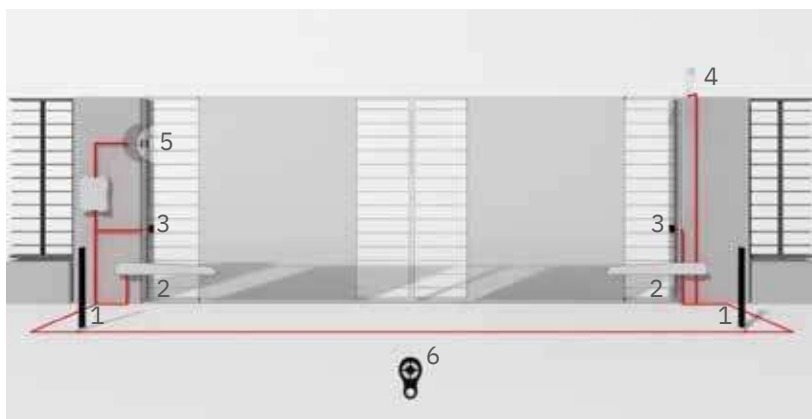
GEAR MOTOR FOR LEAVES UP TO 5 m

230 V, normal use

**PS-400FA**

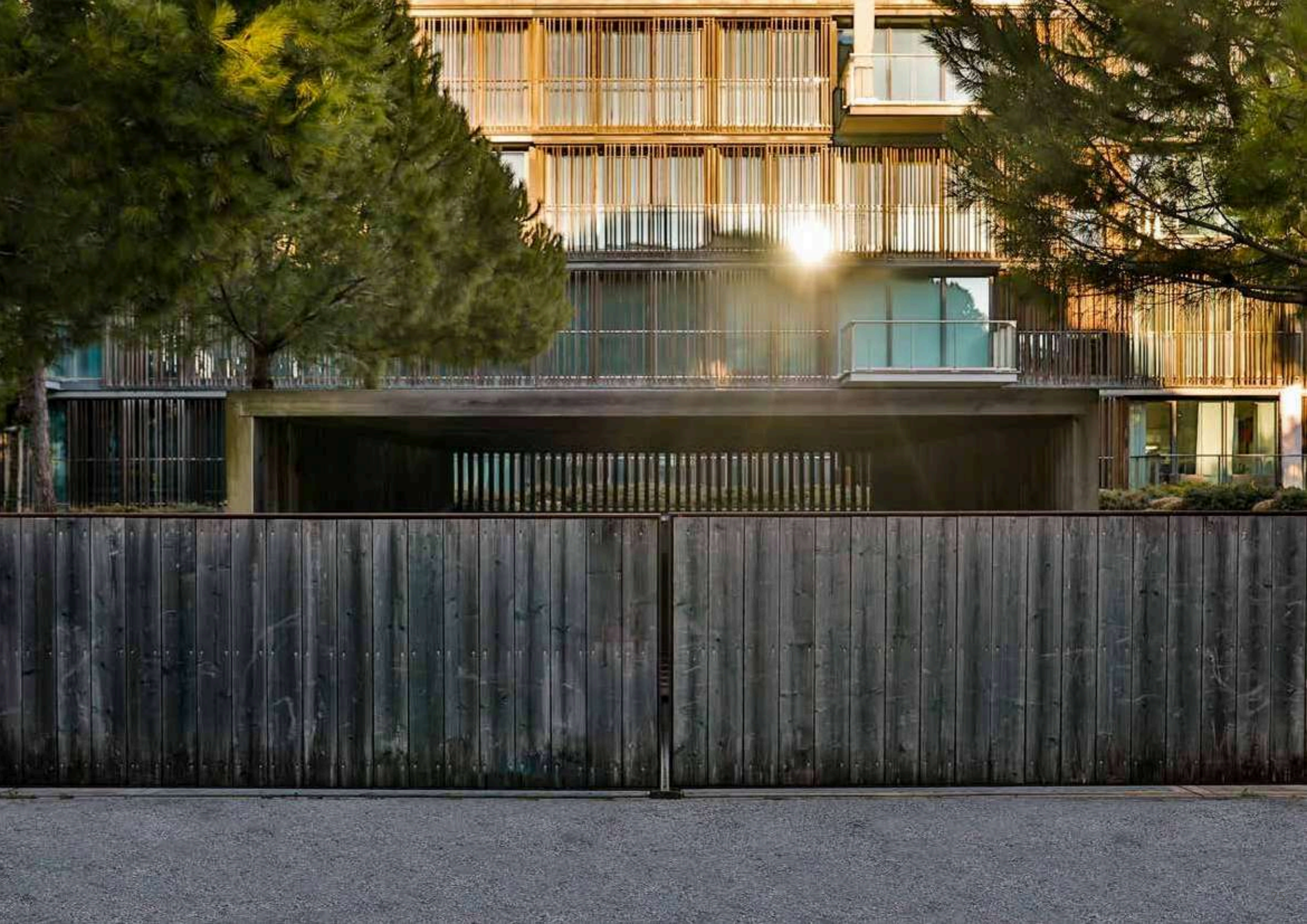
24 V, intensive use

**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



## MODELS

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

## PLUS

Easy mechanical release

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

Opening mechanical stop to control your gate movement

Compatible with 230 Vac control unit CT202

Compatible with 24 Vdc control unit 14AB2

Mechanical parts well protected from weather conditions



Robust bronze lock nut on endless screw



Easy mechanical release



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

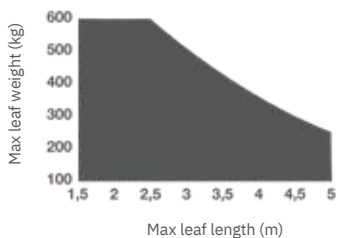


Full-metal reduction

## TECHNICAL DATA

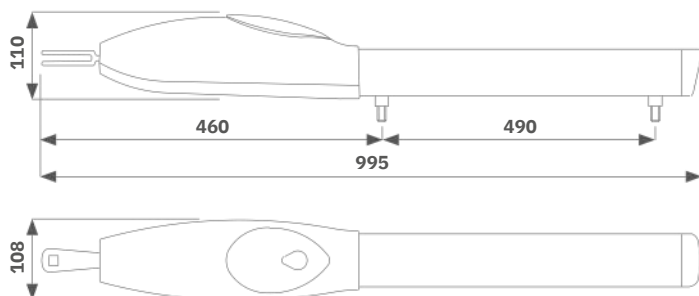
		PS-400FA	PS400-24FA
<b>MECHANICAL DATA</b>			
speed	cm/s	1,4	2,7
pulling force	N	1800	1400
working cycle	%	30	80
opening time at 90°	sec	35	25-35
<b>ELECTRICAL DATA</b>			
control board		CT202	14AB2
power	Vac	230	-
	Vdc	-	24
consumption	A	1,1	5
absorbed power	W	250	120
capacitor	µF	10	-
thermoprotection	°C	150	-
<b>GENERIC DATA</b>			
protection degree	IP	44	44
dimensions (L - P - H)	mm	995 - 108 - 110	995 - 108 - 110
weight	kg cad	9,5	8,8
working temperature	°C	-20 + 55	-20 + 55
leaves maximum weight	Kg	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.

## DIMENSIONS



## ACCESSORIES



**ELC-C**  
Horizontal 12 V electrolock



**FC-PS**  
Mechanical closing stop



**STPOAVS**  
Rear welded bracket



**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



**DYL**  
Programming module  
Cable length  
120 cm (only 14A board)

PC 1



**KUBEPRO**  
Wireless module for  
programming

PC 1



**KUBE**  
Wireless controlling module  
for end user

PC 1



**RX4K**  
4-channel plug-in receiver,  
433MHz, for CT202 control  
unit

PC 1

PC 1

PC 1

PC 1

# SELECTION GUIDE

## SYSTEMS FOR SLIDING GATES

### TURBO160

GEAR MOTOR FOR GATES UP TO 1600 Kg

230 V, normal use, up to 1600 Kg electric limit switch

**SC162**

### TURBO 200

GEAR MOTOR FOR GATES UP TO 2500 Kg

230 V, intensive use, up to 2000 Kg magnetic limit switch

**SC202MHD**

230 V, normal use, up to 2500 Kg magnetic limit switch

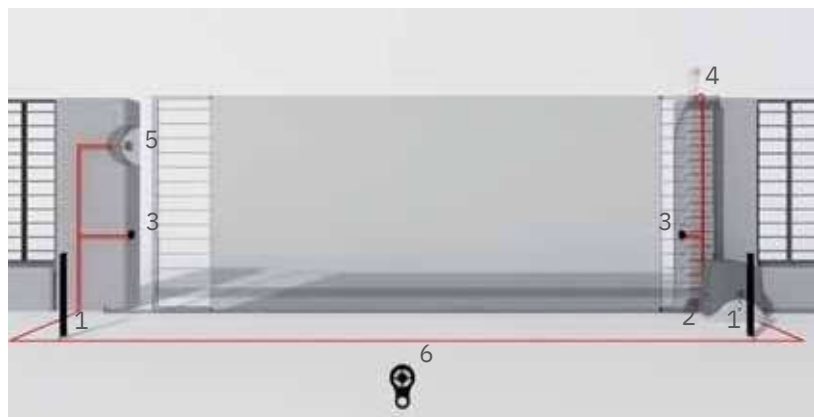
**SC252M**

### TURBO 400

GEAR MOTOR FOR GATES UP TO 4000 Kg

400 V, normal use, up to 4000 Kg magnetic limit switch

**SC400M**



#### 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


Easy maintenance thanks to the horizontal control unit position

With fixing plate included

With 230 Vac CT102B control unit with integrated display

Electronic and mechanical parts well protected from weather conditions

## MODELS

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



LCD display



Bronze gears



Sturdy and performing motors



## TECHNICAL DATA

### SC162

#### MECHANICAL DATA

speed	cm/s	1
torque	Nm	6
working cycle	%	4

#### ELECTRICAL DATA

control board		CT202B
power	Vac	230
consumption	A	2,5
absorbed power	W	600
capacitor	µF	20
thermoprotection	°C	150

#### GENERIC DATA

protection degree	IP	44
dimensions (L - D - H)	mm	320 - 184 - 260
weight	kg	14,7
working temperature	°C	-20 + 55
gate maximum weight	Kg	1600

## ACCESSORIES



**CREM-12 \***  
M4 zinc coated rack 30x12  
mm L=1000 mm

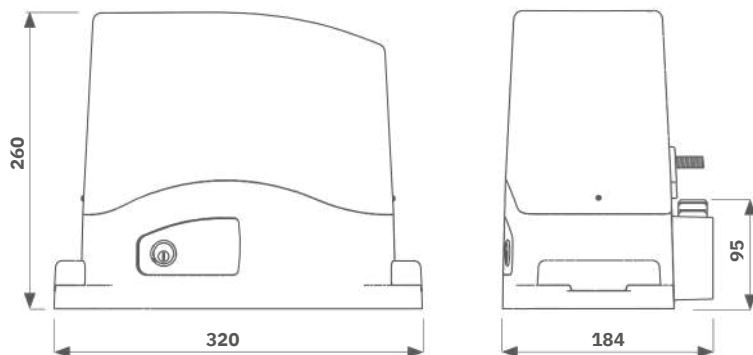
€/m



**RX4K**  
4-channel plug-in receiver,  
433MHz, for CT202  
control unit

PZ. 1

## DIMENSIONS



\* Conf. da 4 pz.

