RAY

ELECTROMECHANICAL SWING GATE
MOTORS WITH INTERGRATED NIGHT
LIGHT SYSTEM

KEY
AUTOMATION

RAY

UP TO 4 M, 24 VDC WITH INTEGRATED NIGHT LIGHT SYSTEM
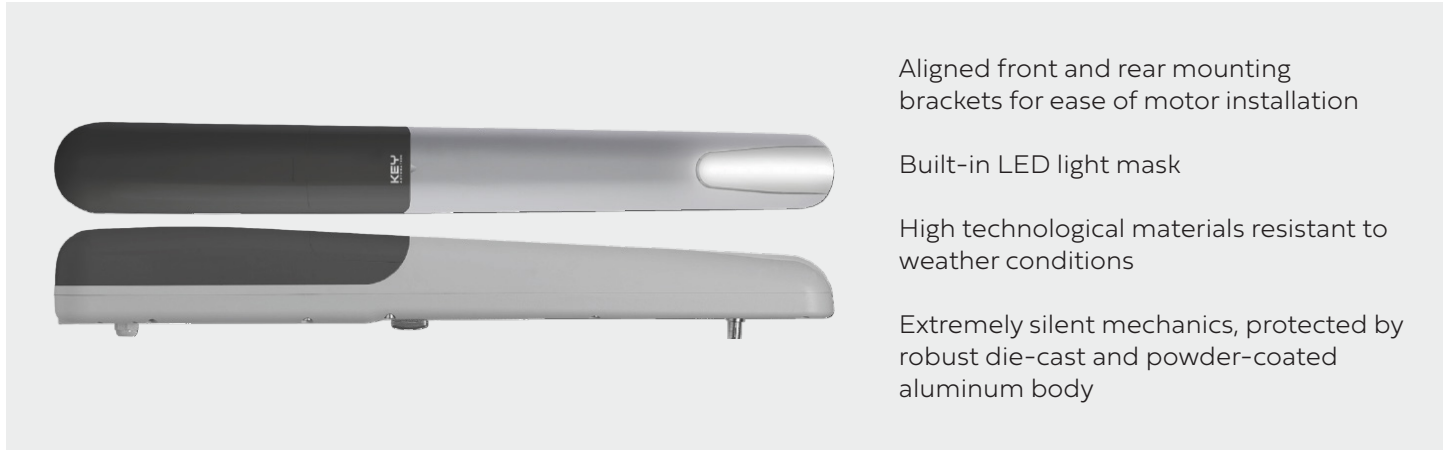
Aligned front and rear mounting brackets for ease of motor installation

Built-in LED light mask

High technological materials resistant to weather conditions

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

NIGHT LIGHT SYSTEM

Concept that combines the comfort of an automatic gate with the use of LED lighting to illuminate your entrance over night
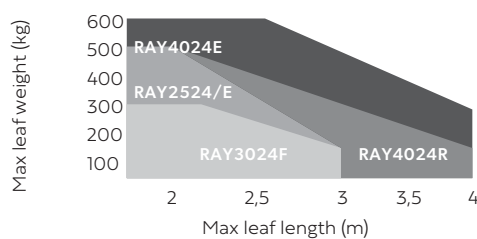
NEW LED

+ **SAFETY** Ease the night vision
+ **COMFORT** Defines the driveway passage during the night
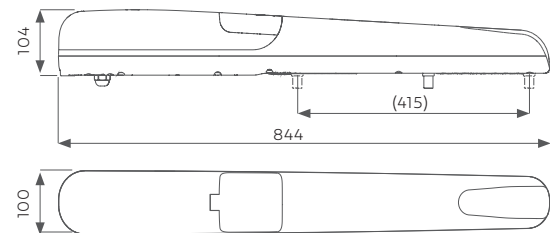+ **SAVING** Allows lower power consumption

MODELS

CODE	DESCRIPTION
RAY2524	For swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor. Residential use
RAY4024E	For swing gates with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor, with encoder. Residential use

LIMIT USE

Max leaf weight (kg) / Max leaf length (m)

RAY4024E
RAY2524/E
RAY3024F
RAY4024R

DIMENSIONS

104 — 844 — (415)
100

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.

