



KEY
AUTOMATION

GATES AND DOORS AUTOMATION 2023

www.keyautomation.com



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

KEY
AUTOMATION

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

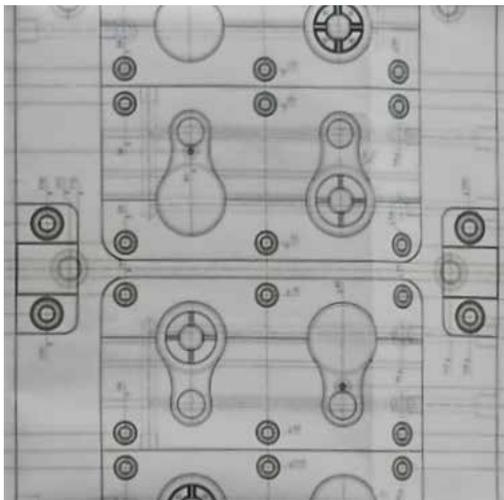
The new LEVANTE automatic door is introduced in the market. This revolutionary product is designed to have the most compact profile, combining a record capacity up to 160 kg or 120+120 kg



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

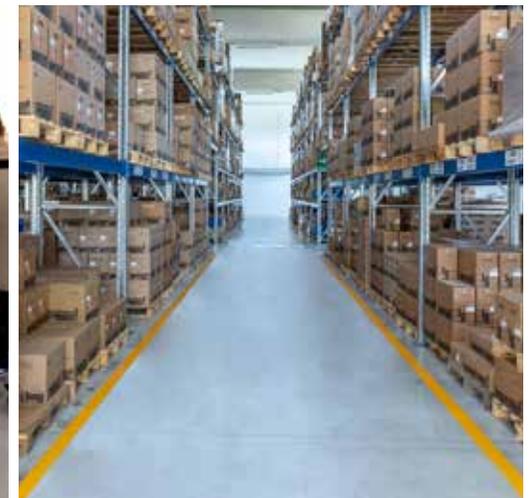
To maintain consistency over time, we have invested in research and development, internalising all the know-how required for product development, from mechanics to electronics, IoT software and design

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

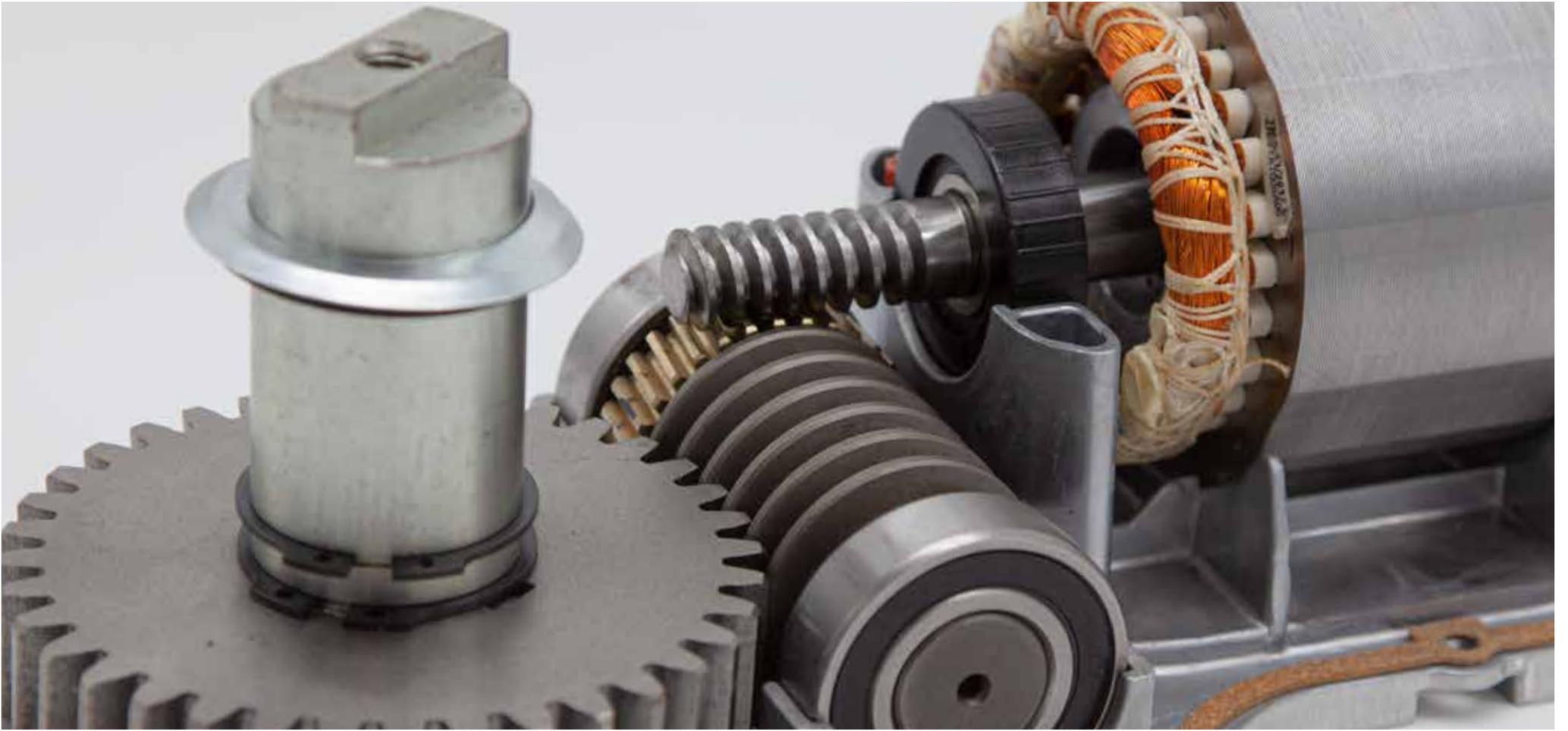
Our products are made with the highest quality materials

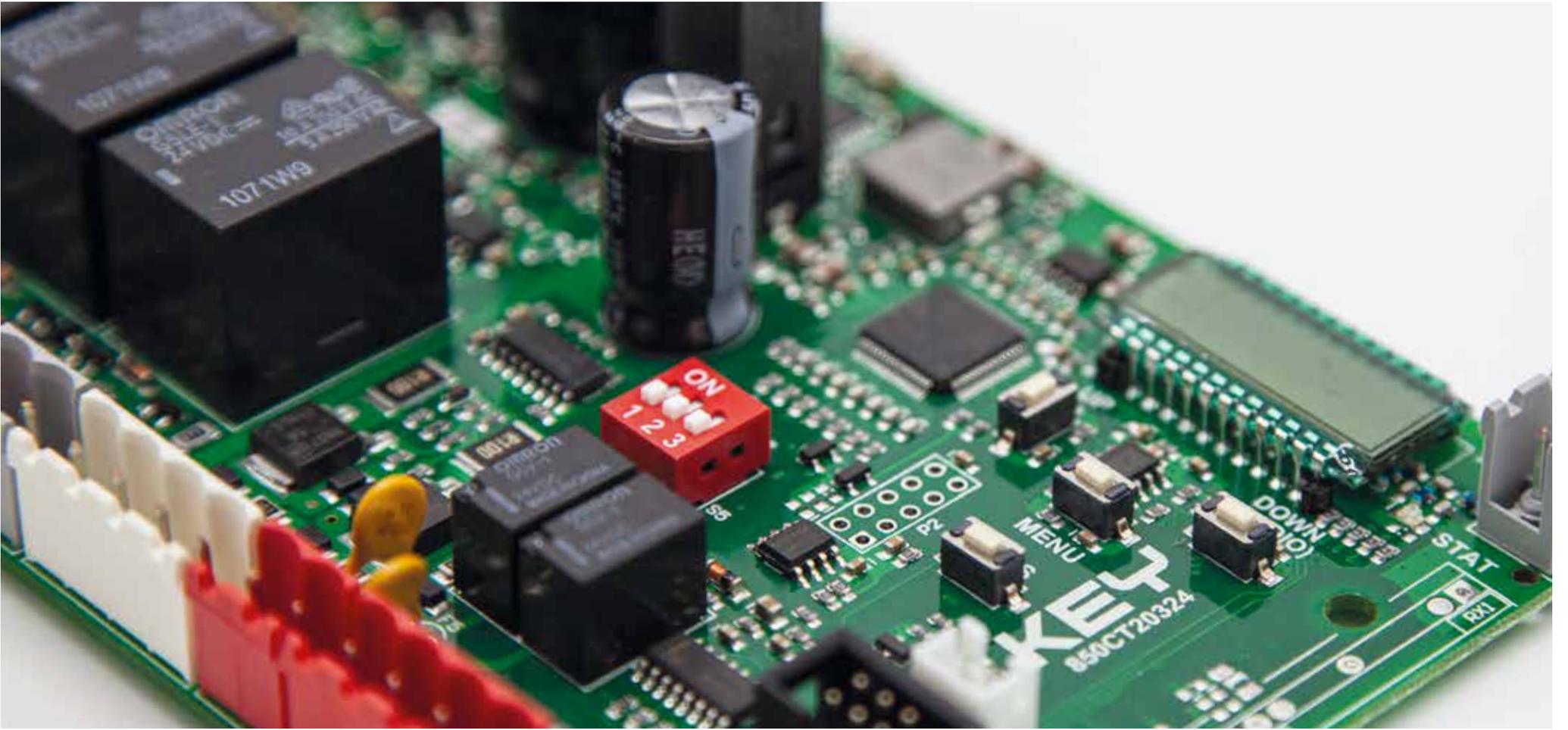
For demanding or heavy-duty applications, we only use steel and bronze billet gears, oversized electric motors, ball bearings and high-performance lubricants

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

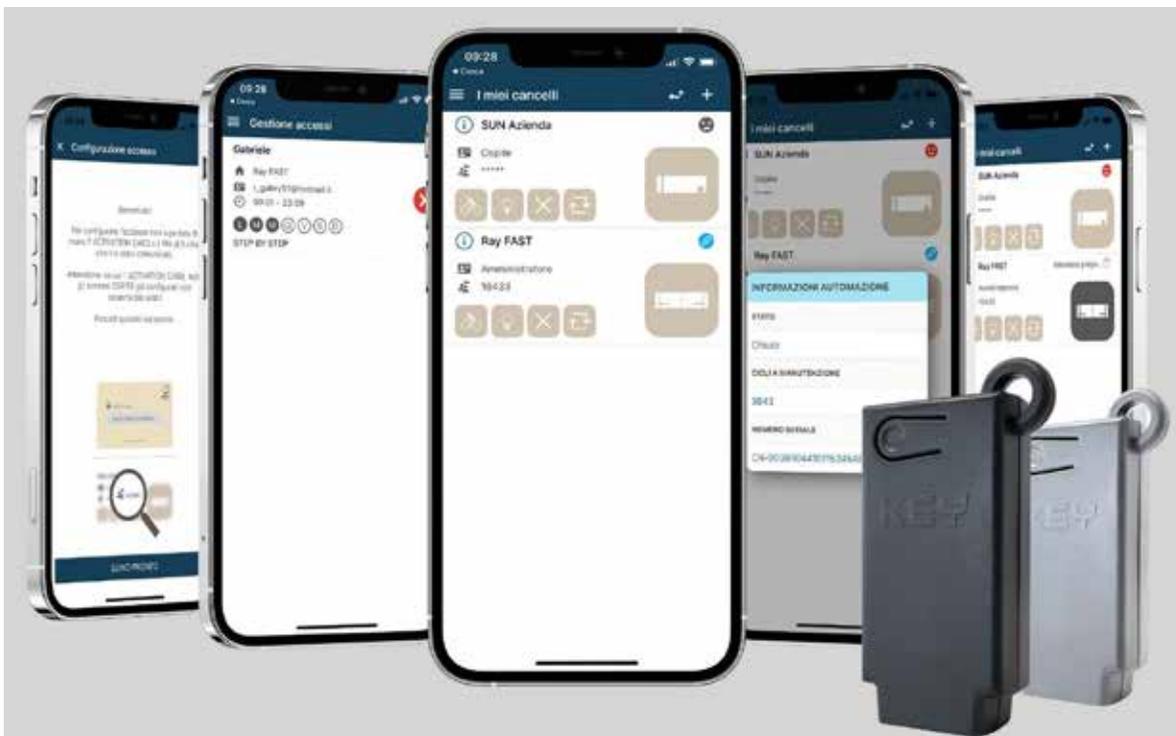




14A

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



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

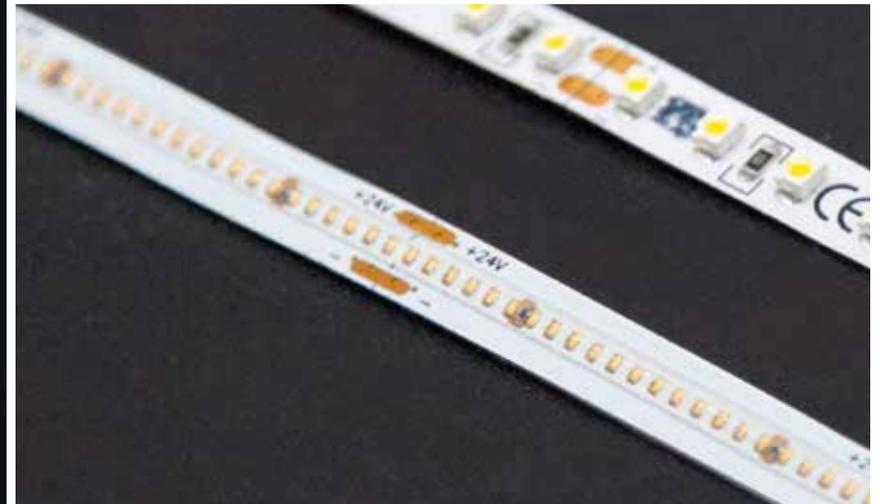
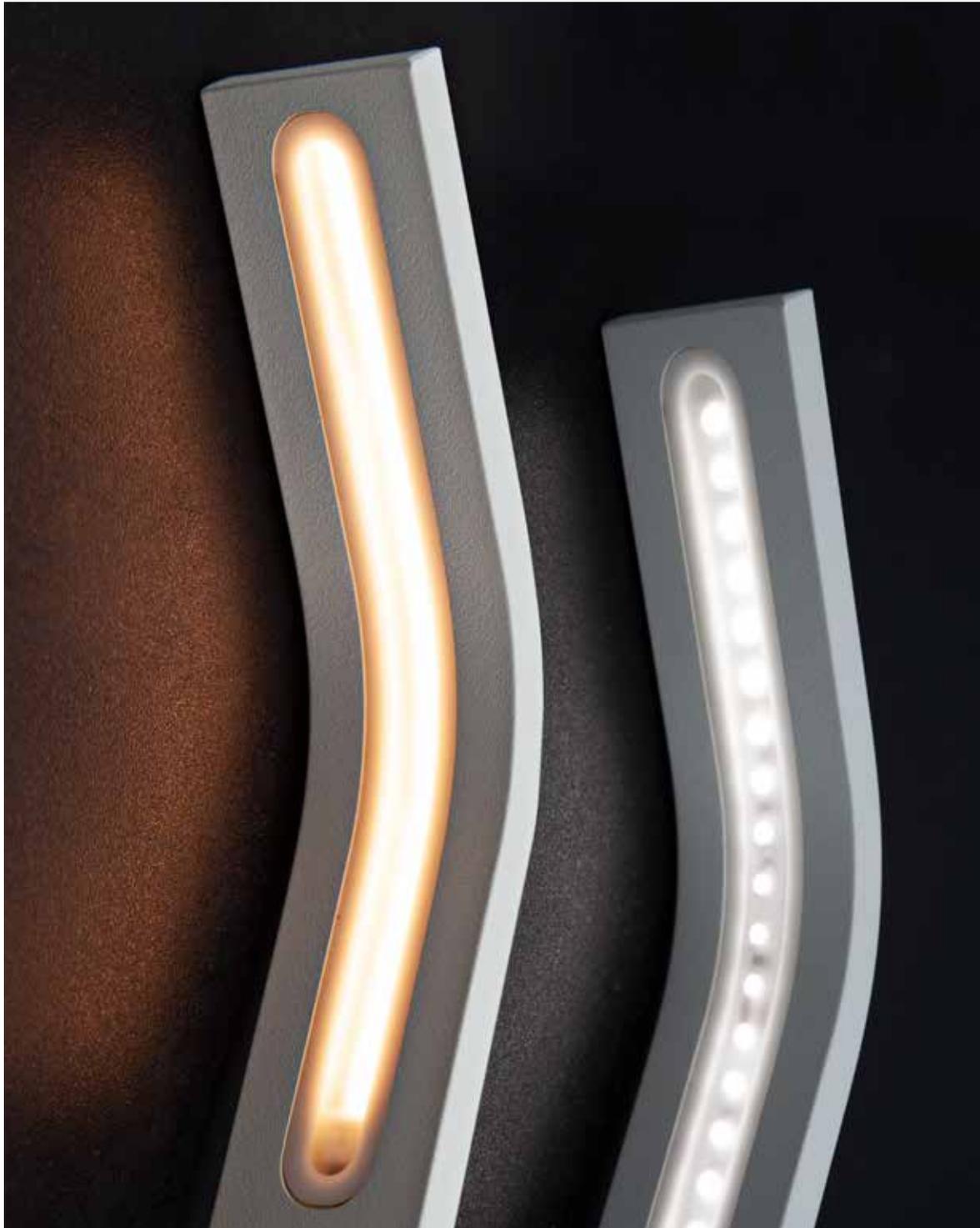
LED strips with a Colour Rendering Index (CRI) >90 ensure faithful colour reproduction even outdoors in addition to a high levels of illumination

