PRODUCT CATALOGUE 2024

NEWS

CLICK

cardin®

riello elettronica group

MADE IN ITALY SINCE 1974

cardin®
riello elettronica group



Creativity, far-sightedness, the will to take risks, pride, fatigue, daring, determination, enthusiasm, sharing, intuition, teamwork, tradition, contiguity with art, memory. Many are the ingredients that go to make a product, an Italian product. Every Cardin product is conceived and made in Italy.

THIS IS CERTAINLY CARDIN ELETTRONICA

Every company is a unique world… welcome to ours.

1974 sees the start of our story. But already the precise guide lines are laid out, concrete and without abstraction, based on entrepreneurial values that still hold true today: respect for those who collaborate with us and for the environment that surrounds us. Trust in the people, in the projects and in the future. The desire to produce systems for automation and access control using selective materials, catalysing the best of our area in terms of competence, experience and the need for excellence. That very same excellence that allowed us to become part of the Riello Elettonica Group in 2011 giving further vent to and opening up horizons for our values.

In 2014 the company obtained ISO 45001 certification (the international standard for health and safety at work) which it has maintained up to date.

From today onwards Cardin Elettronica is expanding and diversifying considerably. Since the merger with Telcoma in 2014, the company has taken a further step forwards, presenting a new unified product catalogue, the fruit of careful selection and the strengthening of both the original product ranges. We forge ahead always bearing in mind our history and roots, conscience of the fact that we are creating solutions for automatic devices and remote control systems that will stand out for their efficiency, style and innovation. We are certain you'll like the outcome.



Pierantonio Riello and Cristiano Cardin inaugurate the new facilities (2013).

SAFETY SYSTEM CERTIFICATION
DNV·GL
ISO 45001

CE

CARDIN is part of a larger world

riello elettronica

www.riello-elettronica.it

The Riello Elettronica group today is made up of thirty companies with seven production plants located throughout the world and competes globally in different areas of business. The POWER area, the core business, deals with energy conversion and the manufacturing of interruptible power supplies (UPS) as well as solar energy conversion systems (inverters). Cardin Elettronica leads the AUTOMATION area offering solutions for the automation and remote control of closing, safety and security systems. The SAFETY & SECURITY area is made up of businesses creating anti-intrusion, fire detection and demotics solutions as well as solutions guaranteeing the safety of employees working in machine production etc. All the companies in the group work together to offer innovative solutions aimed at markedly improving the work and the quality of life of everybody.

30
COMPANIES

7
PRODUCTION PLANTS

85
COUNTRIES

1250
EMPLOYEES

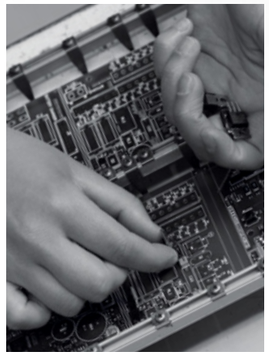
400M
REVENUE IN EURO

cardin®
riello elettronica group

Cardin jealously guards its identity, built over the years, founded on effective choices and rewarding relationships, the satisfaction of those working within the company and those collaborating externally: installers and end users. In a transversal yet firm way, Cardin have consolidated a personal area of values over a period of time which has smiled favourably on the choices made, giving their products a way of being which has made them user friendly and allowed them, with sincerity and without presumption to become part of our everyday objects. Being part of a group does not lead to a dilution of one's history, rather, it reinforces one's ideas with the objectives of having greater possibility for comparison, greater stimulus for research and a wider field of vision projected towards the future.

NEWS 2023

DESIGN....DEVELOP....UPGRADE....PRODUCE









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SERIES BLGRIFFE 62...65, 71...73

SERIES HLXCORE 100...107

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ACCESS CONTROL 182...183

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S449-S486 200... 201

RADIOSHIELD 224...225

INFRARED BARRIERS 236...237, 241



Regulations make us stronger and safer

This digital palm device for measuring static and dynamic force, sums up and personifies our know how, and our desire to be better.

The device confers the secure knowledge that every installation has been carried out in conformity with the European standards.

Great force under control with feather light precision.



www.cardin.it

SUMMARY

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KEY TO THE SYMBOLS

- 24V — Motors powered by 24Vdc
- 20s 90° — Opening time 90°
- OC — Multi-decoding open collector
- Intensive use
- 110° max — Maximum opening angle
- Network interface
- Oil bath system
- 5m max — Maximum gate length
- RFID — Wireless memory
- Hydraulic system
- 3m — Maximum boom length
- Transceiver
- Magnetic encoder control
- 2,7m h-max — Maximum door height
- 128 PIX — Graphic LCD display
- Opening and closing deceleration system
- 12 m² — Maximum door surface area
- Sun Power
- HI-SPEED — Variable high speed
- 6 s — Opening time
- Real-time clock
- C° — Temperature detection
- PRG — Built-in programmer
- Built-in radio receiver card
- Self-locking motor
- Self-learning
- app — Cardin App
- REV — Reversible motor
- Built-in batteries
- SYNCRO — Synchronism with multiplex transmission
- M/S — Master - Slave setting
- + − NiMH — Built-in NiMH batteries
- Bluetooth compatible
- Pre-wired connection cable
- CLASS 3 — Class 3 product
- 1500 kg — Maximum gate weight
- Multi-decoding



AUTOMATION

14
AUTOMATION FOR SLIDING GATES

A complete line of products driving gates of all dimensions. Extremely compact and fitted with a complete range of equipment, these devices integrate seamlessly into all types of gates and are resistant to atmospheric agents.

46
IN-BUILT AUTOMATION FOR SLIDING GATES

A line of products dedicated to the manufacturers of mass-produced industrial sliding gates.

54
HINGED ARM AUTOMATION FOR SWING GATES

Particularly suited for installations even with oversize columns, and unaligned hinges. They also allow particular installations where the opening direction of the gate is contrary to the position of the motor. They integrate seamlessly into the structure of the gate whilst safeguarding its aesthetic aspect.

74
WORM SCREW AUTOMATION FOR SWING GATES

Particularly suited for installations with columns of all dimensions (even extremely reduced):
Easy to fit without requiring brickwork, the products offer excellent service with regard to the number of manoeuvres.

98
UNDERGROUND AUTOMATION FOR SWING GATES

Particularly suited for installations that do not allow column installations or where the automation has to be completely hidden.

108
IN-BUILT AUTOMATION FOR SWING GATES

A line of products dedicated to the manufacturers of mass-produced industrial swing gates.

114
AUTOMATION FOR COUNTERBALANCED GARAGE DOORS

Easily fitted to all types of counterbalanced garage doors they maintain the aesthetic aspect whilst retaining their mechanical prowess. A balanced choice for perfect service.

124
CHAIN GUIDED AUTOMATION FOR SECTIONAL DOORS

Tirelessly they accompany the door throughout its entire course getting the best performance and protecting it throughout time.

130
AUTOMATION FOR ROLLING SHUTTERS AND ROLL-UP GARAGE DOORS

Versatile and easy to mount these Cardin motors for rolling shutters are valid and efficient instruments that guarantee a rapid and secure installation.

138
AUTOMATION FOR ROAD BARRIERS

Pure efficiency and complete performance.
They are impeccable in their movement and it's a pleasure to observe them even when at rest.

154
ELECTROMECHANICAL SELF-POWERED PARKING PLACE PROTECTION

Robust protection for your parking place with silent electronic movement. This device blends itself seamlessly into any architectonic context.

156
COMPLEMENTARY EQUIPMENT. AUXILIARY SAFETY DEVICES

Aluminium columns for fastening photoelectric cells, key operated switches and various accessories.
Safety edges guaranteeing the safety of every installation.



AUTOMATION FOR SLIDING GATES

RAPID SELECTION GUIDE 16

CARDIN AUTOMATION SL
MASTER AUTOMATION 24V-230V 20

CARDIN KIT SL
MASTER AUTOMATION 24V-230V 40

RAPID GUIDE

SLIDING GATES

SL

MASTER AUTOMATION

500 kg · 24V

CARDIN AUTOMATION

(optional SL524)



SL524



SL524CB

SLX624

MASTER AUTOMATION

24V · 128 PIX · 600 kg

CARDIN AUTOMATION

(optional SLX624)



SLX624



SLX624CB

RAPID GUIDE

SLIDING GATES

SLX

MASTER AUTOMATION

CARDIN AUTOMATION

24V · M/S · 128 PIX · NiMH (optional) · REV · C° · HI-SPEED

800 kg



SLX824CB

1200 kg



SLX1224REV

1000 kg · 2000 kg



SLX24DRACO/2

1500 kg



SLX1524CB

3000 kg



SLX3024CB

RAPID GUIDE

SLIDING GATES

SLACE

MASTER
AUTOMATION

(optional)

NiMH

CARDIN AUTOMATION

24V

300 kg



SLACEFAST

24V

600 kg



SLACE601

RAPID GUIDE

SLIDING GATES

SLEVO

MASTER
AUTOMATION

CARDIN AUTOMATION

230V

600 kg



SLEVO600

800 kg



SLEVO800

1200 kg



SLEVO1200

SLi

IN-BUILT SLAVE
AUTOMATION

CARDIN INSIDE

24V

HI-SPEED

300 kg



SLi324

700 kg



SLi724

1000 kg



SLi1024

1000 kg

2000 kg



SLi24DRACO/2

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

CARDIN AUTOMATION SERIES SL

A “complete machine” which contains all the electronic and mechanical components required to manage gate positioning and the safety functions of the installation. The system of programming has been simplified by the addition of a sequential menu, shown (in six different languages) on an LCD and activated by three buttons housed in the protective covering. SL524 is fitted with a direct current motor backed up by a finely tuned double gear kinematic system with integrated flexible coupling which reduces the stress on the motor and structure caused by the movement of gates.

Self-locking electromechanical automation system with a low voltage motor for residential sliding gates with a maximum weight of 500kg. The easily installed motors can be fitted either to the left or to the right of the passageway and can be applied to both new and already existing installations.

The use of low voltage motors increase the performance, guarantee high efficiency, long life and silent running.

The integrated programmer allows encoder-controlled gate positioning and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

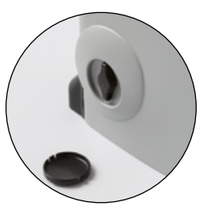
Compatible with the system INTPRG-3G/WF that allows the system parameters to be controlled and programmed remotely.

Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508). By default the devices are supplied with a 433MHz RF module and the S504 / S508 series memory module inserted. To control the device with S449 transmitters, insert the ZGB24LC16-I / P memory module (supplied with the device) and consult the relevant section. For the S508 / S486 series purchase and insert the 868Mhz RF module.



Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



MANUAL RELEASE SL524



TWO-PIECE ALUMINIUM CASING



ACCESSING THE ECU



GRAPHIC LCD DISPLAY



MEMORISING TRANSMITTERS

CARDIN AUTOMATION SERIES SL

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

The automation is made up of a self-locking gear motor controlled by magnetic encoder with an in-built:

- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger;
- NiMH batteries.

The electronic programmer is factory fitted with a graphic LCD display (16 digits x 2 lines) in six different languages that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting and transmitter code management etc.

The appliance is fitted with a safe and secure manual release system with a personalised knob (supplied with the appliance).

SL524CB

500 kg — + − NiMH

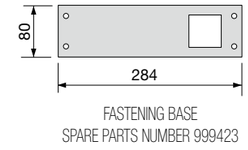
(drag speed max. **9,2** m/min)



SL524

500 kg

(drag speed max. **9,2** m/min)



FASTENING BASE
SPARE PARTS NUMBER 999423

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

CARDIN AUTOMATION SERIES SLX624

A “complete machine” which contains all the electronic and mechanical components required to manage gate positioning and the safety functions of the installation. The system of programming has been simplified by the addition of a sequential menu, shown (in six different languages) on an LCD and activated by three buttons housed in the protective covering.

SLX624 is fitted with a powerful direct current motor backed up by a finely tuned double gear kinematic system which reduces the stress on the motor and structure caused by the movement of gates.

Self-locking electromechanical automation system with a low voltage motor for residential sliding gates with a maximum weight of 600kg. The easily installed motors can be fitted either to the left or to the right of the passageway and can be applied to both new and already existing installations.

The use of low voltage motors increase the performance, guarantee high efficiency, long life and silent running.

The integrated programmer allows encoder-controlled gate positioning and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

Compatible with the system INTPRG-3G/WF that allows the system parameters to be controlled and programmed remotely.

Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508). By default the devices are supplied with a 433MHz RF module and the S504 / S508 series memory module inserted. To control the device with S449 transmitters, insert the ZGB24LC16-I / P memory module (supplied with the device) and consult the relevant section. For the S508 / S486 series purchase and insert the 868Mhz RF module.

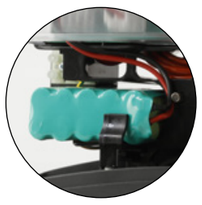


Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

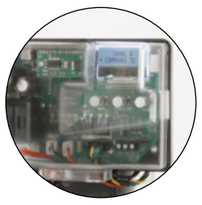
See section 24V ECU INTERFACE DEVICES on page 178


MANUAL RELEASE SYSTEM


RAPID ANCHORING SYSTEM


NIMH BATTERIES AND BATTERY CHARGE


MEMORISING TRANSMITTERS


ECU PROTECTION

CARDIN AUTOMATION SERIES SLX624

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

The automation is made up of a self-locking gear motor controlled by magnetic encoder with an in-built:

- 433MHz FM receiver;
- slot-in battery charger (SLX624CB);
- NiMH batteries (SLX624CB).

The electronic programmer is factory fitted with a graphic LCD display (16 digits x 2 lines) in six different languages that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting and transmitter code management etc.

The appliance is fitted with a safe and secure key-operated manual release system protected by a plastic access door.

SLX624

600 kg · 128 PIX

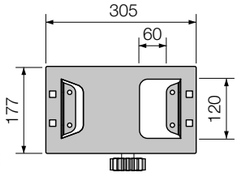
(drag speed max. **15** m/min)



SLX624CB

600 kg · 128 PIX · + − NiMH

(drag speed max. **15** m/min)



FASTENING BASE
SPARE PARTS NUMBER 9995013

CARDIN AUTOMATION SERIES SL-SLX624

GEAR RACK
in nylon reinforced with glass fibre with a steel core for sliding gates up to 500kg.

VERSION WITH 4 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CRENY1



GEAR RACK
in polyamide with a steel core for sliding gates up to 800kg.

VERSION WITH 6 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CREMP

VERSION WITH 6 UPPER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CRENY



CARDIN AUTOMATION
SERIES SL-SLX624

GEAR RACK
in galvanised steel for industrial installations up to 3000 kg.

VERSION TO BE SOLDERED
22mm x 22mm, M4, 2m pieces. **SLOAC**

VERSION WITH FASTENING SLITS
30mm x 12mm, M4, 1m pieces. **SLOAC2**



SPEED CONTROLLER
The device should be fitted to the gear rack in alignment with the motor in order to recuperate the correct sliding action of the gate in installations that are slightly inclined. **RVS**



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the SL524 unit to work during blackouts. **KBNIMH-1**

KIT BATTERY CHARGER + NIMH BATTERIES
Allows the SLX624 unit to work during blackouts. **KBNIMH-5**



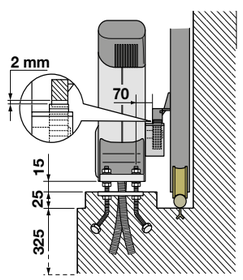
DATA INTERFACE MODULE VIA CABLE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function. **MODCA**



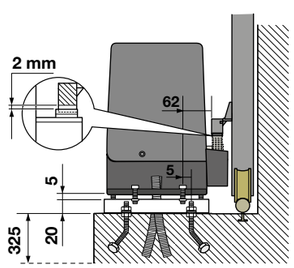
BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO. **MODBT**



POSITIONING THE UNIT



SL524
SL524CB



SLX624
SLX624CB

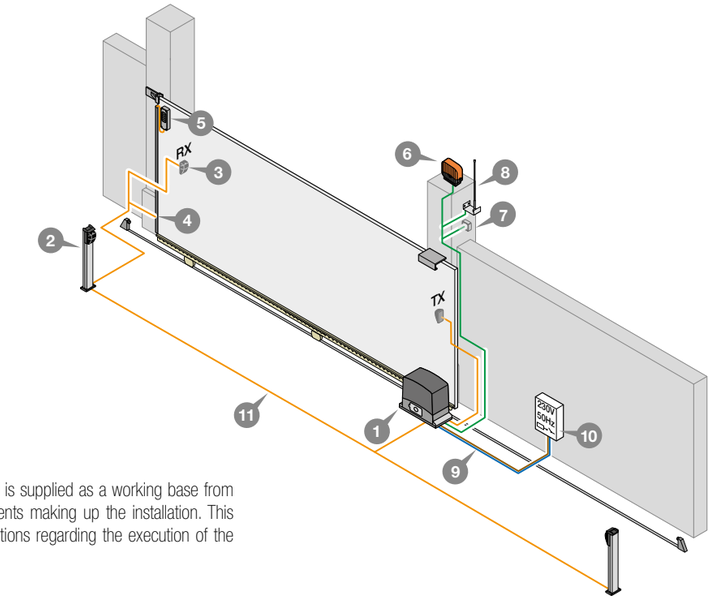
AUTOMATION

CARDIN AUTOMATION
SERIES SL-SLX624

INSTALLATION EXAMPLE

LEGEND

1 Geared motor
2 Internal photocells
3 External photocells
4 Safety edge
5 Radioshield
6 Warning lights
7 Mechanical selector switch
8 External aerial
9 Mains cable 230Vac
10 All pole circuit breaker
11 Channelling route for low voltage wires

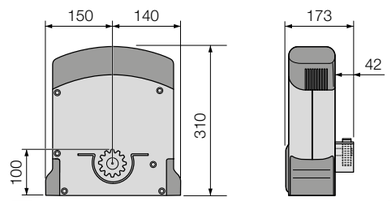


Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

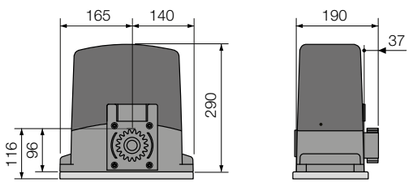
TECHNICAL DATA

GENERAL CHARACTERISTICS		SL524/SL524CB	SLX624/SLX624CB
Power supply	Vac	230	230
Frequency	Hz	50	50
Nominal electrical input	A	0,75	0,75
Power input	W	170	170
Duty cycle	%	70	70
Drag speed	m/min	9,2	15
Torque max.	Nm	42	20
Operating temperature range	°C	-20°…+55	-20°…+55
Protection grade	IP	44	44
MOTOR DATA			
Motor power supply	Vdc	24	24
Maximum power yield	W	38	60
Nominal electrical input	A	1.8	2
BUILT-IN RECEIVER CARD			
Reception frequency	MHz	433.92 / 868,3	433,92 / 868,3
Number of channels	No	4	4
Number of functions	No	6	6
Number of stored codes	No	300 / 1000	300 / 1000

OVERALL DIMENSIONS



SL524 - SL524CB



SLX624 - SLX624CB

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

CARDIN AUTOMATION SERIES SLX

A "complete machine" which contains all the electronic and mechanical components required to manage gate positioning and the safety functions of the installation. Powerful and tireless, controlled by state of the art electronics, the automation is fitted with a powerful direct current motor backed up by a finely tuned double gear kinematic system which reduces the stress on the motor and structure caused by the movement of heavy gates.

Installation is possible on any structure and the unit may be fitted both to the right as well as to the left of the passageway. Models are available for both residential and industrial use.

The use of low voltage motors increase the performance, guarantee high efficiency, long life and silent running.

The integrated programmer allows encoder-controlled gate positioning and self-programming thus reducing installation times to a minimum and optimising the programming procedure.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

Compatible with the system INTPRG-3G/WF that allows the system parameters to be controlled and programmed remotely.

A slave motor, connected via cable with the Cardin MODCA slot-in modules inserted, can be installed to drive two biparting sliding gates.

Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508), a battery charger and NiMH batteries which allow the gate to be manoeuvred even during blackouts.



Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



MANUAL RELEASE SLX3024CB



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY



MANUAL RELEASE SLX1524CB



MANUAL RELEASE SLX24DRACO



COOLING FAN FOR SLX24DRACO

CARDIN AUTOMATION SERIES SLX

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

The automation is made up of a self-locking gear motor (with a gate drag speed of 13 metres/minute) controlled by magnetic encoder with an in-built:

- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger (SLX824CB - SLX1524CB);
- NiMH batteries (SLX824CB - SLX1524CB);
- reversible motor (SLX1224REV).

The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc.
The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel. The appliance is fitted with a safe and secure manual release system activated by a personalised key.

SLX824CB

NiMH · 128 PIX · 800 kg

(drag speed max. **13** m/min)



SLX1224REV

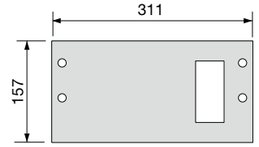
REV · 128 PIX · 1200 kg

(drag speed max. **17** m/min)

SLX1524CB

NiMH · 128 PIX · 1500 kg

(drag speed max. **9,5** m/min)



FASTENING BASE
SPARE PARTS NUMBER 999393

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

The automation is made up of a self-locking gear motor controlled by magnetic encoder with an in-built:

- electronic programmer;
- 433MHz FM receiver;

The innovative DRACO system permits the gate's movement to be accompanied with total security and features a "variable speed function" which can be adjusted according to the different installation requirements up to a maximum speed of 30m per minute. The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc.

The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day. The appliance is fitted with a safe and secure lever operated manual release system protected by a robust access door with a personalised key.

SLX24DRACO

NiMH (optional) · 128 PIX · 1000 kg · HI-SPEED · C°

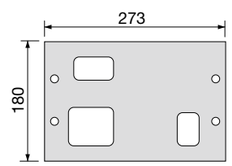
(adjustable drag speed up to **30** m/min)

SLX24DRACO2

NiMH (optional) · 128 PIX · 2000 kg · HI-SPEED · C°

(adjustable drag speed up to **22** m/min)





FASTENING BASE
SPARE PARTS NUMBER 999805

CARDIN AUTOMATION
SERIES SLX

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

The automation is made up of a self-locking gear motor controlled by magnetic encoder with an in-built:

- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger;
- NiMH batteries.

The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc.

The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.

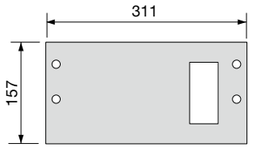
The appliance is fitted with a safe and secure manual knob operated release system protected by a robust access door with a personalised key.

SLX3024CB

+ − NiMH | 128 PIX | 3000 kg

(drag speed max. **8** m/min)





FASTENING BASE
SPARE PARTS NUMBER 999393

AUTOMATION

CARDIN AUTOMATION
SERIES SLX

GEAR RACK
in nylon reinforced with glass fibre with a steel core for sliding gates up to 500kg.

VERSION WITH 4 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CRENY1



GEAR RACK
in polyamide with a steel core for sliding gates up to 800kg.

VERSION WITH 6 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CREMP

VERSION WITH 6 UPPER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.

CRENY



GEAR RACK
in galvanised steel for the **DRACO** motor and industrial installations up to 3000 kg.

VERSION TO BE SOLDERED
22mm x 22mm, M4, 2m pieces.

SLOAC

VERSION WITH FASTENING SLITS
30mm x 12mm, M4, 1m pieces.

SLOAC2



SPEED CONTROLLER
The device should be fitted to the gear rack in alignment with the motor in order to recuperate the correct sliding action of the gate in installations that are slightly inclined.

RVS



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the SLX unit to work during blackouts.

KBNIMH-1



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the SLX24DRACO unit to work during blackouts.

KBNIMH-D



DATA INTERFACE MODULE VIA CABLE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function.

MODCA



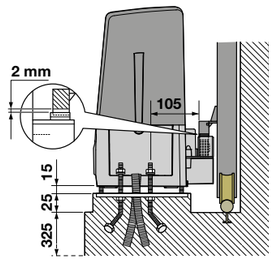
BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.

MODBT

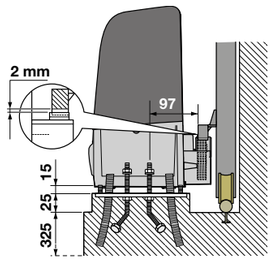


CARDIN AUTOMATION
SERIES SLX

POSITIONING THE UNIT

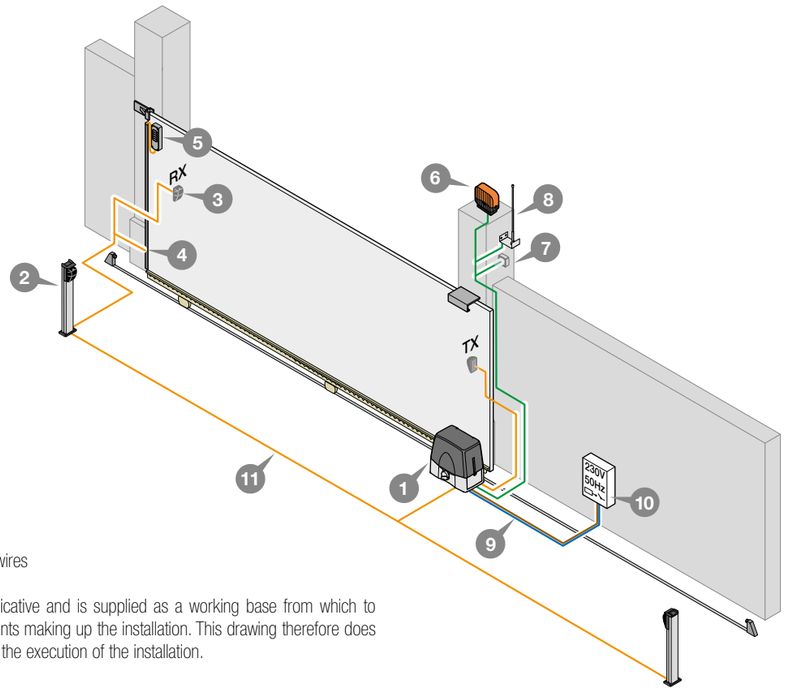


SLX824CB - SLX1224REV
SLX1524CB - SLX3024CB



SLX24DRACO/2

INSTALLATION EXAMPLE



LEGEND

1 Geared motor
2 Internal photocells
3 External photocells
4 Safety edge
5 Radioshield
6 Warning lights
7 Mechanical selector switch
8 External aerial
9 Mains cable 230Vac
10 All pole circuit breaker
11 Channelling route for low voltage wires

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

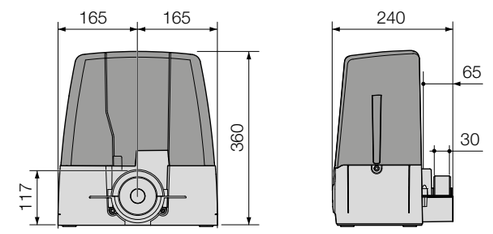
AUTOMATION

CARDIN AUTOMATION
SERIES SLX

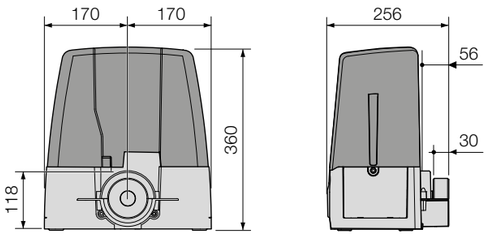
TECHNICAL DATA

GENERAL CHARACTERISTICS		SLX824CB	SLX1224REV	SLX1524CB	SLX3024CB	SLX24DRACO/2
Power supply	Vac	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Nominal electrical input	A	0,9	0,9	0,9	1,1	1,7
Power input	W	200	200	200	250	380
Duty cycle	%	70	70	70	70	50
Drag speed	m/min	13	17	9,5	8	30 / 22
Torque max.	Nm	57	25	74	90	44 / 55
Operating temperature range	°C	-20°…+55	-20°…+55	-20°…+55	-20°…+55	-20°…+55
Protection grade	IP	44	44	44	44	44
MOTOR DATA						
Motor power supply	Vdc	24	24	24	24	24
Maximum power yield	W	110	110	130	160	250
Nominal electrical input	A	3	3	3,5	4,5	10
BUILT-IN RECEIVER CARD						
Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3
Number of channels	No	4	4	4	4	4
Number of functions	No	8	8	8	8	8
Number of stored codes	No	300 / 1000	300 / 1000	300 / 1000	300 / 1000	300 / 1000

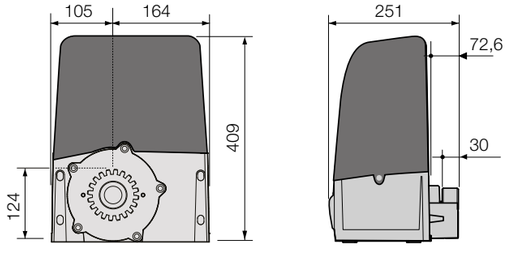
OVERALL DIMENSIONS



SLX824CB - SLX1224REV - SLX1524CB



SLX3024CB



SLX24DRACO

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

24V · PRS · OC · + − NiMH (optional)

CARDIN AUTOMATION SERIES SLACE



Electromechanical gear motors suitable for gate positioning control and safety system management. Ideal for residential sliding gates the unit moves gates up to 16 metres per minute with speed regulation.