KITS WITH NIGHT LIGHT SYSTEM

CODE	DESCRIPTION
KRAY2524	Kit for double swing gates with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor. Control board 14A. Residential use
KRAY2524S	Kit for single swing gate with maximum length 3 m or max weight 500 kg per leaf, 24 Vdc motor. Control board 14A. Residential use
KRAY4024	Kit for double gates with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor. Control board 14A. Residential use
KRAY4024S	Kit for single swing gate with maximum length 4 m or max weight 600 kg per leaf, 24 Vdc motor. Control board 14A. Residential use

TECHNICAL DATA

MECHANICAL DATA		RAY2524	RAY4024
speed	cm/s	2,6	2,6
pulling force	N	1500	2000
cycles/hour **		40	40
opening time at 90°	sec	18-25*	20-25*
ELECTRICAL DATA			
control board		14AB	14AB
power	Vdc	24	24
consumption	A	3,5	5
absorbed power	W	85	120
integrated lights		yes	yes
GENERIC DATA			
protection degree	IP	44	44
dimensions (L - D - H)	mm	844 - 100 - 104	
weight	kg cad	8,01	9,3
working temperature	°C	-20 + 55	-20 + 55
leaf maximum weight	kg	500	600

* With optimal installation dimensions.
** The cycles now indicated are intended with a non-paneled door at an ambient temperature of 20 °C.
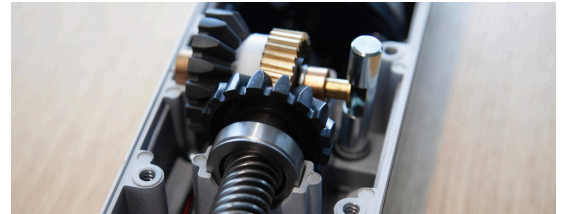
ACCESSORIES

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

ELS-C 12 V horizontal electric lock. Up to 2000 kg

KBP Kit of 1.3Ah lead battery and battery charger

KITFIXBATT Fixing brackets for batteries 24V

550CABL045A00 * Special cable for Eclipse flash light RG174 50 Ohm + 4 × 0,50 mm² (100m)

EXRB Extension bracket for opening outwards

STAF032A00 Adapting rear bracket

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

KUBE PRO Wireless module for programming

KUBE Wireless controlling module for end user

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

14AB2 Control unit in box for two 24 Vdc motors

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

SEL-R Wireless keypad transmitter, 433MHz

EGKTR1 Wireless keypad transmitter, EGO series 433MHz

TO1M 1-channel touch transmitter, rolling code 433Mhz

SUB remotes Water and dust resistant 433MHz transmitters, rolling code

FT43 Pair of photocells for external use adjustable through 180

KSOLAU Solar kit, includes 30W panel, recharge unit in enclosure, mounting brackets and batteries
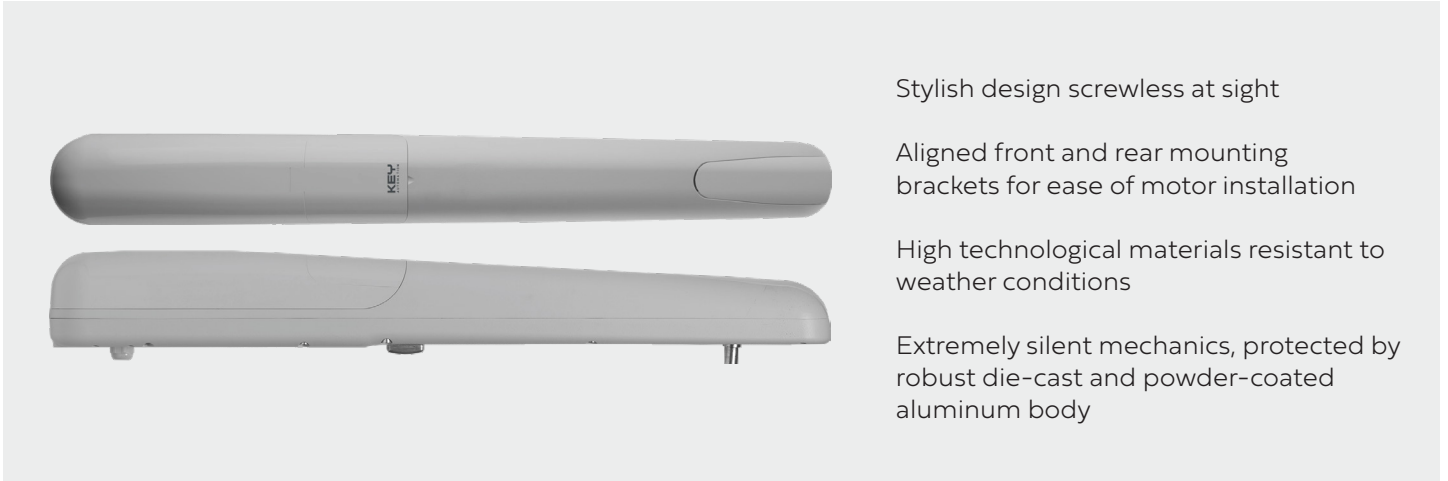
SPLIT24V Low Voltage box