# TURBO 200

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



## MODELS

CODE	DESCRIPTION	PCS PALLET
<b>SC202MHD</b>	For sliding gates up to 2000 Kg, 230 Vac motor, control unit with magnetic limit switch and mechanical electro-brake. M4 pinion. Intensive use	18
<b>SC252M</b>	For sliding gates up to 2500 Kg, 230 Vac motor, control unit with magnetic limit switch. M4 pinion	16

## PLUS

The SC202MHD gearmotor now comes with a electro-mechanical brake as a standard

Easy maintenance thanks to the horizontal control unit position

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

With 230 Vac CT102B control unit with integrated display

Electronic and mechanical parts well protected from weather conditions



Hidden external case fixing



Aluminum polished base and rised fixing plate



Cooling fan (SC202MHD) for intensive use



Sturdy and performing motor

## TECHNICAL DATA

		SC202MHD	SC252M
<b>MECHANICAL DATA</b>			
speed	cm/s	17	17
torque	Nm	93	110
working cycle	%	50/70*	30
<b>ELECTRICAL DATA</b>			
control board		CT102I	CT102B
power	Vac	230	230
consumption	A	4	4
absorbed power	W	920	920
capacitor	μF	25	35
thermoprotection	°C	150	150
<b>GENERIC DATA</b>			
protection degree	IP	44	44
dimensions (L - D - H)	mm	360 - 270 - 390	360 - 270 - 390
weight	kg	24,8	23,7
working temperature	°C	-20 + 55	-20 + 55
gate maximum weight	Kg	2000	2500

\* variable according to the gate weight and dimensions

## ACCESSORIES



**RUEL004A00**  
Pinion M6 Z12

PZ. 1



**CREM-12 \***  
M4 zinc coated rack 30x12  
mm L=1000 mm

€/m



**CREM-30 \*\***  
M6 zinc coated rack 30x30  
mm L=1000 mm

€/m



**SC-EF**  
Mechanical electro-brake  
(for SC252M)

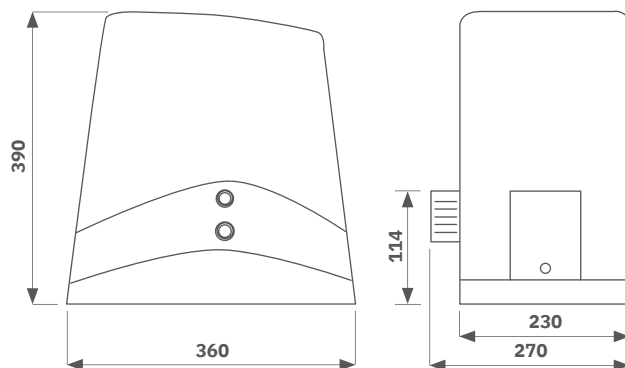
PZ. 1



**RX4K**  
4-channel plug-in receiver,  
433MHz, for CT202  
control unit

PZ. 1

## DIMENSIONS



\* Pack of 4 pcs  
\*\* Pack of 2 pcs.

# TURBO 400

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



## PLUS

Electric brake, to grants safety also on heaviest installations

Easy maintenance thanks to the control unit position

With 400 Vac control unit CT-400

Electronic and mechanical parts well protected from external debris

## MODELS

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



Anti-UV rays coating



Sturdy and high-performing motor

## TECHNICAL DATA

SC400M		
<b>MECHANICAL DATA</b>		
speed	cm/s	17
torque	Nm	180
working cycle	%	30*
<b>ELECTRICAL DATA</b>		
control board		CT-400
power	Vac	400
consumption	A	2
absorbed power	W	750
thermoprotection	°C	150
<b>GENERIC DATA</b>		
protection degree	IP	44
dimensions (L - P - H)	mm	520 - 300 - 585
weight	kg	71
working temperature	°C	-20 + 55
gate maximum weight	Kg	4000

## ACCESSORIES

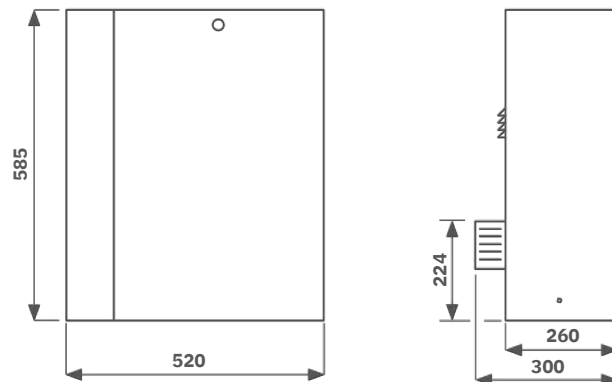


**CREM-30 \***  
M6 zinc coated rack 30x30  
mm L=1000 mm  
€/m



**RXM23K**  
Universal receiver 2  
channels  
fix or rolling code  
PZ. 1

## DIMENSIONS



INDICATES PRODUCTS WITH DELIVERY DATES WITHIN 6 WEEKS

\* Pack of 2 pcs

# SELECTION GUIDE

## ROAD BARRIERS

### ALT3

BARRIER UP TO 3 m

24 V, intensive use with built-in flashing light

**ALT33F**

### ALT4

BARRIER UP TO 5 m

24 V, intensive use with built-in flashing light

**ALT43**

### ALT6

BARRIER UP TO 8,4 m

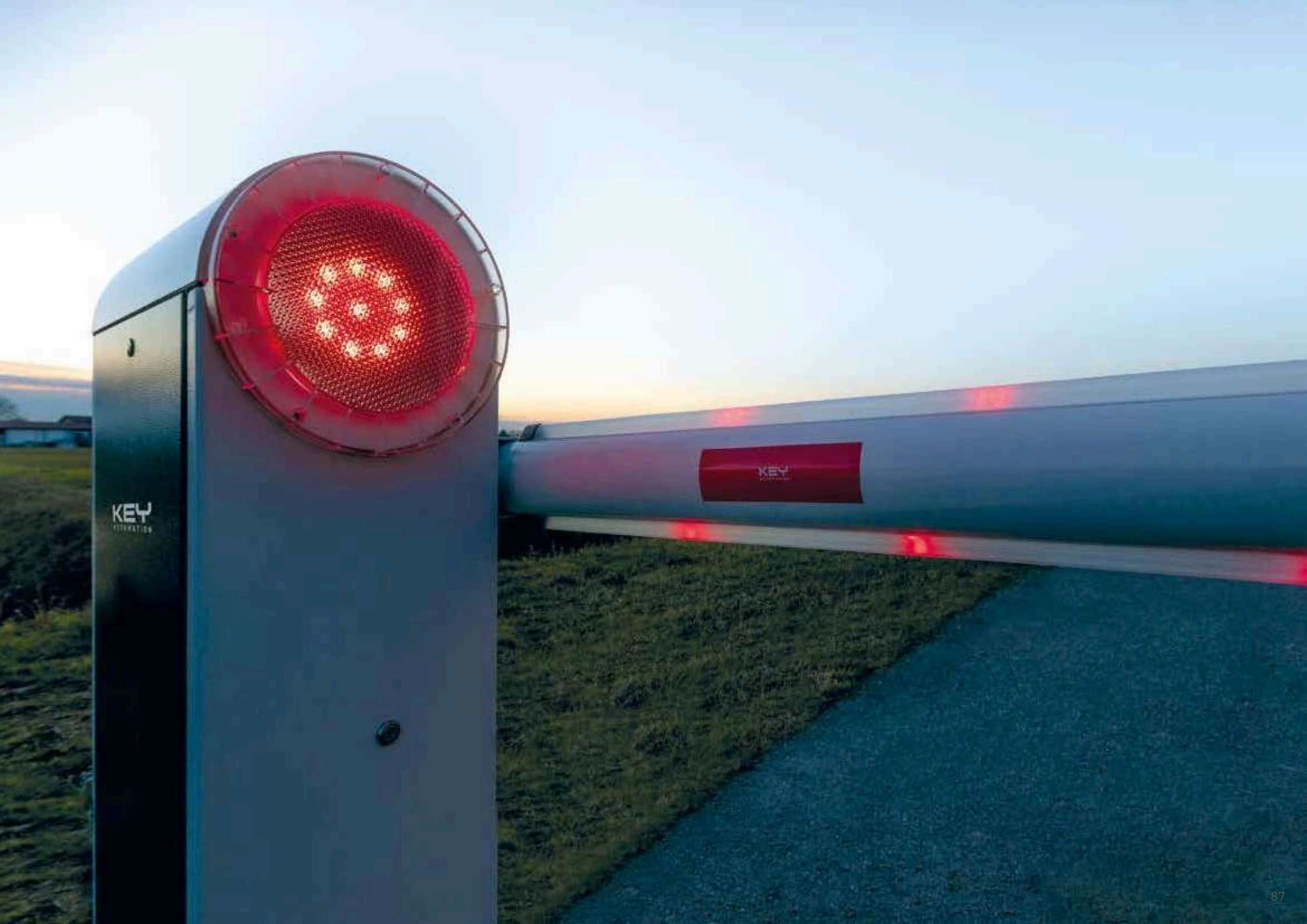
24 V, intensive use with built-in flashing light

**ALT63**



#### STANDARD INSTALLATION FOR ROAD BARRIERS

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



KEY  
ILLUMINATION

KEY

## ROAD BARRIER WITH DOUBLE BUILT-IN FLASHING LIGHT FOR BOOM ARMS FROM 3 TO 8 m, 24 Vdc



### PLUS

For intensive use, for private and public solutions  
 Double built-in flashing light, two-coloured green/red  
 Double spring (6 m model) to counter balance movement and make it more fluent  
 Universal box: boom arm can be installed both right or left  
 Possibility to set different speed in opening and closing motion

With 24 Vdc CT10324 control unit with integrated display  
 Encoder for obstacle detection and immediate run inversion  
 Robust gears and levers for reliable functioning over time  
 Energy saving mode  
 Integrated receiver  
 Anti-UV rays epoxy power coating

### MODELLSI

CODE	DESCRIPTION	PCS PALLET
ALT33F	Barrier body, 24 Vdc motor, with control unit in box, with integrated receiver, with encoder, double built-in led flashing light. For 3 m boom arm, connection for boom arms included	5
ALT43	Barrier body, 24 Vdc motor, with control unit in box, with integrated receiver, with encoder, double built-in led flashing light. For 4 m boom arm, connection for boom arms included	8
ALT63	Barrier body, 24 Vdc motor, with control unit in box, with integrated receiver, with encoder, double built-in led flashing light. For 6 m boom arm, connection for boom arms included	5



Double Led flashing light



Metallic gear + shock resistant motor (ALT63)



Control unit CT10324 with integrated display programmable with KUBE PRO



New boom arm of 5 m for ALT43

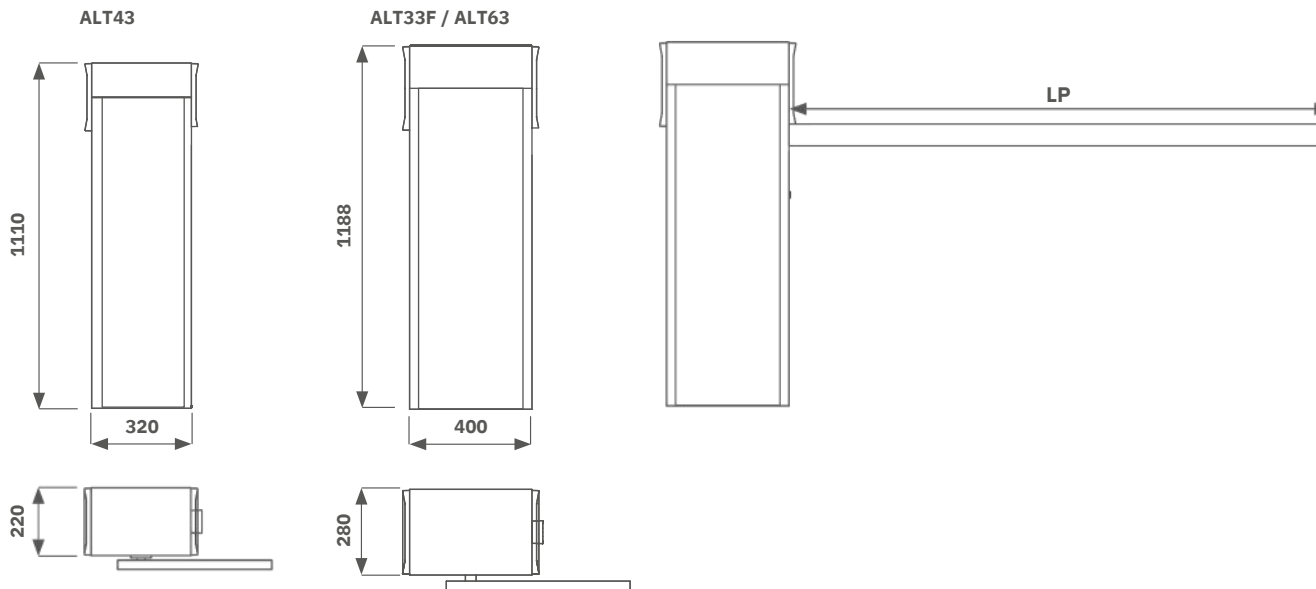


## TECHNICAL DATA

		ALT33F	ALT43	ALT63
<b>MECHANICAL DATA</b>				
torque	Nm	40	200	305
working cycle	%	50	80	80
opening time at 90° **	sec	1	3,5	6/12*
<b>ELECTRICAL DATA</b>				
control board		CT10324F	CT10324	CT10324
power	Vac	230	230	230
consumption	A	1,6	1,3	1,3
absorbed power	W	330	300	300
integrated lights		yes	yes	yes
<b>GENERIC DATA</b>				
protection degree	IP	54	54	54
dimensions (L - D - H)	mm	400 - 280 - 1188	320 - 220 - 1110	400 - 280 - 1188
weight	kg	67,1	42,2	75,8
working temperature	°C	-20 + 55	-20 + 55	-20 + 55
maximum boom arm length	m	3	4	6 *(8 mt)