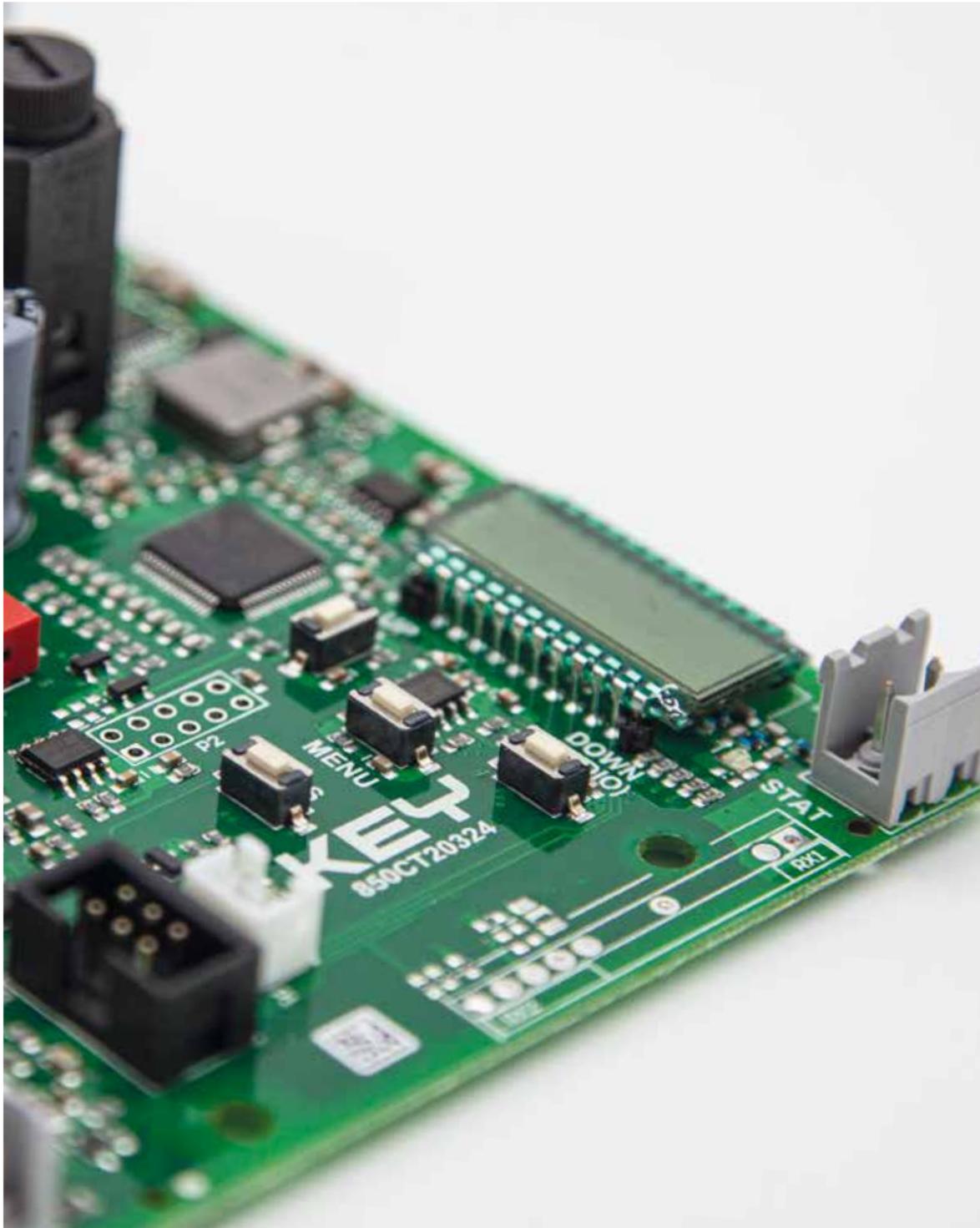
COMPATIBILITY

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

| | |
|--|----|
| SYSTEMS FOR SWING GATES | 20 |
| SYSTEMS FOR SLIDING GATES | 48 |
| SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS | 60 |

KEY INDUSTRY INDUSTRIAL AND COMMERCIAL SOLUTIONS

| | |
|---------------------------|----|
| SYSTEMS FOR SWING GATES | 74 |
| SYSTEMS FOR SLIDING GATES | 78 |
| ROAD BARRIERS | 86 |

KEY ACCESSORIES ACCESSORIES

| | |
|-------------------|-----|
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| ELECTRIC DIAGRAMS | 124 |
| ALPHABETICAL LIST | 126 |



KEY HOME HOME SOLUTIONS

SYSTEMS FOR SWING GATES

| | |
|-----------|-----------|
| | 20 |
| 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

| | |
|-----------|-----------|
| | 48 |
| SUN | 50 |
| SUN KIT | 54 |
| TURBO | 56 |
| TURBO KIT | 58 |

SYSTEMS FOR SECTIONAL AND OVERHEAD DOORS

| | |
|------------|-----------|
| | 60 |
| 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

RAY4024E
RAY4224E

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



NEW LED

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

MODELS

| CODE | DESCRIPTION | PCS PALLET |
|------------------|---|------------|
| RAY2524 | For swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor | 25 |
| RAY2524E | For swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor, with encoder | 25 |
| RAY4024E | For swing gates with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor, with encoder | 25 |
| KRAY4024R | 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 |
| RAY3024F | For swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor, with encoder | 5 |



Built-in LED light mask



Possibility to unlock motor with transmitter



Robust bronze lock nut on endless screw

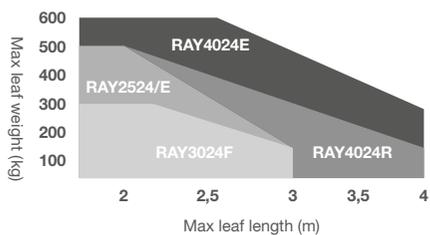


Metal gearing (RAY4024E, RAY4024R, RAY3024F)

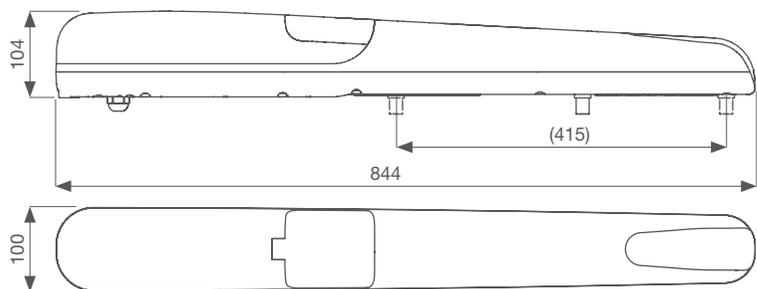
| | | RAY2524 | RAY2524E | RAY4024E | KRAY4024R | RAY3024F |
|------------------------|--------|-----------------|----------|----------|-----------|--|
| MECHANICAL DATA | | | | | | |
| speed | cm/s | 2,6 | 2,6 | 1,5 | 3 | 3,8 |
| pulling force | N | 1500 | 1500 | 2000 | 1000 | 1000 |
| working cycle | % | 80 | 80 | 80 | 80 | 80 |
| opening time at 90° | sec | 18-25* | 18-25* | 20-25* | 20-25* | 10-15* |
| ELECTRICAL DATA | | | | | | |
| 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 |
| GENERIC DATA | | | | | | |
| 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

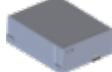
LIMIT USE



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

| | | | |
|---|---|--|---|
|  |  |  |  |
| ADFB Pair of adjustable front mounting brackets | ADRB Pair of adjustable rear mounting brackets | ADWA Adapter kit for competitors motors | FCRAY Mechanical stop in closing |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| ELS-C 12 V horizontal electric lock. Up to 2000 Kg | KBP Kit of 1.3 Ah lead battery and battery charger | KITFIXBATT Fixing brackets for batteries 24V | KC Unlock key cylinder |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| EXRB Extention bracket for outside opening | STAF032A00 Adapting rear bracket | 550CABL045A00 * Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm ² (100m) | 14AB2 Control unit in box for two 24 Vdc motors |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| 14AB2F Control unit in box for two 24 Vdc motors(only RAY3024F) | DYL Programming module Cable length 120 cm (only 14A board) | KUBEPRO Wireless programming module | KUBE 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 |
|----------|--|------------|
| RAY40 | For swing gates with maximum length 4 m or max weight 600 kg per leaf, 230 Vac motor | 25 |
| RAY2224 | For swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor | 25 |
| RAY4224E | 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

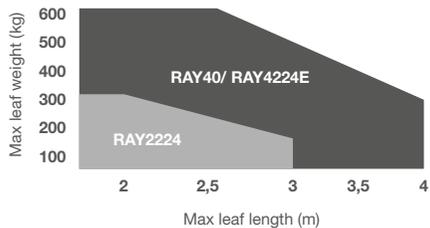


Metal gearing (RAY40, RAY4224E)

TECHNICAL DATA

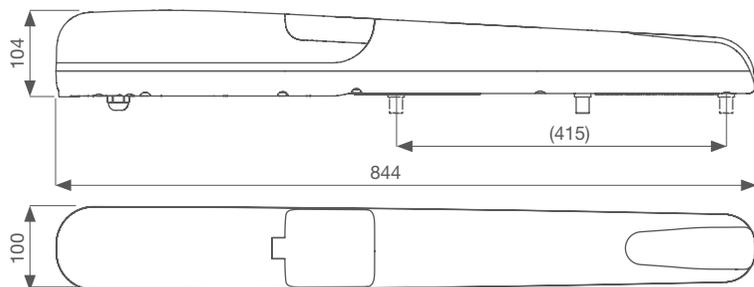
| | | RAY40 | RAY2224 | RAY4224E |
|--|--------|----------|-----------------|----------|
| MECHANICAL DATA | | | | |
| speed | cm/s | 1,6 | 2,6 | 1,5 |
| pulling force | N | 2000 | 1500 | 2000 |
| working cycle | % | 40 | 80 | 80 |
| opening time at 90° | sec | 20-25* | 18-25* | 20-25* |
| ELECTRICAL DATA | | | | |
| 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 | - | - |
| GENERIC DATA | | | | |
| 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 |
| <small>-with optimized fixing dimensions</small> | | | | |

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

| | | | |
|--|--|--|--|
| | | | |
| ADFB Pair of adjustable front mounting brackets | ADRB Pair of adjustable rear mounting brackets | ADWA Adapter kit for competitors motors | FCRAY Mechanical stop in closing |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
| | | | |
| ELS-C 12 V horizontal electric lock. Up to 2000 kg. | KBP Kit of 1.3 Ah lead battery and battery charger | KITFIXBATT Fixing brackets for batteries 24V | KC Unlock key cylinder |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
| | | | |
| EXRB Extention bracket for outside opening | STAF032A00 Adapting rear bracket | CT20324 Control unit 2 motors, 24 Vdc in box (only RAY2224) | CT20324E Control unit 2 motors, 24 Vdc in box (only RAY2224E) |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
| | | | |
| CT202 Control unit in box for two 230 Vac motors (only RAY40) | RX4K 4-channel plug-in receiver, 433MHz, for CT202 control unit | KUBEPRO Wireless module for programming | KUBE 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 |
|-------------|---|----------|------------|
| KRAY2524EK | 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 |
| KRAY2524KK | Kit for swing gates with leaves up to 3 m, 24 Vdc motor, control unit with slowdown and opening mechanic stop | 21 kg | 15 |
| KRAY4024EK | 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 |
| KRAY4024KK | 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 |
| KRAY3024FEK | 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 |
| KRAY3024FKK | 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 |
|--|---|------------|
|  STAR3024 | 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

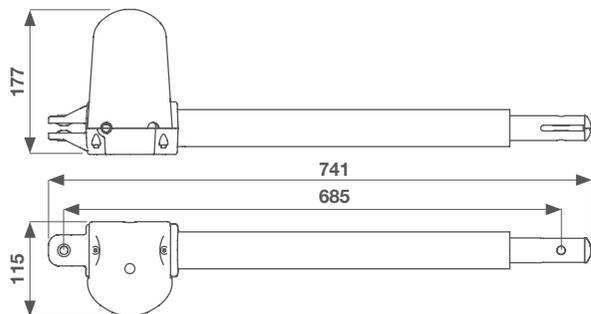
| | | STAR3024 |
|------------------------|--------|-----------------|
| MECHANICAL DATA | | |
| speed | cm/s | 2,5 |
| pulling force | N | 1400 |
| working cycle | % | 80 |
| opening time at 90° | sec | 18-25 |
| ELECTRICAL DATA | | |
| control board | | CT20324 |
| power | Vdc | 24 |
| consumption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

LIMIT USE

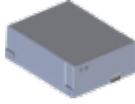


Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph

DIMENSIONS



ACCESSORI

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



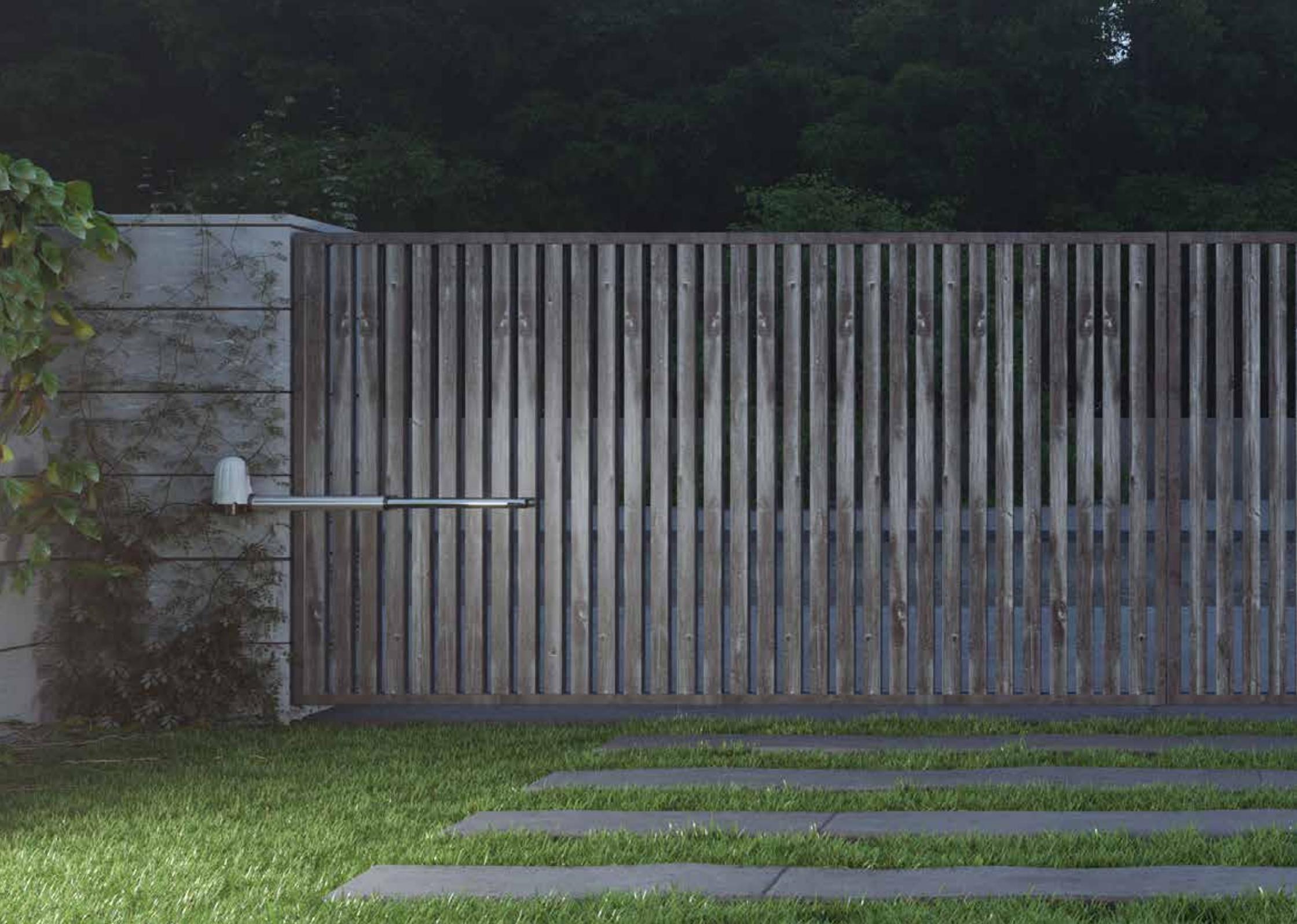
IoT collective network of connected devices and technologies which facilitates communication between devices via Bluetooth and Cloud

MODELS

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

KIT COMPONENTS

| | STAR | CT20324 NEW | LUMY NEW | RX4K | FT33/FT23 | SUB44WR | SUB44R |
|--------------------|-------------|--|---|-------------|------------------|----------------|---------------|
| KSTAR3324ES | • 2 PZ. | • | • | INTEGRATED | • FT33 | • 2 PZ. | |
| KSTAR3324KS | • 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 |
|----------|---|------------|
| REP2024 | For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor | 5 |
| REP2024S | 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)