Powerful, rapid and controlled by state of the art electronics, the unit is fitted with a powerful direct current motor backed up by a finely tuned double gear kinematic system which reduces the stress on the motor and structure caused by the movement of gates.

The reduction unit stator is made of die cast aluminium and contains a never ending screw and double reduction lubricated with grease.

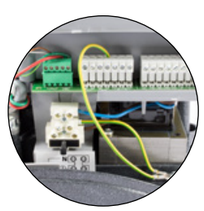
Installation, on a robust and rust proof base, is possible on any structure and the unit may be fitted both to the right as well as to the left of the passageway.

The use of direct current motors increases the performance, guarantees high efficiency, long life and silent running.

The integrated programmer allows encoder-controlled gate positioning and self-programming thus reducing installation times to a minimum and optimising the programming procedure.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

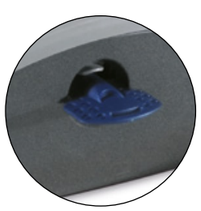
Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.



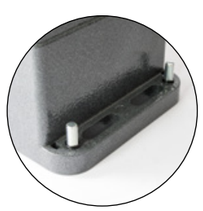
ELECTRONIC PROGRAMMER WITH EXTRACTABLE TERMINAL BLOCKS



OPEN COLLECTOR RECEIVER CARD



MANUAL RELEASE SLACEFAST



RAPID ANCHORING SYSTEM



MANUAL RELEASE SLACE601

CARDIN AUTOMATION SERIES SL

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
The automation is made up of self-locking gear motor controlled by encoder and magnetic travel limits with an in-built:

- electronic programmer;
- motor speed regulation;
- motor drive power regulation;
- slot-in open collector receiver card.

The programmer allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting etc.

Ideal for residential sliding gates up to 300kg.

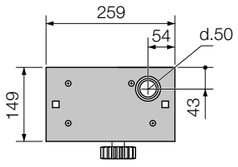
The appliance is fitted with a safe and secure key-operated manual release system protected by a plastic access door.

SLACEFAST

300 kg

(adjustable drag speed up to **16** m/min)





FASTENING BASE
SPARE PARTS NUMBER 9995026

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
The automation is made up of self-locking gear motor controlled by encoder and magnetic travel limits with an in-built:

- electronic programmer;
- motor speed regulation;
- motor drive power regulation;
- double 8,2kΩ inputs for connecting safety edges;
- slot-in open collector receiver card.

The programmer allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting etc.

Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of the system parameters from a remote position.

Possibility of connecting two gear motors in Master and Slave configuration for installations with opposing sliding gates.

Ideal for residential sliding gates up to 600kg.

The appliance is fitted with a safe and secure key-operated manual release system protected by a plastic access door.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

ECU data exchange

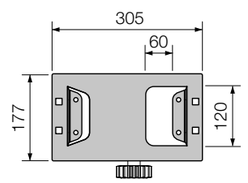
See section 24V ECU INTERFACE DEVICES on page 178

SLACE601

600 kg · M/S

(adjustable drag speed up to **16** m/min)





FASTENING BASE
SPARE PARTS NUMBER 9995013

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

CARDIN AUTOMATION SERIES SLEVO

Electromechanical gear motors suitable for gate positioning control and safety system management. Ideal for residential/industrial sliding gates powered by 230V.

Powerful, rapid and controlled by state of the art electronics, the gate automation units are fitted with powerful motors backed up by a finely tuned double gear kinematic system which reduces the stress on the motor and structure caused by the movement of gates.

The reduction unit stator is made of die cast aluminium and contains a never ending screw immersed in an oil bath (lubricated with grease for the SLEVO600).

Installation, on a robust and rust proof base, is possible on any structure and the unit may be fitted both to the right as well as to the left of the passageway.

The integrated programmer allows encoder-controlled gate positioning and self-programming thus reducing installation times to a minimum and optimising the programming procedure.

The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.




ELECTRONIC PROGRAMMER WITH EXTRACTABLE TERMINAL BLOCKS


OPEN COLLECTOR RECEIVER CARD


MANUAL RELEASE SLEVO600 - 800 - 1200


RAPID ANCHORING SYSTEM


REDUCTION UNIT STATOR MADE OF DIE CAST ALUMINIUM

CARDIN AUTOMATION SERIES SL

SELF-LOCKING SLIDING GATE MOTOR
For residential/industrial sliding gates up to 1200kg. Complete with encoder, magnetic limits, electronic brake and a built-in control unit. Constant performance over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature (in the versions SLEVO800 and SLEVO1200) using HOT (optional). The appliance is fitted with a safe and secure key-operated manual release system protected by a plastic access door.

ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V
Grease lubrication. For gates up to 600kg.

SLEVO600

600 kg

(drag speed max. **10** m/min)

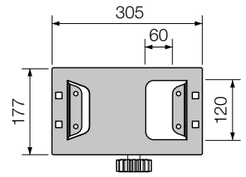


ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V
Oil bath lubrication. For gates up to 800kg.

SLEVO800

800 kg

(drag speed max. **10** m/min)



FASTENING BASE
SPARE PARTS NUMBER 9995013

ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V
Oil bath lubrication. For gates up to 1200kg.

SLEVO1200

1200 kg

(drag speed max. **10** m/min)

FASTENING BASE
SPARE PARTS NUMBER 9995114

CARDIN AUTOMATION
SERIES SLACE-EVO

GEAR RACK
in nylon reinforced with glass fibre with a steel core for sliding gates up to 500kg.

VERSION WITH 4 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.
CRENY1



GEAR RACK
in polyamide with a steel core for sliding gates up to 800kg.

VERSION WITH 6 LOWER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.
CREMP

VERSION WITH 6 UPPER FASTENING SLITS
30mm x 20mm, M4, 1m pieces.
CRENY



GEAR RACK
in galvanised steel for sliding gates up to 3000kg.
Particularly suited to industrial installations.

VERSION TO BE SOLDERED
22mm x 22mm, M4, 2m pieces.
SLOAC

VERSION WITH FASTENING SLITS
30mm x 12mm, M4, 1m pieces.
SLOAC2



SPACERS
screw version for SLOAC2.
Lots of 30 pcs.
DAC



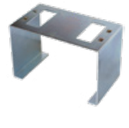
SPACERS
soldering version for SLOAC2.
Lots of 30 pcs.
DSC



ADJUSTABLE SPACERS
screw version for SLOAC2.
Lots of 3 pcs.
DAP



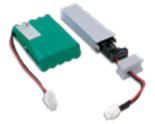
BASEPLATE
for embedding (SLEVO600 - SLEVO800 - SLEVO1200 - SLACE601).
CPEVO



AUTOMATION

CARDIN AUTOMATION
SERIES SLACE-EVO

KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.
KBNIMH-T2



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.
SUNPOWER



SPEED CONTROLLER
The device should be fitted to the gear rack in alignment with the motor in order to recuperate the correct sliding action of the gate in installations that are slightly inclined.
RVS



MANUAL RELEASE KIT
for external use, supplied with a steel cable.
KIT SBLESTEVO



MECHANICAL TRAVEL LIMIT ADAPTOR
from open collector to NC.
ADFCSM



ELECTRONIC HEATER
with a temperature probe for 230V motors.
HOT



BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.
MODBT2

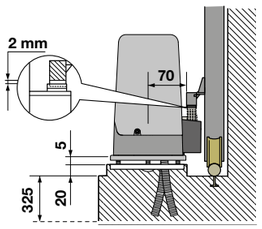


FLAGON OF OIL
5 litres for SLEVO800.
5 litres for SLEVO1200.
TS20
TS40

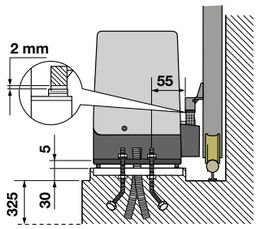


CARDIN AUTOMATION
SERIES SLACE-EVO

POSITIONING THE UNIT

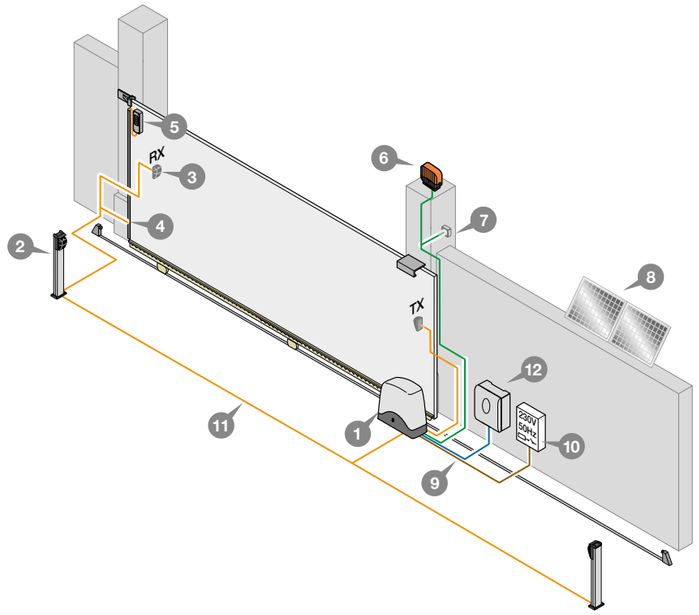


SLACEFAST



SLEV0600 - SLEV0800
SLEV01200 - SLACE601

INSTALLATION EXAMPLE



LEGEND

1 Geared motor
2 Internal photocells
3 External photocells
4 Safety edge
5 Radioshield
6 Warning lights with aerial
7 Mechanical selector switch
8 Solar panels
9 Mains cable 230Vac
10 All pole circuit breaker
11 Channelling route for low voltage wires
12 Sun Power

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

CARDIN AUTOMATION
SERIES SLACE-EVO

TECHNICAL DATA

GENERAL CHARACTERISTICS		SLACEFAST	SLACE601	SLEV0600	SLEV0800	SLEV01200
Power supply	Vac	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Nominal electrical input	A	0,5	0,8	1.8	2	2,5
Power input	W	115	180	400	460	570
Duty cycle	%	40	60	40	60	60
Drag speed	m/min	10 . 16	10 . 16	10	10	10
Torque max.	Nm	15	21	21	25	45
Operating temperature range	°C	-20°…+55	-20°…+55	-20°…+55	-20°…+55 *	-20°…+55 *
Protection grade	IP	44	44	44	44	44

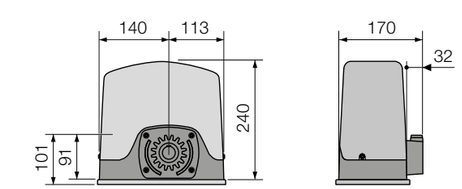
* with the electronic heater HOT installed

MOTOR DATA						
Motor power supply	V	30 Vdc	24Vdc	230Vac	230Vac	230Vac
Maximum power yield	W	120	200	800	800	1100
Maximum electrical input	A	4	8	3,4	3,4	5,2

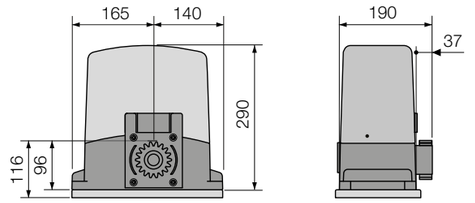
OPTIONAL RECEIVER CARD

The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

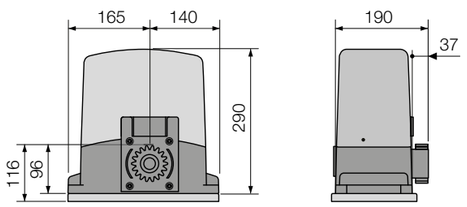
OVERALL DIMENSIONS



SLACEFAST



SLACE601



SLEV0600 - SLEV0800 - SLEV01200

COMPLETE KIT FOR SLIDING GATES



KT-SL524CBX



USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 500kg.

PACKING
DIMENSIONS: 390 x 175 x 320
GROSS WEIGHT: 11,5 kg
ITEMS PER PALLET: 24 pcs

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor.
Incorporated electronic programmer with a 433MHz FM receiver, battery charger and NiMH batteries.

SL524CB

24V | 500 kg | +− NiMH

(drag speed max. 9,2 m/min)



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
in class 3 with adjustable lens, range 10m.

CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON

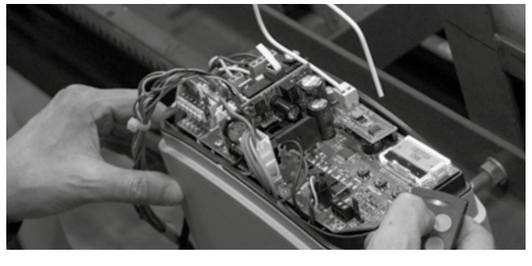


INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



KT-SLX624



USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 600kg.

PACKING
DIMENSIONS: 520 X 210 X 320
GROSS WEIGHT: 11,5 kg
ITEMS PER PALLET: 24 pcs

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor.
Incorporated electronic programmer with a 433MHz FM receiver, battery charger and NiMH batteries.

SLX624

24V | 600 kg

(drag speed max. 9,2 m/min)



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
in class 3 with adjustable lens, range 10m.

CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



KT-SL624CB



PACKING
DIMENSIONS: 520 X 210 X 330
GROSS WEIGHT: 12,2 kg
ITEMS PER PALLET: 24 pcs

USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 600kg.

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor.
Incorporated electronic programmer with a 433MHz FM receiver, battery charger and NiMH batteries.

SLX624CB

24V | 600 kg | +− NiMH

(drag speed max. 9,2 m/min)



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
in class 3 with adjustable lens, range 10m.

CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



KT-SLACEFAST



PACKING
DIMENSIONS: 520 x 210 x 320
GROSS WEIGHT: 9,5 kg
ITEMS PER PALLET: 21 pcs

USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 300kg.

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor and magnetic travel limits.
In-built electronic programmer.

SLACEFAST

24V | 300 kg

(adjustable drag speed up to **16** m/min)



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card. S508 - S449 - S486 and EDGE versions are available on request.

RSQ504OC2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 600kg.

KT-SLACE601



PACKING
DIMENSIONS: 520 x 210 x 320
GROSS WEIGHT: 13 kg
ITEMS PER PALLET: 21 pcs

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor and magnetic travel limits.
In-built electronic programmer.

SLACE601

24V | 600 kg

(adjustable drag speed up to **16** m/min)



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card. S508 - S449 - S486 and EDGE versions are available on request.

RSQ5040C2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



USE
The kit contains all the command, control and safety devices required to carry out a residential installation for medium to small size sliding gates with a maximum weight of 600kg.

KT-SLEVO600



PACKING
DIMENSIONS: 520 x 210 x 320
GROSS WEIGHT: 15 kg
ITEMS PER PALLET: 21 pcs

SELF-LOCKING SLIDING GATE MOTOR
with an encoder-controlled 24Vdc motor and magnetic travel limits.
In-built electronic programmer.

SLEVO600

230V | 600 kg

(drag speed max. **10** m/min)



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card. S508 - S449 - S486 and EDGE versions are available on request.

RSQ5040C2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



INSIDE AUTOMATION FOR SLIDING GATES

CARDIN INSIDE
SLAVE AUTOMATION 24V
48

CARDIN KIT SLi
SLAVE AUTOMATION 24V
52



INSIDE AUTOMATION FOR SLIDING GATES

CARDIN INSIDE SERIES SLi

Cardin inside identifies a line of products dedicated to the manufacturers of mass produced industrial gates and doors. Integrating the automation device into the structure of the gate or door allows you to complete the automatic door while still in the factory, thus allowing the manufacturer to supply a complete product that has already been tested and complies with the machine directive.

The electromechanical geared motor has been designed to guarantee maximum adaptability when being inserted into the support column of a gate and is fitted with all the fastenings required for every type of solution.

A double-reduction kinetics system immersed in permanently fluid grease works side by side with an efficient low-voltage motor that allows the system to obtain the maximum levels of performance whilst maintaining absolute operating silence when the unit is working.

The emergency manoeuvre (release system) is carried out by means of an efficient manual release system integrated into the geared motor.

The innovative DRACO system permits the gate's movement to be accompanied with total security and features a "variable speed function" which can be adjusted according to the different installation requirements up to a maximum speed of 30m per minute.

The electronic components are housed in a shockproof plastic container IP55 and the appliance is factory fitted with a multi-decoding module (system S449 - S486 - S504 - S508), a battery charger and NiMH batteries which allow the gate to be manoeuvred even during blackouts.

Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

A slave motor, connected via cable with the Cardin MODCA slot-in modules inserted, can be installed to drive two biparting sliding gates.



The automation, available in four versions with different motor power levels automation is suitable for driving sliding gates with up to a maximum weight of 2000kg.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



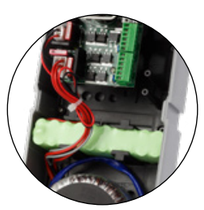
EXTRACTABLE PINION



LEVER ACTIVATED MANUAL RELEASE SYSTEM (SLi24DRACO)



ENCODER CONTROL



BATTERY CHARGER AND NiMH BATTERIES



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN INSIDE SERIES SLi

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR — **SLi324**
with a 24Vdc encoder-controlled motor.
For gates up to 300kg.
Drag speed max. 10,5 m/min.

300 kg



ELECTRONIC PROGRAMMER FOR ONE MOTOR — **CC824EINTCB**
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

The electronic programmer is factory fitted with a graphic LCD display (16 digits x 2 lines) in six different languages that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting and transmitter code management etc.



ELECTRONIC PROGRAMMER FOR ONE MOTOR — **CC824EINT**
Version without batteries or battery charger.

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR — **SLi724**
with a 24Vdc encoder-controlled motor.
For gates up to 700kg.
Drag speed max. 11 m/min.

700 kg



SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR — **SLi1024**
with a 24Vdc encoder-controlled motor.
For gates up to 1000kg.
Drag speed max. 11 m/min.

1000 kg



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to counts and display the number of manoeuvres carried out by the machine and to rapidly set the system parameters. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). The events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.



ELECTRONIC PROGRAMMER FOR SLi724 — **CC924EFAMCBS**
Version with batteries and a battery charger.

ELECTRONIC PROGRAMMER FOR SLi724 — **CC924EFAMS**
Version without batteries or a battery charger.

ELECTRONIC PROGRAMMER FOR SLi1024 — **CC924EFAMCB**
Version with batteries and a battery charger.

ELECTRONIC PROGRAMMER FOR SLi1024 — **CC924EFAM**
Version without batteries or a battery charger.



CARDIN INSIDE
SERIES SLi

SELF-LOCKING ELECTROMECHANICAL RAPID-ACTION INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
For gates up to 2000kg.

SLi24DRACO

1000 kg — HI-SPEED

(Adjustable drag speed up to **30** m/min.)

SLi24DRACO2

2000 kg — HI-SPEED

(Adjustable drag speed up to **22** m/min.)



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:

- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508.

Enhanced programmer (400W) with thermal protection and cooling fan.
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to counts and display the number of manoeuvres carried out by the machine and to rapidly set the system parameters. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). The events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.





ELECTRONIC PROGRAMMER FOR SLi24DRACO
batteries and battery charger to be ordered separately.

CCDRACO24E

KIT BATTERY CHARGER + NiMH BATTERIES
Allows the programmers CC824EINT, CC924EFAMS and CC924EFAM to work during blackouts.

KBNIMH-1



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the programmer CCDRACO24E to work during blackouts.

KBNIMH-D



7-WIRE SPECIAL CONNECTING CABLE (2m)
for SLi324, SLi724 and SLi1024

CABPC2



7-WIRE SPECIAL CONNECTING CABLE (2m)
for SLi24DRACO

CABPC2D



DATA INTERFACE MODULE VIA CABLE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function.

MODCA



BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.

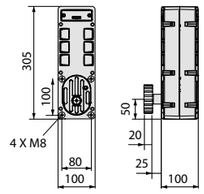
MODBT



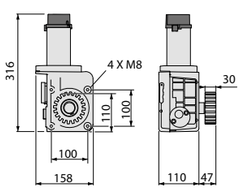
CARDIN INSIDE

CARDIN INSIDE
SERIES SLi

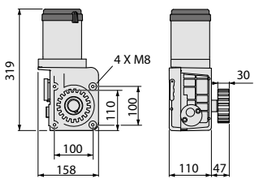
MOTOR SPECIFICATIONS		SLi324	SLi724	SLi1024	SLi24DRACO/2
Motor power supply	Vdc	24	24	24	24
Electrical input	A	6,5	6,5	8,5	10
Power input	W	150	160	200	250
Duty cycle	%	70	70	70	50
Drag speed	m/min	10,5	11	11	30 / 22
Maximum gate weight	kg	300	700	1000	1000 / 2000
Operating temperature range	°C	-20°…+55	-20°…+55	-20°…+55	-20°…+55
Protection grade	IP	44	44	44	44
ECU CHARACTERISTICS					
Power supply	Vac	230	230	230	230
Nominal electrical input	A	1,2	1,2	1,2	1,7
Maximum power yield	W	250	250	250	380
Protection grade	IP	55	55	55	55
Class II device	Cls	⧈	⧈	⧈	⧈
BUILT-IN RECEIVER CARD					
Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3
Number of channels / number of functions	No	4 / 6	4 / 8	4 / 8	4 / 8
Number of stored codes	No	300 / 1000	300 / 1000	300 / 1000	300 / 1000



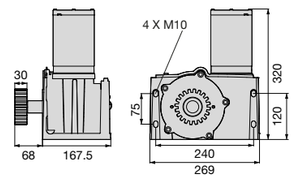
SLi324



SLi724



SLi1024

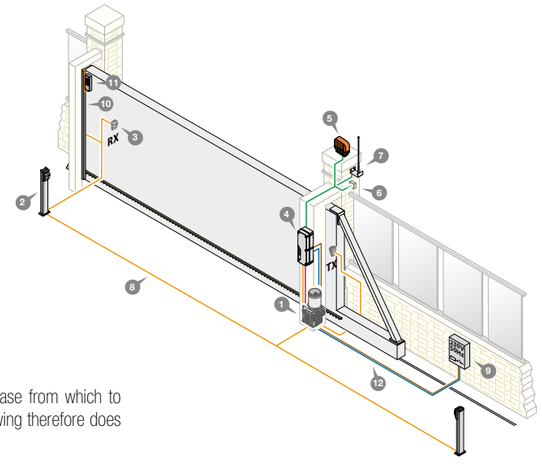


SLi24DRACO/2

INSTALLATION EXAMPLE

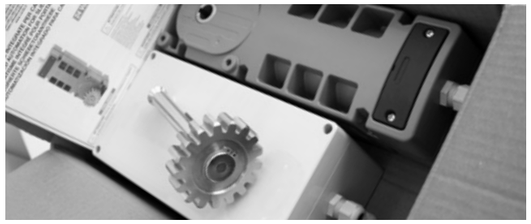
LEGEND

1 Geared motor
2 Internal photocells
3 External photocells
4 Electronic programmer
5 Warning lights
6 Mechanical selector switch
7 External aerial
8 Channelling route for low voltage wires
9 All pole circuit breaker
10 Safety edge
11 Radioshield
12 Mains cable 230Vac

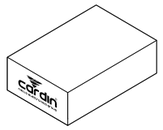


Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

INSIDE KITS FOR SLIDING GATES



KT-SLi324CB



PACKING
DIMENSIONS: 240 x 360 x 150
GROSS WEIGHT: 9 kg
ITEMS PER PALLET: 36 pcs

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
For gates up to 300kg.

SLi324

300 kg

(drag speed max. **10,5** m/min)



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

CC824EINTCB

128 PIX



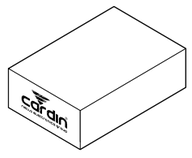
7-WIRE SPECIAL CONNECTING CABLE (2m)

CABPC2





KT-SLi724CB



PACKING
DIMENSIONS: 365 x 500 x 170
GROSS WEIGHT: 12,7 kg
ITEMS PER PALLET: 24 pcs

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
For gates up to 700kg.

SLi724

700 kg

(drag speed max. **11** m/min)



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

CC924EFAMCBS

128 PIX



7-WIRE SPECIAL CONNECTING CABLE (2m)

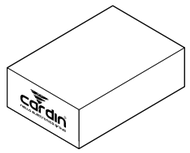
CABPC2



INSIDE KITS FOR SLIDING GATES



KT-SLi1024CB



PACKING
DIMENSIONS: 365 x 500 x 170
GROSS WEIGHT: 14,1 kg
ITEMS PER PALLET: 24 pcs

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
For gates up to 1000kg.

SLi1024

1000 kg

(drag speed max. **11** m/min)



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

CC924EFAMCB

128 PIX



7-WIRE SPECIAL CONNECTING CABLE (2m)

CABPC2





KT-SLi24DRACO/2



PACKING
DIMENSIONS: 310 x 465 x 310
GROSS WEIGHT: 20kg
ITEMS PER PALLET: 18 pcs

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
Adjustable speed up to 30m per minute (22m SLi24DRACO2).
For gates up to 1000kg (2000kg SLi24DRACO2).

SLi24DRACO/2

1000 kg | 2000 kg | HI-SPEED

(adjustable drag speed up to **30** m/min)



ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508.