\*with 8 m boom arm  
\*\* without accessories

## HOW TO CHOOSE THE LED LIGHT SYSTEM FOR BARRIERS



BOOM ARM	CODE	CLEAR OPENING (LP)
3 m	ALT33F + AST3F	2740
4 m	ALT43 + ASTL4	mm
4 m	ALT43 + ASTL4J	3780
5 m	ALT43 + ASTL5	mm
6 m	ALT63 + ASTL6	3780
6 m	ALT63 + ASTL6J	mm
8 m	ALT63 + ASTL8	4780
		mm
		5640
		mm
		5640
		mm
		8040

## ALT33F ACCESSORIES



**AST3F**  
Aluminum tubular boom arm  
L=3 m Ø 60 mm (not fitting  
with accessories)

PC 1



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

PC 1

## ALT43 ACCESSORIES



**ASTL4**  
Aluminum boom arm  
L=4 m Ø 60 mm  
(without accessories)

PC 1



**ASTL4J**  
2+2 m aluminum boom arm Ø  
60 mm + joint

PC 1



**AS-SNO3**  
Aluminum boom arm with  
articulated joint (max. L. 3 m) pre-  
assembled. (Only for ALT43)

PC 1



**ASTL5 \***  
Aluminum boom arm  
L=5 m Ø 60 mm  
(without accessories)

PC 1



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

PC 1



**PROFT**  
Flexible rubber profile,  
8 m and plug set for ASTL4  
(transparent)

PC 1

## ALT63 ACCESSORIES



**ASTL6**  
Aluminum boom arm,  
L=6 m Ø 90 mm  
(without accessories)

PC 1



**ASTL6J**  
3+3 m aluminum boom arm,  
Ø 90 mm + joint

PC 1



**ASTL8 \*\***  
4,2+4,2 m  
aluminum boom arm, Ø 90  
mm + joint + springs

PC 1



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

PC 1



**PROFT6**  
Flexible rubber profile,  
12 m and plug set  
(transparent)

PC 1



**PROFT8**  
Flexible rubber profile,  
16 m and plug set  
(transparent)

PC 1

## ACCESSORIES



**APFX**  
Fixed support  
RAL 7047

PC 1



**APM**  
Mobile support  
RAL 9010

PC 1



**CTLIGHT2**  
Control unit for  
KLIGHT

PC 1



**KLIGHT4**  
Led lights for 4 m bar

PC 1



**KLIGHT6**  
Led lights for 5 and 6 m bar

PC 1



**KLIGHT8**  
Led lights for 8 m bar

PC 1



**LOOP2**  
Magnetic sensor, one coil, one  
outputs

PC 1



**SKIRT2**  
Kit fence, length  
1,7 m

PC 1



**KBP**  
Battery back-up kit

PC 1



**KITFIXBATT**  
Fixing batteries  
brackets

PC 1



**AD**  
Red reflecting  
adhesive stripes

PC 1



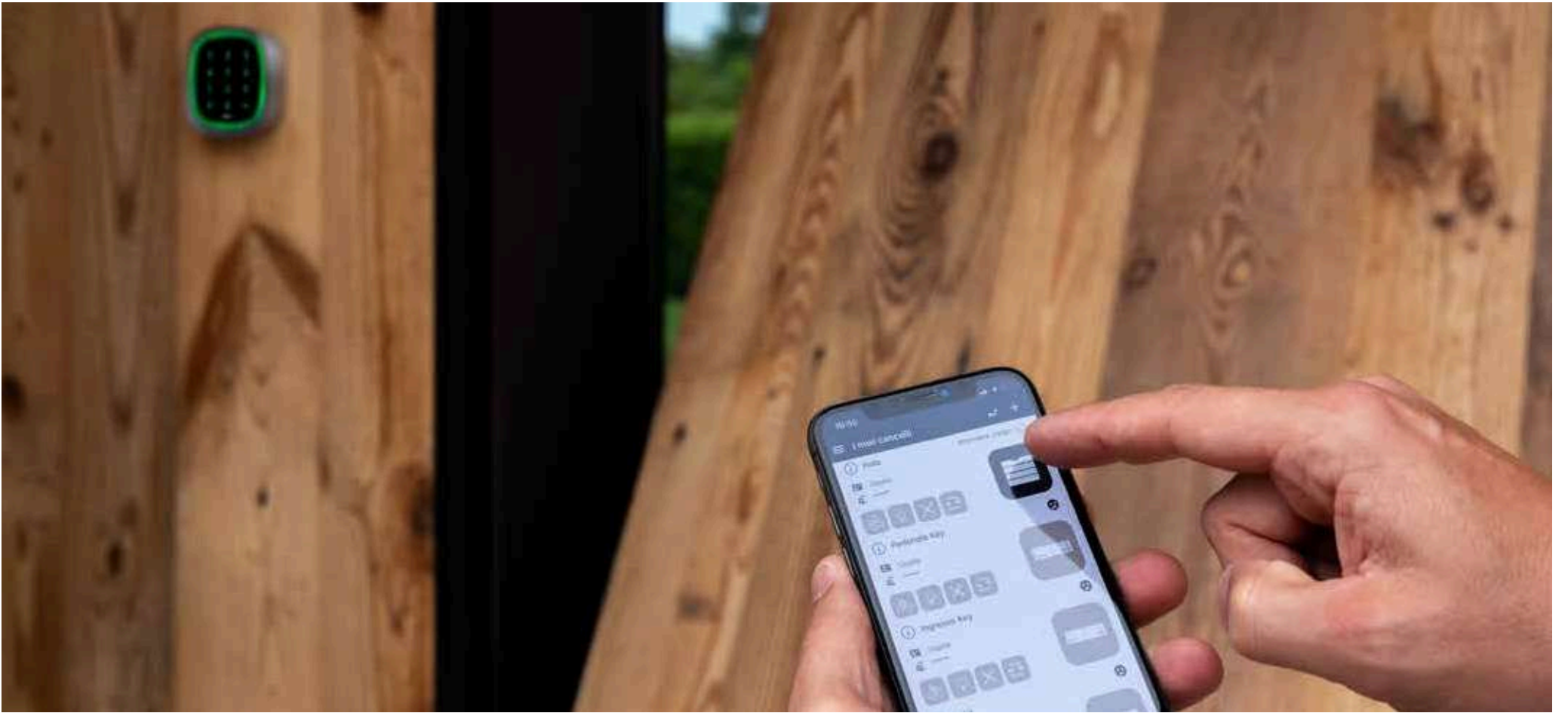
**TWIN**  
Interface for  
master/slave function

PC 1

\* for ASTL5 the combining of PROFT6, KLIGHT6 and APFX is recommended

\*\* for ASTL8 the combining of APFX is recommended





# KEY ACCESSORIES

## SMARTPHONE & APPS

KUBE PRO

KUBE

## TRANSMITTERS

SUB

PLAY

TOUCH

## RECEIVERS

RX4K-RX8

UNIVERSAL RECEIVERS

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SOLE

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ECLIPSE

LUMY

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EGO

EGO COLUMN

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SEKUR CO/COR SEKUR CO-W

## CONTROL UNITS

14A CT10324 CT20324

CT102B CT1RS CT202

RX2H/TX2B CT-400

ACCESSORIES PROGRAMMING

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# KUBE PRO

MODULE FOR SMARTPHONE PROGRAMMING



## PLUS

App specifically designed for professional installers, for configuring doors and gates

KEY CLOUD: a set of services for viewing and backing up data, for the management of your team and the planning of scheduled maintenance in time

Compatible with 14A control unit from 3.0 FW version, HALO and CT10324-CT20324 control units from 2.0 FW version

Wireless Bluetooth technology 4.2 LE

Easy and fast configuration

App native for Android 5.0/iOS 9.3.5 or superior with multilingual support

Compatible with smartphone Android and Apple equipped with Bluetooth 4.0 LE

## MODELS

CODE	DESCRIPTION
KUBEPRO	Module for smartphone programming, for 14A, HALO, CT10324 e CT20324

# KUBE

MODULE FOR AUTOMATION CONTROL FROM SMARTPHONE



## PLUS

App specifically designed for end customers, for opening gates from a smartphone

Able to control garden lights, and manage other users' access from the main smartphone

Synchronisation of automation status with Cloud and Kube Pro installer app

Compatible with 14A control unit from 3.0 FW version, HALO and CT10324-CT20324 control

units from 2.0 FW version

Wireless Bluetooth technology 4.2 LE

Easy and fast configuration

App native for Android 5.0/iOS 9.3.5 or superior with multilingual support

Compatible with smartphone Android and Apple equipped with Bluetooth 4.0 LE

## MODELS

CODE	DESCRIPTION
KUBE	Module for automation control from smartphone, for 14A, HALO, CT10324 and CT20324

# SUB

WATER RESISTANT 4 CHANNELS TRANSMITTER, 433 MHz AND 868 MHz



## 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

## MODELS

CODICE	DESCRIPTION
<b>SUB44WR</b>	4 channels, white colour, XR rolling code 433 MHz, water resistant
<b>SUB44R</b>	4 channels, black colour, XR rolling code 433 MHz, water resistant
<b>SUB44WF</b>	4 channels, white colour, 433 MHz rolling code copier, with on-board receiver, water resistant
<b>SUB44F</b>	4 channels, black colour, 433 MHz rolling code copier, with on-board receiver, water resistant
<b>SUB-44WN *</b>	4 channels, 433 MHz fixed code copier, water resistant, white colour
<b>SUB-44N *</b>	4 channels, 433 MHz fixed code copier, water resistant black colour
<b>SUB84WR</b>	4 channels, white colour, XR rolling code 868 MHz, water resistant

\* for COPIER SUB minimum order 50 pcs



## KIT SUB

CODE	DESCRIPTION
<b>KSUB44PR</b> <span style="background-color: red; color: white; border-radius: 50%; padding: 2px;">NEW</span>	Kit 10 SUB transmitters XR rolling code pink
<b>KSUB44OR</b> <span style="background-color: red; color: white; border-radius: 50%; padding: 2px;">NEW</span>	Kit 10 SUB transmitters XR rolling code orange
<b>KSUB44BR</b>	Kit 10 SUB transmitters XR rolling code blue
<b>KSUB44YR</b> <span style="background-color: red; color: white; border-radius: 50%; padding: 2px;">NEW</span>	Kit 10 SUB transmitters XR rolling code yellow
<b>KSUB44MR</b>	Kit 10 SUB transmitters XR rolling code magenta
<b>KSUB44CR</b> <span style="background-color: red; color: white; border-radius: 50%; padding: 2px;">NEW</span>	Kit 10 SUB transmitters XR rolling code red
<b>KSUB44GR</b>	Kit 10 SUB transmitters XR rolling code green
<b>KSUB44WR</b>	Kit 10 SUB transmitters XR rolling code white
<b>KSUB44-R</b>	Kit 10 SUB transmitters XR rolling code black

## I LOVE SUB



3 transmitters SUB (SUB44WR white colour, SUB44R black colour and SUB44MR magenta colour) rolling code, water resistant, 4 channels, 433 MHz  
3 key rings (RING)

1 universal receiver 2 channels, rolling code, 1000 codes (RXM23K)



**SUB44WR**

• 1 PZ.



**SUB44R**

• 1 PZ.



**SUB44MR**

• 1 PZ.



**RING**

• 3 PZ.



**RXM23K**

• 1 PZ.