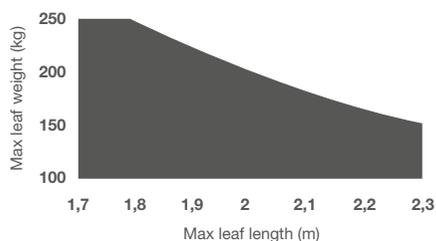


Simplified limit switch adjustment

TECHNICAL DATA

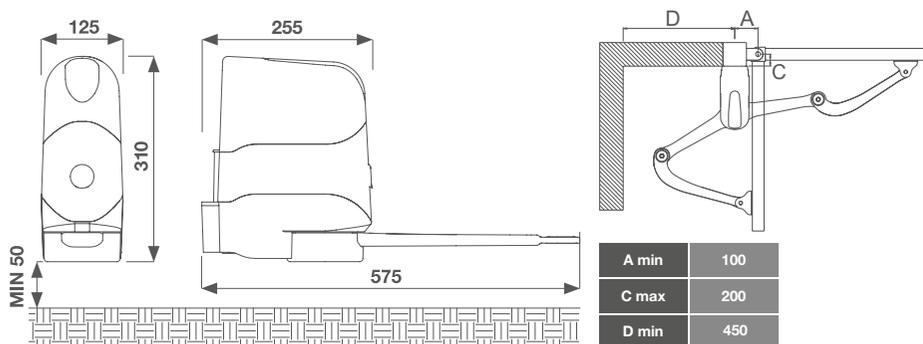
| | | REP2024 | REP2024S |
|------------------------|--------|-----------------|-----------------|
| MECHANICAL DATA | | | |
| torque | Nm | 120 | 120 |
| working cycle | % | 80 | 80 |
| opening time at 90° | sec | 14-20 | 14-20 |
| ELECTRICAL DATA | | | |
| control board | | 14A | - |
| power | Vac | 230 | - |
| | Vdc | - | 24 |
| consumption | A | 0,6 | 2 |
| absorbed power | W | 115 | 50 |
| integrated lights | | yes | yes |
| GENERIC DATA | | | |
| 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

| | | | |
|--|---|---|---|
|  ELS-C 12 V horizontal electric lock. Up to 2000 Kg |  KBPN Kit of 1,3 Ah lead battery and battery charger |  KC Unlock key cylinder |  REV1 Slide arm |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  REV2 Arm for reduced openings |  REV3 External release unlock kit |  BMET Metal box with release system |  550CABL045A00 * Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm ² (100m) |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  DYL Programming module Cable length 120 cm (only 14A board) |  KUBEPRO Wireless programming module |  KUBE Wireless controlling module for end user | |
| 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

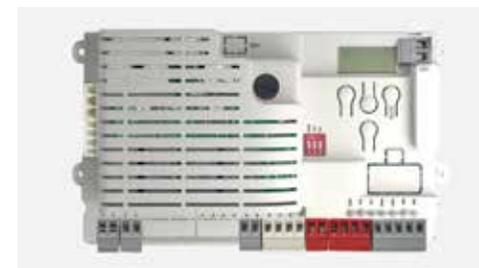
Back-up battery (optional) on board

MODELS

| CODE | DESCRIPTION | PCS PALLET |
|-----------------|---|------------|
| REP2324 | For swing gates with maximum length 2,3 m or weight 250 kg per leaf, 24 Vdc motor, With control unit | 5 |
| REP2224S | 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)

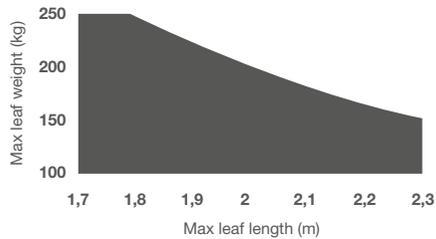


Simplified limit switch adjustment

TECHNICAL DATA

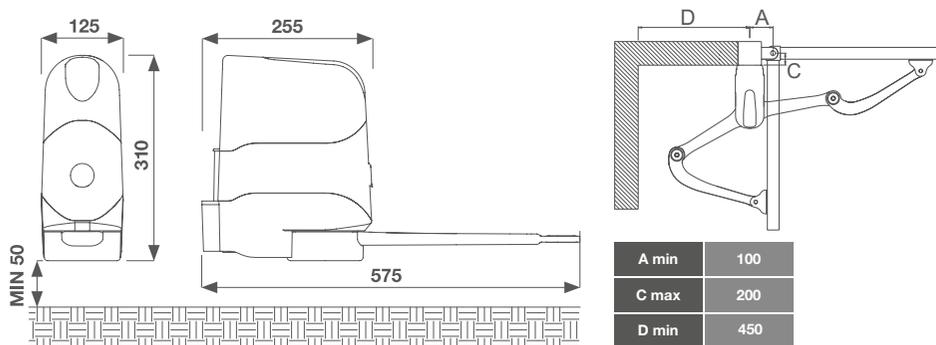
| | | REP2324 | REP2324S |
|------------------------|--------|-----------------|-----------------|
| MECHANICAL DATA | | | |
| torque | Nm | 120 | 120 |
| working cycle | % | 80 | 80 |
| opening time at 90° | sec | 14-20 | 14-20 |
| ELECTRICAL DATA | | | |
| control board | | CT20324 | - |
| power |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



PZ. 1



PZ. 1



PZ. 1



PZ. 1



PZ. 1



PZ. 1



PZ. 1



PZ. 1



PZ. 1

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 |
|------------|---|---------|------------|
| KREP2024EK | 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 |
| KREP2024KK | 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

| | RÉVO+ | ECLIPSE | RX4K | FT33/FT23 | SUB44WR | SUB44R | KUBE |
|------------|---------|---------|------|-----------|---------|--------|------|
| KREP2024EK | • 2 PCS | • | • | • FT33 | • | • | • |
| KREP2024KK | • 2 PCS | • | • | • FT23 | • | • | • |

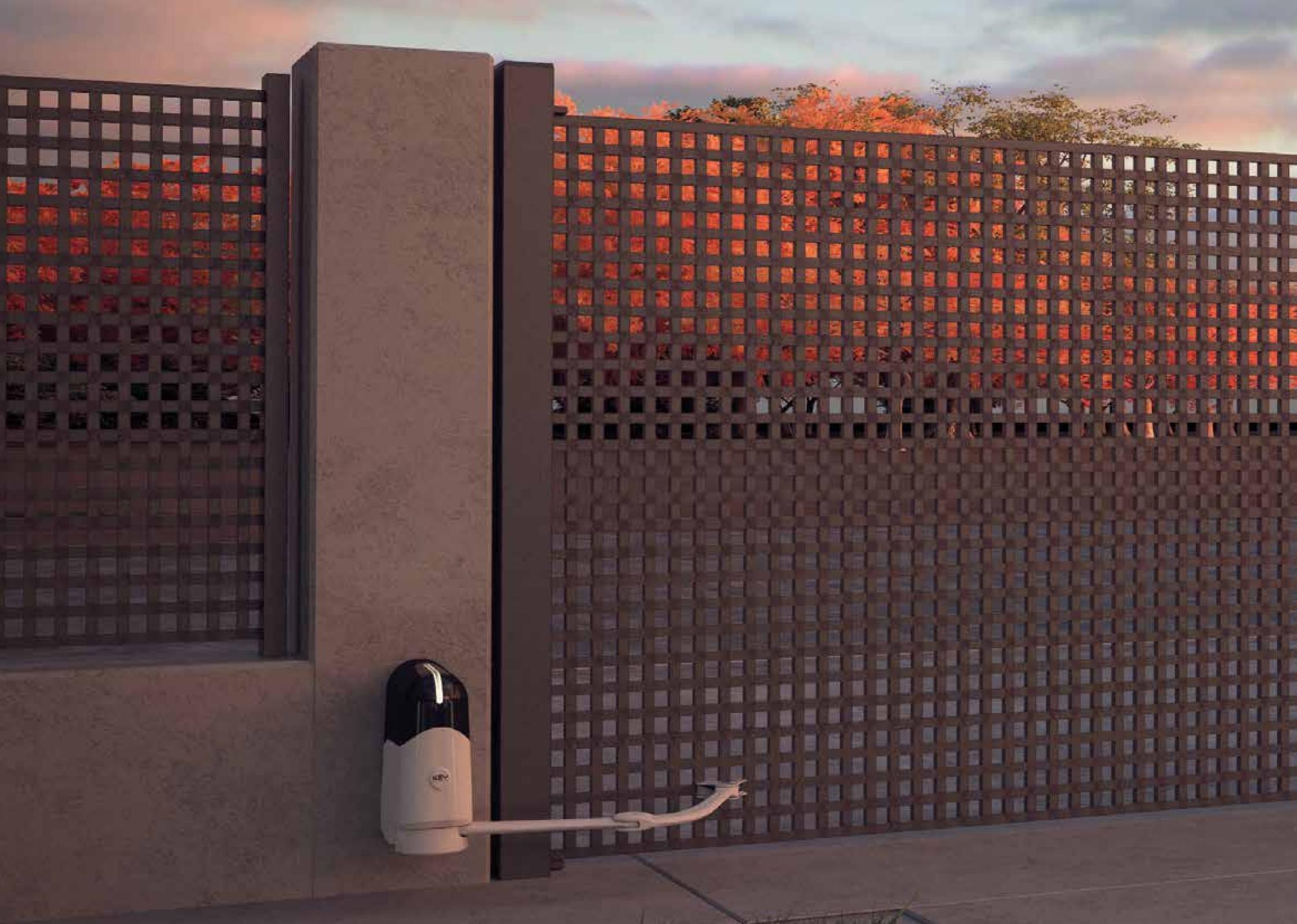
MODELS · WITHOUT NIGHT LIGHT SYSTEM

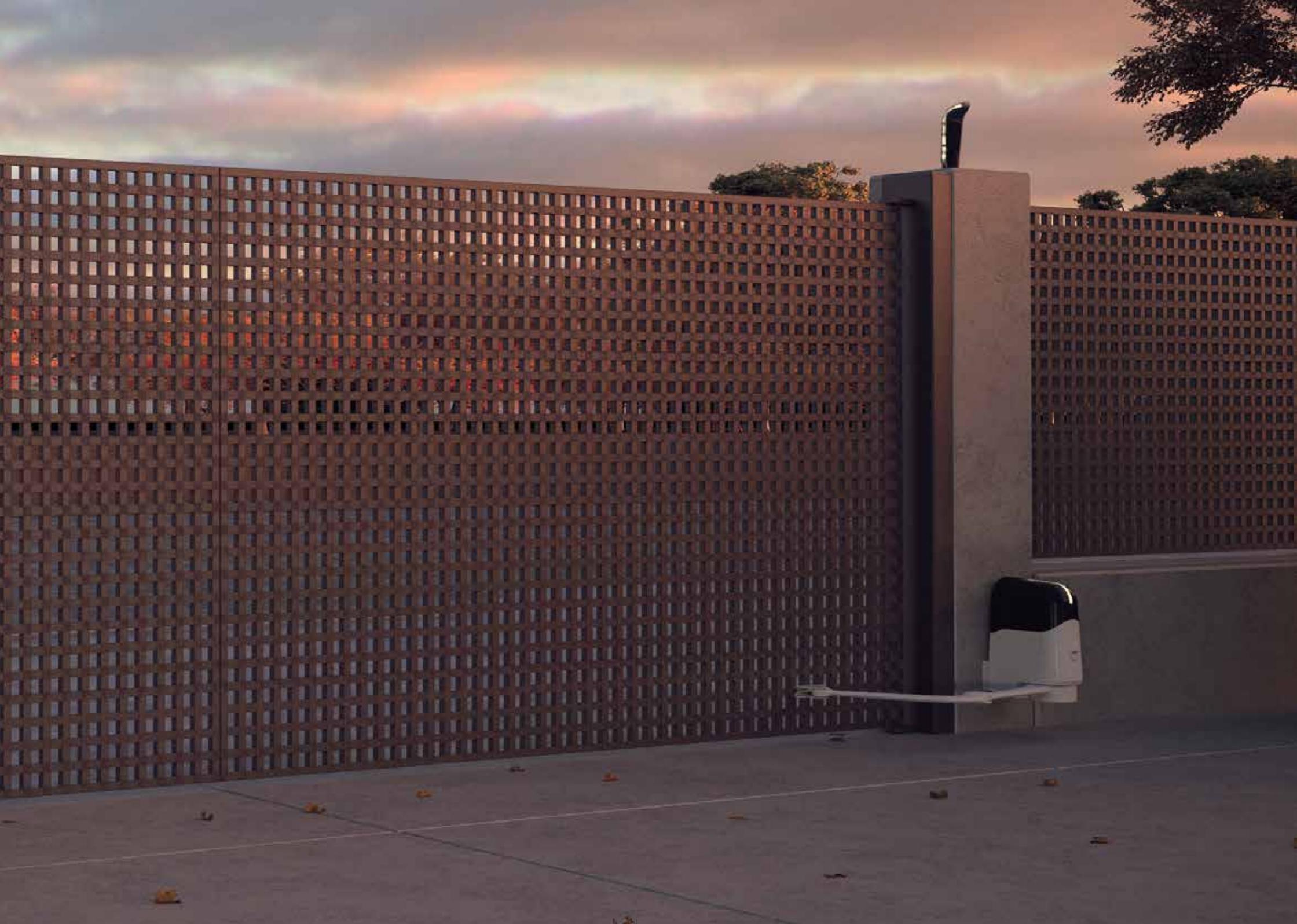
| CODE | DESCRIPTION | WEIGHT | PCS PALLET |
|---|---|---------|------------|
|  KREP2324ES | Kit for swing gates with leaves up to 2,3 m, 24 Vdc motor with articulated arms, control unit with slowdown, mechanical stop in opening and closing (with control unit CT20324) | 20,4 kg | 24 |
|  KREP2324KS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

| | | | | | | |
|-------------------|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| | RÉVO+ | LUMY | RX4K | FT33/FT23 | SUB44WR | SUB44R |
| KREP2324ES | • 2 PZ. | • | INTEGRATED | • FT33 | • 2 PZ. | |
| KREP2324KS | • 2 PZ. | | INTEGRATED | • FT23 | | • 2 PZ. |







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



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

MODELS

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



External release for an easy manual unlock from outside



Reinforced and sturdy arm suitable for wide-angles opening



Powerful motor with solid metal gearbox

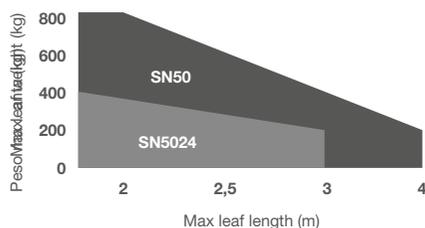


Limit switch with precision regulation

TECHNICAL DATA

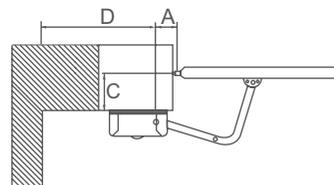
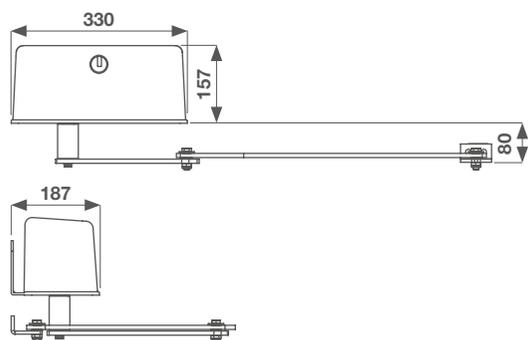
| | | SN50 | SN5024 |
|------------------------|--------|-----------------|-----------------|
| MECHANICAL DATA | | | |
| torque | Nm | 400 | 350 |
| working cycle | % | 30 | 80 |
| opening time at 90° | sec | 18 | 15-25 |
| ELECTRICAL DATA | | | |
| control board | | CT202 | 14AB2 |
| power | Vac | 230 | - |
| | Vdc | - | 24 |
| consumption | A | 1,5 | 5 |
| absorbed power | W | 340 | 120 |
| capacitor | µF | 12 | - |
| thermoprotection | °C | 150 | - |
| GENERIC DATA | | | |
| 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 |

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

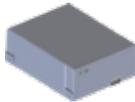
DIMENSIONS



| | | |
|-------|-----|-------|
| A min | 150 | |
| C max | 300 | 450 * |
| D min | 500 | 600 * |

* with accessory LEVA008A00

ACCESSORIES

| | | | |
|---|--|--|---|
|  ELC-C 12 V horizontal electric lock. Up to 2000 Kg |  KBP Kit of 1,3 Ah lead battery and battery charger |  KITFIXBATT Fixing brackets for batteries |  BMET Metal box with release system |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  550CABL045A00 * Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm² (100m) |  SBLEXT Cable external release kit |  KFE Kit electric limit switches for 24Vdc version |  LEVA008A00 Articulated straight arm for columns from 301 to 450mm |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  BDBOC Telescopic arm for folding doors |  CT202 Control unit in box for two 230 Vac motors |  14AB2 Control unit for two motors 24 Vdc in box |  DYL Programming module Cable length 120 cm (only 14A board) |
| PZ.1 | PZ.1 | PZ.1 | PZ.1 |
|  KUBEPRO Wireless programming module |  KUBE Wireless controlling module for end user |  RX4K 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