CCDRACO24E

128 PIX | C°



7-WIRE SPECIAL CONNECTING CABLE (2m)

CABPC2D

HINGED ARM AUTOMATION FOR SWING GATES

RAPID SELECTION GUIDE
(FOR THE SERIES BL - HL - BLi) 56

CARDIN AUTOMATION BL
MASTER AUTOMATION 24V 62

CARDIN KIT BL
MASTER AUTOMATION 24V 70



RAPID GUIDE

SWING GATES

BLGRIFFE

HINGED ARM
MASTER AUTOMATION

CARDIN AUTOMATION

24V · PRG · 128 PIX · 2,5m max · 200 kg · 120° max



BLGRIFFE24M

2,5m max · 200 kg · 120° max



BLGRIFFE24TM

RAPID GUIDE

SWING GATES

BL

HINGED ARM
MASTER AUTOMATION

CARDIN AUTOMATION

24V · PRG · 128 PIX · NiMH · 5m max · 130° max · 400 kg



BL3924MCB

NiMH · REV · 5m max · 130° max · 400 kg



BL3924MRCB

BL

WORM SCREW
SLAVE AUTOMATION

CARDIN AUTOMATION

24V · 2,5m max · 110° max · 300 kg



BLEGOS

4m max · 110° max · 400 kg



BLESOL

RAPID GUIDE

SWING GATES

BLADE

WORM SCREW
SLAVE AUTOMATION

CARDIN AUTOMATION

24V



BLADE324 BLADE524 BLADE524REV

BLADE

WORM SCREW
SLAVE AUTOMATION

CARDIN AUTOMATION

230V



BLADE3 BLADE3REV BLADE5 BLADE5REV

RAPID GUIDE

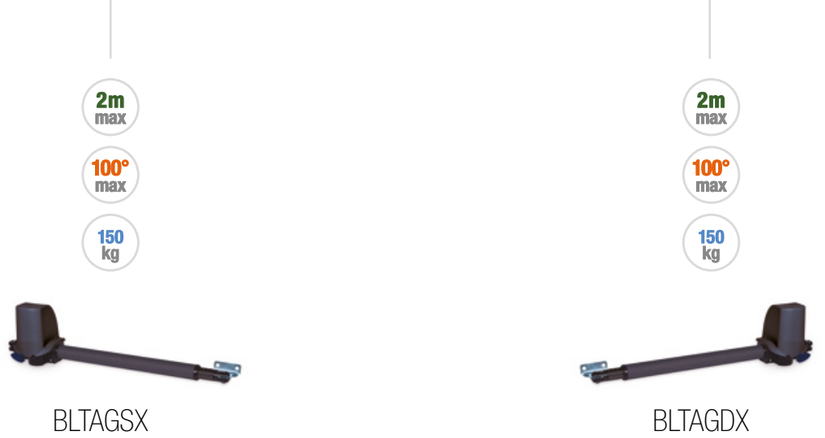
SWING GATES

BLTAG

WORM SCREW
SLAVE AUTOMATION

CARDIN AUTOMATION

24V



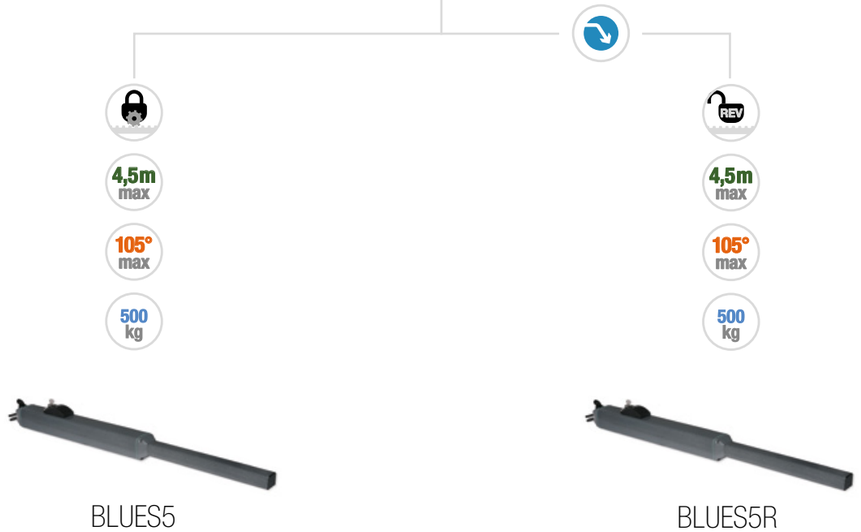
BLTAGSX BLTAGDX

BLUES

WORM SCREW
SLAVE AUTOMATION

CARDIN AUTOMATION

230V



BLUES5 BLUES5R

RAPID GUIDE

SWING GATES

HLXCORE

UNDERGROUND
SLAVE AUTOMATION

CARDIN AUTOMATION

360° max
3m max
350 kg
24V



HLXCORE24

360° max
3m max
550 kg
230V



HLXCORE230

RAPID GUIDE

SWING GATES

BLi

INSIDE SLAVE
AUTOMATION

CARDIN INSIDE

24V

2,5m max
180° max
200 kg



BLi1000

SELF-PROGRAMMING AUTOMATION FOR SWING GATES

CARDIN AUTOMATION SERIES BLGRIFFE

Hinged operator arm automation designed to handle swing gates with one or two gate leaves. Includes a master unit with an in-built electronic programmer and a slave unit powering the second swing-to gate, both acting in synch.

Perfect for residential applications with small gates and narrow columns, it fits seamlessly into the fixed structure without altering the appearance of the gate and is the ideal choice for effective and reliable gate control, ensuring safety and convenience in any situation - a perfect combination of technology, design and precision.

The compact and robust fastening bracket allows the automation to be fitted to very narrow columns. The extremely robust cast aluminium operator arms are fitted with joints for all applications and are able to drive hinged gates with different constructive characteristics.

Manual release is carried out using a practical locking - unlocking lever protected by a security key.

The use of direct current motors increases the performance, guarantees high efficiency, long life and silent running.

The integrated programmer employs mechanical travel limit controlled gate positioning.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The elec-tronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from re-mote positions.

Kit including battery charger and batteries to be ordered separately.



Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

ECU data exchange

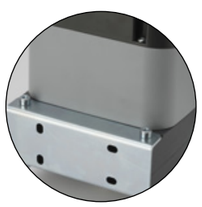
See section 24V ECU INTERFACE DEVICES on page 178



BLGRIFFE TRAVEL LIMITS



ALUMINIUM OPERATOR ARMS



ANCHOR PLATE



MANUAL RELEASE MECHANISM WITH A PERSONALISED KEY



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN AUTOMATION SERIES BLGRIFFE

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

Encoder-controlled self-locking Master unit including:

- electronic programmer;
- 433MHz FM receiver;

Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5m with a hinged arm and an electric lock) 200kg maximum weight.

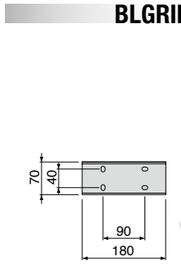
Operator arm included.

The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.

This version of the product is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508).

By default the devices are supplied with a 433MHz RF module and the S504 / S508 series memory module inserted. To control the device with S449 transmitters, insert the ZGB24LC16-I / P memory module (supplied with the device) and consult the relevant section. For the S508 / S486 series purchase and insert the 868Mhz RF module.

BLGRIFFE24M





128 PIX | 2,5m max | 200 kg | 120° max

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

Self-locking Master unit controlled by mechanical travel limits with an in-built electronic programmer.

Kit battery charger + batteries to be ordered separately.

Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5m with an electric lock), 200kg maximum weight.

Operator arm included.

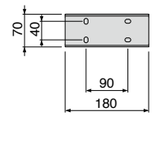
Simple and intuitive electronic programmer where basic functions are configurable via dip-switches.

It can also be configured via the CRD TWO app by installing the optional MODBT2 module, which enables more advanced functions.

Factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

A simplified installation may be set up with a deactivated encoder.

BLGRIFFE24TM





OC | 2,5m max | 200 kg | 120° max

CARDIN AUTOMATION
SERIES BLGRIFFE

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking slave unit for BLGRIFFE24M and BLGRIFFE24TM.

BLGRIFFE24S

2,5m max | 200 kg | 120° max



STRAIGHT ARM WITH SLIDING GUIDE
in spray-painted cast aluminium.

BLGRIFFEDRM



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the BL3924MCB unit to work during blackouts.

KBNIMH-1



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T1



10m CABLE
with end sleeves.

CABPC10



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

SUNPOWER



BLUETOOTH MODULE
The module allows the exchange of information between the BLGRIFFE24M motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.

MODBT



BLUETOOTH MODULE
The module allows the exchange of information between the BLGRIFFE24TM motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.

MODBT2



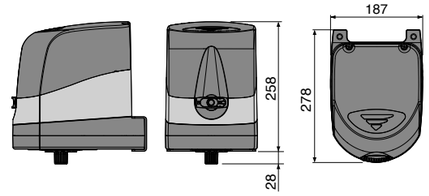
For the electric locks see page 159.

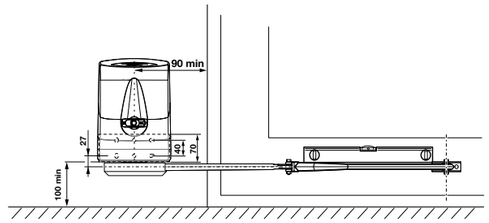
AUTOMATION

CARDIN AUTOMATION
SERIES BLGRIFFE

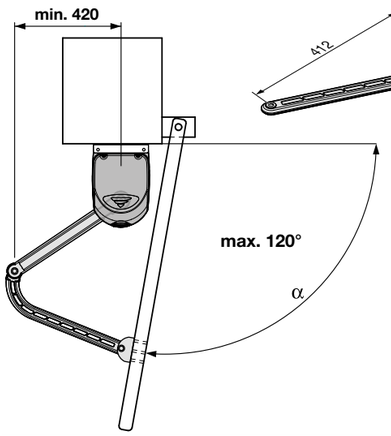
LIMITS OF USE

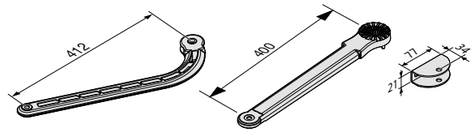
SERIES BLGRIFFE OVERALL DIMENSIONS (mm)





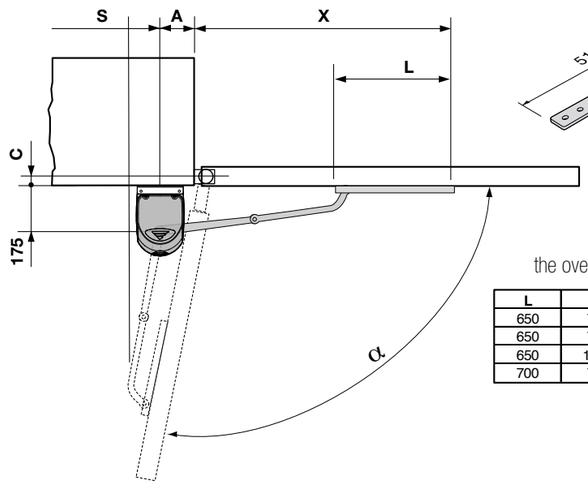
BLGRIFFE HINGED ARM (mm)

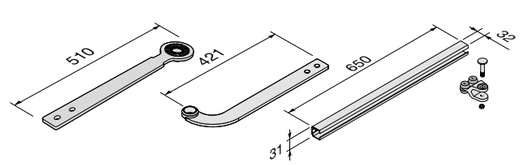




α	A	B	C
90	130	500 - 600	0 - 200
110	250	500	25
120	300	500	50 max

BLGRIFFE + STRAIGHT ARM BLGRIFFEDRM





the overall length of the straight arm = 740mm

L	A	C	X	α	S
650	75	30…80	1000	100	190
650	75	81…200	1125	95	140
650	150	30	1070	120	395
700	75	80…250	1225	95	145

SELF-PROGRAMMING AUTOMATION FOR SWING GATES

CARDIN AUTOMATION SERIES BL



A complete automatic device for swing gates with one or two gate leaves, the system is made up of a Master unit and a Slave unit powering the second hinged gate.

Installation is facilitated and the geared motor is well anchored by the special practical cast aluminium wall (or column) bracket predisposed for any type of fastening.

The compact and robust fastening bracket allows the automation to be fitted to very narrow columns. The extremely robust cast aluminium operator arms are fitted with joints for all applications and are able to drive hinged gates with different constructive characteristics.

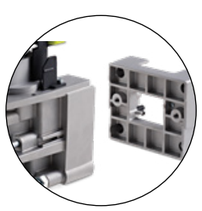
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

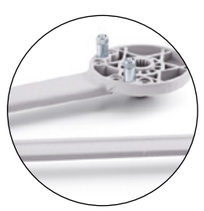
Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508).

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



BL3924 BRACKETS



ALUMINIUM OPERATOR ARMS



MANUAL RELEASE BL3924



NiMH EMERGENCY BATTERIES



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN AUTOMATION SERIES BL

ELECTROMECHANICAL UNIT WITH A 24V MOTOR

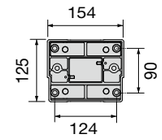
Encoder-controlled self-locking Master unit (reversible in the version BL3924MRCB) including:
- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger;
- NiMH batteries.

Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 3,5 metres in length (up to 5m with a hinged arm and an electric lock) 400kg maximum weight.

Manual release is carried out using the supplied hexagonal key after first unlocking and removing the covering cap.

Operator arm to be ordered separately.

BL3924MCB
BL3924MRCB



FASTENING BASE
SPARE PARTS NUMBER 999533



ELECTROMECHANICAL UNIT WITH A 24V MOTOR

Encoder-controlled self-locking slave unit (reversible in the version BL3924SR).

BL3924S
BL3924SR

STANDARD HINGED OPERATOR ARM
in spray-painted cast aluminium.

BL3924ARM



HINGED OPERATOR ARM WITH JOINTS
in spray-painted cast aluminium for opening systems on slopes.

BL3924SRM



STRAIGHT ARM WITH SLIDING GUIDE
in spray-painted cast aluminium.

BL3924DRM

1000mm GUIDE FOR SPECIAL OPENING REQUIREMENTS
in aluminium.
Lots of 2 pcs.

BL3924GU2



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the BL3924MCB unit to work during blackouts.

KBNIMH-1

10m CABLE
with end sleeves.

CABPC10

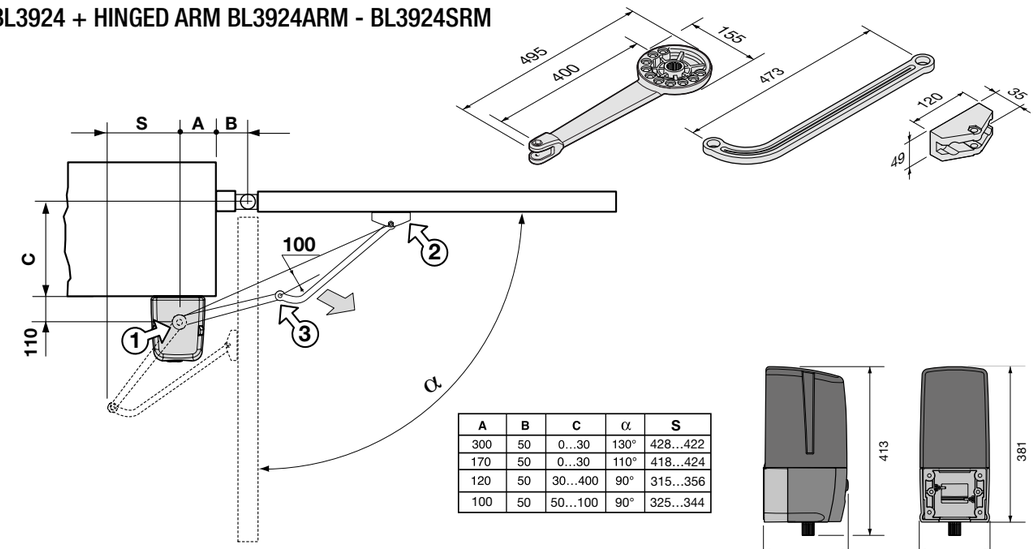


For the electric locks see page 159.

CARDIN AUTOMATION
SERIES BL

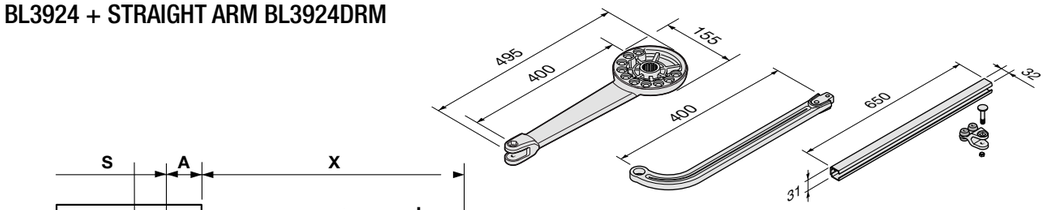
LIMITS OF USE

BL3924 + HINGED ARM BL3924ARM - BL3924SRM



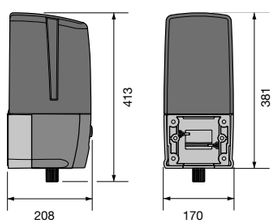
A	B	C	α	S
300	50	0…30	130°	428…422
170	50	0…30	110°	418…424
120	50	30…400	90°	315…356
100	50	50…100	90°	325…344

BL3924 + STRAIGHT ARM BL3924DRM



the overall length of the straight arm = 800mm

L	A	C	X	α	S
650	120	0…100	1130	90°	-
650	120	110…150	1150	90°	-
650	170	0…30	1130	110°	280
700	180	0…30	1130	120°	446



CARDIN AUTOMATION
SERIES BL-BLGRIFFE

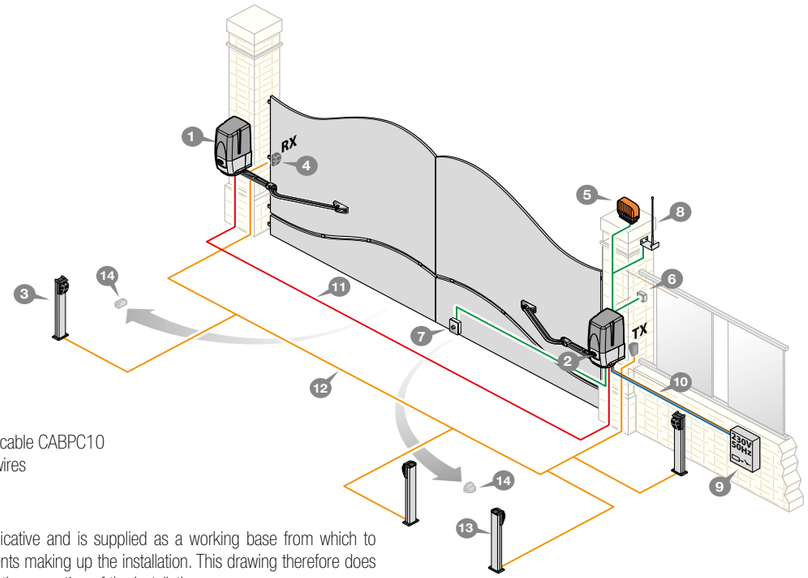
OPERATOR ARM TECHNICAL SPECIFICATIONS		BLGRIFFE24M	BLGRIFFE24TM	BL3924MCB/MRCB
Motor power supply	Vdc	24	24	24
Nominal electrical input	A	2	2	2
Power input	W	50	50	50
Duty cycle	%	70	70	70
Opening time 90°	s	16	16	20 (16*)
Maximum opening angle	°	120	120	130
Max. torque	Nm	250	250	300
Protection grade	IP	54	54	44

* using a straight operator arm

ELECTRONIC PROGRAMMER TECHNICAL DATA				
Power supply	Vac	230	230	230
Nominal electrical input	A	0,8	0,7	1,2
Maximum power yield	W	180	150	250
Power output for 1 or 2 motors	W	70 + 70	60 + 60	60 + 60
Class II device	Cls	⧈	⧈	⧈

BUILT IN RECEIVER CARD				
Reception frequency	MHz	433.92 / 868,3	-	433.92 / 868,3
Number of channels / number of functions	No	4 / 8	-	4 / 8
Number of stored codes	No	300 / 1000	-	300 / 1000

INSTALLATION EXAMPLE



LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights
6 Mechanical selector switch
7 Electric lock
8 External aerial
9 All pole circuit breaker
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Lateral protective photocells
14 Opening direction stop buffers

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

COMPLETE KIT FOR SWING GATES



KT-BLGRIFFE24



PACKING
DIMENSIONS: 265 x 730 x 330
GROSS WEIGHT: 13,5 kg
ITEMS PER PALLET: 9 pcs

USE
Particularly suited for installations with narrow columns that require the mounting base to be less than **180mm** in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to **2 metres** in length (**2,5m** with an electric lock) **200kg** maximum weight.

24V | 2,5m max | 200 kg

BLGRIFFE24M



SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

BLGRIFFE24S



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



10-METRE WIRING CABLE
with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SWING GATES



KT-BLGRIFFE24T



PACKING
DIMENSIONS: 265 x 730 x 330
GROSS WEIGHT: 13,5 kg
ITEMS PER PALLET: 9 pcs

USE
Particularly suited for installations with narrow columns that require the mounting base to be less than **180mm** in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to **2 metres** in length (**2,5m** with an electric lock) **200kg** maximum weight.

24V | 2,5m max | 200 kg

BLGRIFFE24TM



SELF-LOCKING MASTER UNIT
with a 24V motor. In-built electronic programmer with an incorporated open collector receiver card.

SELF-LOCKING SLAVE UNIT
driving the second gate.

BLGRIFFE24S



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card. S508 - S449 - S486 and EDGE versions are available on request.

RSQ504OC2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VEDO180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SWING GATES



KT-BL3924MCD



PACKING
DIMENSIONS: 530 x 235 x 510
GROSS WEIGHT: 33 kg
ITEMS PER PALLET: 14 pcs

USE
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to **3,5m**, **400kg** maximum weight.

24V | 3,5m max | 400 kg

SELF-LOCKING MASTER UNIT — BL3924MCB
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.



SELF-LOCKING SLAVE UNIT — BL3924S
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS — BL3924DRM
in spray-painted cast aluminium.



2 4-CHANNEL TRANSMITTERS — TXQ504C4
433MHz FM ROLLING CODE.



PAIR OF PHOTOCELLS — CDR999
in class 3 with adjustable lens, range 10m.



LED WARNING LIGHT — ICON
24V - 230V with an in-built aerial



10-METRE WIRING CABLE — CABPC10
with end sleeves.



INTERNATIONAL WARNING SIGN — TARGA-INT
in PP, multi-language.



COMPLETE KIT FOR SWING GATES



KT-BL3924MCB



PACKING
DIMENSIONS: 530 x 235 x 510
GROSS WEIGHT: 33 kg
ITEMS PER PALLET: 14 pcs

USE
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to **5m** with an electric lock, **400kg** maximum weight.

24V | 5m max | 400 kg

SELF-LOCKING MASTER UNIT — BL3924MCB
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.



SELF-LOCKING SLAVE UNIT — BL3924S
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS — BL3924ARM
in spray-painted cast aluminium.



2 4-CHANNEL TRANSMITTERS — TXQ504C4
433MHz FM ROLLING CODE.



PAIR OF PHOTOCELLS — CDR999
in class 3 with adjustable lens, range 10m.



LED WARNING LIGHT — ICON
24V - 230V with an in-built aerial



10-METRE WIRING CABLE — CABPC10
with end sleeves.



INTERNATIONAL WARNING SIGN — TARGA-INT
in PP, multi-language.



WORM SCREW AUTOMATION FOR SWING GATES

CARDIN AUTOMATION BL
ELECTROMECHANICAL RAMS 76

CARDIN KIT BL
ELECTROMECHANICAL RAMS 24-230V 94



WORM SCREW AUTOMATION FOR SWING GATES

CARDIN AUTOMATION SERIES BL

The automation is made up of a series of components consisting of an installation management programming unit, 1 or 2 worm screw rams and a special connecting cable. The ram, built around a robust structure in cast aluminium, features an efficient motor that works in complete synergy with a high performance reduction unit that is isolated inside a waterproof compartment and is lubricated using permanently fluid grease. The special, well thought out, three piece carter, the rotating screw supported by double bearings and the special drag screw make it a top of the range ram with a unique performance level. It moves silently and fluently and is controlled (via an encoder integrated into the motor) by the programmer supplied with the product.

These horizontal action rams are extremely easy to fit without need for brickwork and they offer excellent service in terms of the number of manoeuvres.

Use with the following Cardin programmers CC242ETOPCB, CC242EXTOPCB.

Gate position is encoder-controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

In case of blackouts, emergency manoeuvring is guaranteed by a key-operated manual release mechanism that is efficient under all working conditions.

The ram can be fitted with an external lever-operated locking and unlocking system using a remote cord.





WORM SCREW WITH ANTI-DUST PROTECTION



STRUCTURE IN CAST ALUMINIUM



GATE MOVEMENT INDICATOR LEDS



LEVER ACTIVATED MANUAL RELEASE SYSTEM



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN AUTOMATION SERIES BL

PRODUCT DESCRIPTION — ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 24V MOTOR

Self-locking ram controlled by encoder. The geared motor locks the gate leaf in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately CC242ETOPCB / CC242EXTOPCB.

Standard version for gates with a maximum length of 2,5m, maximum weight 300kg.

2,5m max — 100° max — 300 kg

BLEGOS



ELECTROMECHANICAL RAM WITH A 24V MOTOR

Self-locking ram controlled by encoder. The geared motor locks the gate leaf in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately CC242ETOPCB / CC242EXTOPCB.

Long version for gates with a maximum length of 3,5m (4m with an electric lock) maximum weight 400kg.

4m max — 100° max — 400 kg

BLESOL



OPTIONAL BRACKETS

front and rear brackets in galvanised steel.

BLSTAE



10m CABLE

with end sleeves.

CABPC10



For the electric locks see page 159.

CARDIN AUTOMATION
SERIES BL

SELF-PROGRAMMING ECU FOR BLEGOS/BLESOL

Programmer for the management of two encoder-controlled motors.
Power supply 230Vac.
Motor power supply 24Vdc.
Maximum power yield 250W.
Fitted with a multi-decoding module S449-S486-S504-S508.
Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.
Batteries and a battery charger in the versions CC242ETOPCB and CC242EXTOPCB.
For more information turn to page 168.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178

ELECTRONIC PROGRAMMER — **CC242ETOP**

ECU, BATTERY CHARGER AND NiMH BATTERIES — **CC242ETOPCB**

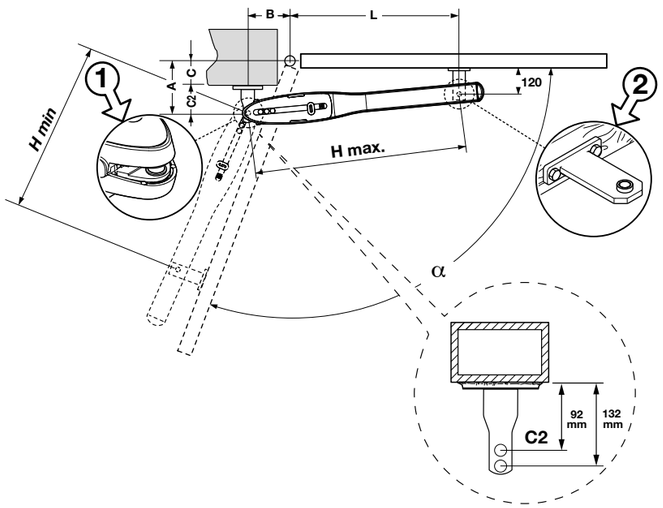
ECU, BATTERY CHARGER AND NiMH BATTERIES — **CC242EXTOPCB**



KIT BATTERY CHARGER + NIMH BATTERIES — **KBNIMH-1**

Allows the CC242ETOP unit to work during blackouts.

LIMITS OF USE **BLEGOS - BLESOL**



BLEGOS (H min. 420 - H max. 800)

α°	A	B	C	C2	L
90	132	200	0	132	600
90	132-182	200	0 - 50	132	600
90	183-203	180	51 - 70	132	620
90	204-224	160	71 - 90	132	640
90	183-203	160	91-110	92	630
90	204-224	150	110-130	92	650
110	132	200	0	132	600
110	132-182	180	0 - 50	132	620
110	183-203	170	51 - 70	92	630
110	204-224	160	71 - 90	92	640

BLESOL (H min. 420 - H max. 950)

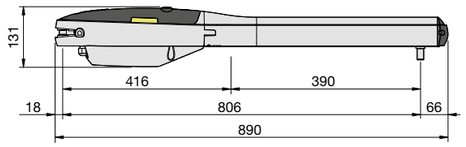
α°	A	B	C	C2	L
90	132	240	0	132	700
90	132-182	220	0 - 50	132	720
90	183-203	210	51 - 70	132	720
90	204-224	200	71 - 90	132	730
90	183-203	180	91-110	92	740
90	204-224	180	110-130	92	760
110-120	132	240	0	132	700
110-120	132-182	220	0 - 50	132	720
110	183-203	210	51 - 70	132	720
110	204-224	200	71 - 90	132	730
110	183-203	180	91-110	132	740
110	204-224	180	110-130	132	760

Note: for an optimised installation use the values highlighted in grey.

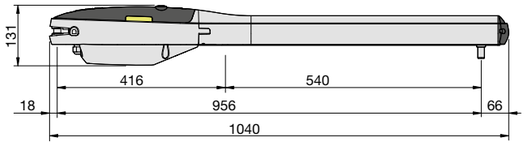
CARDIN AUTOMATION
SERIES BL

RAM SPECIFICATIONS		**BLEGOS**	**BLESOL**
Motor power supply	Vdc	24	24
Electrical input	A	2	2
Power input	W	60	60
Thrust	N	1500	2000
Travel distance (worm screw)	mm	350	500
Duty cycle	%	70	70
Opening time 90°	s	15	20
Maximum opening angle	°	100	100
Protection grade	IP	44	44

OVERALL DIMENSIONS



BLEGOS (890 x 131 x 110)

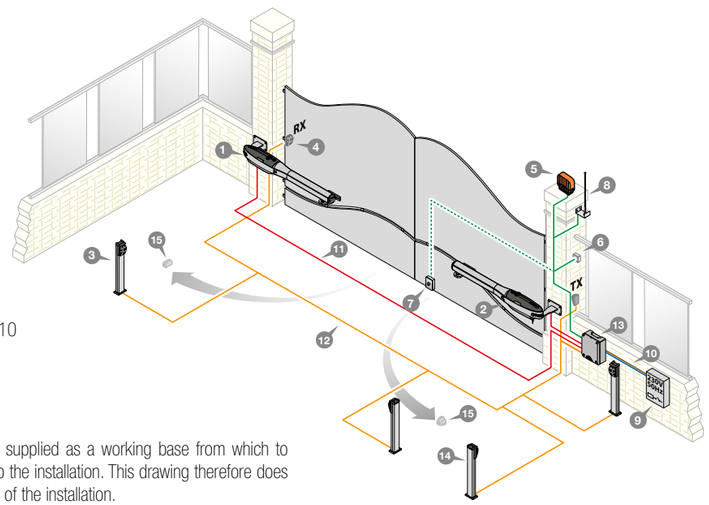


BLESOL (1040 x 131 x 110)

INSTALLATION EXAMPLE

LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights
6 Mechanical selector switch
7 Electric lock
8 External aerial
9 All pole circuit breaker
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Electronic programmer
14 Lateral protective photocells
15 Opening direction stop buffers



Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

WORM SCREW AUTOMATION FOR SWING GATES

CARDIN AUTOMATION SERIES BLADE



These reliable and robust rams, available in 24V intensive and 230V versions, are easy to fit without requiring brickwork, offer excellent service with regard to the number of manoeuvres and are particularly suited for installations with columns of all dimensions.