**ILSUB**

## ACCESSORIES



**KRING**  
Key ring kit

PZ. 1

### DID YOU KNOW?

There are 3 families of SUB transmitters **SUB R** is a 4-channel rolling code transmitter **SUB F** allows you to install a new transmitter without accessing the receiver. If you have a SUB R transmitter already programmed you can authorise a new transmitter F remotely, wherever you are. The system only works with Key transmitters and receivers **SUB N** learns the code of fixed code transmitters, including those of other manufacturers



# PLAY

4 CHANNELS TRANSMITTER, 433 MHz



## PLUS

Rolling code remote control with 4 channels  
Simple, functional and ergonomic. Easy battery replacement

The new remote control can manage any Key Automation installations, either pre-existing or new  
Car sun visor holder included

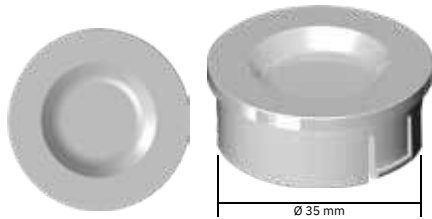
## MODELS

CODE	DESCRIPTION
KPLAY4R	4 channels, kit 2 transmitters in ABS, rolling code, inverted colours charcoal grey / light grey
KPLAY4F	4 channels, kit 2 transmitters in ABS, rolling code with on board receiver, inverted colours charcoal grey / light grey



# TOUCH

1/2 CHANNELS TOUCH TRANSMITTER, 433 MHz



Touch type transmitter Rolling Code 433.92MHz, 1/2 channels with adjustable operation

Motion sensor with adjustable brightness threshold and detection range (TO2MP)

Sensor or transmitter operation activated via touch keys (TO2MP)

Door opening, automatic lights switching-on with motion sensor, manual lights switching on/off

(TO2MP)

Ideal for wall installation and recessed installation on door panel (TO1U)

Recessed mounting, 35mm diameter and 13mm depth (TO1U)

Battery CR 2450 (TO1U)

## MODELS

CODE	DESCRIPTION
TO1U	1 channel, 433 MHz rolling code
TO2MP	2 channels, 433 MHz rolling code, with motion sensor (HALO only)
TO1M	1 channels, 433 MHz rolling code
TO2M	2 channels, 433 MHz rolling code

# RX4K-RX8

PLUG-IN RECEIVER, 433 MHz AND 868 MHz



## PLUS

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

4 channels output  
Memory up to 1000 codes

## MODELS

CODE	DESCRIPTION
RX4K	4 channels plug-in receiver, fix or rolling code, 1000 codes, blue led, 433MHz
RX8	4-channel plug-in receiver, rolling code, 1000 code memory, green LED, 868 MHz



# RXM23K-RXM28

2 CHANNELS UNIVERSAL RECEIVERS 433 MHz AND 868 MHz



## ELECTRICAL DATA

reception frequency <b>RXM23K</b>	MHz	433,920
reception frequency <b>RXM28</b>	MHz	868,3
feed with inserted jumper	Vac	12-14
	Vdc	10-16
feed with jumper not inserted	Vac	14-24
	Vdc	16-35
maximum consumption with both relays active	mA	70
maximum relay contact current	A	1

## GENERIC DATA

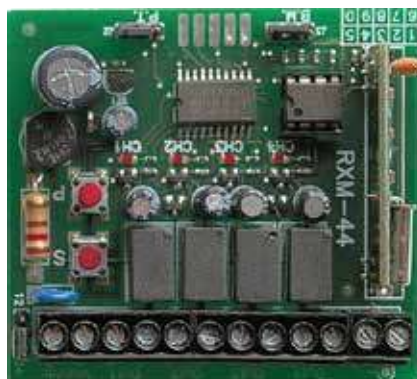
protection degree	IP	30
dimensions (L - D - H)	mm	85 - 40 - 25
operating temperature	°C	-20 + 50

## MODELLI

CODE	DESCRIPTION
<b>RXM23K</b>	Universal receiver 2 channels, fix or rolling code, 1000 codes 433 MHz
<b>RXM28</b>	Universal 2-channel receiver, rolling code, 1000 code memory, 868 MHz

# RXM-44R

4 CHANNELS UNIVERSAL RECEIVERS



## ELECTRICAL DATA

reception frequency	MHz	433,920
power	Vac	12-24
	Vdc	12-24
max consumption	mA	70
relay contacts max supply	A	1

## GENERIC DATA

protection degree	IP	44
dimensions (L - D - H)	mm	130-80-120
operating temperature	°C	-20 + 55

## MODELS

CODE	DESCRIPTION
<b>RXM-44R</b>	Universal receiver 4 channels, rolling code, 220 codes

# SOLE

## SOLAR POWER KIT FOR ROAD BARRIERS AND GATES



### SOLEAU - CASE WITH CONTROL

PV voltage	V	≤ 50
Maximum current	A	20
Rated voltage	V	24
Wiring	PCB terminal, ≤6mm <sup>2</sup>	
Working temperature	°C	-20 ~ +50
Storage temperature	°C	-30 ~ +60
Working humidity	%	10 ~ 90
Plastic box dimension (L - D - H)	mm 316 × 396 × 188	
Weight (box without batteries)	kg	3 (+25kg for the batteries)
Protection degree	IP	56

### PF30W - SOLAR PANEL

Peak Power (Pmax)	W	30
Voltage at Pmax (Vmp)	V	34.4
Current at Pmax (Imp)	A	0.87
Open circuit Voltage (Voc)	V	43.2
Short-circuit Current (Isc)	A	0.96
Working temperature	°C	-40 ~ +85

## PLUS

The stainless steel mounting kit offers easy installation on fixed, surfaces or on poles

30W solar panel with charge controller to ensure reliable operation

Sturdy system to withstand high wind pressure, hail and snow load

Pre-cabled wiring

Sliding gate motors compatible: SUN series 24V, TURBO series 24V

Swing gate motors compatible: RAY series 24V, STAR series 24V, RÉVO series, MEWA series 24V, UNDER series 24V Road barriers compatible: ALT series 24V

## MODELS

CODE	DESCRIPTION	WEIGHT	PCS PALLET
PF30W	30 W solar panel	2,9 Kg	
SOLEAU	Box with control card and fixing hardware for solar panel (without batteries)	6,1 Kg	36

## KIT COMPONENTS



PF30W



BOX WITH CONTROL CARD



PANEL MOUNTING BRACKET

PF30W	• 1 PZ.		
SOLEAU		•	•

## ACCESSORIES



STAF089A00  
Solar mounting bracket

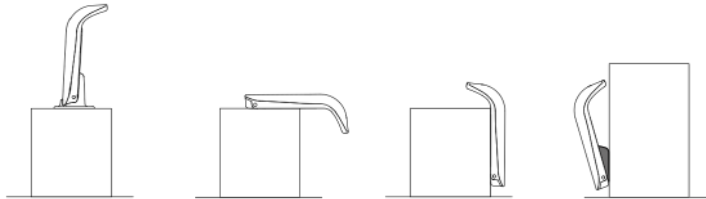
PZ. 1

# ECLIPSE

FULL LED FLASHING AND COURTESY LIGHT



NEW LED



Vertical installation on column



Horizontal installation on column

## PLUS

New LEDs lights that allows continuous, uniform light and an increase in the protection rating against humidity and atmospheric agents

New wall support

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

Integrated antenna

Multiple positioning both horizontally and vertically

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

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)

## MODELS

CODE	DESCRIPTION
ECLIPSE	Led flashing and courtesy light with crepuscular sensor and built-in antenna

## MECHANICAL DATA

maximum cycle operation (led flashing)	%	50/100
maximum cycle operation (courtesy light)	%	100

## ELECTRICAL DATA

power led flashing/courtesy light	Vdc	24-35
	Vac	20-24
absorbed courtesy light	W	2
absorbed led flashing	W	3
antenna frequency	MHz	433,92

## GENERIC DATA

protection degree	IP	54
colour (led flashing)	-	amber
colour (courtesy light)	-	white
dimensions (L - D - H)	mm	75 - 98 - 190
operating temperature	°C	-20 + 55



## PLUS

The new color gives a completely new look to the flashing light and ensures that, when the automation is not in motion, it is not very visible, and therefore makes it minimally invasive and in harmony with the adjacent spaces

## MODELS

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

## ACCESSORIES



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

PC 1



**SULU**  
Support for LUMY

PC 1



# SEKUR FT

## PHOTOCELLS



FT33

FT23

FT43

FT43B

		FT33	FT23	FT43	FT43B
<b>ELECTRICAL DATA</b>					
power range	Vac	10-30	10-30	10-30	10-30
consumption rx	Vdc	10-40	10-40	10-40	10-40
consumption tx	m	25	25	25	20
relay contacts max supply	mA	27	27	27	35
<b>GENERIC DATA</b>	mA	10	10	10	0,04
protection degree	A	1	1	1	1
<b>dimensions (L - P - H)</b>					
operating temperature	IP	54	54	54	54
	mm	80 - 33 - 88	30 - 26 - 88	38 - 38 - 109	38 - 38 - 109
	°C	-20 + 55	-20 + 55	-20 + 55	-20 + 55

## PLUS

New logic circuit with improved performance Snow darkening, to avoid false obstacles detection  
function: photocell activates an adaptatively temporized mode, in case of frequent dimming or Two programmable ranges

## MODELS

CODE	DESCRIPTION
FT33	Pair of photocells for external use and flush mounting
FT23	Pair of photocells for external use for small pillars
FT43	Pair of photocells for external use adjustable through 180°, for small pillars
FT43B	Pair of photocells for external use adjustable through 180°, for small pillars, battery powered

## ACCESSORIES



**MUR-P**  
Plastic wall  
support for FT33

PC 1



### PLUS EGKTB1 and EGKTB2

Touch keyboard via PowerBUS with 2-wire power supply

Backlighting with RGB LED in 7 selectable colours

Rainbow feature for automatic colour changing

Energy saving mode: the lighting switches off during the day, controlled by an environment sensor

Silent mode: possibility of turning off the buzzer

Power supply: 10-24 Vac and 12-34 Vdc

Flush-mounted version compatible with LE-GRAND® 080021 built-in box and other commonly available ones

Hand-brushed and painted metal bottom

Possibility of generating time-sensitive access codes

Easy access code customisation up to 50 codes, installer action not required

Possibility of rolling out the system to up to 20 devices connected in parallel to the PowerBUS

Decoder with 2 programmable relays (impulse, bistable and timed types)

Database access management via app and cloud server: ideal for B&Bs, gyms, small garages (EGKTB2)

### PLUS EGKTR1 e EGKTR2 (to be paired with all Key Automation receivers)

Touch keyboard via radio 433.920 MHz rolling code with integrated antenna

Backlighting with RGB LED in 7 selectable colours

Energy saving mode: the lighting switches off during the day, controlled by an environment sensor

Silent mode: possibility of turning off the buzzer

Powered by AAA lithium batteries easily available commercially

Easy customisation of the access code

Hand-brushed and painted metal bottom (only for EGKTR1)

Plastic base (EGKTR2)

### PLUS EGS1 e EGS2

All-metal body (EGS1)

All-metal body or plastic base (EGS2)

New design coordinated with the new EGO keyboard

## MODELS

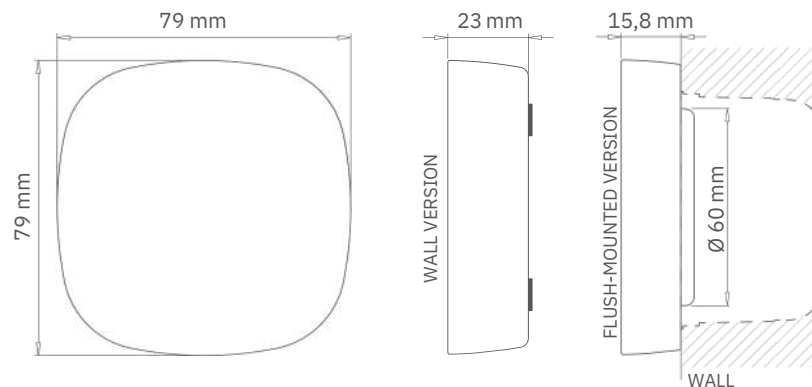
CODE	DESCRIPTION
<b>EGKTB1</b>	Touch keyboard via PowerBUS
<b>EGKTB2</b>	Touch keyboard via PowerBUS with integrated bluetooth (September 2023)
<b>EGKTR1</b>	Touch keyboard via radio (Rolling Code) with all-metal base
<b>EGKTR2</b>	Touch keyboard via radio (Rolling Code) with plastic base
<b>EGKD2</b>	2-Channel decoder, to be paired with EGKTB1
<b>EGKD3</b>	2-Channel decoder with integrated clock and battery, to be paired with EGKTB2 (September 2023)
<b>EGKD4</b>	2-Channel decoder with 433 MHz radio receiver, to be paired with EGKTB2 (September 2023)
<b>EGS101</b>	Key selector with all-metal base Key code 01 for EGS101, code 02 for EGS102, code 03 for EGS103
<b>EGS102</b>	
<b>EGS103</b>	
<b>EGS104 EGS105 EGS106</b>	Key selector with all-metal base. Key code 04 for EGS104, code 05 for EGS105, code 06 for EGS106, code 07 for EGS107, code 08 for EGS108, code 09 for EGS109, code 10 for EGS110
<b>EGS107 EGS108 EGS109</b>	
<b>EGS110</b>	
<b>EGS201</b>	
<b>EGS202</b>	
<b>EGS203</b>	Key selector with plastic base. Key code 01 for EGS201, code 02 for EGS202, code 03 for EGS203
<b>EGS204</b>	
<b>EGS205</b>	
<b>EGS206</b>	
<b>EGS207</b>	
<b>EGS208</b>	Key selector with plastic base. Key code 04 for EGS204, code 05 for EGS205, code 06 for EGS106, code 07 for EGS207, code 08 for EGS208P, code 09 for EGS209, code 10 for EGS210
<b>EGS209</b>	
<b>EGS210</b>	