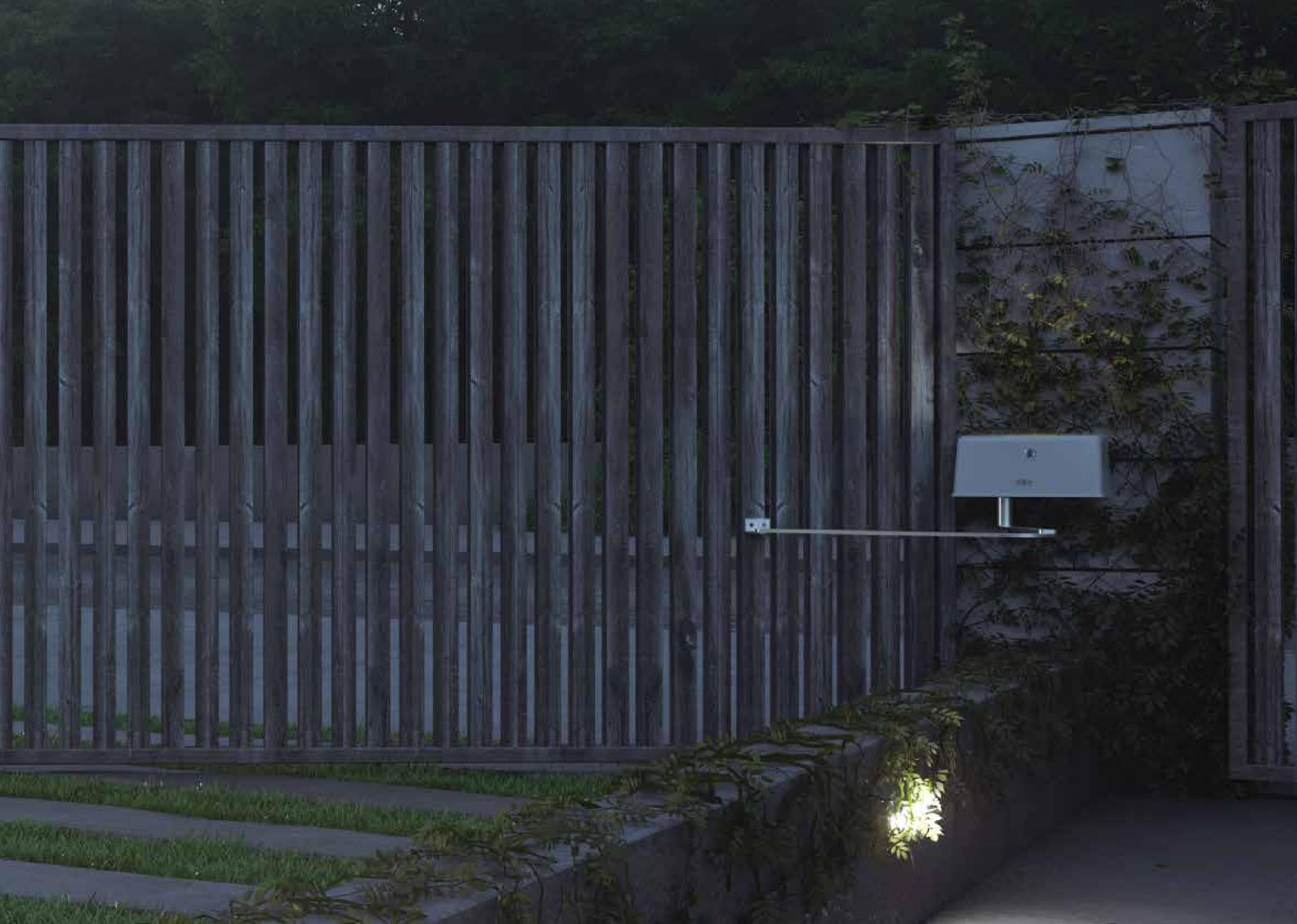
Water resistant SUB remote control included

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 NEW |  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

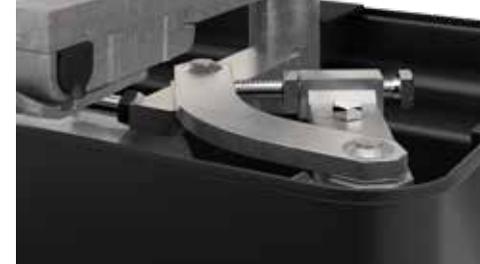
FASTLINE

UNDER FAST ideal for pedestrian gates: 90° opening rate in 10 seconds*

* slow down phase excluded

MODELS

| CODE | DESCRIPTION | PCS PALLET |
|----------------------|---|------------|
| UND | For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 1.5 m | 18 |
| UND10 | For swing gates with maximum length 3,5 m, 230 Vac motor, with opening and closing mechanical stops. Cable length 10 m | 10 |
| UND24 | For swing gates with maximum length 3,5 m, 24 Vdc motor, without encoder, with opening and closing mechanical stops | 18 |
| NEW UND24F | 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 |
| UND24E | 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

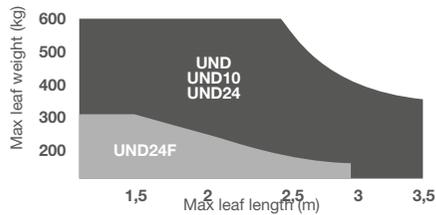


Easy maintenance thanks to the double greasers both on housing and gear motor

TECHNICAL DATA

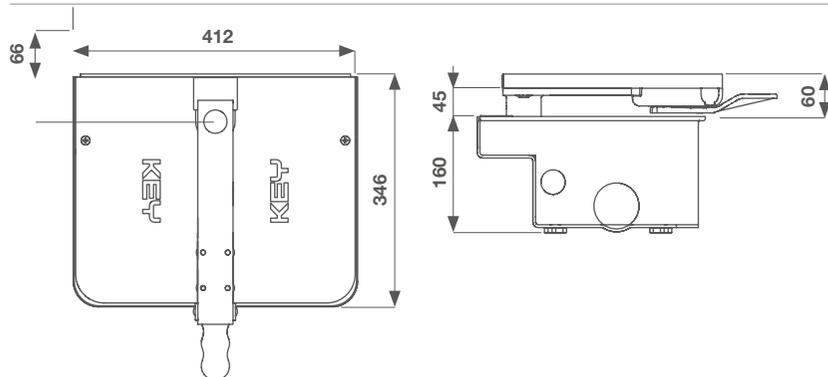
| | | UND | UND10 | UND24 | UND24F |
|------------------------|--------|-----------------|----------|----------|----------|
| MECHANICAL DATA | | | | | |
| torque | Nm | 300 | 300 | 250 | 130 |
| working cycle | % | 30 | 30 | 80 | 50 |
| opening time at 90° | sec | 20 | 20 | 18-25 | 10-15 |
| ELECTRICAL DATA | | | | | |
| 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 | - | - |
| GENERIC DATA | | | | | |
| 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

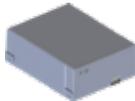


Gate shape and height and weather conditions can considerably reduce the values shown above, in the graph. 230 Vac motors are suggested for windy areas

DIMENSIONS



ACCESSORIES

| | | | |
|---|---|---|--|
|  |  |  |  |
| ELS-C 12 V horizontal electric lock. Up to 2000 Kg | KBP Kit of 1.3 Ah lead battery and battery charger | KITFIXBATT Fixing brackets for batteries 24 V | CF3* Cataphoresis housing box with galvanised cover and unlock lever SB3 |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| CI3* Stainless steel housing box, with unlock lever SB3 | CF3SB* Cataphoresis housing box, without connecting levers | ADUN Fixing kit for other producers' boxes | SB3 Unlock lever with key |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| OP100 Kit for over 100° opening. Leaf length max 3000 mm | 550CABL045A00* Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm ² (100m) | 14AB2F Control unit in box for two 24 Vdc motors (only UND24F) | CT20324 Control unit 2 motors, 24 Vdc in box (only UND24) |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  |  |  |
| CT202 Control unit in box for two 230 Vac motors | 14AB2 Control unit in box for two 24 Vdc motors | RX4K 4-channel plug-in receiver, 433MHz, for CT202 control unit | DYL Programming module Cable length 120 cm (only 14A board) |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  |  | | |
| KUBEPRO Wireless programming module | KUBE 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 |
|--|---|---------|------------|
|  KUND3024EK | 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 |
|  KUND3024KK | Underground kit for swing gates with leaves up to 3,5 m, 24 Vdc motor, control unit with slowdown | 26,3 kg | 9 |
| KUND2ES | Underground kit for swing gates with leaves up to 3,5 m, 230 Vac motor, control unit with slowdown | 26 kg | 12 |
| KUND2KS | 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

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

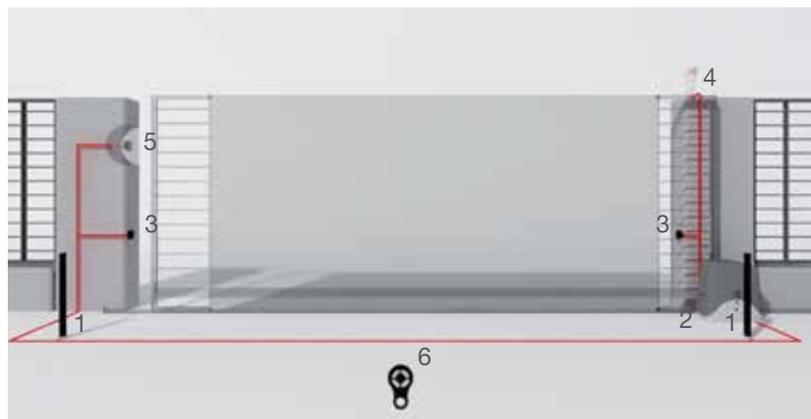
TU7324

230 V, normal use, up to 500 Kg

SC52

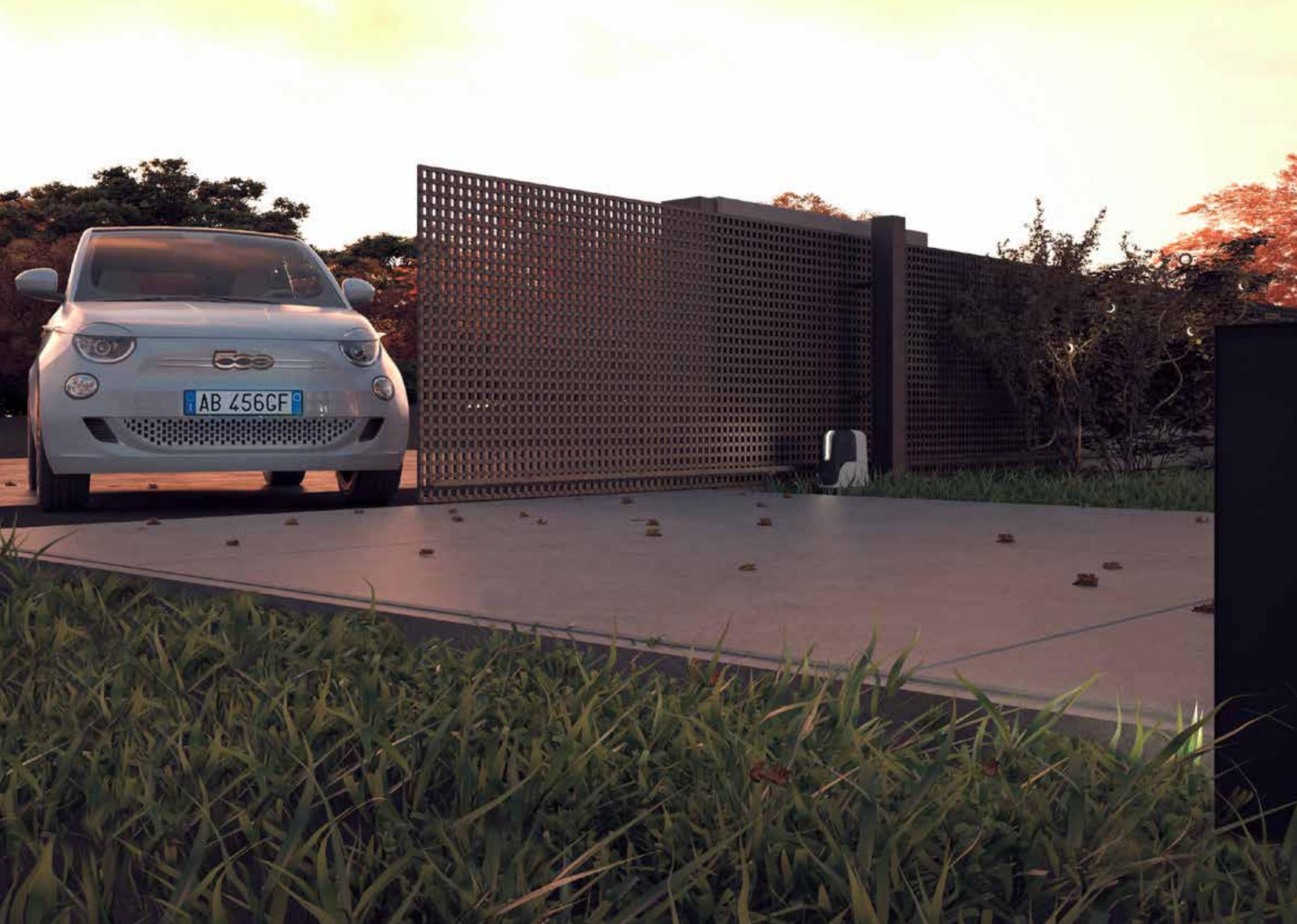
230 V, normal use, up to 800 Kg

SC82



STANDARD INSTALLATION FOR SLIDING GATES

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



AB 456GF



MODELS

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

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



Control board 14A



Built-in LED light



Robust gear reduction with self-standing bearing



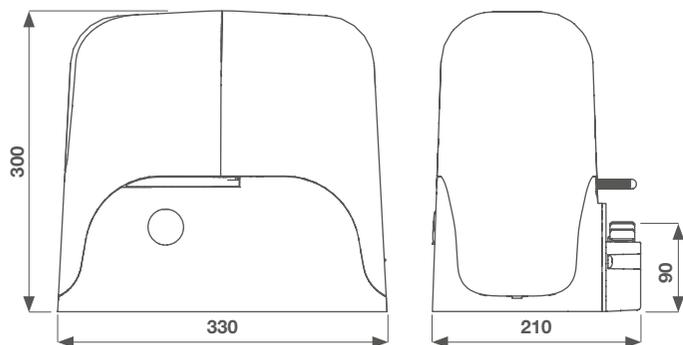
Stylish design screwless at sight

TECHNICAL DATA

| | | SUN4024 | SUN7024 | SUN11024 | SUN5024F |
|------------------------|------|-----------------|----------|----------|--|
| MECHANICAL DATA | | | | | |
| speed | cm/s | 26* | 25* | 20* | 40* |
| torque | Nm | 18 | 26 | 38 | 23 |
| working cycle | % | 80 | 80 | 80 | 80 |
| ELECTRICAL DATA | | | | | |
| 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 |
| GENERIC DATA | | | | | |
| 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 kg and upward are recommended for condominium installations

DIMENSIONS



ACCESSORIES

| | | | |
|---|---|--|---|
|  RN800 * M4 nylon rack L=1000 mm for gates up to 800 kg |  CREM-8 ** M4 zinc coated rack 30x8 mm L=1000 mm |  CREM-12 ** M4 zinc coated rack 30x12 mm L=1000 mm |  KBP Kit of 1.3 Ah lead battery and battery charger |
| €/m | €/m | €/m | PZ. 1 |
|  KCS Unlock kit with key |  550CABL045A00 *** Special cable for Eclipse flash light RG174 50 Ohm + 4 x 0,50 mm ² (100m) |  TWIN Interface for master/slave function (SUN5024F, SUN7024 and SUN11024) |  DYL Programming module Cable length 120 cm (only 14A board) |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  KUBEPRO Wireless programming module |  KUBE Wireless controlling module for end user | | |
| PZ. 1 | 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 |
|---|---|------------|
|  SUN4324 | For sliding gates up to 400 Kg, 24 Vdc motor, control unit CT10324 with slowdown and electric limit switch. Integrated receiver | 18 |
|  SUN7324 | For sliding gates up to 700 Kg, 24 Vdc motor, control unit CT10324 with slowdown and electric limit switch. Integrated receiver | 36 |
| SUN11324M | For sliding gates up to 1100 Kg, 24 Vdc motor, control unit CT10324 with slowdown and magnetic limit switch | 18 |