The following models are available:

- self-locking; the geared motor locks the gate leaf in the closed position.
- reversible; an electric lock must be fitted to guarantee that the gate leaf locks in the closed position.

The units do not feature on board electronics and we advise you to use the Cardin electronic programmers T624 - T600.

Gate positioning control is carried out via encoder with the help of mechanical travel limits and the self-programming system reduces installation times to a minimum and optimises the programming procedure.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

In case of blackouts, emergency manoeuvring is guaranteed (in the self-locking versions) by a practical lever-operated manual release system protected by a personalised key that is efficient under all working conditions.

An electric travel limit kit, guaranteeing precise control of the gate position, is also available.

The ram can be fitted with an external lever-operated locking and unlocking system using a remote cord.



STRUCTURE IN CAST ALUMINIUM



TRIANGULAR LOCK IN PLASTIC



WORM SCREW SYSTEM



LEVER ACTIVATED MANUAL RELEASE SYSTEM



ELECTRONIC PROGRAMMER WITH OPTIONAL OPEN COLLECTOR CARD

CARDIN AUTOMATION SERIES BL

BLADE324

ELECTROMECHANICAL RAM WITH A 24V MOTOR

Self-locking encoder-controlled ram with mechanical travel limits. The geared motor locks the gate leaf in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately T624.

Standard version for gates max. length 3m, max. weight 250kg.

24V | 3m max | 110° max | 250 kg



BLADE524

ELECTROMECHANICAL RAM WITH A 24V MOTOR

Self-locking encoder-controlled ram with mechanical travel limits. The geared motor locks the gate leaf in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets.

Cardin ECU to be ordered separately T624.

Long version for gates max. length 5m, max. weight 300kg.

24V | 5m max | 110° max | 300 kg



BLADE524REV

ELECTROMECHANICAL RAM WITH A 24V MOTOR

Reversible encoder-controlled ram with mechanical travel limits. An electric lock must be fitted to guarantee that the gate leaf locks in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets.

Cardin ECU to be ordered separately T624.

Long version for gates max. length 5m, max. weight 300kg.

24V | REV | 5m max | 110° max | 300 kg



For the electric locks see page 159.

CARDIN AUTOMATION
SERIES BL

ELECTROMECHANICAL RAM WITH A 230V MOTOR

Self-locking encoder-controlled ram with mechanical travel limits. The geared motor locks the gate leaf in the closed position. Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately T600.

Standard version for gates max. length 3m, max. weight 250kg.

230V | 3m max | 110° max | 250 kg

BLADE3



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Reversible encoder-controlled ram with mechanical travel limits. An electric lock must be fitted to guarantee that the gate leaf locks in the closed position. Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel. ECU to be ordered separately T600.

Standard version for gates max. length 3m, max. weight 250kg.

230V | REV | 3m max | 110° max | 250 kg

BLADE3REV



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Self-locking encoder-controlled ram with mechanical travel limits. The geared motor locks the gate leaf in the closed position. Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately T600.

Long version for gates max. length 5m, max. weight 300kg.

230V | 5m max | 110° max | 300 kg

BLADE5



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Reversible encoder-controlled ram with mechanical travel limits. An electric lock must be fitted to guarantee that the gate leaf locks in the closed position.

Supplied with all the fittings necessary for mounting one ram including the front and rear brackets in galvanised steel.

ECU to be ordered separately T600.

Long version for gates max. length 5m, max. weight 300kg.

230V | REV | 5m max | 110° max | 300 kg

BLADE5REV



For the electric locks see page 159.

AUTOMATION

CARDIN AUTOMATION
SERIES BL

MECHANICAL GATE LOCK
for installations with two gates and a horizontal electric lock.

BLA



FIXED BRACKETS
front and rear.

BLSTA



ADJUSTABLE BRACKETS
front and rear.

BLASR



ELECTRICAL TRAVEL LIMITS

for 3m gates.

FCAS



for 5m gates.

FCAL



5 TRIANGULAR KEYS
Triangular keys in plastic.

TRGKEY

CYLINDER LOCK
Cylinder lock with two keys.

SELLCK



ELECTRONIC PROGRAMMER
for one or two 230V encoder-controlled motors complete with torque adjustment and deceleration. Factory set for the insertion of an open collector receiver card.

T600



ELECTRONIC PROGRAMMER
for one or two 24V encoder-controlled motors complete with speed regulation (with ECU data exchange) and deceleration. Factory set for the insertion of an open collector receiver card.

T624

KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T1



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

SUNPOWER

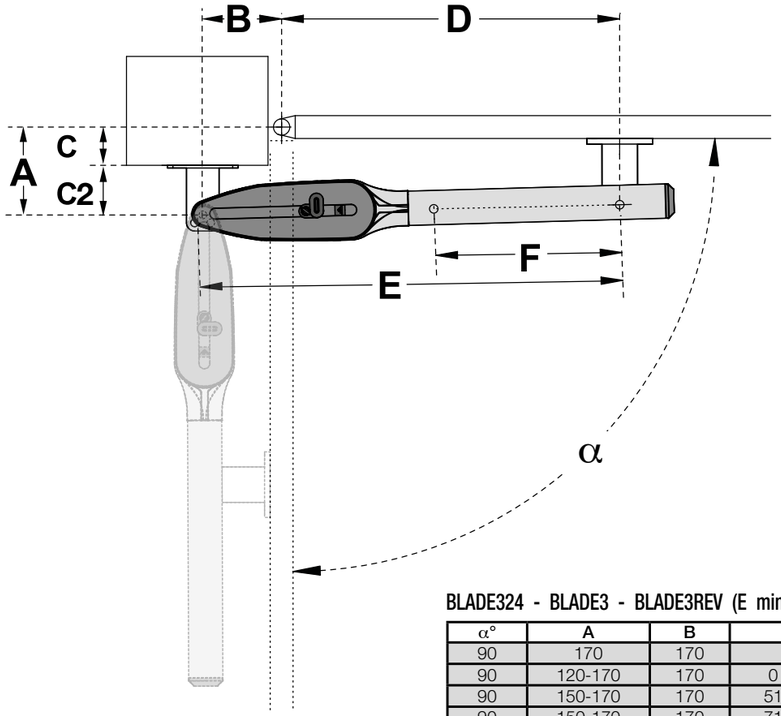


Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units. **See section 24V ECU INTERFACE DEVICES on page 178**

ECU data exchange

CARDIN AUTOMATION
SERIES BL

LIMITS OF USE **BLADE**



BLADE324 - BLADE3 - BLADE3REV (E min. 455 / E max. 805 / F = 350)

α°	A	B	C	C2	D
90	170	170	0	170	640
90	120-170	170	0 - 50	120	640
90	150-170	170	51 - 70	100	640
90	150-170	170	71 - 90	80	640
90	165-185	150	91-110	75	660
90	185-205	135	111-130	75	675
100	170	170	0	170	640
110	90-140	150	0 - 50	90	660
110	130-150	150	51 - 70	80	660
110	135-155	150	71 - 90	65	660

BLADE524 - BLADE524REV - BLADE5 - BLADE5REV: (E min. 455 / E max. 955 / F = 500)

α°	A	B	C	C2	D
90	170	180	0	170	780
90	170-220	200	0 - 50	170	760
90	210-240	200	51 - 70	160	760
90	210-240	200	71 - 90	120	760
90	220-240	190	91-110	100	770
90	240-270	170	110-130	90	780
110	170	180	0	170	780
110	170-220	200	0 - 50	170	760
110	210-240	190	51 - 80	160	765
110	210-240	190	81 - 120	120	765
110	220-240	190	121-150	90	765
100	240-270	180	151-180	90	775

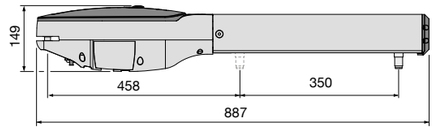
Note: for an optimised installation use the values highlighted in grey.

AUTOMATION

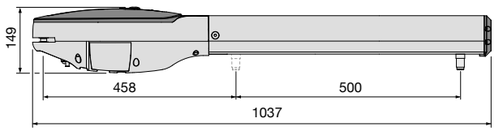
CARDIN AUTOMATION
SERIES BL

RAM SPECIFICATIONS		**BLADE324**	**BLADE3**	**BLADE3REV**	**BLADE524**	**BLADE524REV**	**BLADE5**	**BLADE5REV**
Motor power supply	V	24	230	230	24	24	230	230
Electrical input	A	2	1,6	1,6	2	2	1,6	1,6
Power input	W	60	370	370	60	60	370	370
Thrust	N	1900	2200	1900	1900	1900	2200	1900
Travel distance (worm screw)	mm	350	350	350	500	500	500	500
Duty cycle	%	70	30	30	70	70	30	30
Opening time 90°	s	15	20	18	20	20	28,5	26
Maximum opening angle	°	110	110	110	110	110	110	110
Protection grade	IP	44	44	44	44	44	44	44

OVERALL DIMENSIONS



BLADE324 - BLADE3 - BLADE3REV (887 x 149 x 112)

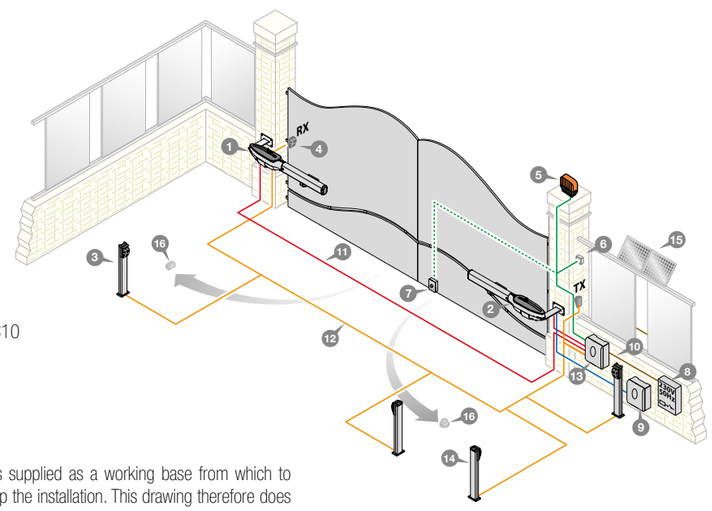


BLADE524 - BLADE524REV - BLADE5 - BLADE5REV (1037 x 149 x 112)

INSTALLATION EXAMPLE

LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights with aerial
6 Mechanical selector switch
7 Electric lock
8 All pole circuit breaker
9 Sun Power
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Electronic programmer
14 Lateral protective photocells
15 Solar panels
16 Opening direction stop buffers



Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

WORM SCREW AUTOMATION FOR SWING GATES

24V

CARDIN AUTOMATION SERIES BL TAG

These electromechanical rams with 24Vdc motors suitable for small residential installations with two swing gate leaves or one pedestrian gate are easy to fit without requiring brickwork and offer excellent service with regard to the number of manoeuvres.

Available in two models, right and left fitting, both of which are self-locking in order to guarantee that the gate remains locked in the closed position.

The units do not feature on board electronics and we advise you to use the Cardin electronic programmer T624.

Gate positioning control is carried out via encoder with the help of mechanical travel limits and the self-programming system reduces installation times to a minimum and optimises the programming procedure.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

In case of blackouts, emergency manoeuvring is guaranteed by a practical manual release system protected by a personalised key that is efficient under all working conditions.




FRONT BRACKET


REAR BRACKET


SHOCKPROOF COVER


MANUAL RELEASE MECHANISM


ELECTRONIC PROGRAMMER WITH OPTIONAL OPEN COLLECTOR CARD

CARDIN AUTOMATION SERIES BL

PRODUCT DESCRIPTION — ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 24V MOTOR
Self-locking encoder controlled ram, factory set for fitting to the right hand side of the installation. The geared motor locks the gate leaf in the closed position.
ECU to be ordered separately T624.
Standard version for gates max. length 2m, max. weight 150kg.

2m max · 100° max · 150 kg

BL TAGDX



ELECTROMECHANICAL RAM WITH A 24V MOTOR
Self-locking encoder controlled ram, factory set for fitting to the left hand side of the installation. The geared motor locks the gate leaf in the closed position.
ECU to be ordered separately T624.
Standard version for gates max. length 2m, max. weight 150kg.

2m max · 100° max · 150 kg

BL TAGSX



For the electric locks see page 159.

ELECTRONIC PROGRAMMER
for one or two 24V encoder-controlled motors complete with speed regulation (with ECU data exchange) and deceleration. Factory set for the insertion of an open collector receiver card.

T624



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T1



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

SUNPOWER

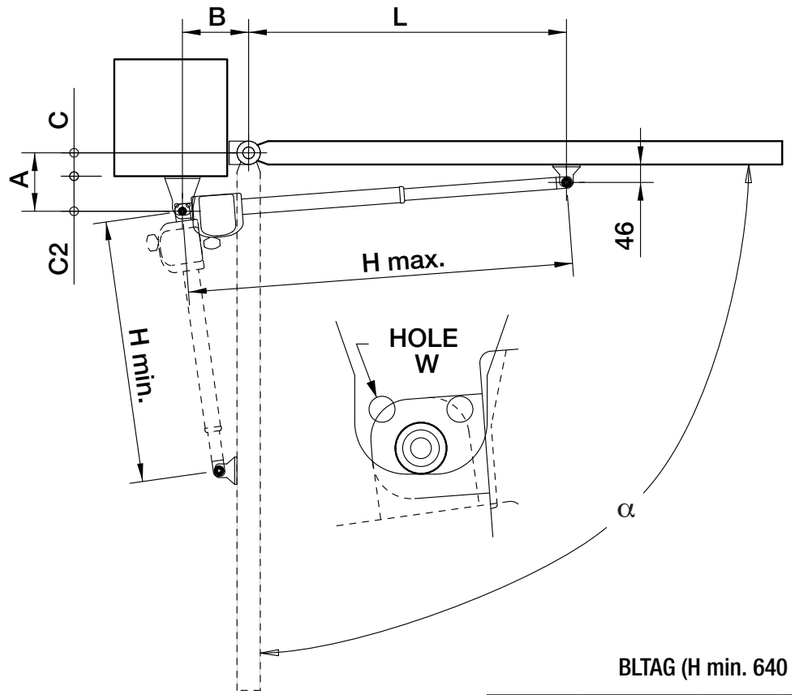


Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units. **See section 24V ECU INTERFACE DEVICES on page 178**

ECU data exchange

CARDIN AUTOMATION
SERIES BL

LIMITS OF USE **BLTAG**



BLTAG (H min. 640 - H max. 985)

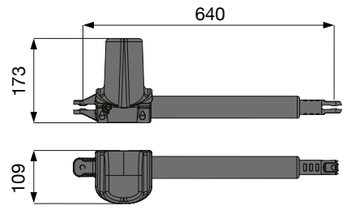
α°	A	B	C	C2	L
90	90	200	0	90	750
90	90-140	200	0 - 50	90	770
90	140-160	180	51 - 70	90	800
90	160-180	170	71 - 90	90	810
90	180-200	150	91-110	90	830
90	200-220	120	111-130	90	855
90	200-220	90	111-130	90	860
90	131-150 HOLE W	105 HOLE W	131-150	75 HOLE W	865
110	90	200	0	90	750
110	90-140	200	0 - 50	90	770
110	140-160	140	51 - 70	90	840
110	140-160	130	51 - 70	90	840

Note: for an optimised installation use the values highlighted in grey.

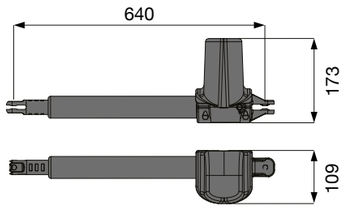
AUTOMATION

CARDIN AUTOMATION
SERIES BL

RAM SPECIFICATIONS		**BL TAGDX**	**BL TAGSX**
Motor power supply	Vdc	24	24
Nominal electrical input	A	3	3
Power input	W	70	70
Duty cycle	%	70	70
Opening time 90°	s	18	18
Maximum opening angle	°	100	100
Maximum thrust	N	1500	1500
Protection grade	IP	44	44



BL TAGSX (640 x 173 x 109)

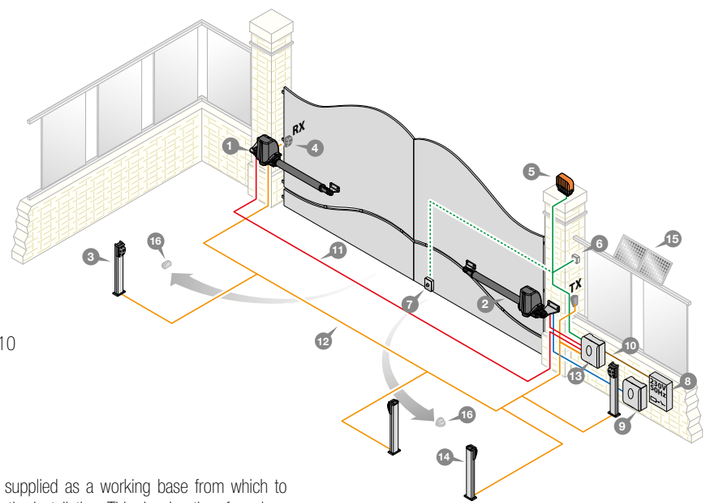


BL TAGDX (640 x 173 x 109)

INSTALLATION EXAMPLE

LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights with aerial
6 Mechanical selector switch
7 Electric lock
8 All pole circuit breaker
9 Sun Power
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Electronic programmer
14 Lateral protective photocells
15 Solar panels
16 Opening direction stop buffers



Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

HYDRAULIC AUTOMATION FOR SWING GATES

230V

CARDIN AUTOMATION SERIES BLUES

These hydraulic rams with 230V motors, are easy to fit without requiring brickwork, offer excellent service with regard to the number of manoeuvres and are particularly suited for installations with columns of all dimensions.

The following models are available:

- self-locking; the geared motor locks the gate leaf in the closed position.
- reversible; an electric lock must be fitted to guarantee that the gate leaf locks in the closed position.

The units do not feature on board electronics and we advise you to use the Cardin electronic programmers T600.

Gate positioning is carried out with the help of mechanical travel limits. Safe and versatile thanks to the independent torque and speed adjustment together with hydraulic deceleration.



Constant performance over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature using HOT (optional).

In case of blackouts, emergency manoeuvring is guaranteed (in the self-locking versions) by a practical manual release system protected by a personalised key that is efficient under all working conditions.



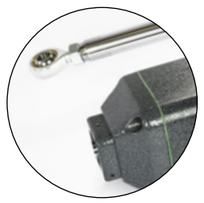
STAINLESS STEEL REAR BRACKET



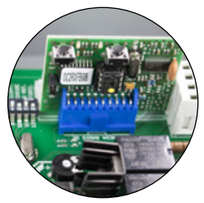
PERSONALISED KEY



MANUAL RELEASE USING AN ALLEN KEY



STAINLESS STEEL FRONT ATTACHMENT



ELECTRONIC PROGRAMMER WITH OPTIONAL OPEN COLLECTOR CARD

CARDIN AUTOMATION SERIES BL

HYDRAULIC RAM WITH A 230V MOTOR

Self-locking ram. The geared motor locks the gate leaf in the closed position.
ECU to be ordered separately T600.
Long version for gates max. length 4,5m, max. weight 500kg.

4,5m max | 105° max | 500 kg

BLUES5



HYDRAULIC RAM WITH A 230V MOTOR

Reversible ram. An electric lock must be fitted to guarantee that the gate leaf locks in the closed position.
ECU to be ordered separately T600.
Long version for gates max. length 4,5m, max. weight 500kg.

REV | 4,5m max | 105° max | 500 kg

BLUES5R



For the electric locks see page 159.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178

CARDIN AUTOMATION
SERIES BL

BRACKETS
front and rear brackets in galvanised steel.

BLSTABLUES



MECHANICAL GATE LOCK
for installations with two gates and a horizontal electric lock.

BLA

ELECTRONIC PROGRAMMER
for one or two 230V encoder-controlled motors complete with torque adjustment and deceleration. Factory set for the insertion of an open collector receiver card.

T600



ELECTRONIC HEATER
with a temperature probe for 230V motors.

HOT

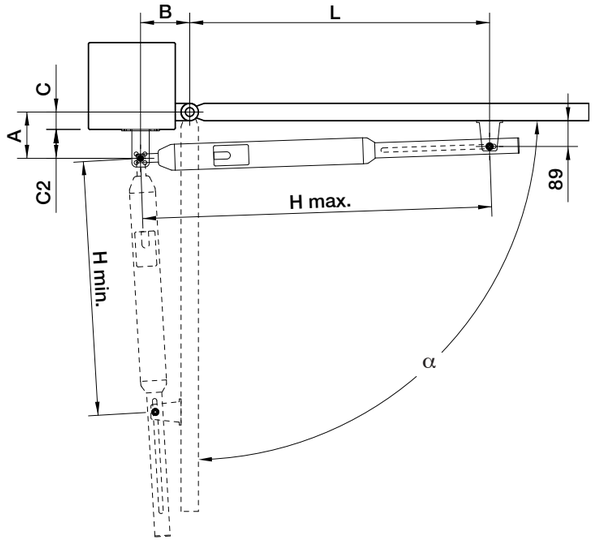


FLAGON OF OIL
5 litres.

TS30



LIMITS OF USE **BLUES**



BLUES5 - BLUES5R H min. 845 / H max. 1215)

α°	A	B	C	C2	L
90	170	180	0	170	1030
90	170	180	0 - 50	120	1030
90	170	180	51 - 70	100	1030
90	170	180	71 - 90	80	1030
90	170	80	71 - 90	170	1130
90	170	180	91-110	60	1030
90	170-190	180	111-130	60	1035
90	190-210	165	131-150	60	1050
90	210-230	145	151-170	60	1070
90	230-240	120	171-190	60	1090
110	160	165	0	160	1050
110	110-160	165	0 - 50	110	1050
110	140-160	165	51 - 70	90	1050
110	140-160	165	71 - 90	70	1050
110	140-160	125	71 - 90	40	1090
110	150-170	160	91 - 110	60	1055

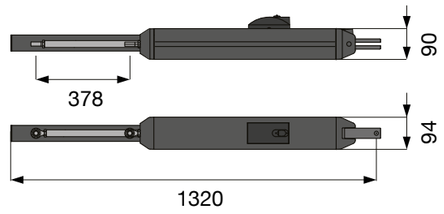
Note: for an optimised installation use the values highlighted in grey.

AUTOMATION

CARDIN AUTOMATION
SERIES BL

OPERATOR ARM TECHNICAL SPECIFICATIONS		**BLUES5**	**BLUES5R**
Motor power supply	Vac	230	230
Nominal electrical input	A	1,2	1,2
Power input	W	280	280
Duty cycle	%	70	70
Opening time 90°	s	30	30
Maximum opening angle	°	105	105
Thrust	N	3000	3000
Protection grade	IP	56	56

OVERALL DIMENSIONS

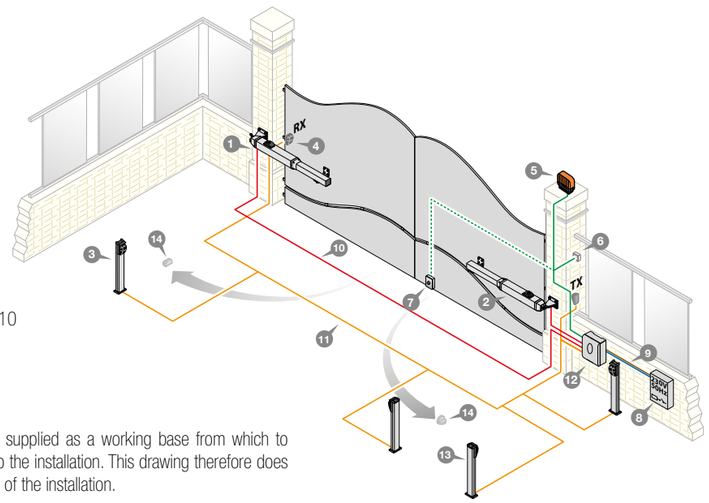


BLUES5 - BLUES5R (1320 x 90 x 94)

INSTALLATION EXAMPLE

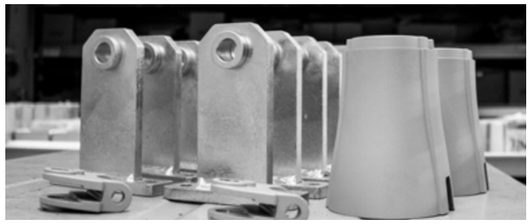
LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights with aerial
6 Mechanical selector switch
7 Electric lock
8 All pole circuit breaker
9 Mains cable 230Vac
10 Channelling for Cardin connection cable CABPC10
11 Channelling route for low voltage wires
12 Electronic programmer
13 Lateral protective photocells
14 Opening direction stop buffers

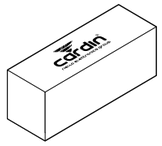


Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

COMPLETE KIT FOR SWING GATES



KT-BLEGOS



PACKING
DIMENSIONS: 920 x 190 x 280
GROSS WEIGHT: 20 kg
ITEMS PER PALLET: 9 pcs

USE
Worm screw automation for gates with a maximum length of **2,5m**, maximum weight **200kg**.

24V | 2,5m max | 200 kg

2 SELF-LOCKING ELECTROMECHANICAL RAMS
with a 24V encoder-controlled motor.

BLEGOS



ELECTRONIC PROGRAMMER
with a 433MHz FM receiver, battery charger and NiMH batteries, housed in an IP55 box with sealing gaskets and cable gland entry holes for the insertion of one Ø21 mm and two Ø16mm rigid tubes.
See page 168.

CC242EXTOPCB



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



10-METRE WIRING CABLE
with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SWING GATES



KT-BLADE324



PACKING
DIMENSIONS: 920 x 190 x 280
GROSS WEIGHT: 24 kg
ITEMS PER PALLET: 9 pcs

USE
Worm screw automation for gates with a maximum length of **3m**, maximum weight **250kg**.

24V | 3m max | 250 kg

2 SELF-LOCKING ELECTROMECHANICAL RAMS
with a 24V encoder-controlled motor and mechanical travel limits.

BLADE324



ELECTRONIC PROGRAMMER
for two 24V encoder-controlled motors complete with speed regulation and deceleration.

T624



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card.
S508 - S449 - S486 and EDGE versions are available on request.

RSQ5040C2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

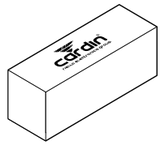
TARGA-INT



COMPLETE KIT FOR SWING GATES



KT-BLADE3



PACKING
DIMENSIONS: 920 x 190 x 280
GROSS WEIGHT: 24 kg
ITEMS PER PALLET: 9 pcs

USE
Worm screw automation for gates with a maximum length of **3m**, maximum weight **250kg**.

230V | 3m max | 250 kg

2 SELF-LOCKING ELECTROMECHANICAL RAMS
with a 230V encoder-controlled motor and mechanical travel limits.

BLADE3



ELECTRONIC PROGRAMMER
for two 230V encoder-controlled motors complete with speed regulation and deceleration.

T600



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card.
S508 - S449 - S486 and EDGE versions are available on request.

RSQ504OC2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



COMPLETE KIT FOR SWING GATES



KT-BLTAG



PACKING
DIMENSIONS: 720 x 260 x 330
GROSS WEIGHT: 12,5 kg
ITEMS PER PALLET: 16 pcs

USE
Worm screw automation for gates with a maximum length of **2m**, maximum weight **150kg**.