EG100LA 100cm post with LED and houses accesorries

STIKDD Outdoor lighting range, downward facing

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

RAY

UP TO 3 M, 24 VDC

- Stylish design screwless at sight

- Aligned front and rear mounting brackets for ease of motor installation

- High technological materials resistant to weather conditions

- Extremely silent mechanics, protected by robust die-cast and powder-coated aluminum body
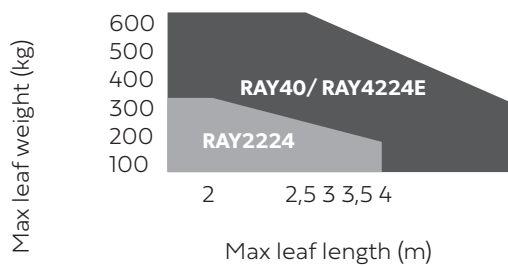
CONTROL UNIT CT20324

+ **CT20324** New 5-character / 16-segment display for more natural and intuitive reading
+ **KUBEPRO** Optional programming with KUBE PRO wireless module (from Firmware version 2.0 and new smartphone app to be released in July 2024).
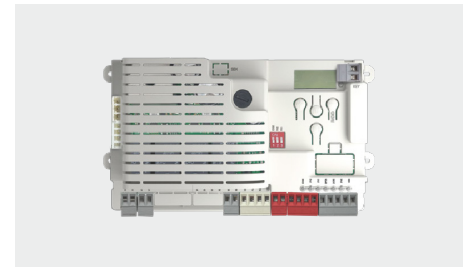
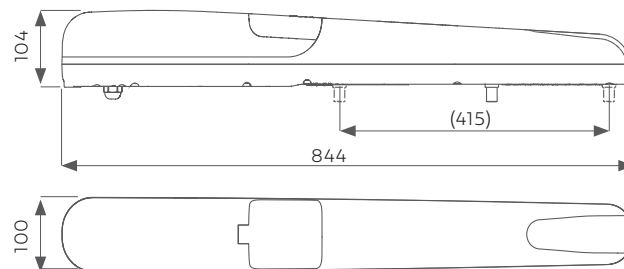## MODELS

	CODE	DESCRIPTION
24 V	**RAY2224**	For swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor. Residential use

LIMIT USE

Max leaf weight (kg)

600
500
400
300
200
100

RAY40/ RAY4224E

RAY2224

2   2,5 3 3,5 4

Max leaf length (m)

DIMENSIONS

104

(415)

844

100

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.

KITS WITHOUT NIGHT LIGHT SYSTEM

	CODE	DESCRIPTION
24 V	**KRAY2324**	Kit for double swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor. Control board CT20324. Residential use
24 V	**KRAY2324S**	Kit for single swing gates with maximum length 3 m or max weight 300 kg per leaf, 24 Vdc motor. Control board CT20324. Residential use

TECHNICAL DATA

		RAY2224
MECHANICAL DATA		
speed	cm/s	2,6
pulling force	N	1500
cycles/hour**		40
opening time at 90°	sec	18-25*
ELECTRICAL DATA		
control board		CT20324
power	Vac	-
	Vdc	24
consumption	A	3,5
absorbed power	W	85
capacitor	μF	-
thermoprotection	°C	-
GENERIC DATA		
protection degree	IP	44
dimensions (L - D - H)	mm	844 - 100 - 104
weight	kg cad	8
working temperature	°C	-20 + 55
leaves maximum weight	kg	300

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

ELS-C 12 V horizontal electric lock. Up to 2000 kg

KBP Kit of 1.3Ah lead battery and battery charger

KITFIXBATT Fixing brackets for batteries 24V

550CABL045A00 * Special cable for Eclipse flash light RG174 50 Ohm + 4 × 0,50 mm² (100m)

EXRB Extension bracket for opening outwards

STAF032A00 Adapting rear bracket

RP24K Reflective photocells for external use.

KUBE PRO Wireless module for programming

KUBE Wireless controlling module for end user

KPLAY4R 4 button 433MHz transmitter, suited for car visors

CT20324 Control unit in box for two 24 Vdc motors

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

SEL-R Wireless keypad transmitter, 433MHz

EGKTR1 Wireless keypad transmitter, EGO series 433MHz

TO1M 1-channel touch transmitter, rolling code 433Mhz

SUB remotes Water and dust resistant 433MHz transmitters, rolling code

FT43 Pair of photocells for external use adjustable through 180

KSOLAU Solar kit, includes 30W panel, recharge unit in enclosure, mounting brackets and batteries

SPLIT24V Low Voltage box

FT43B Pair of photocells for external use through 180, battery

FT33 Pair of photocells for external use.

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

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