Manual unlock with transmitter



Robust gear reduction with self-standing bearing



Control unit CT10324 with integrated receiver programmable with KUBE PRO



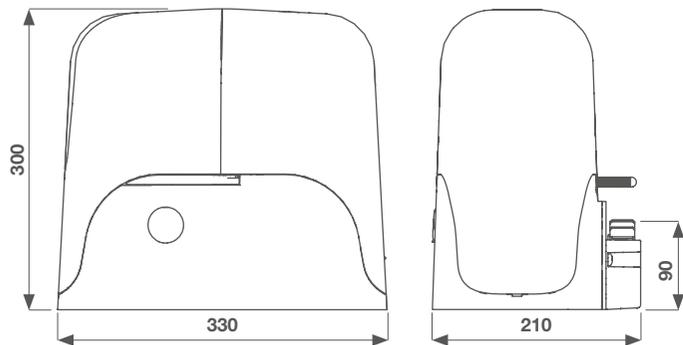
Stylish design screwless at sight

TECHNICAL DATA

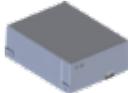
| | | SUN4324 | SUN7324 | SUN11324M |
|------------------------|------|-----------------|----------|-----------|
| MECHANICAL DATA | | | | |
| speed | cm/s | 26* | 25* | 20* |
| torque | Nm | 18 | 26 | 38 |
| working cycle | % | 80 | 80 | 80 |
| ELECTRICAL DATA | | | | |
| control board | | CT10324 | 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 | - | - | - |
| GENERIC DATA | | | | |
| 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 | CREM-8 ** M4 zinc coated rack 30x8 mm L=1000 mm | CREM-12 ** M4 zinc coated rack 30x12 mm L=1000 mm | KBP Kit of 1.3 Ah lead battery and battery charger |
| €/m | €/m | €/m | PZ. 1 |
|  |  |  |  |
| KCS Unlock kit with key | TWIN Interface for master/slave function (SUN7224) | KUBEPRO Wireless programming module | KUBE Wireless controlling module for end user |
| PZ.1 | PZ.1 | PZ.1 | 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 |
|--------------------|---|---------|------------|
| KSUN4024EK | 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 |
| KSUN4024KK | Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch. | 13 kg | 36 |
| KSUN5024FEK | 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 |
| KSUN5024FKK | Kit for sliding gates up to 500 kg, 24 Vdc motor, control unit 14AF with slowdown, magnetic limit switch. | 14 kg | 36 |
| KSUN7024EK | 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 |
| KSUN7024KK | Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switch. | 13,8 kg | 36 |
| KSUN11024EK | 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 |
|--|---|---------|---|
|  KSUN11024KK | Kit for sliding gates up to 1100 kg, 24 Vdc motor, control unit 14A with slowdown, electric limit switches | 14,9 kg | 18 |
|  KSUN4024TW | 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

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

MODELS · WITHOUT NIGHT LIGHT SYSTEM

| CODE | DESCRIPTION | WEIGHT | PCS PALLET |
|---|---|---------|------------|
|  KSUN4324ES | Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 13 kg | 36 |
|  KSUN4324KS | Kit for sliding gates up to 400 kg, 24 Vdc motor, control CT10324 unit with slowdown, electric limit switch | 12,8 kg | 36 |
|  KSUN7324ES | Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 14,1 kg | 36 |
|  KSUN7324KS | Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 13,9 kg | 36 |

KIT COMPONENTS

| |  SUN |  LUMY |  RX4K |  FT33/FT23 |  SUB44WR |  SUB44R |
|-------------------|--|---|---|--|--|---|
| KSUN4324ES | • 1 PZ. | • | INTEGRATED | • FT33 | • 2 PZ. | |
| KSUN4324KS | • 1 PZ. | • | INTEGRATED | • FT23 | | • 2 PZ. |
| KSUN7324ES | • 1 PZ. | • | INTEGRATED | • FT33 | • 2 PZ. | |
| KSUN7324KS | • 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 |
|--|--|------------|
|  TU4324 | For sliding gates up to 400 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with built-in radio receiver | 36 |
|  TU7324 | For sliding gates up to 700 Kg, 24 Vdc motor, control unit with slowdown and electric limit switch, with built-in radio receiver | 18 |
| SC52 | For sliding gates up to 500 Kg, 230 Vac motor, control unit with slowdown and electric limit switch | 36 |
| SC82 | 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

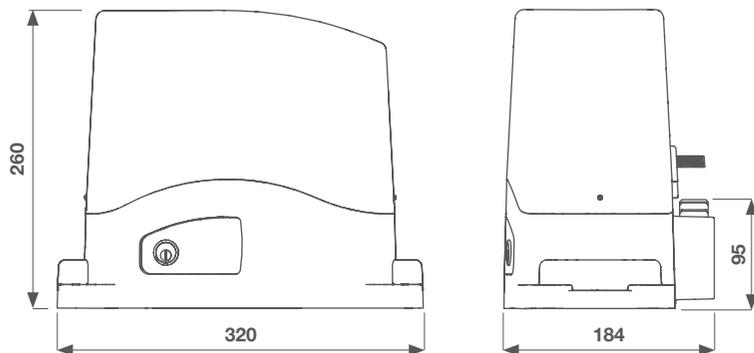


Kube e Kube Pro

TECHNICAL DATA

| | | TU4324 | TU7324 | SC52 | SC82 |
|------------------------|------|-----------------|----------|----------|----------|
| MECHANICAL DATA | | | | | |
| speed | cm/s | 24 | 23 | 16 | 16 |
| torque | Nm | 18 | 34 | 16 | 23 |
| working cycle | % | 50 | 80 | 30 | 30 |
| ELECTRICAL DATA | | | | | |
| 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 |
| GENERIC DATA | | | | | |
| 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



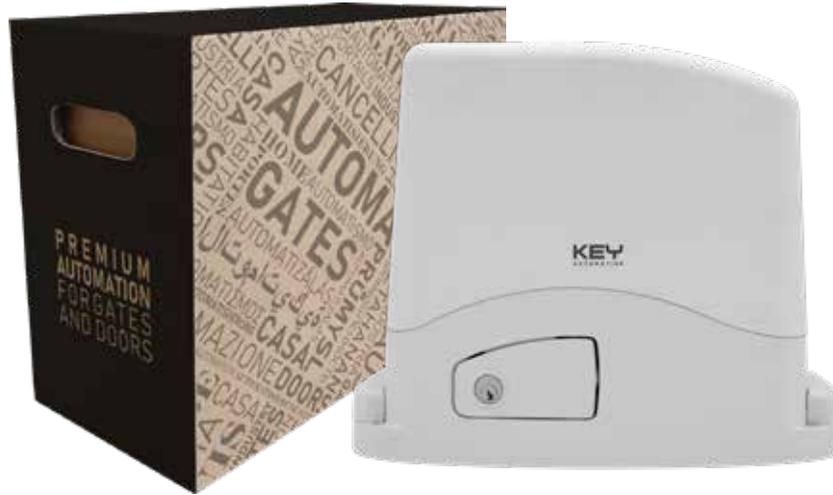
ACCESSORIES

| | | | |
|---|---|---|---|
|  |  |  |  |
| RN800 * M4 nylon rack L=1000 mm for gates up to 800 kg | CREM-8 ** M4 zinc coated rack 30x8 mm L=1000 mm | CREM-12 ** M4 zinc coated rack 30x12 mm L=1000 mm | RX4K 4-channel plug-in receiver, 433MHz, for CT202 control unit |
| €/m | €/m | €/m | PZ.1 |
|  |  | | |
| KUBEPRO Wireless programming module | KUBE Wireless controlling module for end user | | |
| PZ. 1 | 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 |
|---|---|---------|------------|
|  KTU4324ES | Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 11,1 kg | 36 |
|  KTU4324KS | Kit for sliding gates up to 400 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 10,6 kg | 36 |
|  KTU7324ES | Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 12,9 kg | 36 |
|  KTU7324KS | Kit for sliding gates up to 700 kg, 24 Vdc motor, control unit CT10324 with slowdown, electric limit switch | 12,7 kg | 36 |
| KSC52ES | Kit for sliding gates up to 500 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch | 12,9 kg | 36 |
| KSC52KS | Kit for sliding gates up to 500 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch | 12,7 kg | 36 |
| KSC82ES | Kit for sliding gates up to 800 kg, 230 Vac motor, control unit CT102B with slowdown, electric limit switch | 13,6 kg | 36 |
| KSC82KS | 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.

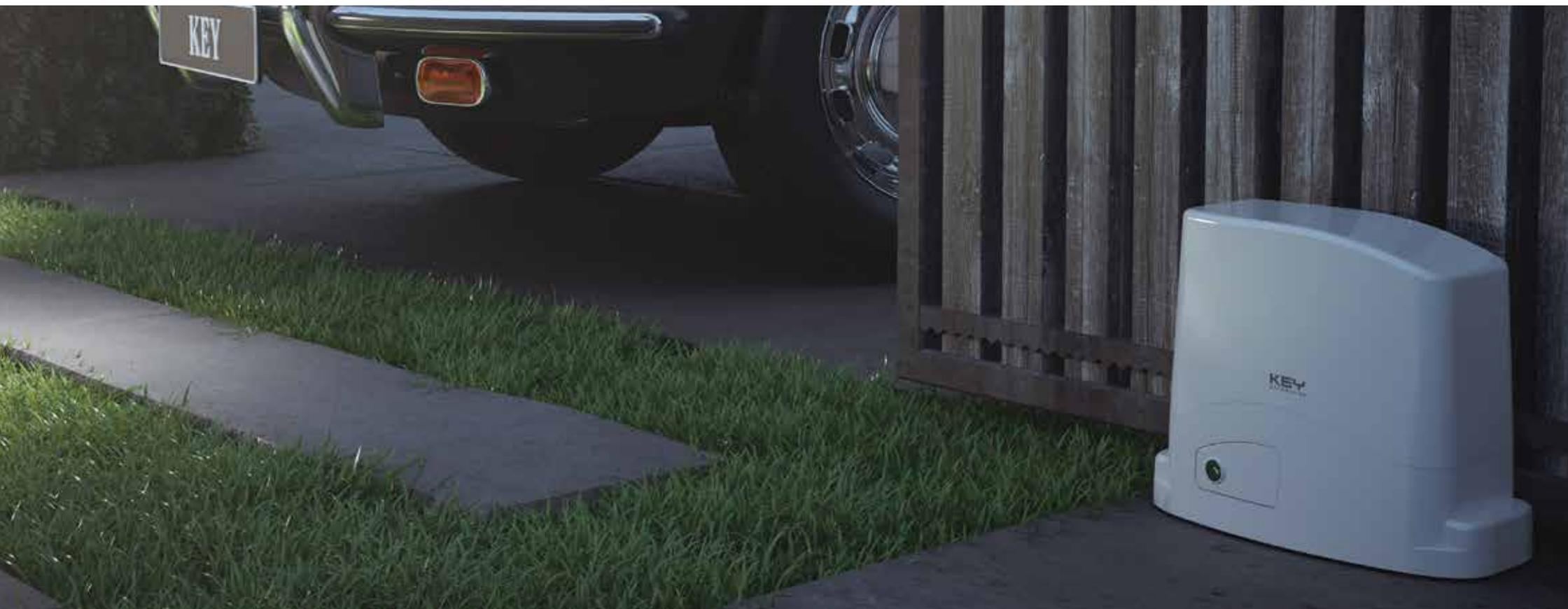
KSC82KS

• 1 PZ.

•

• FT23

• 2 PZ.



SELECTION GUIDE

SYSTEM FOR SECTIONAL AND OVERHEAD DOORS

HALO

GEAR MOTOR FOR SECTIONAL DOORS UP TO 19 m² AND OVERHEAD DOORS UP TO 17 m²

24 V, intensive use, up to 12 mq

HA8

24 V, intensive use, up to 19 mq

HA12

BLINDO

GEAR MOTOR FOR SPRING OR COUNTERWEIGHT OVERHEAD DOORS UP TO 9 m²

230 V, normal use

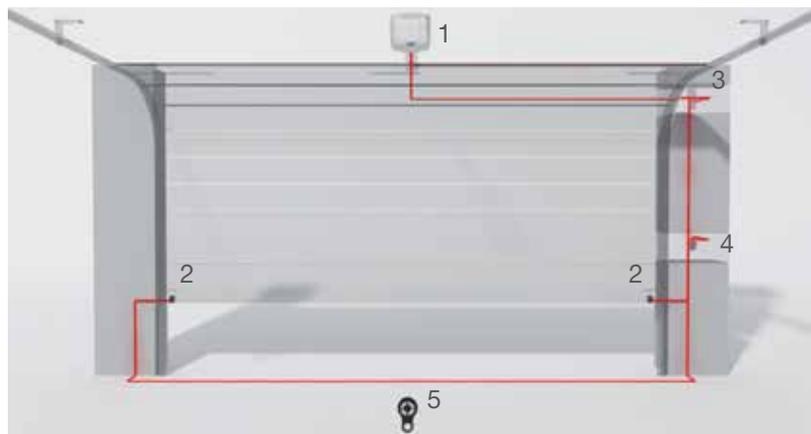
BS-50

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

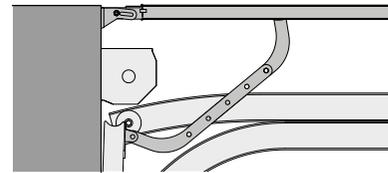
STANDARD RAIL

Steel C-section available with belt drive system

Total length 3 or 4m

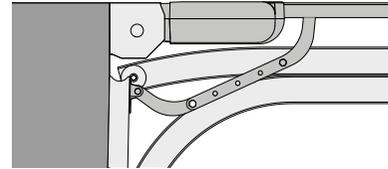
One-piece or 3-piece rail for 3m length

INSTALLATION MODES



CLASSIC INSTALLATION

With head in the center of the garage



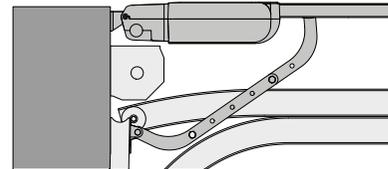
CROSS BEAM INSTALLATION

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 m² AND OVERHEAD DOORS UP TO 17 m², 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

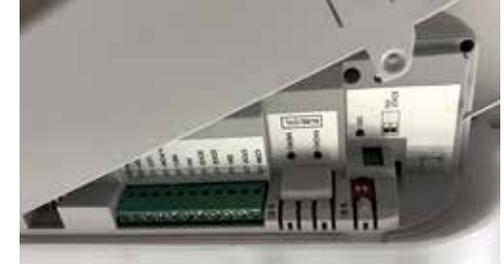
| CODE | DESCRIPTION | PCS PALLET |
|------|--|------------|
| HA8 | For sectional doors up to 11 sqm (with 3 m rail) or 12 sqm (with 4 m rail), a 24 Vdc motor and a control unit with integrated receiver | 104 |
| HA12 | For sectional doors up to 16 sqm (with 3 m rail) or 19 sqm (with 4 m rail), a 24 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 |
| RAB2X2P | Steel belt rail, 4100 mm (2x2.05m) 2-pieces rail |
| RAB31 | Steel belt rail, 3100 mm (1x3.1m) one-piece rail |
| RAB41 | Steel belt rail, 4100 mm (1x4.1m) one-piece rail |
| RAB61 | Steel belt rail, 6200 mm (2x3.1m) 2-pieces rail |



Rail with LED light



Side-opening hatch



Compact head unit (total height 8 cm)



Installations on spring shaft/cross beam

TECHNICAL DATA

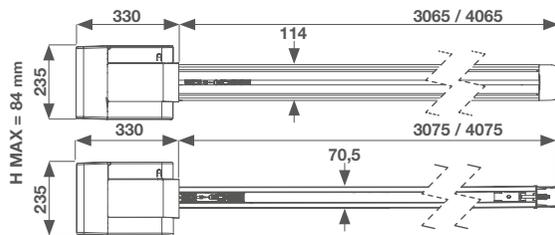
| | | HA8 | HA12 |
|---|----------------|----------------------------|----------|
| MECHANICAL DATA | | | |
| speed | cm/s | 15 | 15 |
| force | N | 800 | 1200 |
| max cycles/hour ⁽¹⁾ | | 20 | 20 |
| ELECTRICAL DATA | | | |
| power supply | Vac | 230 (±10%) 50Hz | |
| flashing | W | 3 max | 3 max |
| 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 |
| GENERIC DATA | | | |
| 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 ² | 12 | 19 |
| maximum door weight | kg | 120 | 200 |

⁽¹⁾ 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 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| HA8 with 3 m rail | | | |
| S max=11m ² - H max = 2,6m | S max=10m ² - H max = 3m | S max=16m ² - H max = 2,6m | S max=16m ² - H max = 3m |
| HA8 with 4 m rail | | | |
| S max=12m ² - H max = 3,6m | S max=11m ² - H max = 3,4m | S max=19m ² - H max = 3,6m | S max=17m ² - 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>KBPN Kit of 1.3 Ah lead battery and battery charger</p> |  <p>KBP Kit of 1.3 Ah lead battery and battery charger</p> |  <p>HAL2 Swinging arm for counterweight overhead doors</p> |  <p>HAL7 Motor support bracket, L=1400 mm. For up and over doors</p> |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  <p>HAL1S Kit for external unlock with key and metal cord for insulated overhead doors</p> |  <p>SBLST Kit for external unlock with key and metal cord for uninsulated overhead doors</p> |  <p>HAL3 Kit supplementary fixing ceiling rail (for steel rail)</p> |  <p>HAL4 Kit 2 supplementary fixing clamps (for steel rail)</p> |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  <p>HAL5 Kit supplementary fixing ceiling rail (for Led rail)</p> |  <p>HAL6 Kit for wall support (for Led rail)</p> |  <p>SBCO External unlocking system L=3000 mm</p> |  <p>550CABL045A00 * 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>520STAF029A00 Fixing clamp</p> |  <p>TO1U Touch transmitter, 1 channel, rolling code, to be recessed in the door panel</p> |  <p>TO1M Touch transmitter, 1 channels, rolling code</p> |  <p>TO2M Touch transmitter, 2 channels, rolling code</p> |
| PZ. 1 | PZ. 1 | PZ. 1 | PZ. 1 |
|  <p>TO2M Touch transmitter, 2 channels, with motion sensor</p> |  <p>DYL Programming module Cable length 120 cm (only 14A board)</p> |  <p>KUBEPRO Wireless module for programming</p> |  <p>KUBE Wireless controlling module for end user</p> |
| 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

HALO KIT



ELECTROMECHANICAL GEAR MOTOR FOR SECTIONAL DOORS UP TO 19 m² AND OVERHEAD DOORS UP TO 17 m², 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

HA8SS

• 1 PZ.