24V | 2m max | 150 kg

2 SELF-LOCKING ELECTROMECHANICAL RAMS
with a 24V encoder-controlled motor.

BL TAGDX

BL TAGSX



ELECTRONIC PROGRAMMER
for two 24V encoder-controlled motors complete with speed regulation and deceleration.

T624



2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card.
S508 - S449 - S486 and EDGE versions are available on request.

RSQ504OC2



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

VED0180



LED WARNING LIGHT
24V - 230V with an in-built aerial

ICON



INTERNATIONAL WARNING SIGN
in PP, multi-language.

TARGA-INT



UNDERGROUND AUTOMATION FOR SWING GATES

HLXCORE
UNDERGROUND AUTOMATION 100

CARDIN KIT HL
UNDERGROUND AUTOMATION 105



UNDERGROUND AUTOMATION FOR SWING GATES

CARDIN XCORE SERIES HL

The automation is made up of a series of components consisting of an electronic programmer, one or two sealed self-locking operators complete with embedding cases and a special connecting cable. The robust and reliable electromechanical operator guarantees optimum performance under all working conditions and its system of ball bearing balanced pivoting levers guarantees regular and silent running.

The hot dip galvanized or stainless steel embedding cases are guaranteed to remain rust free throughout time.

Particularly suited for installations that do not allow column installations or where the automation has to be completely hidden.

The units do not feature on board electronics and we advise you to use a Cardin electronic programmer:

- PRG230M2 - T600 for 1 or 2 230V motors;
- CC242ETOPCB - CC242EXTOPCB for 1 or 2 24V motors;

On the 24V model gate position is encoder controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving.

The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions. The control electronics also comes complete with a display that monitors the programming stages and counts the number of manoeuvres carried out by the machine.

The irreversible reduction system guarantees the blocking of the gate in the closed position.

The manual emergency movement system is easy to operate using a personalised "locking-unlocking" key and rearming is automatic.





WATERTIGHT MOTOR IP67



STAINLESS STEEL OR HOT DIP GALVANIZED EMBEDDING CASE



ROTATION THROUGH 360°



PIVOTING ON BEARINGS



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY CC242ETOPCB - CC242EXTOPCB

CARDIN XCORE SERIES HL

ELECTROMECHANICAL OPERATOR WITH A 24V MOTOR FOR GATES WITH A 110° MAXIMUM OPENING ANGLE (360° WITH ACCHLXCORE360)

Encoder controlled self-locking operator:
- fitted with a crank rod transmission system;
- embedding case, Cardin electronic programmer and connection cable to be ordered separately.

24V | 3m max | 350 kg | 360° max

HLXCORE24



ELECTROMECHANICAL OPERATOR WITH A 230V MOTOR FOR GATES WITH A 110° MAXIMUM OPENING ANGLE (360° WITH ACCHLXCORE360)

Self-locking operator:
- fitted with a crank rod transmission system;
- supplied with a 6m connection cable;
- embedding case and Cardin electronic programmer to be ordered separately.

230V | 550 kg | 3m max | 360° max

HLXCORE230



EMBEDDING CASES
complete with connection lever and adjustable mechanical travel limits.

HLBOX - Hot dip galvanized anti-rust treatment, manual release mechanism to be ordered separately. Factory fitted with a hot dip galvanized steel cover.

HLBOX



HLBOXI - Structure completely in stainless steel, manual release mechanism to be ordered separately. Factory fitted with a stainless steel cover.

HLBOXI



HLBOXC - Hot dip galvanized anti-rust treatment, release mechanism with a personalised key included in the embedding case lever unit.
Factory fitted with a hot dip galvanized steel cover.
Not compatible with ACCHLXCORE360.

HLBOXC



STAINLESS STEEL COVER FOR EMBEDDING CASES

HLBOXCAI



CARDIN XCORE
SERIES HL

MANUAL RELEASE MECHANISM
with a personalised key for HLBOX-HLBOXI

SBLHL



MANUAL RELEASE MECHANISM
activated by means of a lever for HLBOX-HLBOXI

SBLSHL



MECHANICAL GATE LOCK
for installations with two gates and a horizontal electric lock.

BLA



ACCESSORY FOR 360° OPENING
with pinion and chain. Not compatible with HLBOXC.

ACCHLXCORE360



ACCESSORY FOR 360° OPENING
with pinion and chain for HLBOXC.

ACCHLXCORE360C



SELF-PROGRAMMING ECU FOR HLXCORE24
Programmer for the control of two encoder controlled 24V motors.
Fitted with a multi-decoding module S449-S486-S504-S508.
Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178

ELECTRONIC PROGRAMMER

CC242ETOP



ECU, BATTERY CHARGER AND NiMH BATTERIES

CC242ETOPCB

ECU, BATTERY CHARGER AND NiMH BATTERIES

CC242EXTOPCB



KIT BATTERY CHARGER + NIMH BATTERIES
Allows the CC242ETOP unit to work during blackouts.

KBNIMH-1



For the electric locks see page 159.

AUTOMATION

CARDIN XCORE
SERIES HL

ELECTRONIC PROGRAMMER
for one or two 24V encoder-controlled motors complete with speed regulation (with ECU) and deceleration. Factory set for the insertion of an open collector receiver card.

T624



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T1



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

SUNPOWER



10m CABLE
with end sleeves for HLXCORE24.

CABPC10



ELECTRONIC PROGRAMMER FOR HLXCORE230
for one or two 230V encoder-controlled motors complete with torque adjustment and deceleration. Factory set for the insertion of an open collector receiver card.

T600



SELF-PROGRAMMING ECU FOR HLXCORE230
Programmer for the control of two motors.
Motor power supply 230Vac.
Maximum power yield for two motors 470 + 470 W.
The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card. For more information turn to page 174.

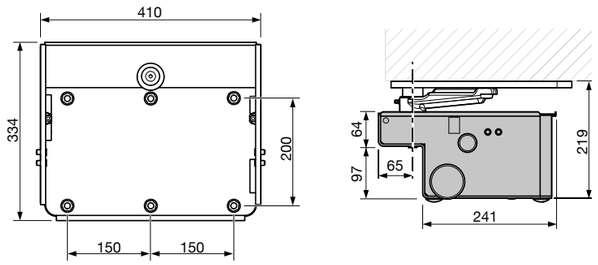
PRG230M2



CARDIN XCORE
SERIES HL

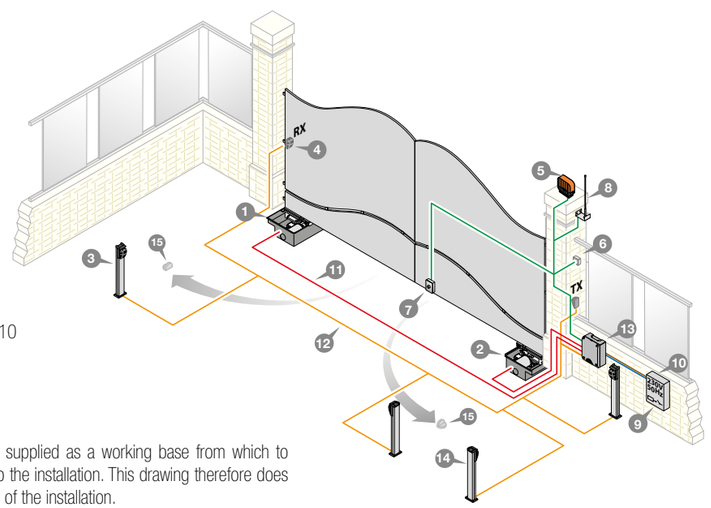
OPERATOR SPECIFICATIONS		HLXCORE24	HLXCORE230
Motor power supply	V	24Vdc	230Vac
Electrical input	A	2	1,9
Power input	W	60	470
Duty cycle	%	70	20
Opening time 90°	s	22	19,5
Opening time 110°	s	27	25
Opening time 180°	s	44	35
Maximum torque	Nm	400	290
Nominal torque	Nm	270	-
Protection grade	IP	67	67

OVERALL DIMENSIONS



HLXCORE24 - HLXCORE230

INSTALLATION EXAMPLE



LEGEND

1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights
6 Mechanical selector switch
7 Electric lock
8 External aerial
9 All pole circuit breaker
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Electronic programmer
14 Lateral protective photocells
15 Opening direction stop buffers

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

COMPLETE UNDERGROUND AUTOMATION KIT FOR SWING GATES



KT-HLXCORE24CC



PACKING
DIMENSIONS: 400 x 400 x 600
GROSS WEIGHT: 62,9 kg
ITEMS PER PALLET: 5 pcs

USE
Particularly suited for installation that do not allow column installations or where the automation has to be completely hidden. For gates with a maximum length of **3m**, maximum weight **350kg**.

24V | 3m max | 350 kg

2 SELF-LOCKING ELECTROMECHANICAL GEARED MOTORS
with an encoder-controlled 24V motor.
HLXCORE24



ELECTRONIC PROGRAMMER
with a 433MHz FM receiver, battery charger and NiMH batteries, housed in an IP55 box with sealing gaskets and cable gland entry holes for the insertion of one Ø21 mm and two Ø16mm rigid tubes.
See page 168.
CC242EXTOPCB



2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.
TXQ504C4



PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.
CDR999



LED WARNING LIGHT
24V - 230V with an in-built aerial
ICON



10-METRE WIRING CABLE
with end sleeves.
CABPC10



INTERNATIONAL WARNING SIGN
in PP, multi-language.
TARGA-INT



COMPLETE UNDERGROUND AUTOMATION KIT FOR SWING GATES



KT-HLXCORE24T



PACKING
DIMENSIONS:400 x 400 x 600
GROSS WEIGHT: 62,9 kg
ITEMS PER PALLET: 5 pcs

USE
Particularly suited for installation that do not allow column installations or where the automation has to be completely hidden. For gates with a maximum length of **3m**, maximum weight **350kg**.

24V | 3m max | 350 kg

2 SELF-LOCKING ELECTROMECHANICAL GEARED MOTORS — HLXCORE24
with an encoder-controlled 24V motor.



ELECTRONIC PROGRAMMER — T624
for two 24V encoder-controlled motors complete with speed regulation and deceleration.



2-CHANNEL RECEIVER CARD — RSQ5040C2
433MHz open collector, slot-in card.
S508 - S449 - S486 and EDGE versions are available on request.



2 4-CHANNEL TRANSMITTERS — TXQ504C4
433MHz FM ROLLING CODE.



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS — VED0180
with adjustable lens, range 25m.



LED WARNING LIGHT — ICON
24V - 230V with an in-built aerial



INTERNATIONAL WARNING SIGN — TARGA-INT
in PP, multi-language.



COMPLETE UNDERGROUND AUTOMATION KIT FOR SWING GATES



KT-HLXCORE230T



PACKING
DIMENSIONS: 400 x 400 x 600
GROSS WEIGHT: 65,1 kg
ITEMS PER PALLET: 5 pcs

USE
Particularly suited for installation that do not allow column installations or where the automation has to be completely hidden. For gates with a maximum length of **3m**, maximum weight **550kg**.

230V | 3m max | 550 kg

2 SELF-LOCKING ELECTROMECHANICAL GEARED MOTORS — HLXCORE230
with a 230V motor. Supplied with a 6m connection cable.



ELECTRONIC PROGRAMMER — T600
for two 230V encoder-controlled motors complete with speed regulation and deceleration.



2-CHANNEL RECEIVER CARD — RSQ5040C2
433MHz open collector, slot-in card.
S508 - S449 - S486 and EDGE versions are available on request.



2 4-CHANNEL TRANSMITTERS — TXQ504C4
433MHz FM ROLLING CODE.



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS — VED0180
with adjustable lens, range 25m.



LED WARNING LIGHT — ICON
24V - 230V with an in-built aerial



INTERNATIONAL WARNING SIGN — TARGA-INT
in PP, multi-language.



INSIDE AUTOMATION FOR SWING GATES

CARDIN INSIDE
INSIDE AUTOMATION 110

CARDIN KIT BLi
INSIDE AUTOMATION 24V 113



INSIDE AUTOMATION FOR SWING GATES

CARDIN INSIDE SERIES BLi

Cardin inside identifies a line of products dedicated to the manufacturers of mass produced industrial gates and doors.

The Cardin inside devices are designed to be easily integrated into specially made structures. Integrating the automation device into the structure of the gate or door allows you to complete the automatic door while still in the factory, thus allowing the manufacturer to supply a complete product that has already been tested and complies with the machine directive.

This device has been created to be integrated into the structure of specially made hinged gates, either into the gate's upright (direct transmission) or into the gate support column (transmission to the gate leaf via a pinion or pulley).

The geared motor is self-locking and is fitted with a direct action hexagonal Allen key system.

The geared motor components are enclosed in a robust structure in spray-painted pressed aluminium with a high performance, robust, permanently lubricated two-stage epicycloid reduction unit connected to an efficient low voltage motor that allows silent running.

The operator is suitable for driving hinged gates up to 2,0 m in length and 200kg in weight per gate leaf. For gates longer than 2,5m an electric lock must be fitted.

The geared motor is made self-locking (on both gate leaves) by the use on an integrated electromagnetic lock which blocks the gate in the closed position.





CARTER IN SPRAY-PAINTED ALUMINIUM



DIAMETER Ø105



ROTATION ON BEARINGS



CABLE PROTECTION



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN INSIDE SERIES BLi

SELF-LOCKING BUILD-IN OPERATOR
with a 24Vdc encoder-controlled motor.
For gates max. 200kg.

2,5m max · 200 kg · 180° max

BLi1000



MECHANICAL TRAVEL LIMITS

Set of standard mechanical travel limits — **BLIFCM**



Set of 90° custom mechanical travel limits — **BLIFCM90**



Set of 120° custom mechanical travel limits — **BLIFCM120**



TRANSMISSION JOINTS

Set of transmission joints — **BLICRN**



ELECTRONIC PROGRAMMER FOR TWO MOTORS
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to counts and display the number of manoeuvres carried out by the machine and to rapidly set the system parameters. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). The events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178

ELECTRONIC PROGRAMMER FOR TWO MOTORS
Version with a battery charger and batteries. — **CC242EFAMCB**



ELECTRONIC PROGRAMMER FOR TWO MOTORS
Version without a battery charger and batteries. — **CC242EFAM**

KIT BATTERY CHARGER + NIMH BATTERIES
Allows the programmer CC242EFAM to work during blackouts. — **KBNIMH-1**



6-WIRE SPECIAL CONNECTING CABLE
100m (supplied on a special spool). — **CABPC100ST**



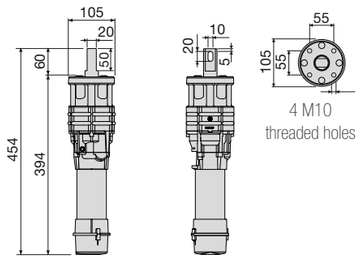
For the electric locks see page 159.

CARDIN INSIDE
SERIES BLi

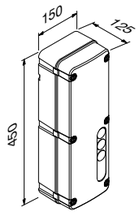
MOTOR SPECIFICATIONS		BLi1000
Motor power supply	Vdc	24
Nominal electrical input	A	2
Power input	W	50
Duty cycle	%	70
Opening time 90°	s	16
Maximum opening angle	°	180
Maximum gate weight	kg	200
Maximum gate length	m	2
Operating temperature range	°C	-20°…+55
Protection grade	IP	55

PROGRAMMER SPECIFICATIONS		
Power supply	Vac	230
Nominal electrical input	A	1,2
Maximum power yield	W	250
Power output for 1 or 2 motors	W	60 + 60

BUILT-IN RECEIVER CARD		
Reception frequency	MHz	433.92 / 868,3
Number of channels	No	4
Number of functions	No	8
Number of stored codes	No	300 / 1000

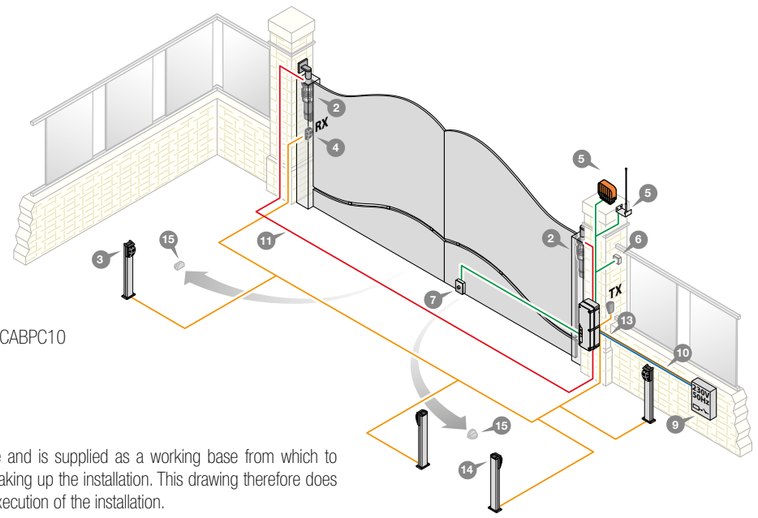


BLi1000



CC242EFAMCB

INSTALLATION EXAMPLE



LEGEND

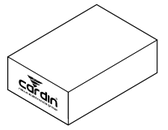
1 Geared motor (left)
2 Geared motor (right)
3 Internal photocells
4 External photocells
5 Warning lights
6 Mechanical selector switch
7 Electric lock
8 External aerial
9 All pole circuit breaker
10 Mains cable 230Vac
11 Channelling for Cardin connection cable CABPC10
12 Channelling route for low voltage wires
13 Electronic programmer
14 Lateral protective photocells
15 Opening direction stop buffers

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

INSIDE KIT FOR
SWING GATES



KT-BLi1000



PACKING
DIMENSIONS: 440 x 470 x 130
GROSS WEIGHT: 18,2 kg
ITEMS PER PALLET: 10 pz

The inside kit for swing gates with a maximum weight of 200kg contains two geared motors and an electronic control unit.

Special connection cable in a spool to be ordered separately.

The automation is encoder controlled by an external ECU factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The geared motors are connected to the electronics card by means of a six-wire, fast-fitting cable.

The electronic components are housed in a shockproof plastic container IP55 and the appliance is factory fitted with a multi-decoding module (system S449 - S486 - S504 - S508), a battery charger and NiMH batteries which allow the gate to be manoeuvred even during blackouts.

Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

2 SELF-LOCKING BUILD-IN OPERATORS
with an encoder-controlled 24Vdc motor
for gates:
- maximum length 2m (2,5m with an electric lock);
- maximum weight 200kg.

BLi1000



ELECTRONIC PROGRAMMER FOR TWO MOTORS
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.

CC242EFAMCB



AUTOMATION FOR GARAGE DOORS

RAPID SELECTION GUIDE 116

CARDIN AUTOMATION GL 118

AUTOMATION FOR COUNTERBALANCED DOORS

CARDIN AUTOMATION GL 122

AUTOMATION FOR SECTIONAL DOORS



GL
AUTOMATION FOR COUNTERBALANCED DOORS

(optional) NiMH · 24V

PRG · 2,7m h-max · 11m² · (optional)

2,7m h-max · 11m²



GLMECHA24M



GLMECHA24S

GL
AUTOMATION FOR SECTIONAL DOORS

(optional) NiMH · 24V · PRG

5,7m h-max · 25 m²



GL124EBSS

RAPID GUIDE GARAGE DOORS

GL
AUTOMATION FOR COUNTERBALANCED DOORS

230V

PRG · 2,7m h-max · 11m² · (optional)

2,7m h-max · 11m²



GLMECHA230M



GLMECHA230S

GL
AUTOMATION FOR SECTIONAL DOORS

(optional) NiMH · 24V · PRG

3,9m h-max · 9 m²

3,9m h-max · 12 m²



GLZEN60E



GLZEN100E

GARAGE AUTOMATION FOR COUNTERBALANCED DOORS

CARDIN AUTOMATION SERIES GL

A complete automatic device suitable for moving all types of counterbalanced garage doors. The compact and solid form makes this product a versatile machine that may be used safely and efficiently on all types of counterbalanced garage doors.
The automation consists of a compact single-piece geared reduction unit (with an incorporated encoder and bilateral manual release system) and is fitted with a reduction system made from materials that allow maximum efficiency and minimum noise. All the components making up the device: geared motor, transformer, electronic programmer and batteries (optional) are mounted on a robust chassis made of shockproof plastic and are separated and protected by a double carter that completely covers all the moving parts and safely houses all the cables and wiring. The second removable cover allows access to all the setting and program functions in complete safety. Internally, the carter contains the mechanism required to activate the manual release system and this allows the manoeuvre to be fluid and manageable under all working conditions whilst at the same time covering all possible manual release mechanisms installed by the door manufacturers: a handle directly installed on the geared motor, an external release cord or via a hexagonal key operated mechanism that is accessed through the door panel both to the right and to the left of the motor. The door position is encoder controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the door as it is moving.



The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions and a display that monitors the programming stages and counts the number of manoeuvres carried out by the machine.

Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508).

For garage doors larger than 4 metres and for garage doors with an in-built pedestrian door (mounted laterally) a second slave motor is required.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178


MANUAL RELEASE GLMECHA


REMOTE RELEASE RIGHT/LEFT


MOTOR SUPPORT BASE


SELF-PROGRAMMING


OPTIONAL NiMH BATTERIES

CARDIN AUTOMATION SERIES GL

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 MOTOR (433MHz)
Self-locking encoder-controlled Master automation with an in-built electronic programmer.
Operator arms are to be ordered separately.
Kit battery charger + batteries to be ordered separately.

24V · PRS · 2,7m h-max · 11m² · (optional) · + − NiMH (optional)

GLMECHA24M



ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Self-locking slave automation.
Use to supplement the GLMECHA24M units for particular installations that require two motors.
Operator arm to be ordered separately.

24V · 2,7m h-max · 11m²

GLMECHA24S



SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 230V MOTOR (433MHz)
Self-locking encoder-controlled Master automation with an in-built electronic programmer.
Operator arms are to be ordered separately.
Kit battery charger + batteries to be ordered separately.

230V · PRS · 2,7m h-max · 11m² · (optional)

GLMECHA230M



ELECTROMECHANICAL UNIT WITH A 230V MOTOR
Self-locking slave automation.
Use to supplement the GLMECHA230M units for particular installations that require two motors.
Operator arm to be ordered separately.

230V · 2,7m h-max · 11m²

GLMECHA230S



CARDIN AUTOMATION
SERIES GL

ADJUSTABLE BRACKETS — SRSTAR

Axle shaft supports.



ADAPTER KIT GL20-GLMECHA — GLJSTAP

Adapter kit to instal the GLMECHA garage door motor in an old GL20 installation



TRANSMISSION SHAFTS

20cm including support bracket. — AT20

150cm including support bracket. — AT150

200cm including support bracket. — AT200



TRANSMISSION ARMS

Two straight arms with round bushing for AT shafts. — BDB

One straight arm with grooved bushing for motor drive shaft. — BDBUS

Two curved arms with round bushing for AT shafts. — BCB



SUPPORT BRACKET

Motor support extension bracket, 2000mm — GL0PS2

Motor support extension bracket, 600mm — GL0PS06



EXTERNAL RELEASE CORD — GL24SB

length 2000mm



TRAVEL LIMIT KIT — GLMECHAFC

Travel limit kit for GLMECHA24

KIT BATTERY CHARGER + NIMH BATTERIES — KBNIMH-4

Allows the GLMECHA24M unit to work during blackouts.



BLUETOOTH MODULE — MODBT

The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.



DATA INTERFACE MODULE VIA CABLE — MODCA

The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function.



AUTOMATION

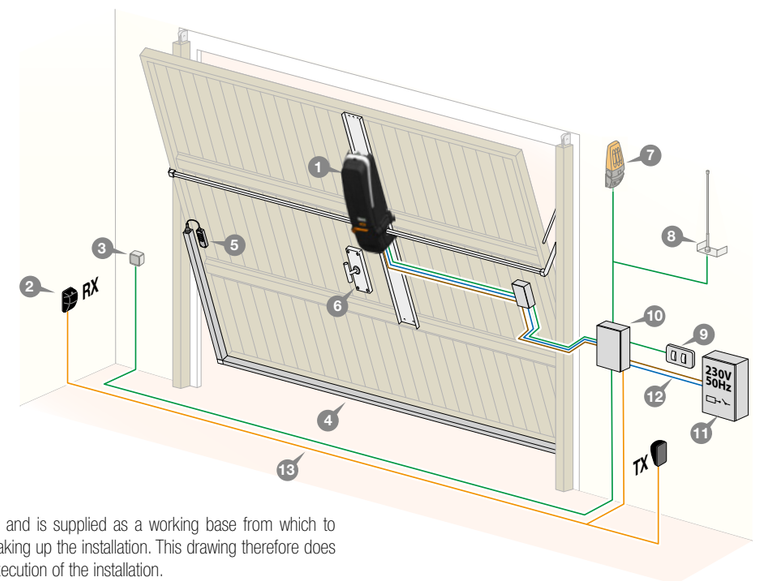
CARDIN AUTOMATION
SERIES GL

MOTOR SPECIFICATIONS		GLMECHA24M	GLMECHA230M
Motor power supply	V	24	230
Nominal electrical input	A	2	1,6
Power input	W	120	350
Duty cycle	%	70	25
Geared motor speed (at max. torque)	revs/min	1,3	1,6
Maximum torque	Nm	230	350
Operating temperature range	°C	-20°…+55°	-20°…+55
Protection grade	IP	54	54
PROGRAMMER SPECIFICATIONS PRGMECHA24/PRGMECHA230			
Power supply	Vac	230	230
Maximum electrical input (2 motors)	A	0,9	3
Maximum power yield (2 motors)	W	200	700
BUILT-IN RECEIVER CARD			
Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3
Number of channels	No	4	4
Number of functions	No	2	2
Number of stored codes	No	300 / 1000	300 / 1000



GLMECHA24M - GLMECHA230M

INSTALLATION EXAMPLE



LEGEND

1 Geared motor
2 Photoelectric cells
3 Mechanical selector switch
4 Anticrush safety edge
5 Radioshield
6 Release cord
7 External warning light
8 External aerial
9 Wall mounted switch TB - TD
10 Shunt box
11 All pole circuit breaker
12 Mains cable 230Vac
13 Channelling route for low voltage wires

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

CHAIN-GUIDED AUTOMATION FOR SECTIONAL DOORS



CARDIN AUTOMATION SERIES GL

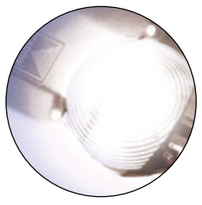
The chain guided automation GL124 is made up of two elements complete in all their parts, which are assembled by simply slotting them together. An efficient and aesthetically designed high performance propulsion unit, featuring new technical solutions, and fitted with all the elements for operation under all working conditions it slots together with an extruded aluminium chain driven transmission. The motor attachment and chain drive head on the guide are structurally optimised using nylon fibre. The compact and robust propulsion unit is commanded by state of the art logic based on encoder control, which tracks the movement of the door, and on a self-learning programming procedure.

The unit is fitted with a direct current motor which uses an efficient system of kinematics protected by a special anti drag element that cancels out vibrations and variations in movement that can occur during the work cycle. The automation is fitted with courtesy lights and NiMH batteries that guarantee emergency operation during blackouts. The integrated electronic programmer is housed in a protective well that only leaves access to the programming controls, display and circuit protection fuses.

The carriage slides along the chain guide on specially lubricated castors. The manual release mechanism used to detach the carriage from the chain guide is carried out using a release cord that separates the door from the automation. Repositioning takes place automatically whenever foreign objects get in the way of the door as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions and a display that monitors the programming stages and counts the number of manoeuvres carried out by the machine.

Chain guide to be ordered apart.




COURTESY LIGHT


ALUMINIUM CHAIN GUIDE


INTEGRATED ELECTRONICS


DIP-SWITCH SETTING


SELF-PROGRAMMING

CARDIN AUTOMATION SERIES GL

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24V MOTOR

Encoder controlled integral automation fitted with an electronic programmer, an S449 radio receiver card, battery charger and NiMH batteries.
Digital work time control.
Command inputs: TA, TC and TB.
Safety inputs: photocells, safety edge (N.C. contact or 8.2kΩ).
Chain guide to be ordered apart.

GL124EBSS





For sectional doors:
- maximum height 2.7m with a 3000mm chain guide;
- maximum height 3.2m with a 3500mm chain guide;
- maximum height 4.2m with a 4500mm chain guide;
- maximum height 5.7m with a 6000mm chain guide.