## TECHNICAL DATA

	<b>EGKTB1</b>	<b>EGKTB2</b>	<b>EGKTR1/EGKTR2</b>	<b>EGKD2</b>	<b>EGKD3</b>	<b>EGKD4</b>
Power	Vac	BUS	BUS	BUS / 10-24	BUS / 10-24	BUS / 10-24
	Vdc	BUS	BUS	BUS / 12-35	BUS / 12-35	BUS / 12-35
Absorbed power	Typical	0,25 W	0,35 W	0,2 W	0,2 W	0,2 W
	Max	1,5 W	0,7 W	1,5 W	1,5 W	1,5 W
Radio frequency	MHz	-	-	-	-	433.920
N° of outputs	-	-	-	2	2	2
Maximum cable length	m	50 m with 2x0,35 mm <sup>2</sup> cable		50 m with 2 x 0,35 mm <sup>2</sup>		
N° of memorized codes	50	50	-	50	200 / 1000	5
Max n° of devices connected to the PowerBUS line	10	10	-	-	10	0
Relay characteristics	-	-	-	Clean contact 50V 0,2A (resistive load)		
Operating temperature	°C	-10 +55	-10 +55	-10 +55	-20 +55	-20 +55
Protection degree	IP	55	55	30	30	30
Configuration through Bluetooth and App		NO	YES	NO	-	-

## DIMENSIONS



## ACCESSORIES



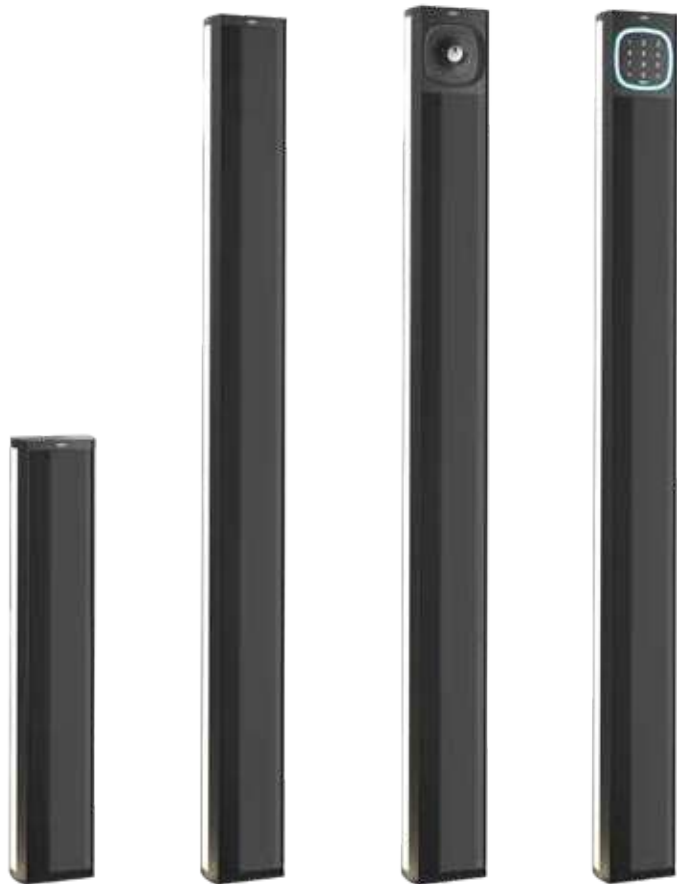
**RXM23K**  
Universal receiver 2 channels, fix or rolling code, 1000 codes

PC 1



**SUPP022A00**  
Flush-mounted back plastic cover

PC 1



### MODELS

CODE	DESCRIPTION
EG50	Support post h. 50 cm
EG50L	Support post h. 50 cm with integrated LED light (5W LED)
EG100	Support post h. 100 cm
EG100L	Support post h. 100 cm with integrated LED light (10W LED)
EG100A	Support post h. 100 cm with accessory housing
EG100LA	Support post h. 100 cm with integrated LED light (10W LED) and accessory housing
CTLIGHT2	Voltage regulator for LED lights 24 Vdc, max 30W (mandatory for all control units except BOXLED control units)

### ACCESSORIES



**EG1**  
Single light with wiring to illuminate one side only, h. 50 cm



**EG2**  
Single light with wiring to illuminate one side only, h. 100 cm



**EG3**  
Anchor plate for fixing



**STI1**  
Tip for soil fixing

PC 1



**VIP1**  
Interface for night mode  
PC.1

PC 1



**QUADRO**  
Night sensor  
PC.1

PC 1

PC 1



# SEKUR CO/COR

SAFETY SYSTEMS



COMSC16  
COMSC20  
COMSC25

COMB12  
COMB18

## MODELS

CODE	DESCRIPTION
COMSC16	Mechanic safety edge, 1,6 m long for sliding gates. With micro-switches
COMSC20	Mechanic safety edge, 2,0 m long for sliding gates. With micro-switches
COMSC25	Mechanic safety edge, 2,5 m long for sliding gates. With micro-switches
COMB12	Mechanic safety edge, 1,2 m long for overhead doors. With micro-switches
COMB18	Mechanic safety edge, 1,8 m long for overhead doors. With micro-switches

Control board and resistors not included. The following can be used with the COMB line: ANG (CORNERS), TAP (END CAPS), GIUN (CONNECTORS)  
COMSC16, COMSC20 and COMSC25 can only be shortened on one side by max. 400 mm.  
COMB12 and COMB18 can be shortened on both sides for max. 175 mm

## ACCESSORIES



**ANG**  
Pair of junction  
corners left/right

PC 1



**TAP**  
Pair of caps left/right

PC 1



**GIUN**  
Joints

PC 1

# SEKUR CO/W

RADIO SAFETY EDGE SYSTEM, 868 MHz



COMTX



COMRX

Radio receiver-transmitter system for maximum safety and fast installation  
Bidirectional 868MHz transmission  
Up to 8 transmitters for each receiver  
4 different frequencies to avoid interference

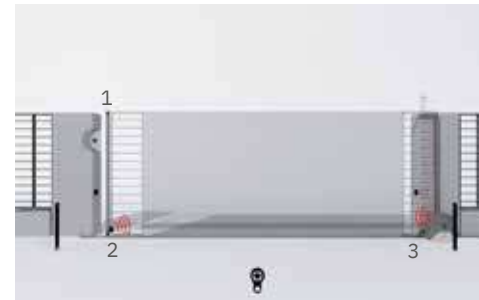
Possibility to connect mechanical or resistive safety edge 8.2kohm  
Waterproof box  
2 years battery lifetime (5 years with power saving mode)

## MODELS

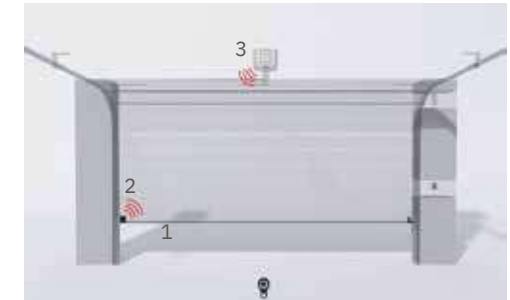
CODE	DESCRIPTION
COMTX	868MHz radio transmitter for safety edge
COMRX	868MHz radio receiver for safety edge control
KCOMW	Radio transmitter and receiver kit with batteries included

## STANDARD INSTALLATION

1 Edge system  
2 Transmitter  
3 Receiver



1 Edge system  
2 Transmitter  
3 Receiver



24Vdc 10A power module (PO24)



Display module (DYL)



Logic mainboard (MA24)



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



4 channels plug-in receiver (RX4K)



Wireless module (KUBEPRO and KUBE)

### PLUS

Latest generation control unit to control all 24V automation systems

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 automatic partial closing

Separate OPEN-STOP-CLOSE inputs and PP - PARTIAL 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

Electro lock output

Battery back-up optional

### MODELS

CODE	DESCRIPTION
<b>14AB2 *</b>	Control unit in box for two 24Vdc motors (without DYL and without receiver RX4K) with transformer 250 VA
<b>14AB2F</b>	Control unit in box for two 24Vdc motors (without DYL and without receiver RX4K) with transformer 250 VA to be paired with fast line motors
<b>MA24</b>	Logic mainboard
<b>PO24</b>	Power module 24Vdc 10A
<b>BOX250</b>	Box with transformer 250 VA

\* mandatory for motors RAY4024E, UND24, SN-50-24, SN5024B



DYL display or the KUBE PRO wireless module are mandatory to program the 14A control unit



All kits that include the 14A control unit offer the possibility of adding up to 20 additional LED lights, to illuminate the entrance of the house during the night automatically and economically



IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud



## ACCESSORIES



**DYL**  
Programming module  
Cable length  
120 cm (only 14A board)

PC 1



**RX4K**  
4 channels plug-in  
receiver, 433MHz

PC 1



**KUBEPRO**  
Wireless module for pro-  
gramming

PC 1



**KUBE**  
Wireless controlling module  
for end user

PC 1



**QUADRO**  
Night sensor

PC 1



**ECLIPSE**  
Full LED flashing and courtesy  
light

		<b>14AB2</b>	<b>14AB2F</b>
<b>ELECTRICAL DATA</b>			
input power	Vac/Hz	230/50	230/50
output power accessories	Vdc	24	24
max motor power	W	300	300
max working time	sec	240	240
max pause time	sec	900	900
obstacle detection		yes	yes
<b>GENERIC DATA</b>			
protection degree	IP	54	54
dimensions (L - D - H)	mm	222 - 275 - 110	222 - 275 - 110
operating temperature	°C	-20 + 55	-20 + 55



# CT10324

24 Vdc CONTROL UNIT FOR SINGLE MOTOR



## PLUS

Improved and unified programming logic for 20324 and 10324 control units with software-based motion reversal

New 5-character / 16-segment display for more natural and intuitive reading

Optional programming with KUBE PRO wireless module (from FW version 2.0)

Improved position detection with no need for a physical encoder

Fully moulded control unit enclosure for better protection against the effects of weather

Diagnostic LED for physical encoder fault detection (CT10324)

Disabling of safety via dip-switch

250W transformer included (CT20324E). Designed for future installation of a stand-by energy saving module (2024)

Amperometric obstacle detection with inversion

Standard or programmable deceleration in opening and closing

ning and closing

Configurable partial input, for example as a second safety edge (from FW 2.0 version)

Inputs: OPENS – CLOSES – SBS (STEP-BY-STEP) – PARTIAL separated

Inputs for SAFETY EDGE 8k2 / STOP – PHOTO1 – PHOTO2

Display of inputs and safety devices via LEDs

Steady or flashing beacon output

Courtesy light output

Open gate / electric lock indicator output

Phototest optional

Safety edge test optional

Built-in 433MHz radio

Option to store up to 150 codes

## MODELS

CODE	DESCRIPTION
CT10324	For a motor for a sliding gate, up-and-over door or electromechanical barrier, 24 Vdc, with self-learning of travel and deceleration on opening and closing. Built-in radio receiver

## CT10324

### ELECTRICAL DATA

input power	Vac/Hz	230/60
output power accessories	Vac	24
	Vdc	24
max motor power	W	150
max working time	sec	240
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

# CT20324

24 Vdc CONTROL UNIT FOR UP TO TWO MOTORS



## PLUS

Improved and unified programming logic for 20324 and 10324 control units with software-based motion reversal

New 5-character / 16-segment display for more natural and intuitive reading

Optional programming with KUBE PRO wireless module (from FW version 2.0)

Improved position detection with no need for a physical encoder

Fully moulded control unit enclosure for better protection against the effects of weather

Diagnostic LED for physical encoder fault detection (CT10324)

Disabling of safety via dip-switch

250W transformer included (CT20324E). Designed for future installation of a stand-by energy saving module (2024)

Amperometric obstacle detection with inversion

Standard or programmable deceleration in opening and closing

Configurable partial input, for example as a second safety edge (from FW 2.0 version)

Inputs: OPENS – CLOSES – SBS (STEP-BY-STEP) – PARTIAL separated

Inputs for SAFETY EDGE 8k2 / STOP – PHOTO1 – PHOTO2

Display of inputs and safety devices via LEDs

Steady or flashing beacon output

Courtesy light output

Open gate / electric lock indicator output

Phototest optional

Safety edge test optional

Built-in 433MHz radio

Option to store up to 150 codes

## MODELS

CODE	DESCRIPTION
CT20324	For two motors for swing gates, 24 Vdc, with self-learning of travel and deceleration on opening and closing. Built-in radio receiver. In box
CT20324E	For two motors with encoder for swing gate, 24 Vdc, with self-learning of travel and deceleration on opening and closing. Built-in radio receiver. In box