• 2 PZ.

HA12SS

• 1 PZ.

• 2 PZ.

HA8PP

• 1 PZ.

• 2 PZ.

HA12PP

• 1 PZ.

• 2 PZ.



BLINDO



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



PLUS

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

24 Vdc motor with encoder

With 24 Vdc CT10324 control unit with integrated display

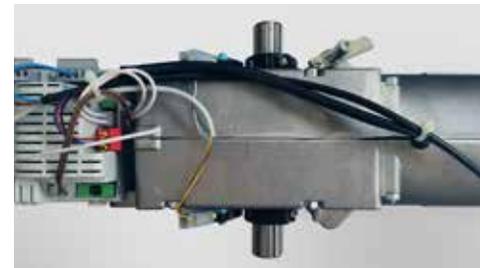
With 230 Vac CT102B control unit with integrated display

With slowdown function, granting doors integrity

External release for easy manual unlock from outside

MODELS

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

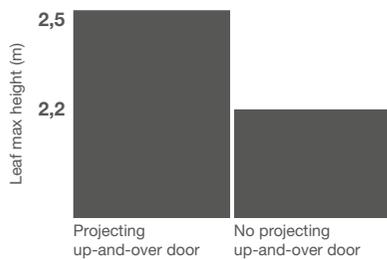


Kube and Kube pro

TECHNICAL DATA

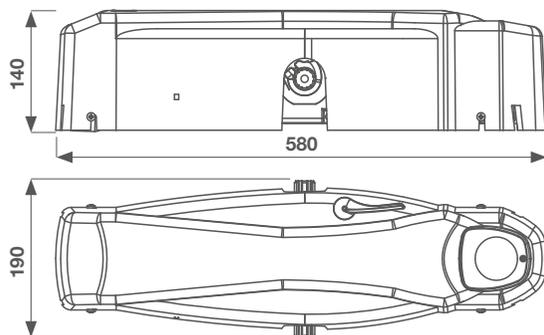
| | | BS-50 | BS52 | BS5324 |
|-------------------------|----------------|-----------------|-----------------|-----------------|
| MECHANICAL DATA | | | | |
| torque | Nm | 440 | 440 | 350 |
| working cycle | % | 30 | 30 | 80 |
| ELECTRICAL DATA | | | | |
| control board | | - | CT102B | CT10324 |
| 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 |
| GENERIC DATA | | | | |
| 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 ² | 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 m², 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 |
|--|--|---------|------------|
| KBS52PS | Kit for spring and counterweight overhead doors up to 9 m ² , 230 Vac motor, control unit with slowdown function (with control unit CT102B) | 26 kg | 16 |
|  KBS5324PS | Kit for spring and counterweight overhead doors up to 9 m ² , 24 Vdc motor, control unit with slowdown function (with control unit CT10324) | 25,5 kg | 16 |

KIT COMPONENTS

| |  BLINDO |  RX4K |  SUB44WR |  BDNS |  ST2000 NEW |  TZ-1500 |
|-----------|--|--|---|--|--|---|
| KBS52PS | • 1 PC | • | • 2 PCS | • 2 PCS | • | • |
| KBS5324PS | • 1 PC | INTEGRATED | • 2 PCS | • 2 PCS | • | • |



DM33UH



KEY INDUSTRY INDUSTRIAL AND COMMERCIAL SOLUTIONS

SYSTEMS FOR SWING GATES

74

STAR 500

76

SYSTEMS FOR SLIDING GATE

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TURBO 160

80

TURBO 200

82

TURBO 400

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ROAD BARRIERS

86

ALT

88

ACCESSORIES

90

SELECTION GUIDE

SYSTEMS FOR SWING GATES

STAR 500

GEAR MOTOR FOR LEAVES UP TO 5 m

230 V, normal use

PS-400FA

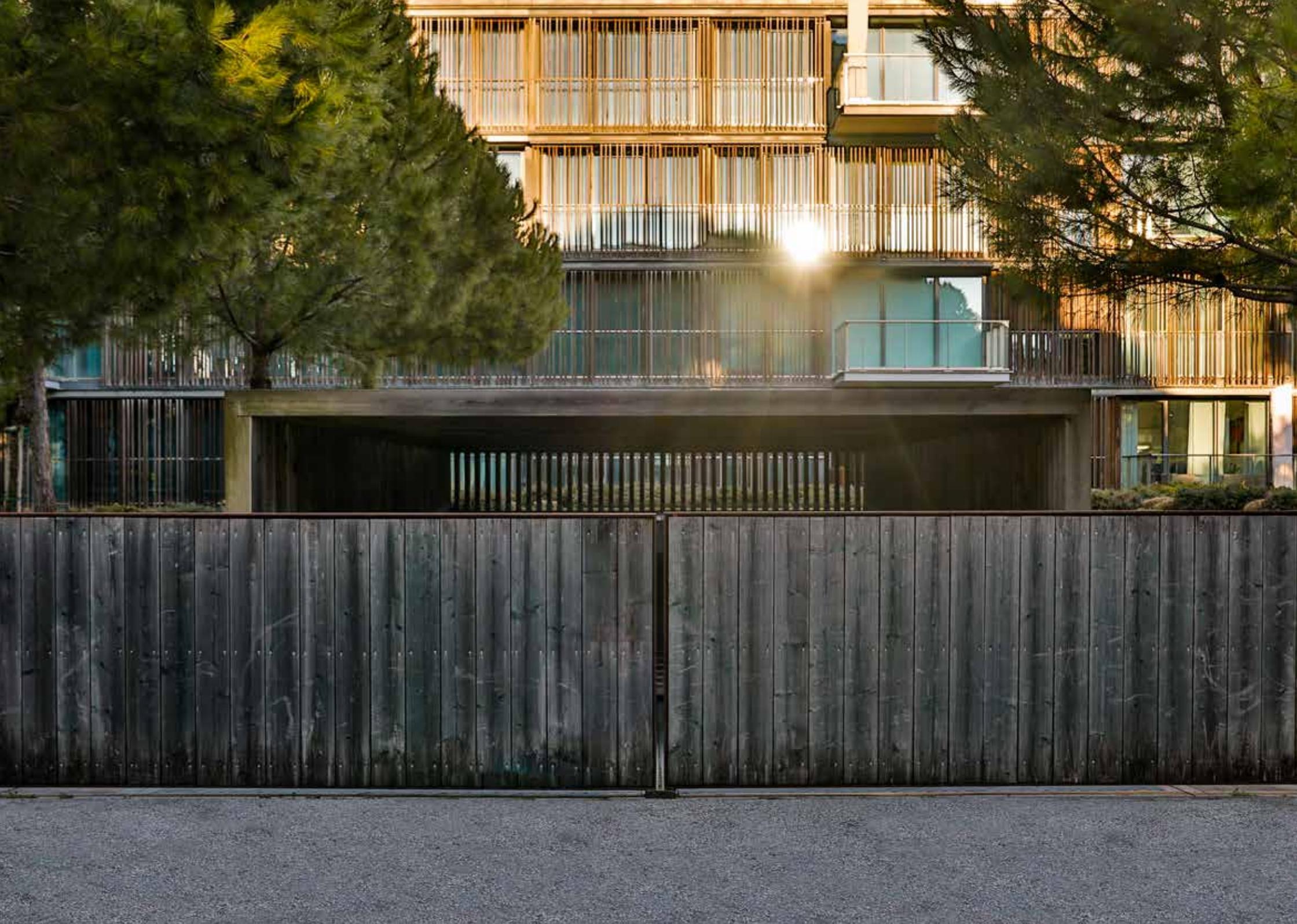
24 V, intensive use

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



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

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 |



Robust bronze lock nut on endless screw



Easy mechanical release



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

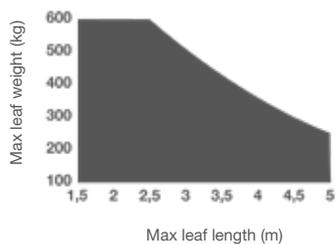


Full-metal reduction

TECHNICAL DATA

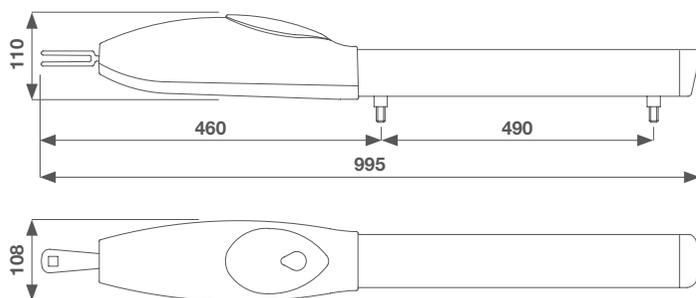
| | | PS-400FA | PS400-24FA |
|------------------------|--------|-----------------|-----------------|
| MECHANICAL DATA | | | |
| speed | cm/s | 1,4 | 2,7 |
| pulling force | N | 1800 | 1400 |
| working cycle | % | 30 | 80 |
| opening time at 90° | sec | 35 | 25-35 |
| ELECTRICAL DATA | | | |
| control board | | CT202 | 14AB2 |
| power | Vac | 230 | - |
| | Vdc | - | 24 |
| consumption | A | 1,1 | 5 |
| absorbed power | W | 250 | 120 |
| capacitor | µF | 10 | - |
| thermoprotection | °C | 150 | - |
| GENERIC DATA | | | |
| 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



EL5-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

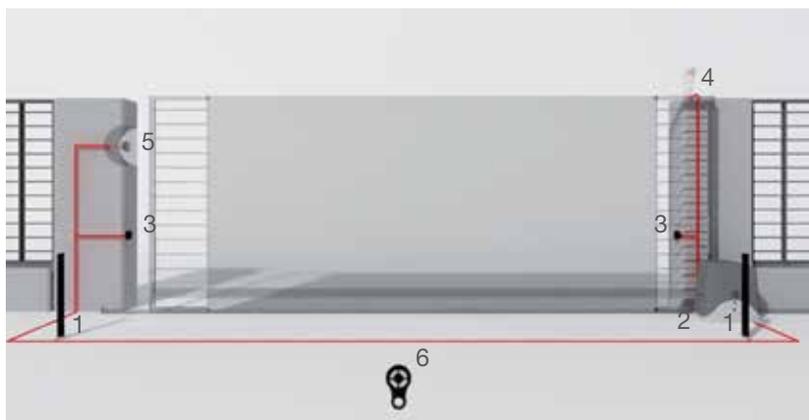
SC252M

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



KEY
CORPORATION

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 | 16 |
| torque | Nm | 40 |
| working cycle | % | 30 |

ELECTRICAL DATA

| | | |
|------------------|-----|--------|
| control board | | CT102B |
| 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

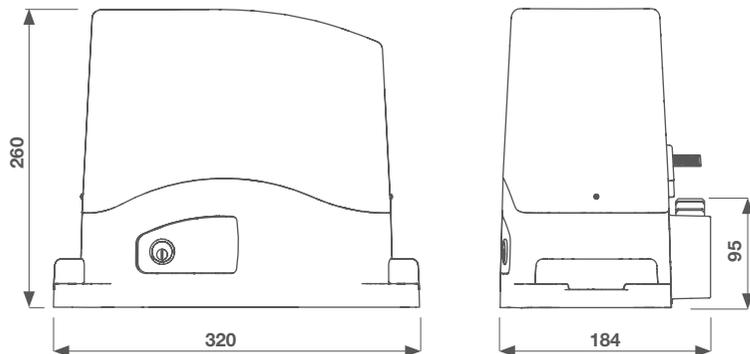
€/m



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

PZ. 1

DIMENSIONS



TURBO 200

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



MODELS

| CODE | DESCRIPTION | PCS PALLET |
|----------|--|------------|
| SC202MHD | 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 |
| SC252M | 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 |
|------------------------|------|-----------------|-----------------|
| MECHANICAL DATA | | | |
| speed | cm/s | 17 | 17 |
| torque | Nm | 93 | 110 |
| working cycle | % | 50/70* | 30 |
| ELECTRICAL DATA | | | |
| 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 |
| GENERIC DATA | | | |
| 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)

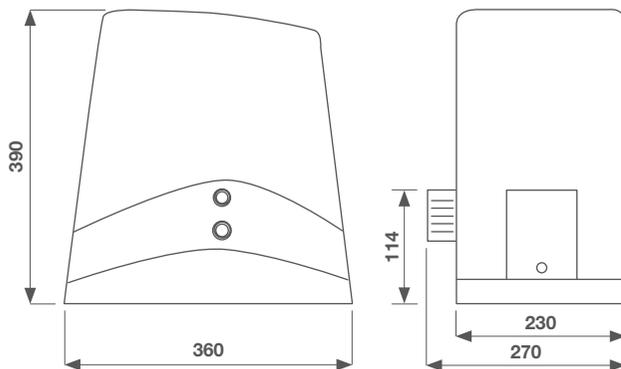
PZ. 1



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 | | |
|------------------------|------|-----------------|
| MECHANICAL DATA | | |
| speed | cm/s | 17 |
| torque | Nm | 180 |
| working cycle | % | 30* |
| ELECTRICAL DATA | | |
| control board | | CT-400 |
| power | Vac | 400 |
| consumption | A | 2 |
| absorbed power | W | 750 |
| thermoprotection | °C | 150 |
| GENERIC DATA | | |
| 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

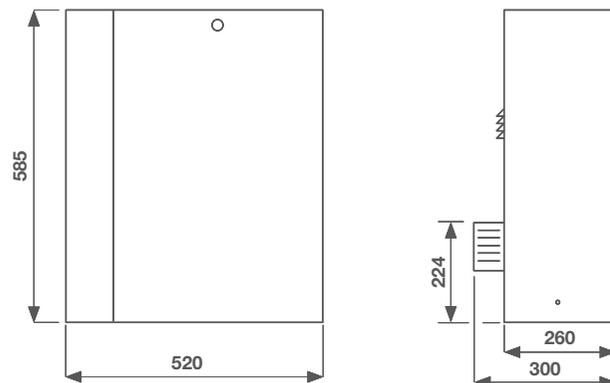
€/m



RXM23K
Universal receiver 2
channels
fix or rolling code

PZ. 1

DIMENSIONS



* 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

MODELS

| 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



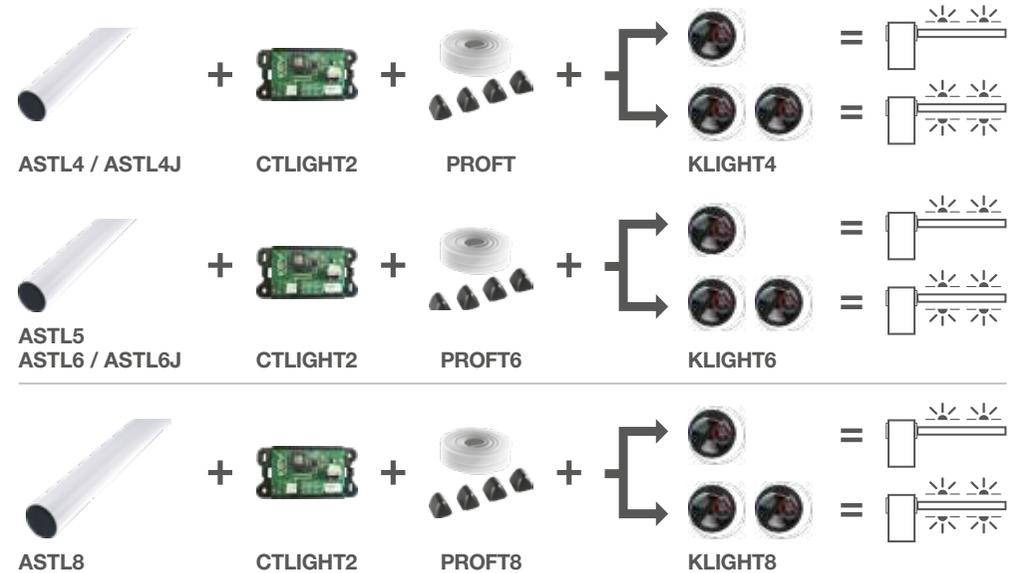
New boom arm of 5 m for ALT43

TECHNICAL DATA

| | | ALT33F | ALT43 | ALT63 |
|-------------------------|-----|------------------|------------------|------------------|
| MECHANICAL DATA | | | | |
| torque | Nm | 40 | 200 | 305 |
| working cycle | % | 50 | 80 | 80 |
| opening time at 90° ** | sec | 1 | 3,5 | 6/12* |
| ELECTRICAL DATA | | | | |
| 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 |
| GENERIC DATA | | | | |
| 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 mm |
| | 4 m | ALT43 + ASTL4 | 3780 mm |
| | 4 m | ALT43 + ASTL4J | 3780 mm |
| | 5 m | ALT43 + ASTL5 | 4780 mm |
| | 6 m | ALT63 + ASTL6 | 5640 mm |
| | 6 m | ALT63 + ASTL6J | 5640 mm |
| | 8 m | ALT63 + ASTL8 | 8040 mm |

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



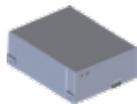
LOOP2
Magnetic sensor, one coil, one
outputs