OPTIONAL SLOT-IN CARD

YPR124SCL00

Functions:
- traffic light output for 2 traffic lights (red, green);
- programmable potential free output, impulsive or continuous (courtesy light 100 W);
- digital safety edge management input.



CARDIN AUTOMATION
SERIES GL

ALUMINIUM CHAIN GUIDE

length 3000mm	GL124S30
length 3500mm	GL124S35
length 4500mm	GL124S45
length 6000mm	GL124S60



ADAPTER

Allows the chain guided automation to be used on counterbalanced garage doors.

GLBO



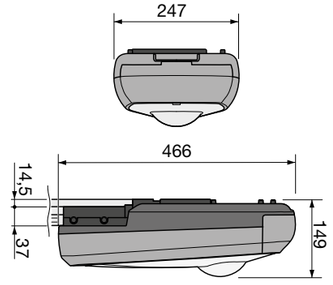
EXTERNAL RELEASE CORD

length 2000mm	GL20SB
length 4000mm	GL20SB4



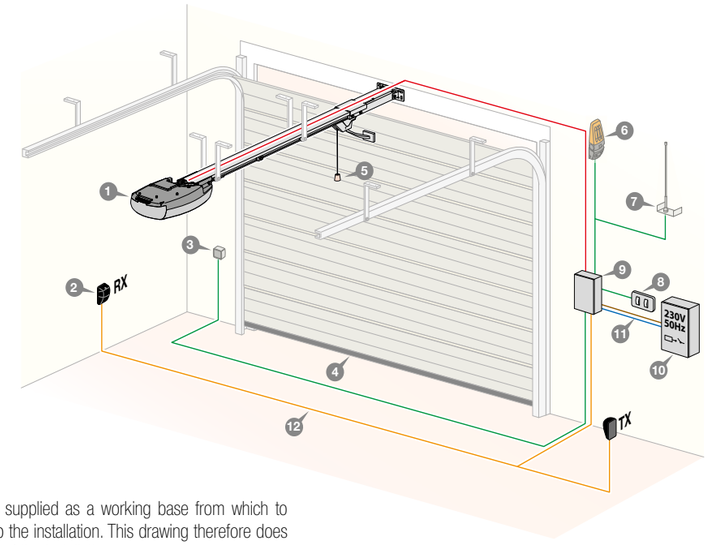
CARDIN AUTOMATION
SERIES GL

MOTOR SPECIFICATIONS		GL124EBSS
Motor power supply	Vdc	24
Nominal electrical input	A	3
Power input	W	130
Duty cycle	%	70
Drag speed	m/min	7
Maximum travel distance	mm	5700
Operating temperature range	°C	-20°…+55
Protection grade	IP	40
PROGRAMMER SPECIFICATIONS		
Power supply	Vac	230
Nominal electrical input	A	0,9
Maximum power yield	W	190
BUILT-IN RECEIVER CARD		
Reception frequency	MHz	433.92
Number of channels	No	4
Number of functions	No	2
Number of stored codes	No	300



GL124EBSS

INSTALLATION EXAMPLE



LEGEND

1 Geared motor + built-in programmer
2 Photoelectric cells
3 Mechanical selector switch
4 Anticrush safety edge
5 Release cord
6 External warning lights
7 External aerial
8 Wall mounted switch TB - TD
9 Shunt box
10 All pole circuit breaker
11 Mains cable 230Vac
12 Channelling route for low voltage wires

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

CHAIN-GUIDED AUTOMATION FOR SECTIONAL DOORS

24V · PRG · NiMH (optional)

CARDIN AUTOMATION SERIES GLZEN

TÜV APPROVED

Chain guided automation for residential sectional and counterbalanced doors up to 12m². An efficient and robust 24V propulsion unit with an in-built programmer fitted with all the elements for operation under all working conditions, it slots together with a steel chain driven transmission guide available in various lengths.

The propulsion unit is commanded by state of the art logic based on encoder control, with deceleration in the opening and closing directions, which tracks the movement of the door. The system is based on a self-learning programming procedure with function setting using dip-switches.

The automation is fitted with courtesy lights and an input specifically tailored for 8K2 safety edges.

The manual release mechanism used to detach the carriage from the chain guide is carried out using a release cord that separates the door from the automation. Repositioning takes place automatically whenever foreign objects get in the way of the door as it is moving. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

The complete range of products have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic, manual and remote control functions.

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

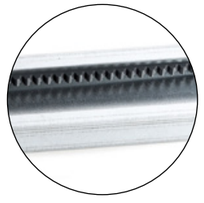
Chain guide to be ordered apart.

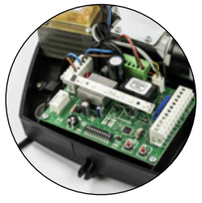



EXTERNAL RELEASE CORD


ROBUST PROTECTIVE CASING


LED LIGHTING


BELT GUIDE


INTEGRATED ELECTRONICS

CARDIN AUTOMATION SERIES GL

SELF-LOCKING GARAGE DOOR MOTOR
for residential use, with an encoder controlled 24V motor and in-built electronic programmer with LED courtesy lights.
Maximum drag force 600N.

3,9m h-max · 9 m²

GLZEN60E



SELF-LOCKING GARAGE DOOR MOTOR
for residential use, with an encoder controlled 24V motor and in-built electronic programmer with LED courtesy lights.
Maximum drag force 1000N.

3,9m h-max · 12 m²

GLZEN100E



BELT GUIDE

Pre-assembled single unit belt guide and accessories. (length 3200mm)

ZENGB1U

2 piece pre-assembled belt guide and accessories. (length 1600mm - 1600mm)

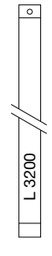
ZENGB2U

3 piece pre-assembled belt guide and accessories. (length 1600mm - 1600mm - 1060mm)

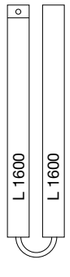
ZENGB4U



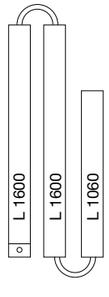




ZENGB1U



ZENGB2U



ZENGB4U

CARDIN AUTOMATION
SERIES GL

EXTERNAL RELEASE CORD KIT
with a personalised key for counterbalanced or sectional garage doors.

KSN



ADAPTER
Allows the chain guided automation to be used on counterbalanced garage doors.

GLBO



FASTENING BRACKETS

ZENST2



HOLDING BRACKET
Large holding bracket for heavy doors.

SUPZEN



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T2



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

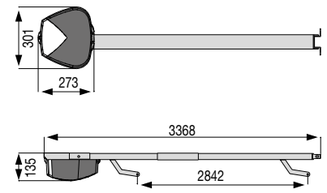
SUNPOWER



AUTOMATION

CARDIN AUTOMATION
SERIES GL

MOTOR SPECIFICATIONS		GLZEN60E	GLZEN100E
Motor power supply	Vdc	24	24
Nominal electrical input	A	4	5
Power input	W	100	130
Duty cycle	%	60	60
Drag speed	m/min	9	9
Maximum thrust	N	600	1000
Max. travel distance	mm	3900	3900
Operating temperature range	°C	-20°…+55	-20°…+55
Protection grade	IP	30	30
PROGRAMMER SPECIFICATIONS			
Power supply	Vdc	24	24
Nominal electrical input	A	4	4
Maximum power yield	W	230	260

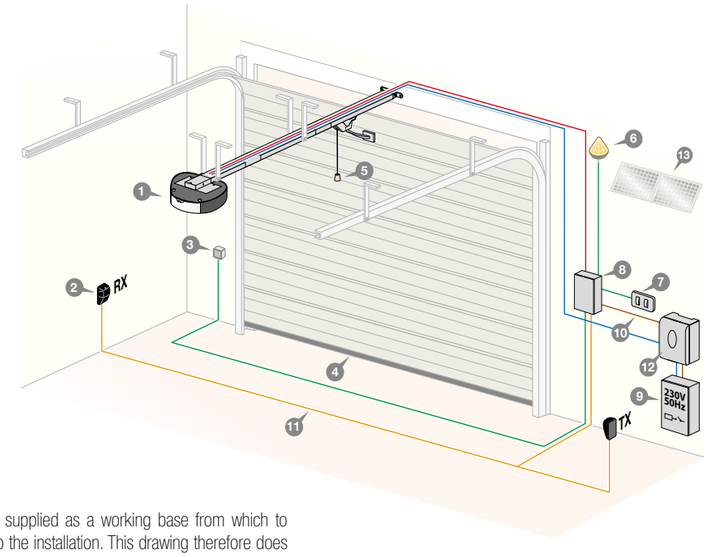


GLZEN60E - GLZEN100E

OPTIONAL RECEIVER CARD

The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

INSTALLATION EXAMPLE



LEGEND

1 Geared motor + built-in programmer
2 Photoelectric cells
3 Mechanical selector switch
4 Anticrush safety edge
5 Release cord
6 External warning lights with aerial
7 Wall mounted switch TB - TD
8 Shunt box
9 All pole circuit breaker
10 Mains cable 230Vac
11 Channelling route for low voltage wires
12 Sun Power
13 Solar panels

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

AUTOMATION FOR ROLLING SHUTTERS AND GARAGE DOORS

CARDIN AUTOMATION RL

132

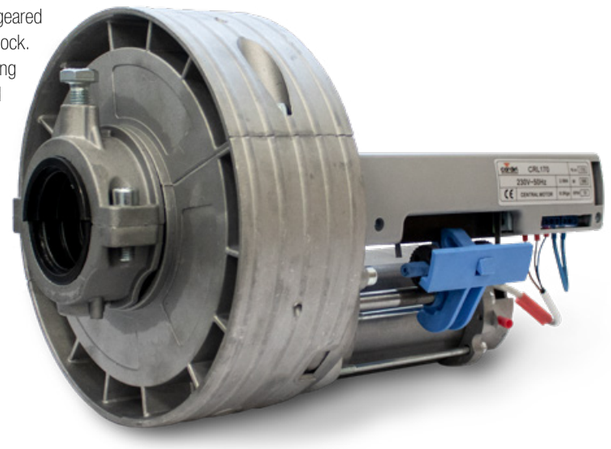


AUTOMATION FOR ROLLING SHUTTERS AND ROLL-UP GARAGE DOORS

230V

CARDIN AUTOMATION SERIES RL

230V automation for shutters, rolling grills and roll-up garage doors with a cast aluminium geared motor and crown wheel. Available as a reversible geared motor and in self-locking versions with an integrated electromagnetic lock. The modular motor is rapid and easy to install even on pre-existing systems without having to dismantle the rolling shutter drive shaft and spring holders.
The reversible version is ideal for lockable roll-up garage doors, while the self-locking version with an electromagnetic lock and manual release cable is more suited to installations not featuring tradition locking systems such as lock & key, door bolts, padlocks and electric locks etc.
An ample range of electronic programmers and selector switches is available for the manual, automatic and semi-automatic control of the RL series of motors.





ELECTROMAGNETIC LOCK STANDARD IN THE VERSIONS CRL170E - CRL180E - CRL360DE



CROWN WHEEL MOUNTED ON ROLLER BEARINGS



INTEGRATED OPENING AND CLOSING TRAVEL LIMITS



RAPID AND EASY ELECTRICAL CONNECTION



MANUAL RELEASE CABLE STANDARD IN THE VERSIONS CRL170E - CRL180E - CRL360DE

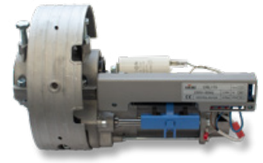
REVERSIBLE GEARED MOTOR FOR ROLLING SHUTTERS

230V geared motor permitting a maximum lifting power of 180kg. An electric lock must be fitted to guarantee that the rolling shutter locks in the closed position.
Precise and reliable, thanks to the integrated travel limits, this model may fitted to all types of rolling shutter with a 60mm or 48mm drive shaft diameter and a crown wheel diameter of 200mm e 220mm.
Maximum rolling shutter height 6m.

CRL 170

180 kg

REV

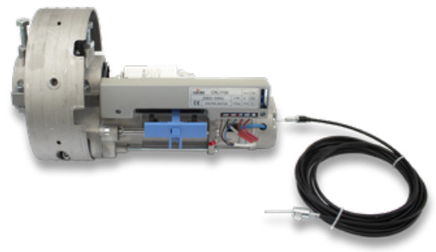


SELF-LOCKING GEARED MOTOR FOR ROLLING SHUTTERS

230V geared motor permitting a maximum lifting power of 180kg. Precise and reliable, thanks to the integrated travel limits and standard electromagnetic lock, this model may fitted to all types of rolling shutter with a 60mm or 48mm drive shaft diameter and a crown wheel diameter of 200mm e 220mm.
Maximum rolling shutter height 6m.

CRL 170 E

180 kg

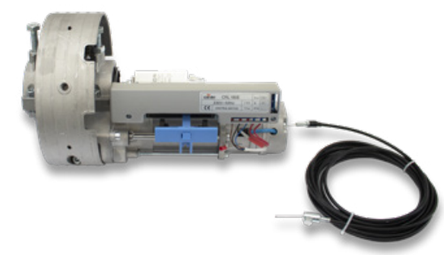


SELF-LOCKING GEARED MOTOR FOR ROLLING SHUTTERS

230V geared motor permitting a maximum lifting power of 180kg. Precise and reliable, thanks to the integrated travel limits and standard electromagnetic lock, this model may fitted to all types of rolling shutter with a 76mm drive shaft diameter and a crown wheel diameter of 240mm.
Maximum rolling shutter height 6m.

CRL 180 E

180 kg



SELF-LOCKING GEARED MOTOR FOR ROLLING SHUTTERS

Two 230V geared motors permitting a maximum lifting power of 360kg.
Precise and reliable, thanks to the integrated travel limits and standard electromagnetic lock, this model may fitted to all types of rolling shutter with a 76mm drive shaft diameter and a crown wheel diameter of 240mm.
Maximum rolling shutter height 6m.

CRL 360 DE

360 kg



CARDIN AUTOMATION
SERIES RL

ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR — **T21X**

ECU for rolling grills or rolling shutters max. 1300W. Ideal for tubular motors or rolling shutters and fitted with with torque limitation, a programmable 24V warning light output (flashing or continuous activation) and a 230V courtesy light output.
Protection grade IP55.
Overall dimensions 135 x 175 x 85



ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR — **T21B**

ECU for rolling grills or rolling shutters max. 1300W. Basic version upplied with a fitted RSQ5040C2 receiver card.
Protection grade IP55.
Overall dimensions 135 x 175 x 85



COMMAND CARD CONTROLLING ONE 230V MOTOR — **T1**

Ideal for the manual control of one rolling grill or rolling shutter motor.
Protection grade IP55.
Overall dimensions 58 x 125 x 84



RADIOPROGRAMMER FOR ROLLING SHUTTERS, SUN BLINDS AND AWNINGS (230V-1000W) — **RPQ504T10** / **RPQ508T10**

Logic integrated into the receiver with work time management and output for the control of one motor. Suitable for the command of automatic rolling shutters, sun blinds and awnings. Inputs for one opening and one closing command via cable. Manual operation in either the opening/closing or only closing direction.

Indoor box IP20.
Overall dimensions 106 x 36 x 21.



RADIOPROGRAMMERS FOR ROLLING SHUTTERS AND GRILLS (230V-630W) — **RPQ504** / **RPQ508**

Logic integrated into the receiver and output for the control of one motor. Power supply output for a pair of Cardin photoelectric cells. Possibility of memorising up to 1000 transmitters.
All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44.



ALUMINIUM KEY OPERATED SURFACE-MOUNT SWITCH — **SELRL1C**

Selector switch for the manual on-site activation of automatic gate and door systems. Container in cast aluminium
All weather box in AL - IP55.

Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Overall dimensions 79 x 72 x 44.



ALUMINIUM SURFACE-MOUNT BOX WITH SWITCH AND RELEASE LEVER — **SELRL3C**

Selector switch and release lever for the manual on-site activation of automatic gate and door systems. Container in cast aluminium
All weather box in AL - IP55.

Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Manual release lever
Overall dimensions 145 x 79 x 50.



ALUMINIUM KEY OPERATED SURFACE-MOUNT SWITCH — **SELMEC/E1**

Selector switch for the manual on-site activation of automatic gate and door systems. Container in cast aluminium with a shockproof plastic front piece. Anti-tampering system that is easy to install and easier to use.
All weather box in AL - IP55.

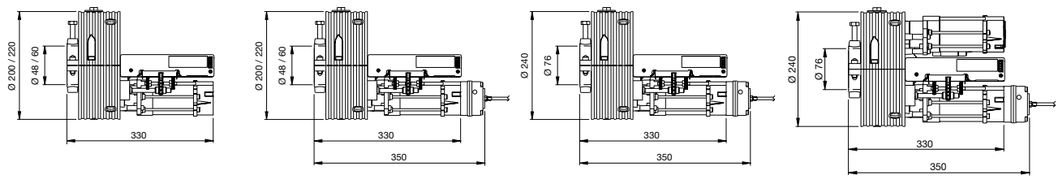
Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Overall dimensions 35 x 70 x 70.



AUTOMATION

CARDIN AUTOMATION
SERIES RL

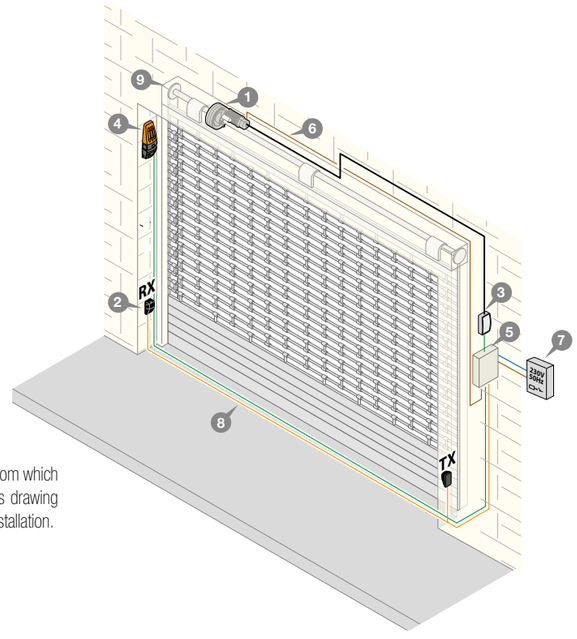
OVERALL DIMENSIONS



CRL 170 | **CRL 170 E** | **CRL 180 E** | **CRL 360 DE**

ELECTRONIC PROGRAMMER TECHNICAL DATA		CRL170	CRL170E	CRL180E	CRL360DE
Power supply	Vac	230	230	230	230
Frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60
Nominal electrical input	A	2,56	2,56	2,85	5,61
Power input	W	590	590	650	1290
Torque	Nm	180	180	210	360
Geared motor speed	rpm	10	10	9,5	9,5
Shaft	mm	48 / 60	48 / 60	Ø 76	Ø 76
Crown	mm	200 / 220	200 / 220	Ø 240	Ø 240
Weight	kg	8,5	9,5	10	14
Rolling shutter max. height	m	6	6	6	6

INSTALLATION EXAMPLE



LEGEND

1 Geared motor
2 Photoelectric cells
3 Wall mounted switches TA - TC / manual release cable
4 Warning light with inbuilt antenna
5 Electronic programmer
6 Mains wiring 230V
7 All pole circuit breaker with a minimum gap of 3 mm between the contacts
8 Channelling route for low voltage wires
9 Rolling shutter structure

Attention: The drawing is purely indicative and is supplied as working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.



AUTOMATION FOR ROAD BARRIERS AND PARKING PLACE PROTECTION

RAPID SELECTION GUIDE 138

CARDIN AUTOMATION EL 140

AUTOMATION FOR ROAD BARRIERS

CARDIN AUTOMATION PL

PARKING PLACE PROTECTION 152

EL

AUTOMATION FOR ROAD BARRIERS

CARDIN AUTOMATION

+ − NiMH · 24V · PRG · 128 PIX · M/S

3-5m 3-4 s



ELDOMSDG

6-8m 6-12s



ELDOMLDG

PL

PARKING PLACE PROTECTION

CARDIN AUTOMATION

+ − NiMH · 12V

8 s



PARKSUN - PARKSUN-SR

8 s



PARKSUN-BTS

8 s



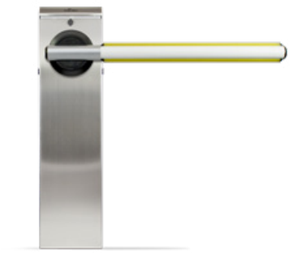
PARKLINE

EL

AUTOMATION FOR ROAD BARRIERS

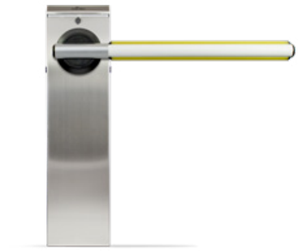
(optional) + − NiMH · 24V · PRG · OC · M/S

3m 1,8 s



ELSNAP-RAPID

3-4m 2,5 s



ELSNAPS

5-6m 7s



ELSNAPL

EL

AUTOMATION FOR ROAD BARRIERS

CARDIN AUTOMATION

(optional) + − NiMH · 24V · PRG · OC

4m 6 s



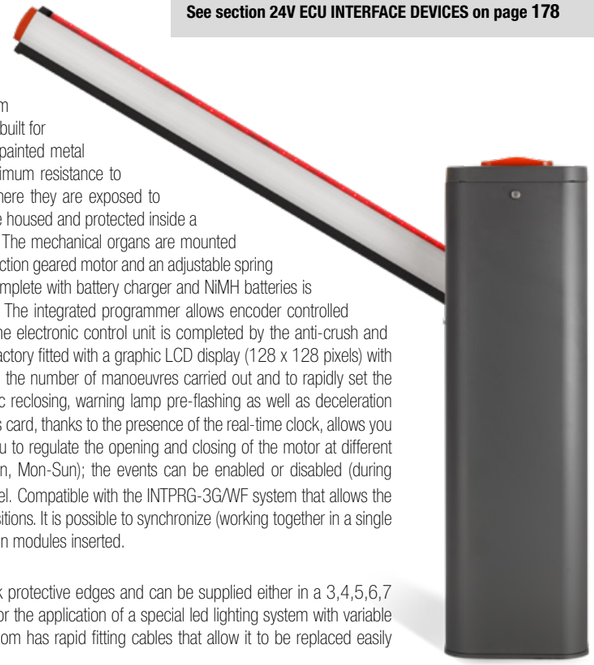
EL RAP4E

AUTOMATION FOR ROAD BARRIERS

CARDIN AUTOMATION SERIES EL

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



The latest addition to the company's range of road barriers is fitted with a 24Vdc motor and factory set for the application of 3, 4 or 5m booms (ELDOMS) and 6, 7 or 8m booms (ELDOML). Designed and built for use on car-parks of all dimensions this road barrier made of spray-painted metal (cataphoresis passivation + powder spray painting), offers the maximum resistance to the effects of weathering throughout time even in environments where they are exposed to corrosives such as saline elements or smoke. All the components are housed and protected inside a cabinet fitted with ample, extractable and lockable inspection panel. The mechanical organs are mounted on a robust steel chassis and consist of a highly efficient, double reduction geared motor and an adjustable spring loaded balancing system. The in-built command and control unit, complete with battery charger and NiMH batteries is located inside the cabinet and protected by a waterproof container. The integrated programmer allows encoder controlled boom positioning, automatic repositioning and self-programming. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions. The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to read the number of manoeuvres carried out and to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing as well as deceleration adjustment both in the opening and closing directions. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel. Compatible with the INTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions. It is possible to synchronize (working together in a single installation) two road barriers via cable, with the Cardin MODCA slot-in modules inserted.

Booms

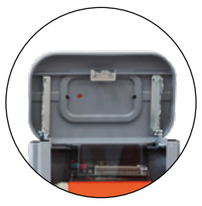
The barrier takes a special aluminium boom with rubber anti-shock protective edges and can be supplied either in a 3,4,5,6,7 or 8 metre version. The boom, to be ordered apart, is factory set for the application of a special led lighting system with variable flashing that illuminates it in whatever position it finds itself. The boom has rapid fitting cables that allow it to be replaced easily and quickly whenever necessary.
A special articulated aluminium boom with rubber anti-shock protective edges is also available. The boom consists of two parts for an overall length of 3m. The cast aluminium joint, which markedly reduces the height during opening, makes it ideal for use in installations such as underground car parks.



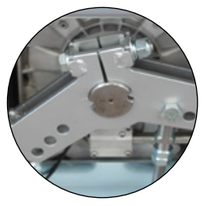
SPRAY-PAINTED ARTICULATED ALUMINIUM BOOM



ADJUSTABLE BOOM HOLDER RIGHT - LEFT



EXTRACTABLE KEY-LOCKED INSPECTION PANEL ELDOMSDG



REINFORCED BALANCE SYSTEM AND GEARED MOTOR PERSONALISED FOR THE 3,4,5 METRE BOOMS OF THE ELDOMSDG



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN AUTOMATION SERIES EL

SELF-PROGRAMMING ROAD BARRIERS WITH A 24V MOTOR
Encoder-controlled movement.
Lockable barrier cabinet complete with boom holder and LED warning lights built into the barrier's flip-back hood and key operated external manual release system.
Automation with an in-built electronic programmer featuring an LCD graphics display, multi-decoding radio receiver module S449-S486-S504-S508, 433MHz / 868,3MHz FM, NiMH batteries and a battery charger.
The S504 - S508 receiver module, features high security 128 bit cryptography, which allows transmitters to be enabled remotely thanks to the RFID technology built into the transmitters and the use of the code programming base PGBASE500.
The road barrier cabinet made of powder spray-painted metal is available in dark Slate grey RAL7015.
3m, 4m, 5m booms and the boom balancing springs are to be ordered apart.

ELDOMSDG



Slate grey RAL7015

SELF-PROGRAMMING ROAD BARRIER WITH A 24V MOTOR
Encoder-controlled movement.
Lockable barrier cabinet complete with boom holder and LED warning lights built into the barrier's flip-back hood and key operated external manual release system.
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The road barrier cabinet made of powder spray-painted metal is available in dark Slate grey RAL7015.
6m, 7m, 8m booms and the boom balancing springs are to be ordered apart.

ELDOMLDG



Slate grey RAL7015

GROUND FASTENING BASE PLATE
Counter-plate for preparing the barrier's ground fastening base. This accessory allows the installer to prepare the cement base with relative fastenings and cable channelling for the installation of the ELDOM barrier at a later date.

BASEDOMS
BASEDOML



CARDIN AUTOMATION
SERIES EL

SPRAY-PAINTED ALUMINIUM BOOMS
The barrier takes a special aluminium boom from 3 to 8 metres which is factory set for the application of a special led lighting system with variable flashing. A special articulated consisting of two parts for an overall length of 3m is also available.

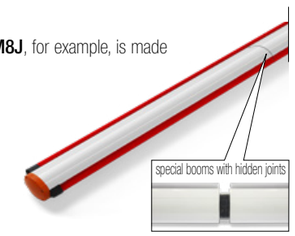
BOOMS FOR THE ROAD BARRIER CABINET ELDOMSDG

3m Boom	**DOM3**
4m Boom	**DOM4**
5m Boom	**DOM5**
3m ARTICULATED BOOM	**DOM3AS**



BOOMS FOR THE ROAD BARRIER CABINET ELDOMLDG
Booms marked with the letter '**J**' are special versions made up of mutiple pieces plus joints. The article number **DOM8J**, for example, is made up of two 4-metre booms and a hidden joint. Consult the table below for 6, 7 and 8 m boom configurations.

6m Boom	**DOM6J**
7m Boom	**DOM7J**
8m Boom	**DOM8J**



BOOM SAFETY DEVICE
Anti-collision system with roller bearings and plastic security screws that protects the DOM3 boom from accidental collision.

DOMAC



LED LIGHTS
Led lighting strips on a spool (only for Cardin booms with the orange rubber profile)

3m STRIP OF LED LIGHTING	**LED DOM3**
4m STRIP OF LED LIGHTING	**LED DOM4**
5m STRIP OF LED LIGHTING	**LED DOM5**
6m STRIP OF LED LIGHTING	**LED DOM6**
7m STRIP OF LED LIGHTING	**LED DOM7**
8m STRIP OF LED LIGHTING	**LED DOM8**



SPRINGS FOR ELDOM BARRIERS
To custom fit springs according to the length and weight of the boom consult the table below. The type and number of springs remains the same however many Cardin (ELUFS1, ELUFS1-ML, ELUMS1, ELSRS ecc.) accessories are added.