		CT20324	CT20324E
<b>ELECTRICAL DATA</b>			
input power	Vac/Hz	230/50-60	230/50-60
output power accessories	Vac	24	24
	Vdc	24	24
max motor power	W	210	280
max working time	sec	240	240
max pause time	sec	0 - 900	0 - 900
obstacle detection		yes	yes
encoder support		no	yes
<b>GENERIC DATA</b>			
protection degree	IP	54	54
dimensions (L - D - H)	mm	222 - 110 - 275	222 - 110 - 275
operating temperature	°C	-20 + 55	-20 + 55

# CT102B

230 Vac CONTROL UNIT



## PLUS

Same programming logic for all control boards CT102B, CT202, CT10324, CT20324 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Programmable automatic partial closing

Separate OPEN - CLOSE inputs and PP - PARTIAL input

Safety edge 8,2Kohm NC - STOP - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light or open gate indicator output

3 digits display

Optional photo test

Optional test for safety edge

New plug-in radio receiver 4 channels RX4K

## MODELS

CODE	DESCRIPTION
CT102B	For one motor for sliding gate, overhead door, 230 Vac, with electronic clutch and connector for receiver, slowdown in opening and closing

		CT102B
<b>ELECTRICAL DATA</b>		
input power	Vac/Hz	230/60
output power accessories	Vdc	24
max motor power	W	700
max working time	sec	adjustable
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

# CT1RS

230 Vac CONTROL UNIT FOR ROLLING SHUTTER OR SLIDING GATE



## PLUS

More intuitive programming thanks to 3-colour LEDs, dip-switches and trimmers

Possibility of cancelling one transmitter at a time

Possibility of storing transmitters of the SUB-F series

Motor torque adjustable via a trimmer

Courtesy time adjustable via a trimmer

Safety test function

Maximum motor power 700 W

Flash light maximum output power 60 W

Accessories power 3.6 W

## MODELS

CODE	DESCRIPTION
CT1RS	For one motor for rolling shutter or sliding gate, 230 Vac, with electronic clutch, limit switch and receiver. In box

### CT1RS

ELECTRICAL DATA		
Input power	Vac/Hz	230/50
Output power accessories	Vdc	24 not stabilized
Maximum current of external devices on 24 Vdc	mA	150
Consumption	W	2
Max motor power	W	700
Maximum output power courtesy light	W	60
230 Vac output protection		Quick 5A fuse (F1)
GENERIC DATA		
Integrated receiver capability		250 codes
Integrated receiver frequency	MHz	433,92
Protection degree	IP	54
Dimensions (L - D - H)	mm	200 - 160 - 90
Operating temperature	°C	-20 + 55

# CT202

230 Vac CONTROL UNIT



## PLUS

Same programming logic for all control boards CT102B, CT202, CT10324, CT20324 with run inversion via software

Amperometric obstacle detection with run inversion

Standard or programmable slowdown in opening and closing

Programmable automatic partial closing

Separate OPEN - CLOSE inputs and PP - PARTIAL input

Safety edge 8,2Kohm NC - STOP - photo 1 and photo 2

Inputs and safety devices LED visualization

Flashing light output fixed or flashing

LED courtesy light or open gate indicator output

Programmable electro lock timing

Pressure control for hydraulic motors

3 digits display

Optional photo test

Optional test for safety edge

New plug-in radio receiver 4 channels RX4K

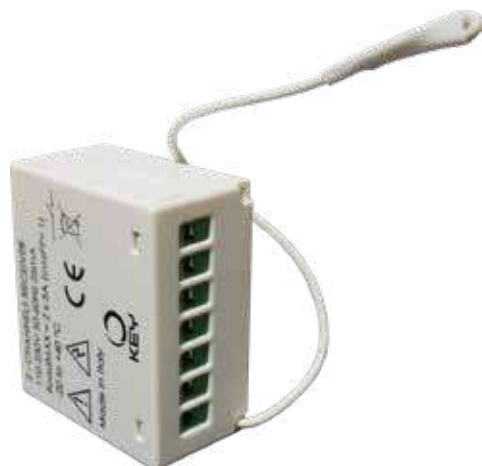
## MODELS

CODE	DESCRIPTION
CT202	For two motors for swing gate, 230 Vac, with electronic clutch and connector for receiver, slowdown in opening and closing. In box

		CT202
<b>ELECTRICAL DATA</b>		
input power	Vac/Hz	230/50
output power accessories	Vac	24
	Vdc	24
max motor power	W	700+700
max working time	sec	adjustable
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

# RX2H/TX2B

2-CHANNEL MINIATURIZED RECEIVER / RECESSED TRANSMITTER 2 CHANNELS



RX2H



TX2B

## PLUS

### RX2H

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

Possibility to combine with wired control points for lighting

Maximum flexibility in the single control of two outputs with different modes: mono-stable, bi-stable, temporized (RX2L), motor control

### TX2B

Recessed transmitter 2 channels

Lithium battery CR2032

Suitable for the main flush mounting boxes

## MODELS

CODE	DESCRIPTION
RX2H	2-channel miniaturized receiver for radio and wired control of motors for awnings and shutters and lights
TX2B	Recessed transmitter 2 channels

\* The estimated range has to be considered as purely indicative, since the reception is susceptible to interference due to other nearby devices operating at the same frequency as well as to the nature and disposition of any obstacles interposed between transmitter and receiver

		RX2H	TX2B
<b>ELECTRICAL DATA</b>			
reception frequency	MHz	433,92	433,92
power RX2H	Vac	230	-
power TX2B		-	CR2032
range	m	20 (indoor use) 150 (outdoor use)*	-
relay contacts max supply	A	5 (Cos φ=1) resistive load	-
relay contacts max voltage	W	1100	-
transmission power	dBm	-	+5
<b>GENERIC DATA</b>			
protection degree	IP	20	20
dimensions (L - D - H)	mm	42 - 21 - 36	42 - 21 - 36
operating temperature	°C	-20 + 55	-20 + 55

# CT-400

400 Vac CONTROL UNIT



## PLUS

- For industrial motors
- Suitable for intensive and long-lasting use
- Compatible with receivers RXM23K, RXM-44R
- Electronic obstacle detection with amperometric control
- Equipped with internal brake and with function for external brake activation
- Closing after transit function
- Separate OPEN - STOP - CLOSE - PP - PARTIAL inputs
- Programmable safety edge parameter
- Open gate indicator output
- Photo test function
- Compatible both with monophasic 230V or three-phase 400V/230V motors

## MODELS

CODE	DESCRIPTION
CT-400	For one motor for sliding gate or industrial sectional door 400 Vac / 230 Vac motor and electronic clutch. In box

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



## ACCESSORIES

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**RX4K**  
4 channels plug-in receiver

PZ. 1



**RXM23K**  
Universal receiver 2 channels, fix or rolling code, 1000 codes

PZ. 1



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

PZ. 1



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

PZ. 1



**BMET**  
Outdoor metal box for motor release

PZ. 1



**TS**  
Table signage

PZ. 1

## ACCESSORIES FOR 24 Vdc

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**KBP**  
Battery back-up kit

PZ. 1



**KITFIXBATT**  
Fixing brackets for batteries

PZ. 1

# PROGRAMMABLE FUNCTIONS

	24 Vdc			230 Vac			400 Vac
motors number/light	1	2		1	2		1
14A	•	•	•				
CT10234	•						
CT20234		•					
CT102B				•			
CT202					•		
RX2M/RX2L				•		•	
CT1RS				•			
CT-400							•
GARDEN BOX			•				

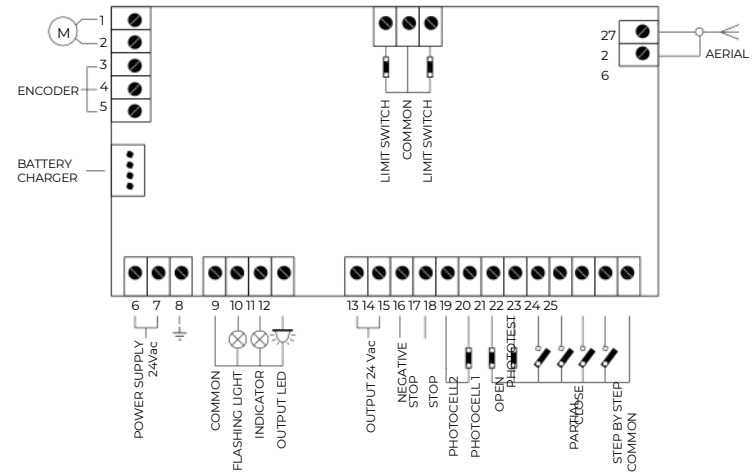
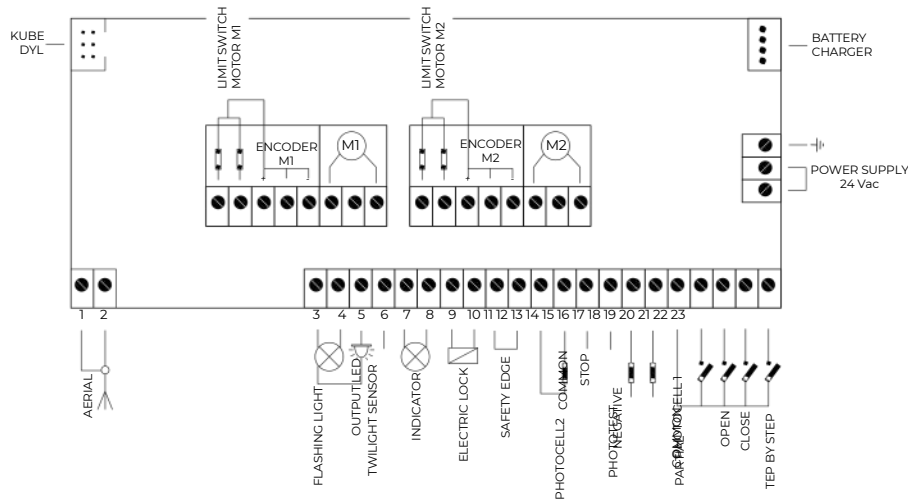
	CT10324	HALO	14A	CT20324	CT1RS	CT102B	CT202	CT400	CT401
motors number	1		2		1	2		1	
motor power	24 Vdc			230 Vac			400 Vac		
hold to run	•		•	•	•	•	•	•	•
semi-automatic functioning	•	•	•	•	•	•	•	•	•
automatic functioning	•	•	•	•	•	•	•	•	•
condominium function (only open)	•	•	•	•	•	•	•	•	•
pre-flashing	•	•	•	•		•	•	•	•
photo during opening	•	•	•	•		•	•	•	•
soft start	•	•	•	•		•	•		
soft stop	•	•	•	•					
courtesy light	•	•	•	•		•	•		
open gate light with proportional flashing light	•		•	•		•	•	•	•

	CT10324	HALO	14A	CT20324	CT1RS	CT102B	CT202	CT400	CT401
motors number	1		2		1	2		1	
motor power	24 Vdc			230 Vac			400 Vac		
slowdown function	•	•	•	•		•			
water hammering			•	•			•		
electric limit switch exclusion	•		•		•				
temporary pause in opening	•	•	•	•		•	•		
step by step function (open-stop-close-stop)	•	•	•	•	•	•	•	•	•
separate open and close	•		•	•	•	•	•	•	•
pause time with presence detector	•	•	•	•	•	•	•	•	•
1st motor delay during opening			•	•			•		
brake						•	•	•	•
cycles counter	•	•	•	•		•	•		
display	•	•	•	•		•	•		
encoder	•	•	•						
close after passage	•	•	•	•		•	•	•	•
partial opening	•	•	•	•	•	•	•	•	•
electro-lock	•		•	•			•		
energy saving	•		•	•					
black-out settings	•	•	•	•		•	•		
safety edge connection	•	•	•	•		•	•	•	•
obstacle detection	•	•	•	•		•	•	•	•
solar power supply	•		•	•					