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
AUTOMATION



KEY ACCESSORIES

SMARTPHONE & APPS

KUBE PRO

KUBE

TRANSMITTERS

SUB

PLAY

TOUCH

RECEIVERS

RX4K-RX8

UNIVERSAL RECEIVERS

POWER SUPPLY

SOLE

FLASHING LIGHTS

ECLIPSE

LUMY

PHOTOCELLS

SEKUR FT

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SELECTORS & ACCESSORIES

EGO

EGO COLUMN

SAFETY EDGES

SEKUR CO/COR

SEKUR CO-W

CONTROL UNITS

14A

CT10324

CT20324

CT102B

CT1RS

CT202

RX2H/TX2B

CT-400

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PROGRAMMING FUNCTIONS

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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

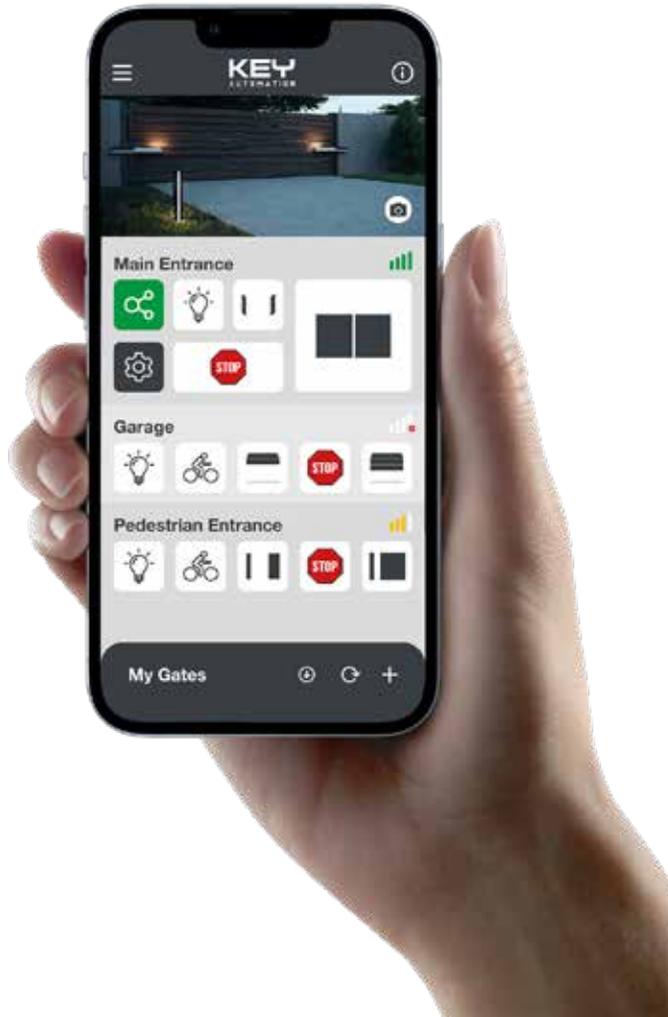
Compatible with smartphone Android and Apple equipped with Bluetooth 4.0 LE

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

* for COPIER SUB minimum order 50 pcs

KIT SUB

| CODE | DESCRIPTION |
|--|---|
| KSUB44PR  | Kit 10 SUB transmitters XR rolling code pink |
| KSUB44OR  | Kit 10 SUB transmitters XR rolling code orange |
| KSUB44BR | Kit 10 SUB transmitters XR rolling code blue |
| KSUB44YR  | Kit 10 SUB transmitters XR rolling code yellow |
| KSUB44MR | Kit 10 SUB transmitters XR rolling code magenta |
| KSUB44CR  | Kit 10 SUB transmitters XR rolling code red |
| KSUB44GR | Kit 10 SUB transmitters XR rolling code green |
| KSUB44WR | Kit 10 SUB transmitters XR rolling code white |
| KSUB44-R | 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

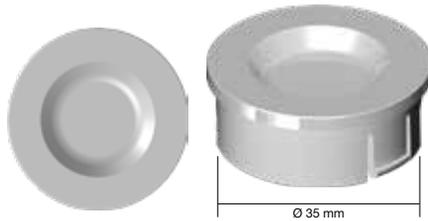
MODELS

| 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 RXM23K | MHz | 433,920 |
| reception frequency RXM28 | 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

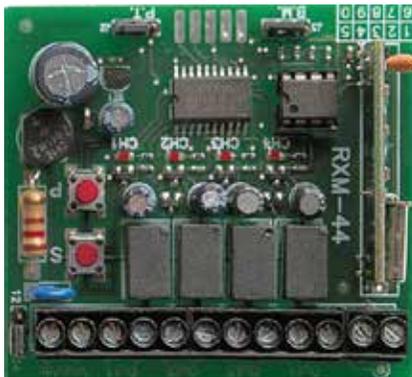
| | | |
|------------------------|----|--------------|
| protection degree | IP | 30 |
| dimensions (L - D - H) | mm | 85 - 40 - 25 |
| operating temperature | °C | -20 + 50 |

MODELLI

| CODE | DESCRIPTION |
|---------------|--|
| RXM23K | Universal receiver 2 channels, fix or rolling code, 1000 codes 433 MHz |
| RXM28 | 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 |
|----------------|--|
| RXM-44R | 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 ² | |
| 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

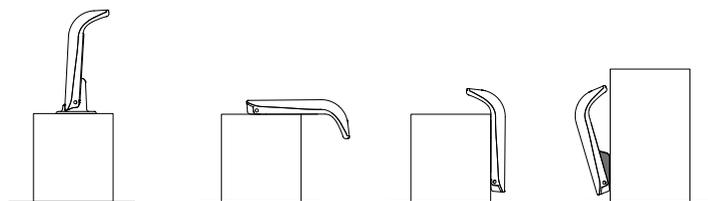


STAF089A00
Solar mounting bracket

PZ. 1

ECLIPSE

FULL LED FLASHING AND COURTESY LIGHT



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 high-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 |

LUMY

LAMPEGGIANTE



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 the-

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

PLUS

New logic circuit with improved performance

Snow function: photocell activates an adaptatively temporized mode, in case of frequent dimming or

darkening, to avoid false obstacles detection

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)

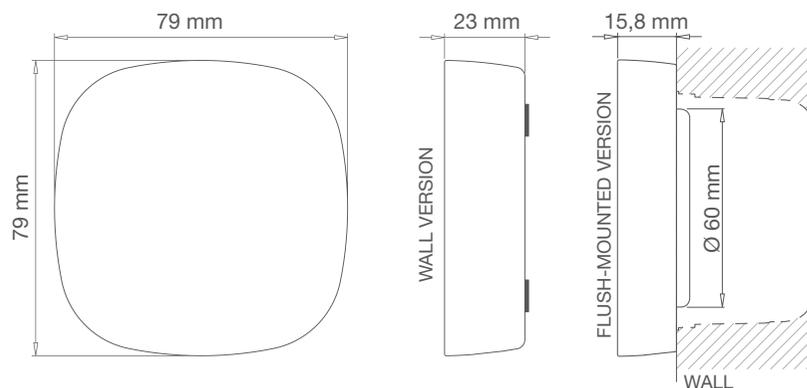
All-metal body or plastic base (EGS2)

New design coordinated with the new EGO keyboard

MODELS

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

DIMENSIONS



ACCESSORIES



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

PC 1

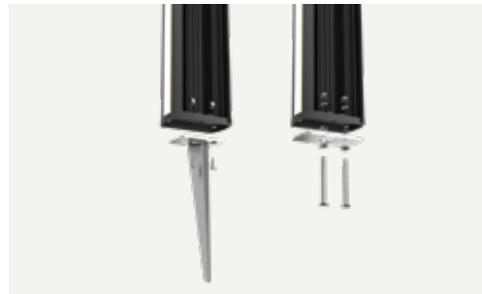


SUPP022A00
Flush-mounted back plastic cover

PC 1

TECHNICAL DATA

| | | EGKTB1 | EGKTB2 | EGKTR1/EGKTR2 | EGKD2 | EGKD3 | EGKD4 |
|--|---------|--|---------------|-----------------------|---|--------------|--------------|
| Power | Vac | BUS | BUS | 2 x batteries AAA 3 V | 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 | st-by 60 µW | 0,2 W | 0,2 W | 0,2 W |
| | Max | 1,5 W | 0,7 W | 150 mW | 1,5 W | 1,5 W | 1,5 W |
| Radio frequency | MHz | - | - | 433.920 | - | - | 433.920 |
| N° of outputs | | - | - | - | 2 | 2 | 2 |
| Maximum cable length | m | 50 m with 2x0,35 mm ² cable | | - | 50 m with 2x0,35 mm ² cable | | |
| N° of memorized codes | | 50 | 50 | - | 50 | 200 / 1000 | 50 |
| Max n° of devices connected to the PowerBUS line | | 10 | 10 | - | - | 10 | 10 |
| Relay characteristics | | - | - | - | Clean contact 50V 0,2A (resistive load) | | |
| Operating temperature | °C | -10 +55 | -10 +55 | -10 +55 | -20 +55 | -20 +55 | -20 +55 |
| Protection degree | IP | 55 | 55 | 55 | 30 | 30 | 30 |
| Configuration through Bluetooth and App | | NO | YES | NO | - | - | - |



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



ST1
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

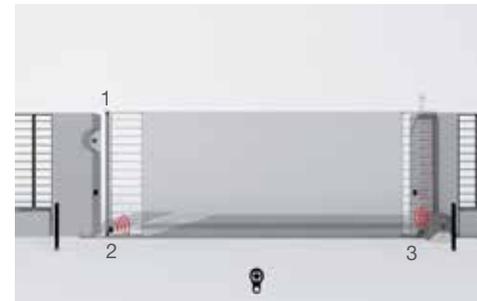
2 years battery lifetime (5 years with power saving mode)

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 |
|---------|---|
| 14AB2 * | Control unit in box for two 24Vdc motors (without DYL and without receiver RX4K) with transformer 250 VA |
| 14AB2F | 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 |
| MA24 | Logic mainboard |
| PO24 | Power module 24Vdc 10A |
| BOX250 | Box with transformer 250 VA |



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

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

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 programming

PC 1



KUBE
Wireless controlling module
for end user

PC 1



QUADRO
Night sensor

PC 1



ECLIPSE
Full LED flashing and courtesy
light

14AB2

14AB2F

ELECTRICAL DATA

| | | 14AB2 | 14AB2F |
|--------------------------|--------|--------|--------|
| 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 |

GENERIC DATA

| | | 14AB2 | 14AB2F |
|------------------------|----|-----------------|-----------------|
| 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

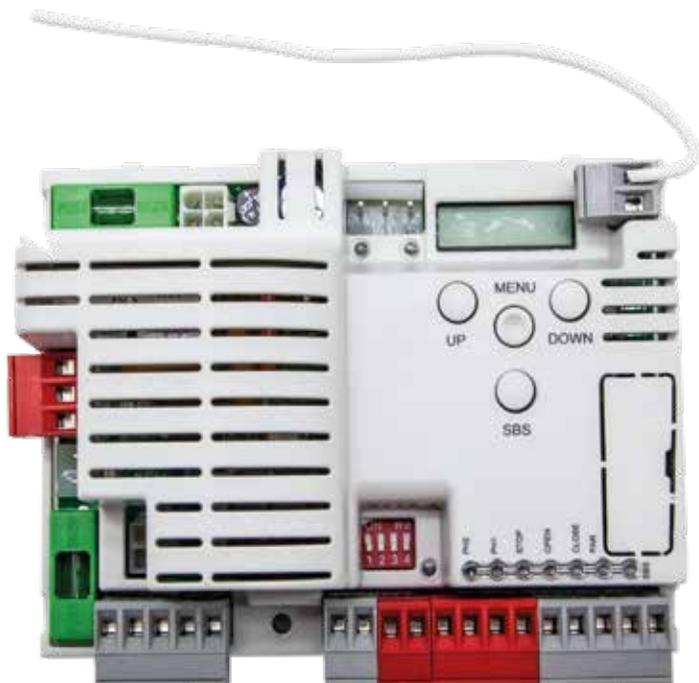
MODELS

| 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 |
|--------------------------|--------|-----------------|-----------------|
| ELECTRICAL DATA | | | |
| 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 |
| GENERIC DATA | | | |
| protection degree | IP | 54 | 54 |
| dimensions (L - D - H) | mm | 222 - 110 - 275 | 222 - 110 - 275 |
| operating temperature | °C | -20 + 55 | -20 + 55 |

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 | | |
|--------------------------|--------|---------------|
| ELECTRICAL DATA | | |
| 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 |
| GENERIC DATA | | |
| 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 |

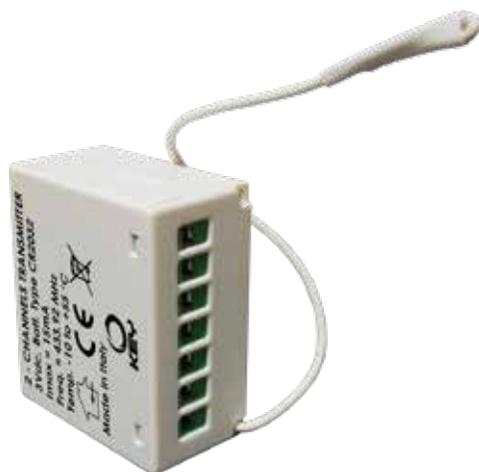
| | | CT202 |
|--------------------------|--------|-----------------|
| ELECTRICAL DATA | | |
| input power | Vac/Hz | 230/50 |
| output power accessories | Vac | 24 |
| | Vdc | 24 |
| max motor power | W | 700+700 |
| max working time | sec | adjustable |
| max pause time | sec | 0 - 900 |
| obstacle detection | | yes |
| GENERIC DATA | | |
| 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 |
|----------------------------|-----|---------------------------------------|--------------|
| ELECTRICAL DATA | | | |
| 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 |
| GENERIC DATA | | | |
| 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



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

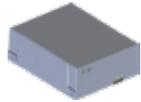
PZ. 1



TS
Table signage

PZ. 1

ACCESSORIES FOR 24 Vdc



KBP
Battery back-up kit

PZ. 1



KITFIXBATT
Fixing brackets for batteries

PZ. 1

PROGRAMMABLE FUNCTIONS

| motor power | 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 | | | • | | | | |

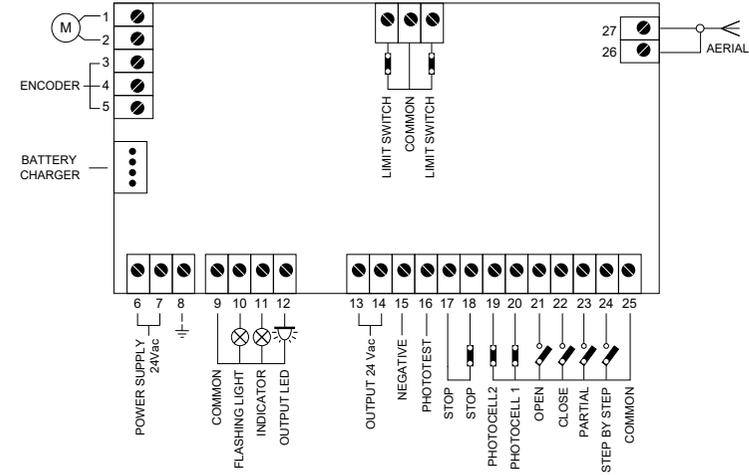
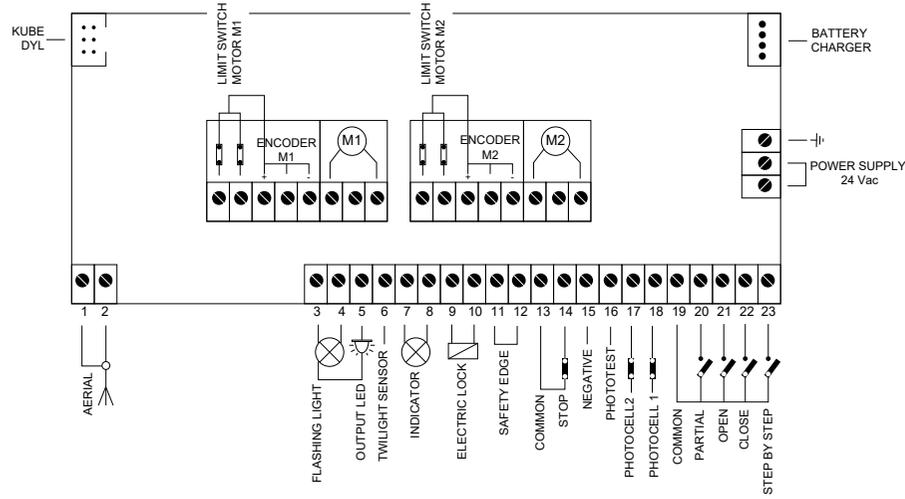
| | CT10324 | HALO | 14A | CT20324 | CT1RS | CT102B | CT202 | CT400 | CT401 |
|--|---------|------|-----|---------|-------|--------|---------|-------|-------|
| motors number | 1 | | 2 | | 1 | | 2 | | 1 |
| motor power | 24 Vdc | | | 230 Vac | | | 400 Vac | | |
| hold to run | • | | • | • | • | • | • | • | • |
| 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