Barrier cabinet	Boom	Spring Art. Nr.	Colour code	Nr. of springs
ELDOMSDG	DOM3AS + CUSTOM (lengths less than 3 metres)	SP-YE	Yellow	1
	DOM3 (3 metres)	SP-GR	Green	1
	DOM4 (4 metres)	SP-RE	Red	1
	DOM5 (5 metres)	SP-BR	Brown	1
ELDOMLDG	DOM6 (2 3-metre booms)	SP-BL	Blue	1
	DOM7J - DOM7JL (1 4-metre boom + 1 3-metre boom)	SP-2BR	Brown	2
	DOM8J - DOM8JL (2 4-metre booms)	SP-2OR	Orange	2

AUTOMATION

CARDIN AUTOMATION
SERIES EL

SUPPORT FORKS / POLES

FIXED ALUMINIUM SUPPORT FORK (H 910mm)	**ELUFS1**
FIXED ALUMINIUM SUPPORT FORK (H 910mm) WITH AN ELECTROMAGNETIC SUCTION CUP	**ELUFS1-ML**
MOBILE SUPPORT POLE (H 1200mm)	**ELUMS1**



ALUMINIUM FOLD-UP MESH (L 2000 x H 610mm)	**ELSRA**
PLASTIC FOLD-UP MESH (L 2000 x H 610mm)	**ELSRS**



ACCESSORY BOX
Accessory box with DIN rails and fastening plates.

BOXDOM



ADHESIVE REFLECTIVE TAPE STRIPS FOR ELDOMS (3000 x 50mm) **ELREF3**
ADHESIVE REFLECTIVE TAPE STRIPS FOR ELDOMS (4000 x 50mm) **ELREF4**
ADHESIVE REFLECTIVE TAPE STRIPS FOR ELDOMS (5000 x 50mm) **ELREF5**



Note:
The **6-metre boom** requires two pieces of **ELREF3**
The **7-metre boom** requires one pieces of **ELREF3** + one piece of **ELREF4**
The **8-metre boom** requires two pieces of **ELREF4**

ADHESIVE REFLECTIVE TAPE (250 x 50mm)
Lots of 12 pcs.

ELSRE



DATA INTERFACE MODULE VIA CABLE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function.

MODCA



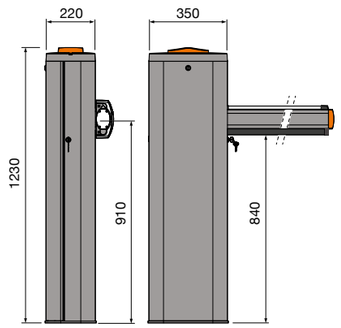
BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.

MODBT



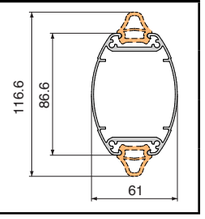
CARDIN AUTOMATION
SERIES EL

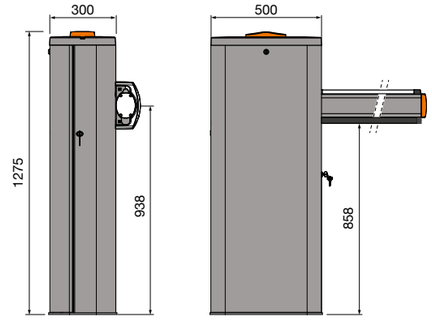
OVERALL DIMENSIONS



ELDOMSDG

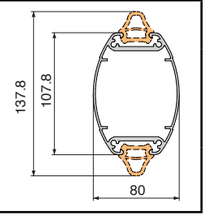
TECHNICAL DATA FOR THE ELDOMSDG BOOMS	
DOM3	**3m white RAL9010**
DOM4	**4m white RAL9010**
DOM5	**5m white RAL9010**
DOM3AS	**3m white RAL9010**





ELDOMLDG

TECHNICAL DATA FOR THE ELDOMLDG BOOMS	
DOM6J	**6m white RAL9010**
DOM7J	**7m white RAL9010**
DOM8J	**8m white RAL9010**

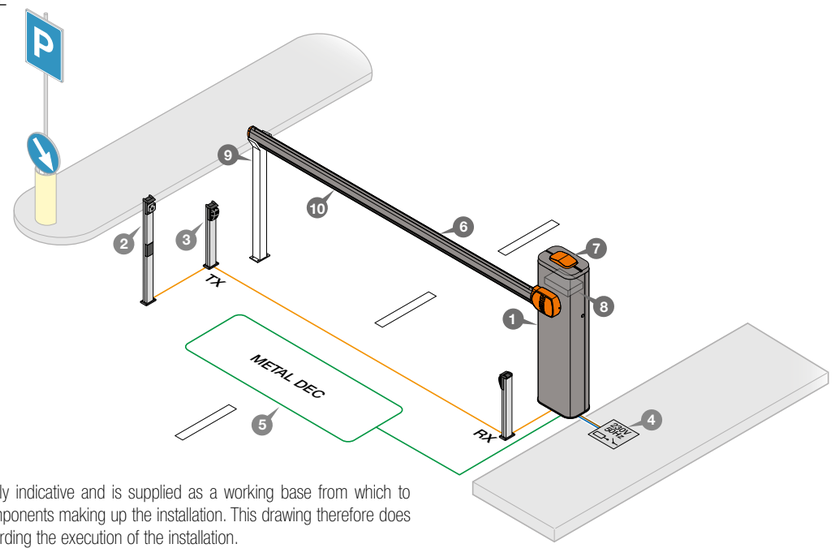


AUTOMATION

CARDIN AUTOMATION
SERIES EL

GENERAL CHARACTERISTICS		ELDOMS (3-5m)	ELDOML (6m-8m)
Mains power supply	Vac	230	230
Nominal electrical input	A	0,9	0,9
Power input	W	250	250
Duty cycle	%	90	90
Geared motor speed	revs/min	6	6
Opening time 90°	s	3…4	6…12
Passageway opening time (75°)	s	2	4
Maximum torque	Nm	180	180
Operating temperature range	°C	-20°…+55	-20°…+55
Protection grade	IP	54	54
MOTOR DATA			
Power supply	Vdc	24	24
Nominal electrical input	A	3	3
Maximum power yield	W	120	120
BUILT-IN RECEIVER CARD			
Reception frequency	MHz	433.92/868,3	433.92/868,3
Number of channels / Number of functions	No	4 / 8	4 / 8
Number of stored codes	No	300 / 1000	300 / 1000
BATTERY TYPE			
Model		NiMH	NiMH

INSTALLATION EXAMPLE



LEGEND

1 Road barrier
2 Mechanical selector switch
3 Photoelectric cells
4 All pole circuit breaker
5 Magnetic loop detector
6 Standard boom
7 Warning light
8 Electronic programmer
9 Fixed support fork
10 Passive safety edge

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

AUTOMATION FOR ROAD BARRIERS



CARDIN AUTOMATION SERIES EL

Road barrier with an enhanced geared motor powered by 24V, designed for access control of passageways up 6m with rapid and fluid boom movement.

The linear boom-holder cabinet made of robust steel panels spray-painted in different finishings allows the SNAP range of road barriers to blend in perfectly into the most modern of architectural urban contexts at the same time guaranteeing its reliability throughout time.

The SN24 control electronics has several stand-out characteristics beginning with the progressive, calibrated management of the motor power with the possibility to adjust the manoeuvring speed, the “master/slave” function allowing you to synchronise two barriers working in unison, internal diagnostics indicating main errors and the vast array of available command and safety accessories.

The integrated programmer allows encoder controlled boom positioning, automatic repositioning and self-programming. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

The installation and programming times are rapid and the electronic programmer is positioned in the hood of the structure allowing ease of access.

The barriers can be fitted with buffer batteries which allow them to function with the SUN POWER system for isolated installations where mains power supply is not available or where you simply wish to reduce energy costs.

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

ECU data exchange

See section 24V ECU INTERFACE DEVICES on page 178



HOOD WITH BUILT-IN BOOM MULTICOLOUR MOVEMENT LEDS

BOOM WITH LED LIGHTING

ALLEN KEY OPERATED MANUAL RELEASE SYSTEM

IN-BUILT ELECTRONIC PROGRAMMER

ROBUST SPRING BALANCED GEARS SYSTEM

CARDIN AUTOMATION SERIES EL

ELSNAP-RAPID

SELF-PROGRAMMING ROAD BARRIER WITH A 24V MOTOR
Encoder-controlled movement.
Robust, rapid opening road barrier designed to last through time, complete with boom holder, warning lights built in to the hood and an external Allen key operated release system.
The “master/slave” function allows you to synchronise two barriers working in unison.

Boom balancing spring included. Boom to be ordered apart.





ELSNAPS

SELF-PROGRAMMING ROAD BARRIER WITH A 24V MOTOR
Encoder-controlled movement.
Robust, rapid opening road barrier designed to last through time, complete with boom holder, warning lights built in to the hood and an external Allen key operated release system.
The “master/slave” function allows you to synchronise two barriers working in unison.

Boom and boom balancing spring to be ordered apart (see paragraph 'operational constraints' on page 150).





ELSNAPL

SELF-PROGRAMMING ROAD BARRIER WITH A 24V MOTOR
Encoder-controlled movement.
Robust barrier designed to last through time, complete with boom holder, warning lights built in to the hood and an external Allen key operated release system.
The “master/slave” function allows you to synchronise two barriers working in unison.

Boom and boom balancing spring to be ordered apart (see paragraph 'operational constraints' on page 150).





CARDIN AUTOMATION
SERIES EL

BOOMS
Rigid boom in white spray-painted aluminium. Length 3,25m Ø70mm. Complete with end caps and passive rubber safety edge.

SNAPPER3


L 3,25m

Rigid boom in white spray-painted aluminium. Length 4,25m Ø70mm. Complete with end caps and passive rubber safety edge.

SNAPPER4


L 4,25m

Rigid boom in white spray-painted aluminium. Length 5,25m Ø70mm. Complete with end caps and passive rubber safety edge.

SNAPPER5


L 5,25m

Rigid boom in white spray-painted aluminium. Length 6,25m Ø70mm. Complete with end caps and passive rubber safety edge.

SNAPPER6


L 6,25m

JOINT
for ELSNAP-RAPID - ELSNAPS. Maximum passageway 3 metres.

SNR SNAP



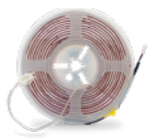
LED LIGHTS
Multicolour LED lighting strips on a spool.

3m STRIP OF LED LIGHTING — **LEDRG SNAPPER3**

4m STRIP OF LED LIGHTING — **LEDRG SNAPPER4**

5m STRIP OF LED LIGHTING — **LEDRG SNAPPER5**

6m STRIP OF LED LIGHTING — **LEDRG SNAPPER6**



SELF-PROGRAMMING ROAD BARRIER WITH A 24V MOTOR
Encoder-controlled movement.
24V road barrier spray-painted and cataphoresis treated complete with electronic programmer and encoder.
EL RAP4E is a light automation cabinet for tubular booms up to 4m long. The small size, simple programming and 24V encoder controlled geared motor give it an excellent price to performance ratio.

EL RAP4E



4m 6s

BOOM
Rigid tubular boom in white spray-painted aluminium Ø7cm, Length 4,25m for passageways up to 4m.

RAPPER4TL



AUTOMATION

CARDIN AUTOMATION
SERIES EL

ALUMINIUM FOLD-UP MESH (L 2000 x H 610mm) — **ELSRA**

PLASTIC FOLD-UP MESH (L 2000 x H 610mm) — **ELSRS**



SUPPORT FORKS / POLES

FIXED ALUMINIUM SUPPORT FORK (H 910mm)
(for ELSNAP-RAPID, 4, 5/6). — **ELUFS1**

FIXED ALUMINIUM SUPPORT FORK (H 910 mm)
with a magnetic suction cup (for ELSNAP-RAPID, 4, 5/6). — **ELUFS1-ML**

MOBILE SUPPORT POLE (H 1200mm)
(for ELSNAP-RAPID, 4, 5/6). — **ELUMS1**


ELUFS1
ELUFS1-ML

ELUMS1

ANCHOR PLATE
ground fastening base

FIX SNAP
FIX RAP4



ADHESIVE REFLECTIVE TAPE STRIPS.
for SNAP barriers. Lots of 12 pcs. — **STICKERS**



KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts. — **KBNIMH-T1**



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation. — **SUNPOWER**



BLUETOOTH MODULE
The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO. — **MODBT**



CARDIN AUTOMATION
SERIES EL

GENERAL CHARACTERISTICS		ELSNAP-RAPID	ELSNAPS	ELSNAPL	EL RAP4E
Mains power supply	Vac	230	230	230	230
Nominal electrical input	A	1,5	1	1,5	1
Power input	W	350	300	350	120
Duty cycle	%	70	70	70	50
Geared motor speed	revs/min	8,3	6	2,1	2,5
Opening time 90°	s	1,8	2,5	7	6
Passageway opening time (75°)	s	1,2	1,8	3	5
Maximum torque	Nm	750	600	750	260
Operating temperature range	°C	-20°…+55	-20°…+55	-20°…+55	-20°…+55
Protection grade	IP	54	54	54	54
MOTOR DATA					
Power supply	Vdc	24	24	24	24
Nominal electrical input	A	4,5	3,5	4,5	3
Maximum power yield	W	300	250	300	180

OPTIONAL RECEIVER CARD

The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

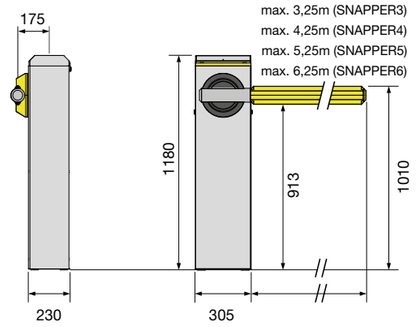
OPERATIONAL CONSTRAINTS

BOOM MAKE UP	3 METRES	4 METRES	5 METRES	6 METRES
SNAPPER3				
SNAPPER3 + ELUMS1				
SNAPPER3 + SNR SNAP				
SNAPPER3 + ELSRS				
SNAPPER3 + ELSRS + ELUMS1				
SNAPPER4				
SNAPPER4 + ELUMS1				
SNAPPER4 + SNR SNAP				
SNAPPER4 + ELSRS				
SNAPPER4 + ELSRS + ELUMS1				
SNAPPER5				
SNAPPER5 + ELUMS1				
SNAPPER5 + ELSRS				
SNAPPER5 + ELSRS + ELUMS1				
SNAPPER6				
SNAPPER6 + ELUMS1				
SNAPPER6 + ELSRS				
SNAPPER6 + ELSRS + ELUMS1				

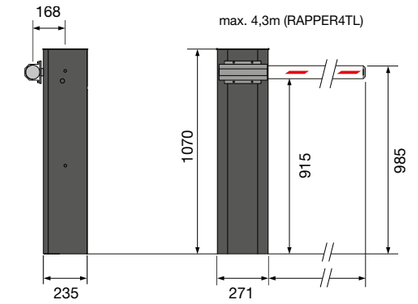
Barrier cabinet	Boom	Spring Art. Nr.	Colour code	Nr. of springs
ELSNAPS ELSNAPL	SNAPPER3	SP-YE	Yellow	1
	SNAPPER3 - SNAPPER4	SP-GR	Green	1
	SNAPPER4 - SNAPPER5	SP-RE	Red	1
	SNAPPER5 - SNAPPER6	SP-WH	White	1

AUTOMATION

CARDIN AUTOMATION
SERIES EL

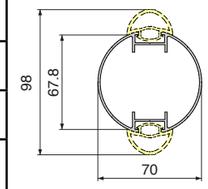


ELSNAP-RAPID - ELSNAPS - ELSNAPL

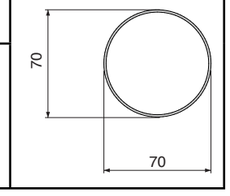


EL RAP4E

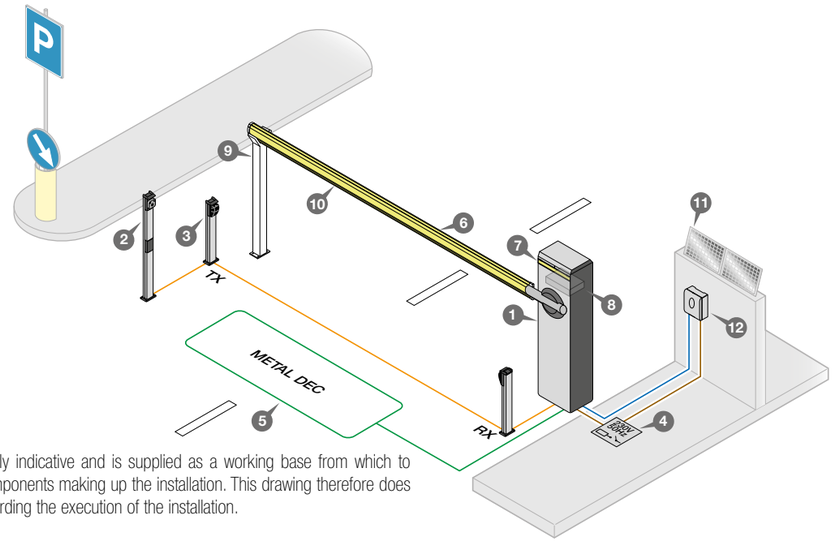
TECHNICAL DATA FOR THE ELSNAP BOOMS	
SNAPPER3	3m white RAL9010
SNAPPER4	4m white RAL9010
SNAPPER5	5m white RAL9010
SNAPPER6	6m white RAL9010



TECHNICAL DATA FOR THE ELRAP4E BOOM	
RAPPER4TL	4m white RAL9010



INSTALLATION EXAMPLE



LEGEND

1 Road barrier
2 Mechanical selector switch
3 Photoelectric cells
4 All pole circuit breaker
5 Magnetic loop detector
6 Standard boom
7 Led warning light
8 Electronic programmer
9 Fixed support fork
10 Passive safety edge
11 Solar panels
12 Sun Power

Attention: The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

SELF-POWERED ELECTROMECHANICAL PARKING PLACE PROTECTION

P

12V PRG 8s

CARDIN AUTOMATION SERIES PL

The PL (Parking Line) series consists of two parking space protection devices PARKSUN and PARKLINE which stand out from other similar products for their robustness and completely automatic electrical movement. Simple and practical to operate thanks to the remote control included in the system, a stainless steel arch rises up to prevent non authorised vehicles from using your personal parking space.

Both models are powered by heavy duty, long-life buffer batteries. The PARKSUN model does not require connection to external power sources as the batteries are recharged by an in-built solar panel, while the PARKLINE model requires an external battery charger powered by the mains. The PARKSUN-SR model is fitted with a solar panel and a vehicle presence detector which will automatically raise the arc when the vehicle leaves the parking place. The control panel has an in-built state-of-the-art S504 radio receiver card with 128 bit cryptography, "433MHz" FM ROLLING CODE and the possibility of memorising up to 1000 user codes. Various solutions have been adopted in the PARKING LINE systems in order to guarantee the safety and security of people and materials, foremost among which is the electronic sensor that inverts the movement of the arch whenever it encounter an obstacle and a mechanical shock absorbing device that reduces the effect of eventual crashes and bangs even when not in movement. The device is fitted with a key-operated manual release mechanism.

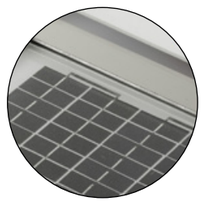
Rapid installation:

- does not require particular tools;
- for standard operation it does not require programming and travel limit setting;
- the code of the radio control transmitter supplied with the device is already stored in the control panel.





MECHANICAL SHOCK ABSORBER



SOLAR PANEL (PARKSUN VERSION)



STAINLESS STEEL ARCH



MANUAL RELEASE MECHANISM



S504 RADIO RECEIVER

CARDIN AUTOMATION SERIES PL

P

PARKING SPACE PROTECTION WITH A 12V MOTOR

The automation system consists of the PARKLINE parking lock plus:

- electronic programmer;
- built-in S504 receiver "433MHz" FM ROLLING CODE;
- one S504 pre-coded two-channel transmitter;
- buffer batteries.

PARKING SPACE PROTECTION WITH POWER SUPPLY CABLE

PARKLINE parking space protection with external battery charger powered from the mains or battery. The built-in control unit controls the battery charge so as to guarantee continuity of operation even without a power supply.
Parkline can operate up to 4 months without being connected to a mains power supply.

PARKLINE



SOLAR-POWERED PARKING SPACE PROTECTION

The self-powered parking space protection with built-in photovoltaic panel, can be installed anywhere as it needs no power cable.
The built-in control unit controls the photovoltaic panel and the battery to ensure maximum energy efficiency and continuity of operation. Even with no light whatsoever Parksun can operate for up to 4 months.

PARKSUN



SOLAR-POWERED PARKING SPACE PROTECTION + DETECTOR

PARKSUN-SR is equpped with a built-in vehicle presence detector.

PARKSUN-SR

CARDIN AUTOMATION
SERIES PL

SOLAR-POWERED PARKING SPACE PROTECTION + BLUETOOTH CONTROL

Parking-space protection with a 12V motor, built-in photovoltaic panel, vehicle presence detector and Bluetooth connection.
The PARKSUN-BTS parking-space protection is the ideal solution for tourism and hospitality establishments, sports facilities, as well as all other businesses that need a smart system capable of managing numerous bookings/reservations of parking spaces.

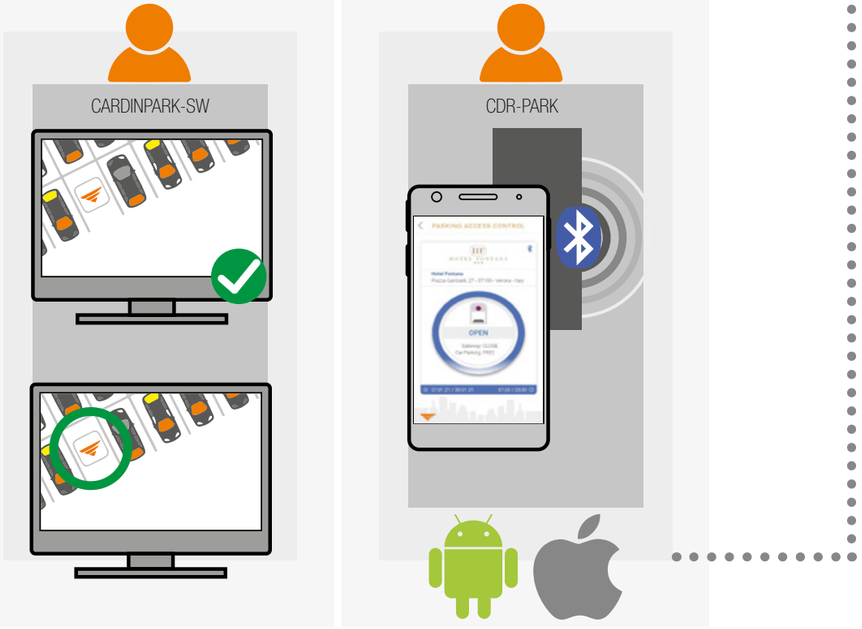
Configuring the system is quick and easy with the dedicated CARDINPARK_SW software, which allows the manager to reserve individual parking spaces for specific periods of time, manage reservations, and send email notifications to users.

Users can conveniently control the PARKSUN-BTS via Bluetooth using the CDR-PARK app (available for both iOS and Android) for the duration of the booking, making the parking experience more efficient and convenient.

PARKSUN-BTS







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AUTOMATION

CARDIN AUTOMATION
SERIES PL

GENERAL CHARACTERISTICS

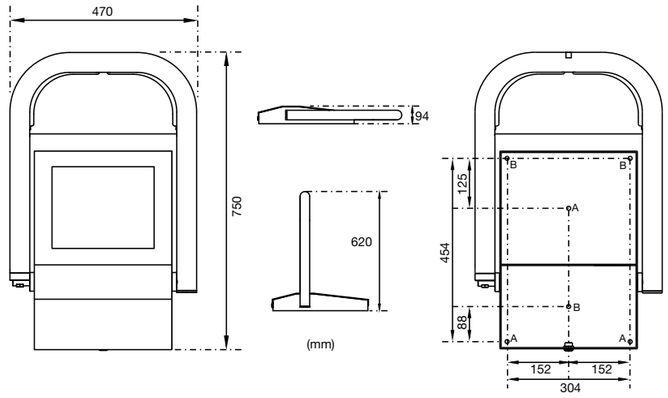
Mains power supply	Vdc	12
Battery	Vdc	12
Battery power supply	AH	7
Solar panel power (only Parksun)	W	5
Power consumption in standby	mA	1
Motor power consumption	A	1
Opening / closing time	s	8
Operating temperature range	°C	-20°…+55
Protection grade	IP	54
Weight	Kg	23

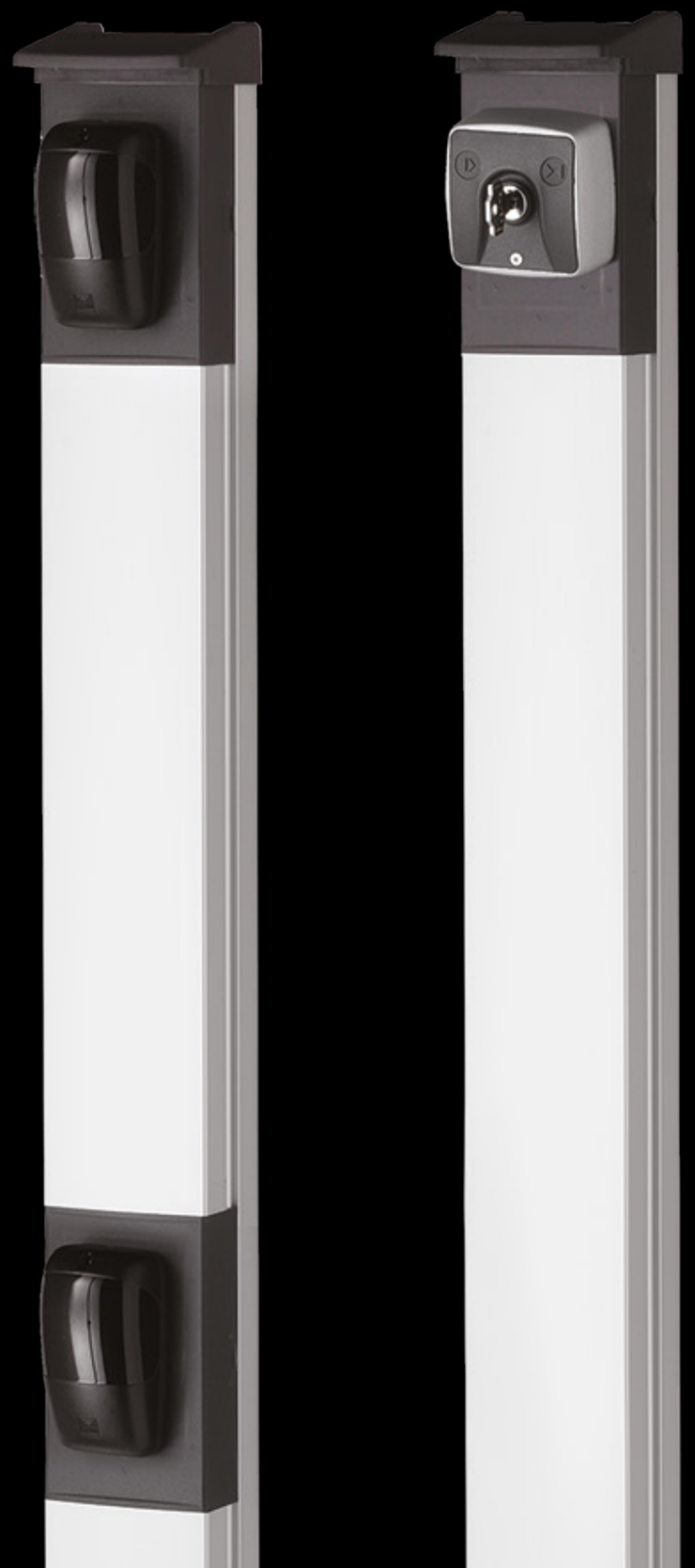
BUILT-IN RECEIVER CARD (S504)

Reception frequency	MHz	433.92
Number of channels / number of functions	No	4 /1
Number of stored codes	No	1000

OVERALL DIMENSIONS

470 x 750mm, height 620mm (94mm lowered arch)





MECHANICAL ACCESSORIES

COMPLIMENTARY EQUIPMENT 158

AUXILIARY AND SAFETY DEVICES 160

COMPLIMENTARY EQUIPMENT

A correctly installed system guarantees safety and reliability.