# CONTROL UNITS ELECTRIC DIAGRAMS

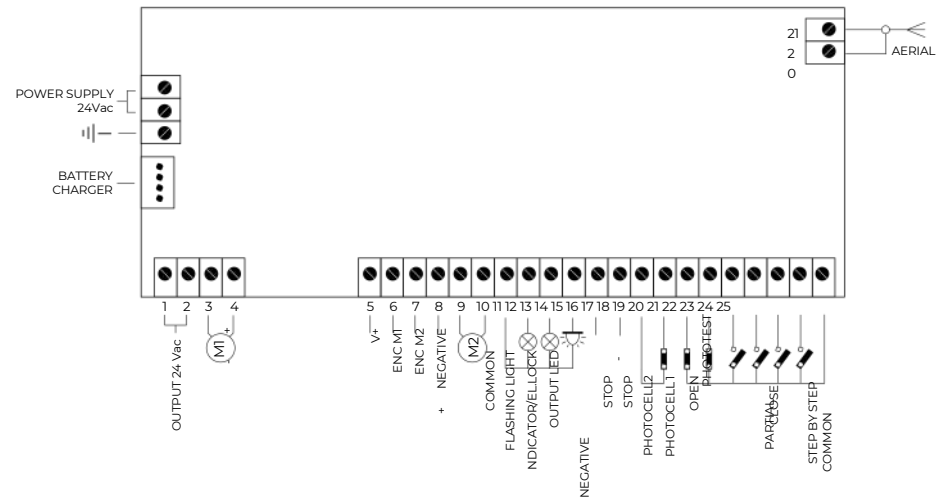
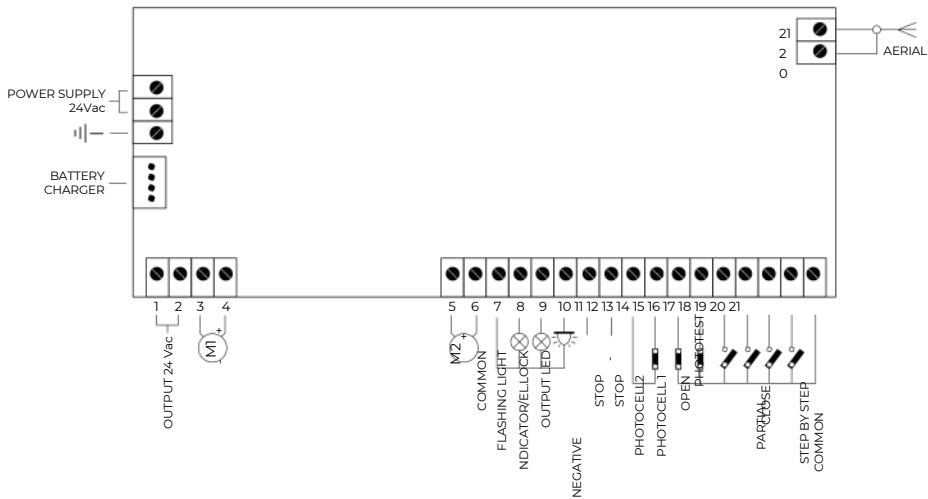
14A

CT10324



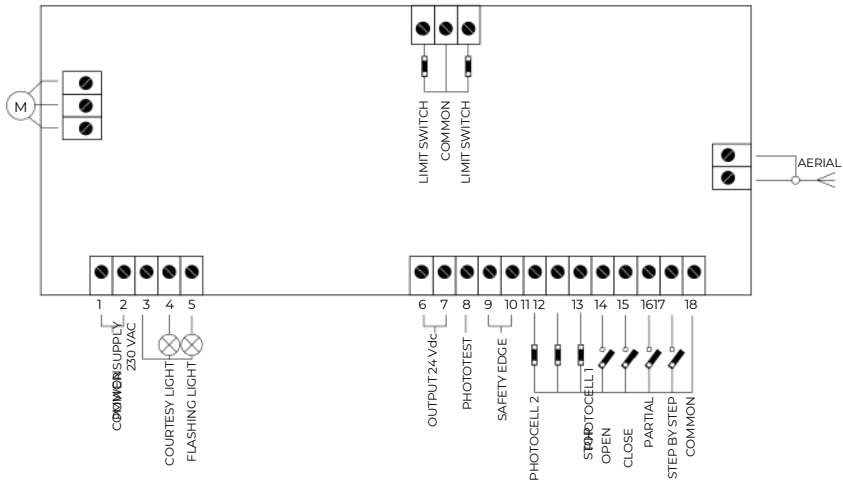
CT20324

CT20324E

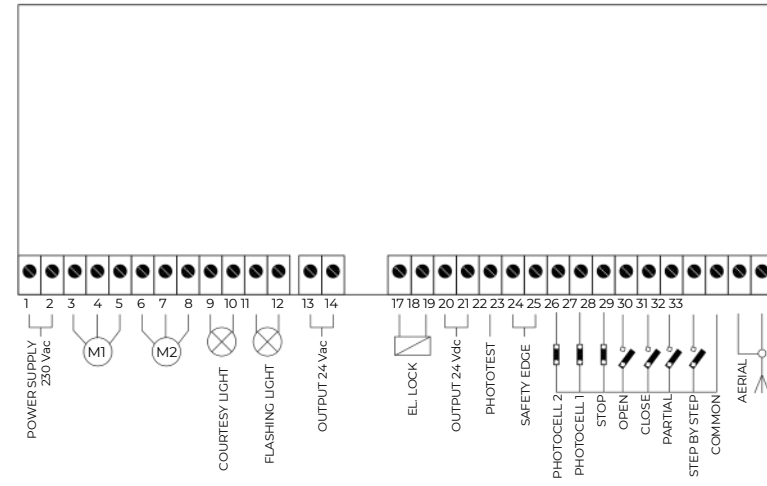


# CONTROL UNITS ELECTRIC DIAGRAMS

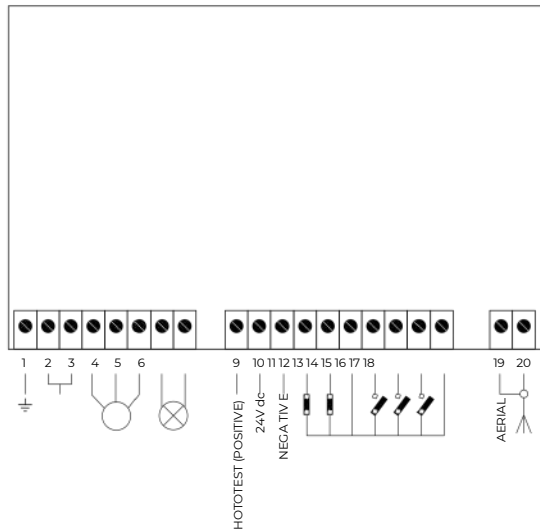
## CT102B



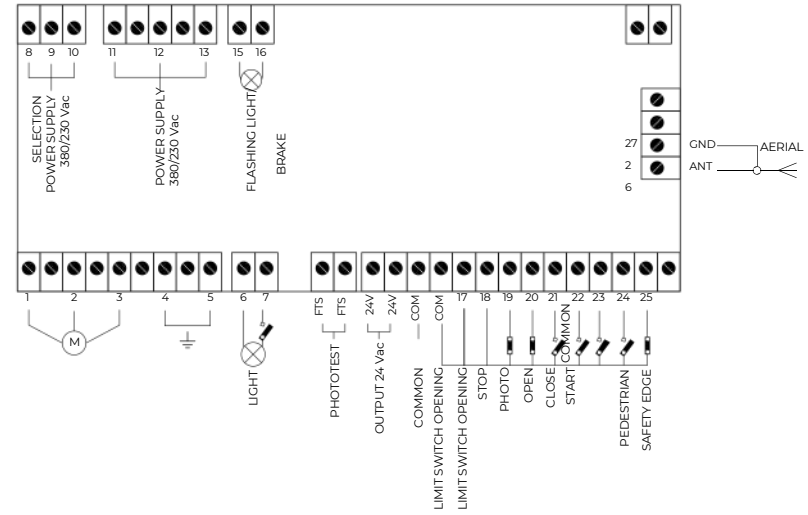
## CT202



## CT1RS

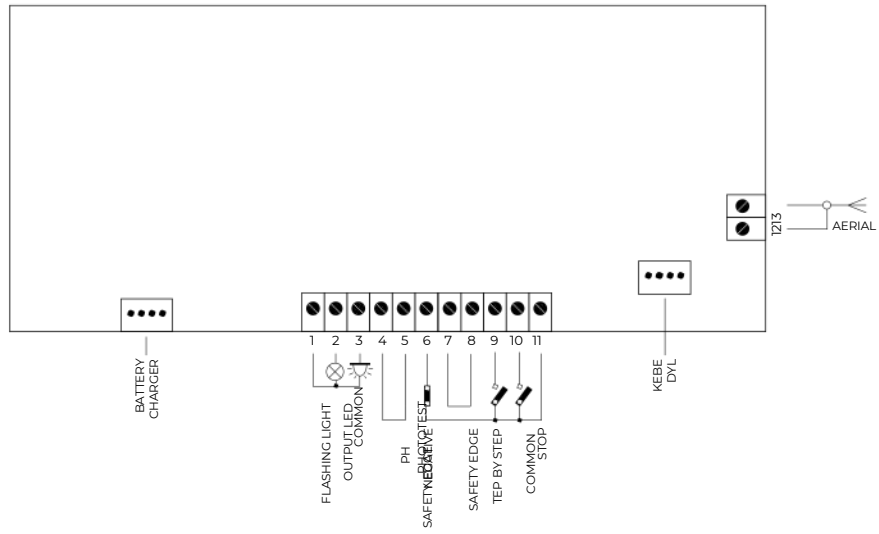


## CT-400



# CONTROL UNITS ELECTRIC DIAGRAMS

## HALO



# ALPHABETICAL LIST

CODE	P.	CODE	P.	CODE	P.	CODE	P.	CODE	P.
14AB2	112	BOX250	112	EG1	108	FT33	105	KPLAY4R	9
14AB2F	112	BOXKEY	121	EG2	108	FT43	105	KRAY4224KS	8
520STAF029A00	65	BOXKEYS	121	EG3	108	FT43B	105	KRAY2524EK	2
550CABL045A00	65	BS-50	68	EG50	108	GIUN	110	KRAY2524KK	7
AD	90	BS52	68	EG100	108	HA8	64	KRAY3024FEK	2
ADFB	23	BS5324	68	EG50L	108	HA12	64	KRAY3024FKK	6
ADRB	23	CF3	45	EG100L	108	HA12PP	66	KRAY4024EK	2
ADUN	45	CF3SB CI3	45	EG100A	108	HA12SS	66	KRAY4024KK	6
ADWA	23	COMB12	45	EG100LA	108	HA8PP	66	KRAY4024R	2
ALT33F	88	COMB18	110	EGKD2	107	HA8SS	66	KRAY42ES	6
ALT43	88	COMRX	110	EGKD3	107	HAL1S	65	KRAY42KS	2
ALT63	88	COMSC16	111	EGKD4	107	HAL2	65	KRAY4224ES	5
ANG	110	COMSC20	110	EGKTB1	107	HAL3	65	KRAY4224KS	2
ANTS-433	104	COMSC25	110	EGKTB2	107	HAL4	65	KREP2024EK	6
APFX	90	COMTX	110	EGKTR1	107	HAL5	65	KREP2024KK	2
APM	90	CP-BR CP-	111	EGKTR2	107	HAL6	65	KREP2324ES	6
AS-SNO3	90	BR6	90	EGS101 - EGS201	107	HAL7	65	KREP2324KS	2
AST3F	90	CREM-8	90	EGS102 - EGS202	107	ILSUB	97	KRING	7
ASTL4	90	CREM-12	51	EGS103 - EGS203	107	KBP	121	KTU4324ES	2
ASTL4J	90	CREM-30	51	EGS104 - EGS204	107	KBPN	33	KTU4324KS	7
ASTL5	90	CT10324	83	EGS105 - EGS205	107	KBS52PS	70	KSC52ES	2
ASTL6	90	CT102B	114	EGS106 - EGS206	107	KBS5324PS	70	KSC52KS	7
ASTL6J	90	CT1RS	116	EGS107 - EGS207	107	KC	23	KSC82ES	2
ASTL8	90	CT202	117	EGS108 - EGS208	107	KCOMW	111	KSC82KS	7
BAT-3	105	CT20324	118	EGS109 - EGS209	107	KCS	51	KSN5024B	2
BC	69	CT20324E	115	EGS110 - EGS210	107	KFE	41	KSN50B	7
BD	69	CT-400	115	ELS-C	23	KITFIXBATT	23	KSN52ES	3
BDBOC	41	CTLIGHT2	120	EXRB	23	KLIGHT4	90	KSN52KS	8
BDNS	69	DYL	108	FC-PS	77	KLIGHT6	90	KSTAR3324ES	3
BMET	127	ECLIPSE	113	FCRAY	23	KLIGHT8	90	KSTAR3324KS	8
BOC	69		103	FT23	105	KPLAY4F	98	KSUB44BR	3
									9
									3
									9
									9
									7