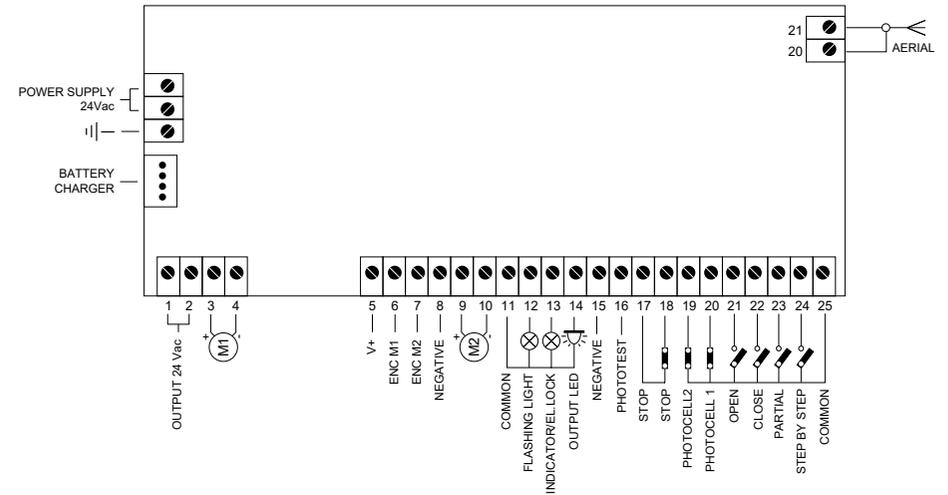
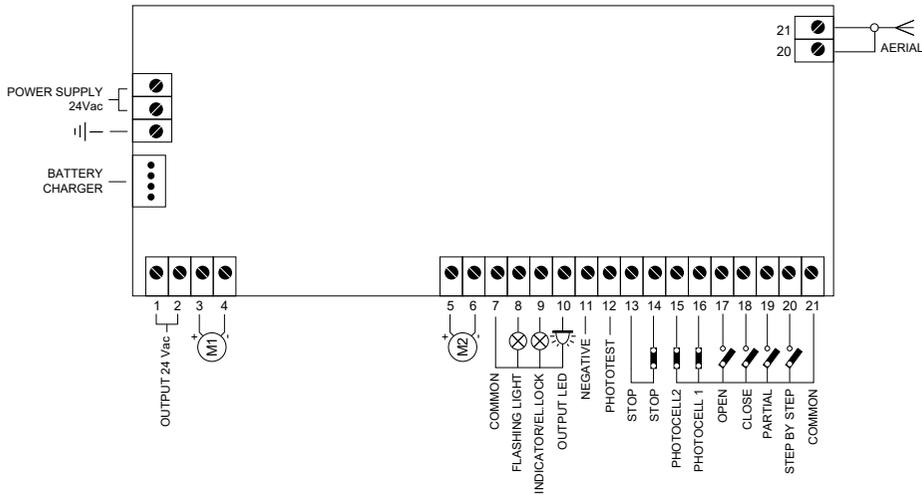
14A

CT10324



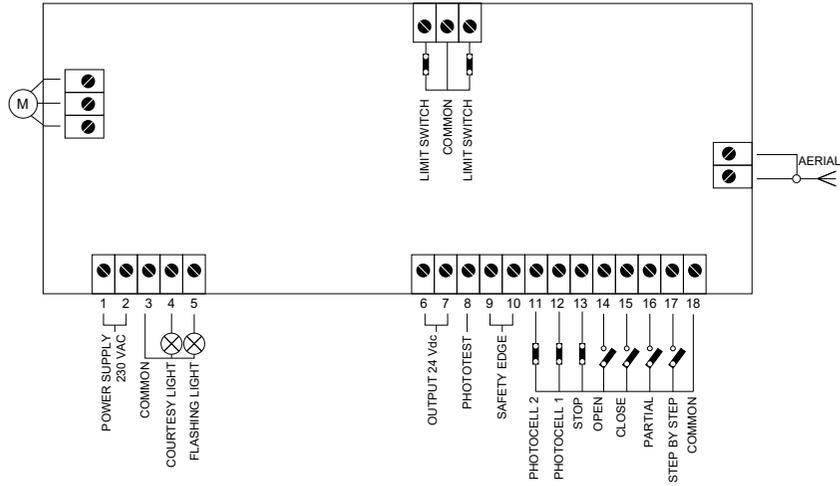
CT20324

CT20324E

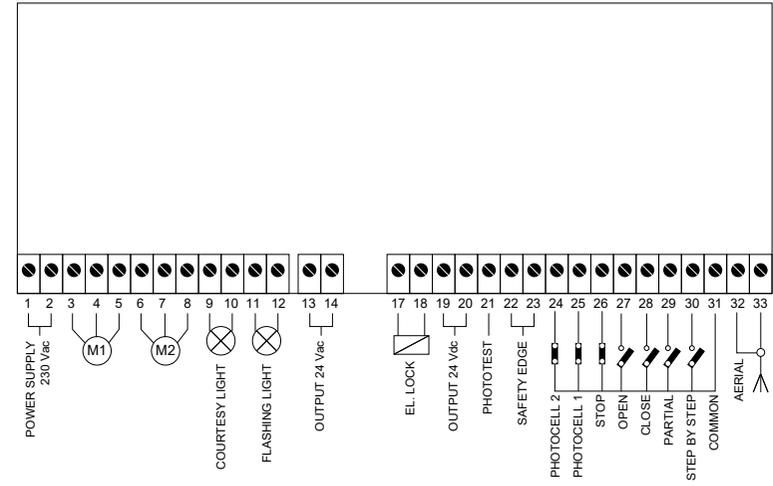


CONTROL UNITS ELECTRIC DIAGRAMS

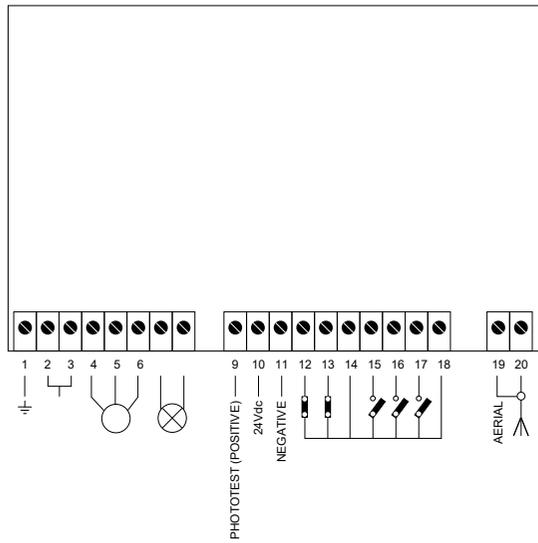
CT102B



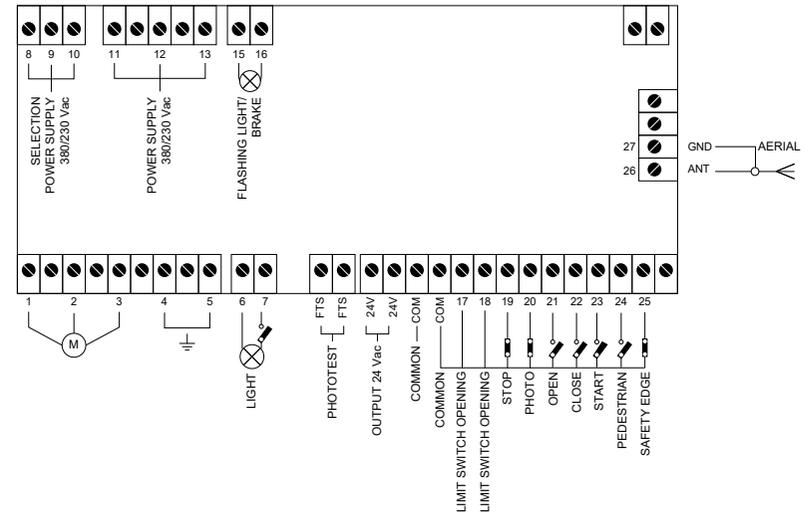
CT202



CT1RS

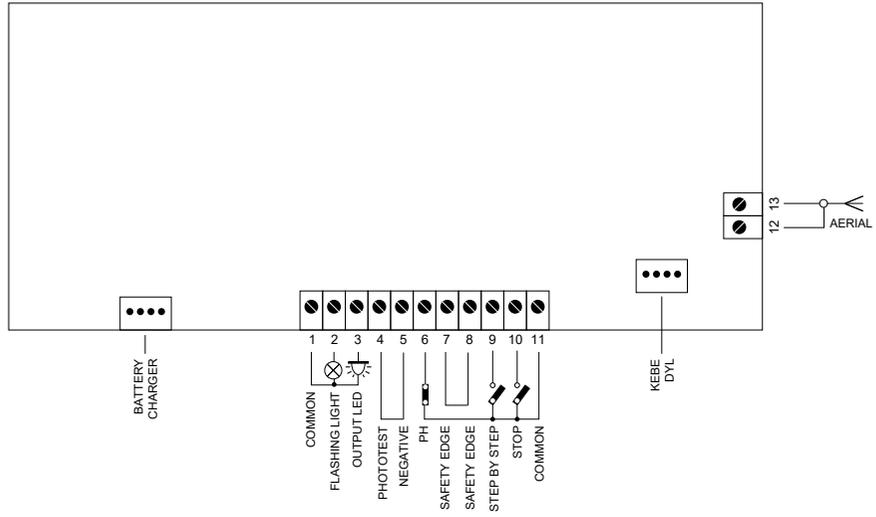


CT-400



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 | 98 |
| 14AB2F | 112 | BOXKEY | 121 | EG2 | 108 | FT43 | 105 | KRAY4224KS | 27 |
| 520STAF029A00 | 65 | BOXKEYS | 121 | EG3 | 108 | FT43B | 105 | KRAY2524EK | 26 |
| 550CABL045A00 | 65 | BS-50 | 68 | EG50 | 108 | GIUN | 110 | KRAY2524KK | 26 |
| AD | 90 | BS52 | 68 | EG100 | 108 | HA8 | 64 | KRAY3024FEK | 26 |
| ADFB | 23 | BS5324 | 68 | EG50L | 108 | HA12 | 64 | KRAY3024FKK | 25 |
| ADRB | 23 | CF3 | 45 | EG100L | 108 | HA12PP | 66 | KRAY4024EK | 26 |
| ADUN | 45 | CF3SB | 45 | EG100A | 108 | HA12SS | 66 | KRAY4024KK | 26 |
| ADWA | 23 | CI3 | 45 | EG100LA | 108 | HA8PP | 66 | KRAY4024R | 27 |
| ALT33F | 88 | COMB12 | 110 | EGKD2 | 107 | HA8SS | 66 | KRAY42ES | 27 |
| ALT43 | 88 | COMB18 | 110 | EGKD3 | 107 | HAL1S | 65 | KRAY42KS | 27 |
| ALT63 | 88 | COMRX | 111 | EGKD4 | 107 | HAL2 | 65 | KRAY4224ES | 27 |
| ANG | 110 | COMSC16 | 110 | EGKTB1 | 107 | HAL3 | 65 | KRAY4224KS | 27 |
| ANTS-433 | 104 | COMSC20 | 110 | EGKTB2 | 107 | HAL4 | 65 | KREP2024EK | 38 |
| APFX | 90 | COMSC25 | 110 | EGKTR1 | 107 | HAL5 | 65 | KREP2024KK | 38 |
| APM | 90 | COMTX | 111 | EGKTR2 | 107 | HAL6 | 65 | KREP2324ES | 39 |
| AS-SNO3 | 90 | CP-BR | 90 | EGS101 - EGS201 | 107 | HAL7 | 65 | KREP2324KS | 39 |
| AST3F | 90 | CP-BR6 | 90 | EGS102 - EGS202 | 107 | ILSUB | 97 | KRING | 97 |
| ASTL4 | 90 | CREM-8 | 51 | EGS103 - EGS203 | 107 | KBP | 121 | KTU4324ES | 58 |
| ASTL4J | 90 | CREM-12 | 51 | EGS104 - EGS204 | 107 | KBPN | 33 | KTU4324KS | 58 |
| ASTL5 | 90 | CREM-30 | 83 | EGS105 - EGS205 | 107 | KBS52PS | 70 | KSC52ES | 58 |
| ASTL6 | 90 | CT10324 | 114 | EGS106 - EGS206 | 107 | KBS5324PS | 70 | KSC52KS | 58 |
| ASTL6J | 90 | CT102B | 116 | EGS107 - EGS207 | 107 | KC | 23 | KSC82ES | 58 |
| ASTL8 | 90 | CT1RS | 117 | EGS108 - EGS208 | 107 | KCOMW | 111 | KSC82KS | 58 |
| BAT-3 | 105 | CT202 | 118 | EGS109 - EGS209 | 107 | KCS | 51 | KSN5024B | 40 |
| BC | 69 | CT20324 | 115 | EGS110 - EGS210 | 107 | KFE | 41 | KSN50B | 40 |
| BD | 69 | CT20324E | 115 | ELS-C | 23 | KITFIXBATT | 23 | KSN52ES | 42 |
| BDBOC | 41 | CT-400 | 120 | EXRB | 23 | KLIGHT4 | 90 | KSN52KS | 42 |
| BDNS | 69 | CTLIGHT2 | 108 | FC-PS | 77 | KLIGHT6 | 90 | KSTAR3324ES | 32 |
| BMET | 127 | DYL | 113 | FCRAY | 23 | KLIGHT8 | 90 | KSTAR3324KS | 32 |
| BOC | 69 | ECLIPSE | 103 | FT23 | 105 | KPLAY4F | 98 | KSUB44BR | 97 |

ALPHABETICAL LIST

| CODE | P. | CODE | P. | CODE | P. | CODE | P. | CODE | P. |
|-------------|----|------------|-----|------------|-----|------------|-----|---------|----|
| KSUB44OR | 97 | LOOP2 | 90 | REP2024S | 34 | STAF032A00 | 23 | TZ-1500 | 69 |
| KSUB44PR | 97 | LUMY-230 | 104 | REP2324 | 36 | STAF089A00 | 102 | TZ-2000 | 69 |
| KSUB44YR | 97 | LUMY-230E | 104 | REP2224S | 36 | STANAV | 77 | UND | 44 |
| KSUB44MR | 97 | LUMY-24 | 104 | REV3 | 35 | STAR3024 | 30 | UND10 | 44 |
| KSUB44CR | 97 | MA24 | 112 | RN800 | 51 | STPOAVS | 77 | UND24 | 44 |
| KSUB44GR | 97 | MUR-P | 105 | RX2H | 119 | SUB44F | 96 | UND24E | 44 |
| KSUB44WR | 97 | OP100 | 45 | RX4K | 100 | SUB44WF | 96 | UND24F | 44 |
| KSUB44-R | 97 | PF30W | 102 | RX8 | 100 | SUB44N | 96 | VIP1 | 66 |
| KSUN11024EK | 55 | PO24 | 112 | RXM23K | 101 | SUB44R | 96 | | |
| KSUN11024KK | 55 | PROFT | 90 | RXM28 | 101 | SUB44WN | 96 | | |
| KSUN4024EK | 54 | PROFT6 | 90 | RXM-44R | 101 | SUB44WR | 96 | | |
| KSUN4024KK | 54 | PROFT8 | 90 | RUEL004A00 | 83 | SUB84WR | 96 | | |
| KSUN4024TW | 55 | PS400-24FA | 76 | SB3 | 45 | SULU | 104 | | |
| KSUN4324ES | 55 | PS-400FA | 76 | SBCO | 65 | SUN11024 | 50 | | |
| KSUN4324KS | 55 | QUADRO | 66 | SBLEXT | 41 | SUN11224M | 52 | | |
| KSUN5024FEK | 54 | RAB31 | 64 | SBLST | 65 | SUN4024 | 50 | | |
| KSUN5024FKK | 54 | RAB3X1P | 64 | SC162 | 80 | SUN4324 | 50 | | |
| KSUN7024EK | 54 | RAB41 | 64 | SC202MHD | 82 | SUN5024F | 50 | | |
| KSUN7024KK | 54 | RAB61 | 64 | SC252M | 82 | SUN7024 | 50 | | |
| KSUN7324ES | 55 | RAL31 | 64 | SC400M | 84 | SUN7324 | 52 | | |
| KSUN7324KS | 55 | RAL41 | 64 | SC4434 | 56 | SUPP022A00 | 107 | | |
| KTU7224ES | 58 | RAY2224 | 24 | SC52 | 56 | TAG | 121 | | |
| KTU7224KS | 58 | RAY2524 | 22 | SC82 | 56 | TAP | 110 | | |
| KUBE | 95 | RAY2524E | 22 | SC-EF | 83 | TO1M | 99 | | |
| KUBEPRO | 94 | RAY3024F | 22 | SKIRT2 | 90 | TO1U | 99 | | |
| KUND2ES | 46 | RAY40 | 24 | SN50DX | 40 | TO2M | 99 | | |
| KUND2KS | 46 | RAY4024E | 22 | SN50SX | 40 | TO2MP | 99 | | |
| KUND3024EK | 46 | RAY4224E | 24 | SN5024DX | 40 | TS | 121 | | |
| KUND3024KK | 46 | REV1 | 35 | SN5024SX | 40 | TU7324 | 56 | | |
| KVIPLDFW | 66 | REV2 | 35 | SOLEAU | 102 | TWIN | 51 | | |
| LEVA008A00 | 41 | REP2024 | 34 | ST2000 | 69 | TX2B | 119 | | |

GENERAL TERMS AND CONDITIONS OF SALE

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

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 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

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>.





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