# ALPHABETICAL LIST

CODE	P.	CODE	P.	CODE	P.	CODE	P.	CODE	P.
KSUB44OR	9	LOOP2	90	REP2024S	34	STAF032A00	23	TZ-1500	6
KSUB44PR	7	LUMY-230	104	REP2324	36	STAF089A00	102	TZ-2000	9
KSUB44YR	9	LUMY-230E	104	REP2224S	36	STANAV	77	UND	6
KSUB44MR	7	LUMY-24	104	REV3	35	STAR3024	30	UND10	9
KSUB44CR	9	MA24	112	RN800	51	STPOAVS	77	UND24	4
KSUB44GR	7	MUR-P	105	RX2H	119	SUB44F	96	UND24E	4
KSUB44WR	9	OP100	45	RX4K	100	SUB44WF	96	UND24F	4
KSUB44-R	7	PF30W	102	RX8	100	SUB44N	96	VIP1	4
KSUN11024EK	9	PO24	112	RXM23K	101	SUB44R	96		4
KSUN11024KK	7	PROFT	90	RXM28	101	SUB44WN	96		4
KSUN4024EK	9	PROFT6	90	RXM-44R	101	SUB44WR	96		4
KSUN4024KK	7	PROFT8	90	RUEL004A00	83	SUB84WR	96		4
KSUN4024TW	9	PS400-24FA	76	SB3	45	SULU	104		4
KSUN4324ES	7	PS-400FA	76	SBCO	65	SUN11024	50		4
KSUN4324KS	9	QUADRO	66	SBLEXT	41	SUN11224M	52		6
KSUN5024FEK	7	RAB31	64	SBLST	65	SUN4024	50		6
KSUN5024FKK	5	RAB3X1P	64	SC162	80	SUN4324	50		
KSUN7024EK	5	RAB41	64	SC202MHD	82	SUN5024F	50		
KSUN7024KK	5	RAB61	64	SC252M	82	SUN7024	50		
KSUN7324ES	5	RAL31	64	SC400M	84	SUN7324	52		
KSUN7324KS	5	RAL41	64	SC4434	56	SUPP022A00	107		
KTU7224ES	4	RAY2224	24	SC52	56	TAG	121		
KTU7224KS	5	RAY2524	22	SC82	56	TAP	110		
KUBE	4	RAY2524E	22	SC-EF	83	TO1M	99		
KUBEPRO	5	RAY3024F	22	SKIRT2	90	TO1U	99		
KUND2ES	5	RAY40	24	SN50DX	40	TO2M	99		
KUND2KS	5	RAY4024E	22	SN50SX	40	TO2MP	99		
KUND3024EK	5	RAY4224E	24	SN5024DX	40	TS	121		
KUND3024KK	5	REV1	35	SN5024SX	40	TU7324	56		
KVIPLDFW	5	REV2	35	SOLEAU	102	TWIN	51		
LEVA008A00	5	REP2024	34	ST2000	69	TX2B	119		
	4								
	5								
	4								
	5								
	4								

# GENERAL TERMS AND CONDITIONS OF SALE

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## **1. GENERAL PROVISIONS: SCOPE - EFFECTIVENESS OF GENERAL TERMS AND CONDITIONS OF SALE**

These General Terms and Conditions of Sale replace the previous ones and apply to all contracts relating to Key Automation S.r.l. branded products, entered into by Key Automation S.r.l. (hereinafter: Key Automation, with registered office in San Donà di Piave (VE), via Meucci No. 23, Tax Code VAT IT03627650264 - Bus. Reg. VE326953) directly with its professional Customers (wholesalers, distributors, retailers, installers, professional management customers) (hereinafter: Customer). These General Terms and Conditions of Sale do not have any effect on third parties, including end purchasers of the products. Each of the aforementioned contracts relating to Key Automation S.r.l. branded products, concluded by Key Automation directly with its professional Customers indicated above, is therefore governed by these General Terms and Conditions of Sale, which are an integral part of the contracts themselves and replace and invalidate any conflicting clause or particular agreement contained in the order or other document from the Customer. These General Terms and Conditions of Sale take effect when they become known to the Customer by means of publication on Key Automation's corporate website <https://keyautomation.com/it/pages/terms-of-sales> or by other suitable means. Information contained in the catalogues such as descriptions, pictures, table values or other information is for illustrative purposes only and may be modified by Key Automation at any time.

## **2. ORDERS - CANCELLATION TERMS**

All orders are "subject to availability and price list changes". Key Automation reserves the right to accept or reject, in whole or in part, Customer orders based on their compliance or non-compliance with these general conditions and the availability of the requested products. Key Automation reserves the right to make technical changes to the products on its price list at any time, without this giving rise to any claims on the part of the Customer. Orders cannot be cancelled in whole or in part by the Customer after 10 (ten) days from their submission to Key Automation. In the event of cancellation after this deadline, Key Automation shall be entitled to full compensation.

## **3. PRICING**

Products are sold by Key Automation to the Customer at current Key Automation list prices at the time of delivery. Key Automation reserves the right to change its prices in the event that during the supply there are changes in costs not attributable to it. The Customer undertakes to accept without reservation any price list variations occurring between the order and delivery of the product. Key Automation list prices are always ex-works, excluding VAT, packaging included.

## **4. TERMS OF DELIVERY**

All products are delivered ex works, Key Automation S.r.l., via Meucci n. 23, 30027 San Donà di Piave (Venice). Unless otherwise agreed upon in writing, delivery time is 10 (ten) days for domestic deliveries and 30 (thirty) days for international deliveries, except for products listed with a clock, for which the delivery time is within 6 (six) weeks. The delivery period commences with the Customer's acceptance of the Key Automation order confirmation. Any delay not exceeding the tolerances of use shall not entitle the Customer to request termination, even partial, of the contract, to refuse delivery of the products, or to claim damages. Any obligation to deliver goods is fulfilled by delivery to the carrier. Key Automation shall not be liable for delivery of goods in all cases of unforeseeable circumstances or force majeure, strikes, socio-political unrest or unavailability of raw materials, electronic components or other unavailability of products, erroneous reporting, errors or delays in reporting by the customer in the sending of information required to execute an order, non-compliance with payment conditions by the customer, changes accepted by Key Automation following receipt of an order, or in any other cases when events occur that prevent the delivery of goods through no fault of Key Automation.

## **5. SHIPPING**

Shipments shall be effected by means of a courier contracted with Key Automation, who will automatically charge the corresponding invoice amount. At the time the order is placed, the Customer shall be able to agree with Key Automation on the use of an alternative courier, which shall always be at the Customer's expense, or on the direct collection of the goods, ex works Key Automation S.r.l., via Meucci No. 23, 30027 San Donà di Piave (Venice). Goods shall always be transported at the Customer's own risk. Any theft, loss, deterioration, or shortfall of goods shall not exempt the Customer from the obligation to settle payment of the cost, if the goods have been duly delivered on departure from the Key Automation factory to the carrier. Goods are not covered by an insurance policy, unless expressly requested by the Customer and at their own expense and risk

## **6. WITHDRAWAL OF PRODUCTS**

The Customer undertakes to collect goods when they are made available to them, as soon as they have been notified by telephone or in writing (including by e-mail). In the event of a delay, Key Automation shall be entitled – in addition to full payment of the price – to reimbursement of the costs of storage or storage and custody of uncollected or delayed goods, whether at Key Automation's warehouses or at those of carriers, or others.



# GENERAL TERMS AND CONDITIONS OF SALE

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## **7. WARRANTY / RECOURSE AND RELATED DURATION – CASES OF EXCLUSION OF WARRANTY**

Key Automation's warranty commences from the date of manufacture affixed to each Key Automation branded product and is valid for 30 (thirty) months. This period of warranty is in all cases to be regarded as irrevocable and binding. The Customer may therefore exercise their right of recourse against Key Automation within 30 (thirty) months from the date of manufacture affixed to Key Automation branded products. The Key Automation warranty – which in all cases requires the Customer to produce the product's purchase receipt issued by Key Automation – is exclusively limited to repair or replacement, free of charge, of parts acknowledged by Key Automation to be defective due to a lack of basic material quality or poor workmanship. The Customer is obliged to report any apparent defects within 8 (eight) days of receipt, and any hidden defects within 8 (eight) days of their discovery, under penalty of forfeiture. Claims may never give rise to the cancellation or reduction in orders on the part of the Customer, nor to the payment of compensation and/or damages of any kind by Key Automation, except in the event of gross negligence or wilful misconduct on the part of the latter. Disputed goods must be returned free of charge to the address at Key Automation S.r.l. (30027 San Donà di Piave (VE), via Meucci No. 23). The Key Automation warranty is void if parts returned as defective have been tampered with or repaired in any way. For items whose period of warranty has expired, or out of warranty, Key Automation undertakes to repair the items against charge of the repair costs. In the event of equipment that cannot be fully or partially repaired, Key Automation shall return it in the state in which it was delivered, or, at the Customer's explicit request, shall repair it by replacing the parts that cannot be repaired, charging the Customer for the cost of the parts delivered. Key Automation accepts no liability for flaws or defects resulting from unforeseeable circumstances or force majeure, in respect of which the warranty shall not apply. Furthermore, Key Automation accepts no liability in the event of connection, association or interaction of its products with other products that are not supplied by Key Automation. Key Automation products must only be used in conjunction with Key Automation products; failure to do so shall invalidate the warranty referred to in this article. Key Automation also accepts no liability, and no warranty shall be recognised, in the event of failure to comply with the assembly and electrical connection instructions, or with electrical regulations or other specific current standards at the time of installation, as well as in the event that Key Automation electrical or mechanical accessories and components have been installed, used or connected without complying with the diagrams and types of connections for which they were designed, or if Key Automation products have been installed by unqualified personnel lacking the necessary technical skills or legal requirements for a professional installation. Similarly, Key Automation accepts no liability and the warranty shall be void in the event of use or application of products for purposes that are not commensurate with the nature, capacity or scope of the products themselves.

## **8. CLAIMS AND RETURNS**

Before sending any items to Key Automation, the Customer shall submit a request on [www.keyautomation.com](http://www.keyautomation.com) by accessing the menu Support > Return merchandise portal, and wait for a return approval and the assignment of an identification number; if the Customer does not have an account, they must create one by clicking on "Register" and providing all the required information. Registration implies acceptance of the proposed conditions in their entirety (to be found in the Return Policy on the same portal).

## **9. TERMINATION CLAUSE**

Failure to settle the terms of payment of the price or even only one of the instalments on the agreed due dates and within the terms set forth on the invoice, in addition to forfeiting the Customer's right to the benefit of the term, shall result in Key Automation accruing default interest at the rate envisaged for commercial transactions pursuant to Legislative Decree No. 231/2002, as amended. The sale may also be terminated with full rights at any time by simple written notification from Key Automation to the Customer that this clause has been invoked, and with no requirement for any legal formalities. Goods delivered and not paid for must be returned to Key Automation at the Customer's expense. To this end, Key Automation and commissioned third-party hauliers are authorised to terminate and collect the outstanding goods from Customers' premises. Unless agreed upon in writing, no compensation shall be allowed between any credit owed by the Customer to Key Automation or any debt owed by the Customer for any reason whatsoever.

## **10. TRADEMARKS AND DISTINGUISHING MARKS**

The customer acknowledges that Key Automation products constitute know-how and design and are the exclusive property of Key Automation S.r.l. The Customer is expressly forbidden from infringing upon such rights of Key Automation, and in all cases from removing, obliterating or in any way altering trademarks or other distinguishing marks or abbreviations of any kind affixed to products, as well as affixing new ones of any nature. Unless authorised in writing by Key Automation, any form of reproduction or use of the Key Automation trademark or any other distinguishing marks on products is prohibited.

# GENERAL TERMS AND CONDITIONS OF SALE

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## **11. RETENTION OF TITLE**

Key Automation retains title to goods sold until full payment is made. Until the price for capital and accessories has therefore been paid in full, the goods delivered, wherever they may be located and even if they have already been resold by the Customer, shall remain the full and exclusive property of Key Automation. Cheques, bills of exchange and sales of receivables shall not be considered as payments until they are actually cashed. In the event of non-payment, Key Automation may take immediate possession of sold products wherever they are located. The Customer is obliged to disclose the names of third-party purchasers of the products from whom Key Automation shall have the right to claim and collect them.

## **12. APPLICABLE LAW – JURISDICTION**

Contracts entered into on the basis of these General Terms and Conditions of Sale are governed by, and shall be construed exclusively, in accordance with Italian law. All disputes arising in connection with the effectiveness, validity, termination, execution, interpretation of these General Terms and Conditions of Sale and of the contracts entered into on the basis hereof shall be subject to Italian jurisdiction and attributed exclusively to the Court of Venice, with the exclusion of any other alternative or competing Courts.

## **13. MISCELLANEOUS**

Key Automation shall not recognise, nor shall it consider itself bound by, any conditions of sale other than those set out in the preceding sections, unless they have been accepted in writing. The laws of the Italian state apply to sales made in EU and non-EU countries. All data is carefully compiled and checked. We do not, however, accept any liability for any errors or omissions.

## **14. PRIVACY – INFORMATION PURSUANT TO ART. 13 EU REGULATION 2016/679**

We use data regarding the Customer for our own administrative and accounting purposes, including by means of external associates. Detailed information, including information on your right of access and other rights, can be found on <https://keyautomation.com/it/pages/privacy>.





ISO9001

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