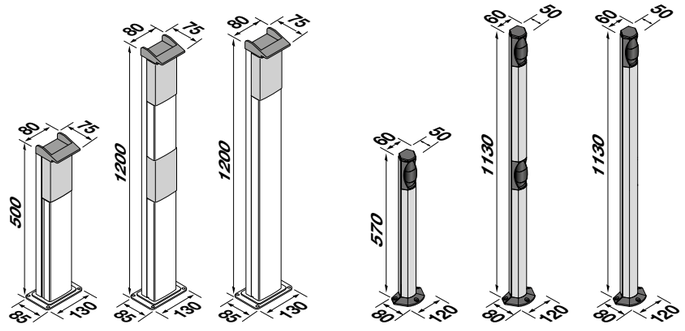
The installation must be carried out in conformity with the local standards and regulations in force and it therefore follows that all the components which make up the installation must be of high quality and also conform to these requirements. We advise you therefore to use Cardin electronic appliances to complete your installation.

The Cardin accessories are designed to enhance the performance of our appliances and are made of top quality materials in order to guarantee a long operating life and maintain the aesthetic characteristics throughout time.

All the accessories bearing the Cardin trademark are built specifically for use in automatic opening installations.

Systems such as the safety edges have been tested in order to guarantee ample safety margins in all situations.

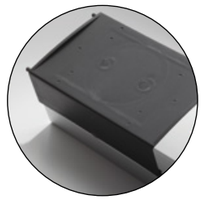




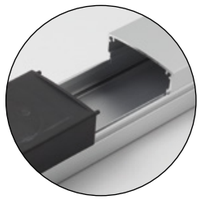
SEL50 SEL120D SEL120 POS50 POS110D POS110



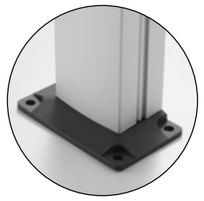
SELMEC MOUNTED ON A SEL120 COLUMN



FACTORY SET FOR THE APPLICATION OF CARDIN PHOTOELECTRIC CELLS AND SELECTOR SWITCHES



MODULAR STRUCTURE EASILY RECONDITIONED



IMPACT-RESISTANT MODULAR BASE PLATE



ELECTRIC LOCKS

INTERNATIONAL WARNING SIGN
in PP, multi-language. It is good practise to fit warning signs to your automatic installations and these should be placed where they can be easily seen.

SECTIONAL COLUMNS
Sectional columns to which all the CDR, SEL, APRO, VEDO and PASSO products can be fitted. They allow the installation of photoelectric cells and selector switches. The aluminium sectional structure makes them easy to reinstate after accidental knocks and bangs.

500mm COLUMN
for 1 surface-mounted or embedded photoelectric cell.

1200mm COLUMN
for a selector switch or keypad.

1200mm COLUMN
for 2 surface-mounted or embedded photoelectric cells.

FASTENING BASE
Fastening base for columns SEL50, SEL120, SEL120D.

2 x 570mm COLUMNS
in anodized aluminium, one section for APRO/VEDO and PASSO).

1130mm COLUMN
in anodized aluminium, one section for APRO/VEDO and PASSO.

1130mm COLUMN
in anodized aluminium, two sections for APRO/VEDO and PASSO.

FASTENING BASE
Fastening base for columns POS50 - POS110 and POS110D.

ELECTRIC LOCKS 12V
complete with accessories for the series BL - HL

ELECTRIC LOCK
Vertical/horizontal electric locking device

RIGHT FITTING ELECTRIC LOCK
with internal/external cylinder.

LEFT FITTING ELECTRIC LOCK
with internal/external cylinder.

ELECTRIC LOCK
rotating locking system without cylinder (European profile).

6-WIRE SPECIAL CONNECTING CABLE
100m (supplied on a special spool).

TARGA-INT



SEL50

SEL120

SEL120D



SELFIX



POS50

POS110

POS110D

POSFIX



ELV



XLSE10DX

XLSE10SX



XLSE12



CABPC100ST



AUXILIARY
AND SAFETY DEVICES

FOR SWING GATES, SLIDING GATES AND GARAGE DOORS

The safety edge is made up of a rubber profile with elastic impact absorption and an aluminium profile, which is fixed to the column or the gate and acts as a support for the safety edge. Its operating principle is based on detection (active along the entire length of the safety edge), via the crushing pressure applied by an obstacle or a mass that is located within the operating sphere of the closing device that is fitted with the protection. The deformation of the rubber profile causes the safety edge to create a contact, which is then sent (by cable or by radio) to a control centre, which in turn activates a STOP command.

Active mechanical safety edge with an N.C. contact for sliding gates / swing gates
The mechanical safety edge is used as a safety device in installations with automatic sliding gates with horizontal movement and on other closing device installations (hinged gates etc.), where there is a real risk of crushing or trapping.
Operation of the device is guaranteed by 2 micro-switches. Both of them intervene when the safety edge and/or the pliable end caps are deformed.

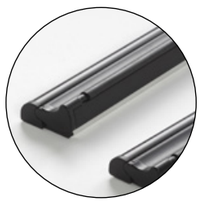
Safety edge for garage doors N.C. contact
This mechanical device is an extremely versatile safety edge in aluminium that can be fitted to overhead garage doors, rolling shutters and other industrial closing devices. The edges are fitted with sealed micro-switches and have a series of accessories permitting a variety of combinations and uses.

Low profile / high profile passive edge
Although it is not to be considered a safety device due to the absence of an electrical contact, the passive edge has the same dimensions and mechanical protective characteristics as the active safety edge and does supply valid absorption protection against impact. The low profile edge, which works as simple impact protection, is suitable for closing devices where passing room is limited.

Conductive safety edge 8,2kΩ contact
The safety edges are used to eliminate the risk of crushing or shearing caused by sliding doors, bulkheads, automatic gates etc. and respect the requirements of the impact curve as stipulated in EN12453. The edges are made up of a C-shaped aluminium support and a PVC profile in which a safety sensor has been inserted. When the profile is deformed or crushed the two metal contacts of the sensor come into contact causing the alarm situation. The ample height of the rubber profile and the insert in conductive rubber allow rapid intervention times fully respecting the standards and regulations in force.

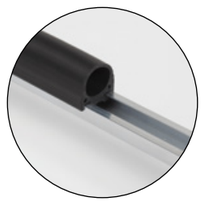
MECHANICAL / CONDUCTIVE
SAFETY EDGE

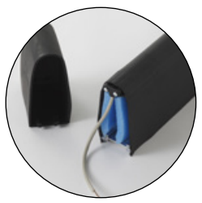



SAFETY EDGE FOR GARAGE DOORS N.C. CONTACT


TOTAL PROTECTION


HIGH PROFILE PASSIVE EDGE


LOW PROFILE PASSIVE EDGE


CONDUCTIVE SAFETY EDGE 8,2kΩ CONTACT

MECHANICAL AUXILIARY DEVICES FOR SWING / SLIDING GATES
High profile 61mm - contact output N.C. - colour black.

1.6-METER MECHANICAL EDGE CONTACT N.C.	**NC8K2L16N**
2-METER MECHANICAL EDGE CONTACT N.C.	**NC8K2L20N**
2.5-METER MECHANICAL EDGE CONTACT N.C.	**NC8K2L25N**
3-METER MECHANICAL EDGE CONTACT N.C.	**NC8K2L30N**



MECHANICAL AUXILIARY DEVICES FOR GARAGE DOORS
Low profile 26mm - contact output N.C. - colour black.

0.7-METER MECHANICAL EDGE CONTACT N.C.	**BBASL07N**
1-METER MECHANICAL EDGE CONTACT N.C.	**BBASL10N**
1.2-METER MECHANICAL EDGE CONTACT N.C.	**BBASL12N**
1.8-METER MECHANICAL EDGE CONTACT N.C.	**BBASL18N**
GARAGE DOOR EDGE RIGHT/LEFT END CAPS	**BBASDSTAP**
GARAGE DOOR EDGE RIGHT/LEFT CORNER PIECES	**BBASDSANG**



PASSIVE AUXILIARY DEVICES FOR SWING AND SLIDING GATES
High profile 70mm / low 30mm - colour black.

2-METER PASSIVE IMPACT EDGE (PROFILE 70mm)	**BP20BL**
3-METER PASSIVE IMPACT EDGE (PROFILE 30mm)	**CP30BL**
4-METER PASSIVE IMPACT EDGE (PROFILE 30mm)	**CP40BL**
5-METER PASSIVE IMPACT EDGE (PROFILE 30mm)	**CP50BL**



SAFETY DEVICES 8,2kΩ FOR SWING AND SLIDING GATES
High profile 95mm / low 61mm - contact 8,2kΩ with maximum detection speed 12 m/min - colour black

1.6-METER CONDUCTIVE SAFETY EDGE (PROFILE 95mm)	**BSH95L16**
2-METER CONDUCTIVE SAFETY EDGE (PROFILE 95mm)	**BSH95L20**
2.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 95mm)	**BSH95L25**
1.6-METER CONDUCTIVE SAFETY EDGE (PROFILE 61mm)	**BSH61L16**
2-METER CONDUCTIVE SAFETY EDGE (PROFILE 61mm)	**BSH61L20**
2.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 61mm)	**BSH61L25**





Stand out amongst
the waves

ELECTRONICS

164

ELECTRONIC PROGRAMMERS

The ideal control devices for efficient machines, easy to program and fitted with the correct answer for all possible situations.

180

ACCESS CONTROL

Access control systems for multi-user buildings, apartment blocks, residence halls, hotels, commercial and industrial businesses and any other location that requires you to program and manage access controls.

184

RADIO CONTROLS

The ideal system to command and control automatic access systems.
Extremely efficient, high quality devices designed not to disturb and not to be disturbed.
Products in FM, AM, transceivers and industrial with great range.

216

COMMAND AND SAFETY DEVICES

System for the command and control of access installations from a fixed position using secret codes or transponders.
Devices for detecting the presence of metallic masses in a magnetic field.
Wireless safety devices commanding safety edges.

226

INFRARED BARRIERS

Always ready in all situations, discreet control devices that increase safety.
A vast range of products covering all different applications and requirements.

242

WARNING LIGHTS

The efficient signal.
Distinguishable in all situations even when they are switched off.



ELECTRONIC PROGRAMMERS

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CARDIN PRG
FOR 24V MOTORS 168
FOR 230V MOTORS 170

CARDIN PRG-T
FOR 24V - 230V - 400V MOTORS 172
FOR ROLLING GRILLS / SHUTTERS 174
SOLAR PANEL POWER SUPPLY KIT 176

ECU DATA EXCHANGE
PROGRAMMER INTERFACE 24V 178

RAPID GUIDE

ELECTRONIC PROGRAMMERS

CARDIN PRG

PROGRAMMERS
FOR 24V MOTORS

(optional)

CC242ETOP
CC242ETOPCB



CC242EXTOPCB

CARDIN PRG

PROGRAMMERS
FOR 230V MOTORS



PRG230M2



PRG807001

RAPID GUIDE

ELECTRONIC PROGRAMMERS

CARDIN PRG-T

PROGRAMMERS
FOR 24V MOTORS

(optional)



T624



T101



T600



T400

CARDIN PRG-T

PROGRAMMERS
FOR ROLLING SHUTTERS



T1



T21X



T21B

ELECTRONIC PROGRAMMERS

MICROPROCESSOR CONTROLLED FOR 24V MOTORS

(optional)

CARDIN PRG

MAINS POWER SUPPLY 230Vac
MOTOR OUTPUT 24Vdc
PROTECTION GRADE IP55
FIREPROOFING GRADE V2
AUTOMATIC GATE/DOOR PROGRAMMING

Electronic devices for the control of automatic opening systems with one or two gate leaves: swing gates and garage doors. Powered by 24Vdc they intelligently manage the movement of the gate.

Available in the following versions:

- with gate positioning control and encoder;
- with timer-controlled movement.

Both are equipped with a 433MHz FM radio receiver card.

Specially studied and designed for this type of use, these Cardin programmers are fitted with digital "step by step" time programming which is easily carried out in real time while the gate is moving thus reducing the installation time.

Monitoring the current consumption allows the control of a sophisticated anticrush safety system and the "soft start" and "soft stop" functions reduce the stress on the mechanical components.

The simplified programming method uses one or two buttons (depending on the version) allowing all functions to be programmed rapidly.

ALL WEATHER CONTAINER ABS IP55 WITH WALL FASTENING ELEMENTS
The electronic components of the CC242ETOP series are housed in a container with sealing gaskets and cable gland entry holes for the insertion of Ø16mm rigid tubes.

The electronic components of the CC242EXTOPCB series are housed in a container with sealing gaskets with:

- cover closing system using rapid action hooks;
- removable plaque factory set for the fastening of up to five cable clamps;
- air circulation slits built into the container;
- removable support in nylon fibre housing the electronic appliances on DIN rails;
- a Ø21 mm cable clamp and two Ø16mm cable clamps.

CC242ETOPCB



CC242EXTOPCB





READY TO FIT RIGID TUBE ENTRY POINTS



Ø21 AND Ø16 CABLE GLANDS SUPPLIED WITH CC242EXTOPCB



433MHz OR 868MHz INTEGRATED RECEIVER CARDS



EMERGENCY NiMH BATTERIES IN THE CC242ETOPCB AND CC242EXTOPCB VERSIONS



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY CC242ETOP AND CC242EXTOPCB

ELECTRONICS

PRODUCT DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMERS FOR THE MANAGEMENT OF ONE OR TWO ENCODER-CONTROLLED MOTORS
Electronic programmer for encoder-controlled 24Vdc motors that allow the precise position control of hinged and sliding gates fitted with a multi-decoding module S449 - S486 - S504 - S508.
Batteries and battery charger in the CC242ETOPCB and CC242EXTOPCB versions.
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages.
The menu allows you to read the number of manoeuvres carried out and to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light, photoelectric cell function setting and electric lock enable etc.

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178

ELECTRONIC PROGRAMMER — **CC242ETOP**

CC242ETOP - CC242ETOPCB
Overall dimensions
210 x 300 x 120

ECU, BATTERY CHARGER AND NiMH BATTERIES — **CC242ETOPCB**

ECU, BATTERY CHARGER AND NiMH BATTERIES — **CC242EXTOPCB**



CC242EXTOPCB
Overall dimensions
150 x 450 x 125

DIAGNOSTIC INTERFACE VIA CABLE/BLUETOOTH — **SELINTBT8**
Diagnostic interface fitted with 8 LEDs that represent respectively the status of the 8 relay outputs. The status of the gate/boom and of the safety devices and controls of the system can be obtained by connecting the interface to a compatible Cardin control unit via MODBT Bluetooth or MODCA cable.
The Bluetooth module is to be ordered separately.



Overall dimensions
109 x 110 x 40

KIT BATTERY CHARGER + NiMH BATTERIES — **KBNIMH-1**
Allows CC242ETOP programmers to work during blackouts.



ELECTRONIC PROGRAMMERS

MICROPROCESSOR CONTROLLED FOR 230V MOTORS

230V

CARDIN PRG

MAINS POWER SUPPLY 230Vac
MOTOR OUTPUT 230Vac
PROTECTION GRADE IP55
FIREPROOFING GRADE V2

INTERFACE FOR A STANDARD SLOT-IN RADIO CARD
COMMAND INPUTS: TA, TC, TD, TB.

Electronic devices for the control of automatic opening systems. Specially studied and designed for this type of use, these Cardin programmers are fitted with digital "step by step" time programming which is easily carried out in real time while the gate is moving thus reducing the installation time.

The simplified programming method uses one or two buttons (depending on the version) allowing all functions to be programmed rapidly. In the double gate/door version the programming procedure is guided by a LED display.

The complete range of products have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic, manual and remote control functions (the product takes a Cardin standard slot-in receiver card).

Electronic devices for the control of automatic opening systems with one or two gate leaves: sliding gates, hinged gates and garage doors powered by 230Vac.

The complete range of programmers simplifies and solves all possible installation problems. The high product-quality level together with accurate design and a selective choice of materials allows trouble free operation and maximum reliability under all kinds of working conditions.



PRG230M2


AUTOMATIC CLOSING


WATERPROOF CONTAINER IP55


EXTRACTABLE TERMINAL BOARD


READY TO FIT RIGID TUBE ENTRY POINTS



LED DISPLAY

PRODUCT DESCRIPTION — ORDER NUMBER

ELECTRONIC PROGRAMMERS FOR THE CONTROL OF ONE 230V MOTOR WITH MAXIMUM POWER YIELD 450 W — **PRG807001**

Digital work time control. Possible operation without mechanical travel limits. Torque setting. Maximum power initial thrust control and torque limitation. The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card.

Suitable for the control of automatic gates and doors with one 230V motor.


Overall dimensions
210 x 300 x 105

ELECTRONIC PROGRAMMERS FOR THE CONTROL OF TWO 230V MOTORS WITH MAXIMUM POWER YIELD 470 + 470W — **PRG230M2**

Digital work time control separately memorised for each gate leaf guided by a 6-digit display. Possible operation without mechanical travel limits. Torque setting.

Maximum power initial thrust control, torque limitation and deceleration management with deceleration zone control. The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card.

Suitable for the control of automatic gates and doors with two 230V motors.



ADDITIONAL FUNCTION CARD — **SELSLC**

Optional card that allows you to extend the functions of the control units:
- Timer-controlled lamp 230Vac - 500W (electric lock or an electric brake can be fitted as an alternative);
- 8,2kΩ safety edge management.



CABLE GLANDS KIT — **XSL4DIE09960**

Cable glands 4 x Ø16mm.



ELECTRONIC PROGRAMMERS

SINGLE PHASE - THREE PHASE MOTORS FOR INDUSTRIAL INSTALLATIONS

CARDIN PRG-T

MAINS POWER SUPPLY: 230Vac/400Vac
MOTOR OUTPUT: 24V / 230V / 400V
PROTECTION GRADE IP55
FIREPROOFING GRADE V2

Electronic devices for the control of automatic opening systems with one or two gate leaves. Specially studied and designed for this type of use, these Cardin programmers are fitted with digital time programming thus reducing the installation time.

The appliances either work with encoder controlled or timer controlled gate positioning (automatic system detection).

The complete range of products have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic and remote control functions.

Compatible with the INTPRG-3G/WF system (T600 only) that allows you to control and program the system parameters from a remote location.

The complete range of programmers simplifies and solves all possible installation problems. The high product-quality level together with accurate design and a selective choice of materials allows trouble free operation and maximum reliability under all kinds of working conditions.

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

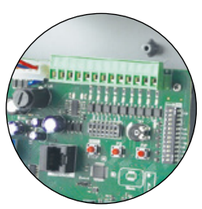
T600



T600 & T624:

Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.

See section 24V ECU INTERFACE DEVICES on page 178



OPTO-ISOLATED INPUTS WITH LED CONTROL



T400 ECU



EXTRACTABLE TERMINAL BOARD



ADJUSTABLE WALL FASTENING POINTS



SEALING GASKETS IP56

PRODUCT DESCRIPTION — ORDER NUMBER

ELECTRONIC PROGRAMMER FOR ONE 230V MOTOR
Encoder controlled programmer with torque limitation, deceleration and safety device exclusion via dip-switch.

T101



ELECTRONIC PROGRAMMER FOR ONE OR TWO 24V MOTORS
Encoder controlled programmer with torque limitation, deceleration, inputs for safety edges in both the opening and closing directions, safety device exclusion via dip-switch:
- second channel OC2 output (contact US1);
- connection for the keypad TAST3F;
- BSA and BSC inputs for 8K2 safety edges;
-Compatible with the SUN POWER system.

T624

(optional)



ELECTRONIC PROGRAMMER FOR TWO 230V MOTORS
Encoder controlled programmer with torque limitation, deceleration and safety device exclusion via dip-switch:
- new external 32VA transformer;
- third programming button;
- flashing warning light output;
- second channel OC2 output (contact US1);
- terminal blocks for motor capacitor connection;
- connection for the keypad TAST3F;
- BSA and BSC inputs for 8K2 safety edges.

T600



ELECTRONIC PROGRAMMER FOR ONE 400 V THREEPHASE MOTOR OR ONE SINGLEPHASE 230V MOTOR
Operation with or without encoder control.
Complete with self-learning function, two separate connections for balanced safety edges (EN 12978). Connection for slot-in radio card. Travel limit inputs.

T400



ELECTRIC LOCK MODULE
Electric lock card for T101.

MES



ADHESIVE KEYPAD
Adhesive keypad in polycarbonate complete with all wiring and connections. For indoor use, this keypad is easily attached to the box cover for ECU models: T624 - T600 - T400.

TAST3F

KIT BATTERY CHARGER + NiMH BATTERIES
Allows the 24V programmers to work during blackouts.

KBNIMH-T1



POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.
Two solar panels complete with adjustable brackets.
Watertight box with batteries, command electronics and charger.

SUNPOWER



ELECTRONIC PROGRAMMERS

FOR 230V ROLLING GRILLS AND ROLLING SHUTTERS

230V

CARDIN PRG-T

MAINS POWER SUPPLY 230Vac
MOTOR OUTPUT 230Vac
MOTOR POWER 1000W.
PROTECTION GRADE IP55
FIREPROOFING GRADE V2

Electronic devices for the control of 230V automatic rolling grills and rolling shutters. Specially studied and designed for this type of use, these Cardin programmers are fitted with digital time programming.

Dedicated to 230Vac they intelligently manage the movement of the gate.

The functions are programmed via dip-switches.

The electronic programmers T21X and T21B have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic, remote control and deadman operating functions and a 230V non-flashing warning light.

They are also factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

The high product-quality level together with accurate design and a selective choice of materials allows trouble free operation and maximum reliability under all kinds of working conditions.

The command card T1 is ideal for connecting the digital selector switch APRO and supplies a power output of 1000W for the dead man control of rolling grills or rolling shutters.

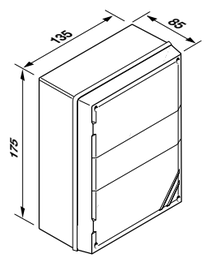
T21X



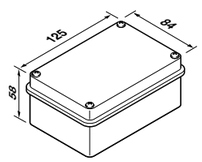
T1



OVERALL DIMENSIONS



T21X - T21B



T1

PRODUCT DESCRIPTION — ORDER NUMBER

ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR
ECU for rolling grills or rolling shutters max. 1300W. Ideal for tubular motors or rolling shutters and fitted with with torque limitation, a programmable 24V warning light output (flashing or continuous activation) and a 230V courtesy light output.
Protection grade IP55.

T21X



Overall dimensions
135 x 175 x 85

ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR
ECU for rolling grills or rolling shutters max. 1300W. Supplied with a fitted RSQ5040C2 receiver card.
Protection grade IP55.

T21B



Overall dimensions
135 x 175 x 85

COMMAND CARD CONTROLLING ONE 230V MOTOR
Ideal for the manual control of one rolling grill or rolling shutter motor.
Protection grade IP55.

T1



POWER SUPPLY KIT FOR SOLAR PANELS

PRG

24V

CARDIN TRADE SUN POWER

This product uses solar energy to power automatic devices for gates, garage doors, and road barriers etc. situated far away from the mains power lines, all without needing any sort of excavation or bric work. SUN POWER can be used with all compatible control units for 24Vdc motors, making them independent, reducing electricity costs and respecting the environment.



PRODUCT DESCRIPTION

POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation marked with the SUNPOWER symbol (with the exception of the PARKSUN series that has built-in solar panels).
Two solar panels complete with adjustable brackets.
Watertight box with batteries, command electronics and charger.

SUPPLEMENTARY SOLAR PANEL KIT
Two solar panels complete with adjustable brackets.

ORDER NUMBER

SUNPOWER



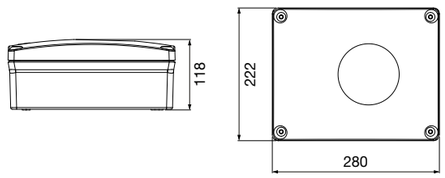
SPW10

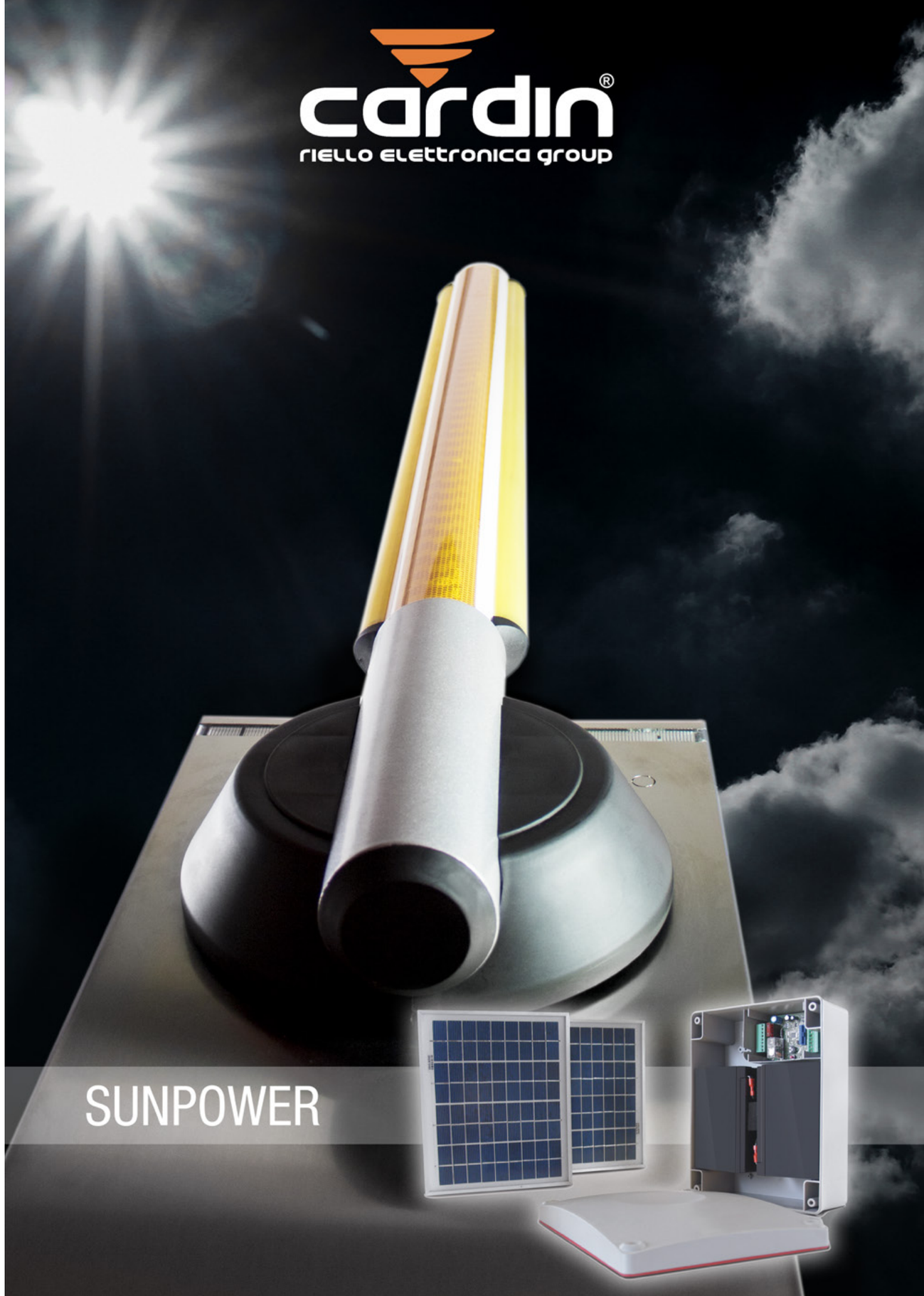


GENERAL CHARACTERISTICS

		SUN POWER
Solar panel voltage	Vdc	24
Output voltage	Vdc	24
Maximum electrical input	A	10
Power consumption in standby	mA	1
Battery power supply	Ah	7 (x2)
Solar panel power	W	5 (x2)
Solar panel dimensions	cm	290 x 240 x 35 (x2)
Operating temperature range	°C	-20°…+55

OVERALL DIMENSIONS





ECU
DATA EXCHANGE

PROGRAMMER INTERFACE

Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. Android and the Android logo are trademarks of Google Inc.

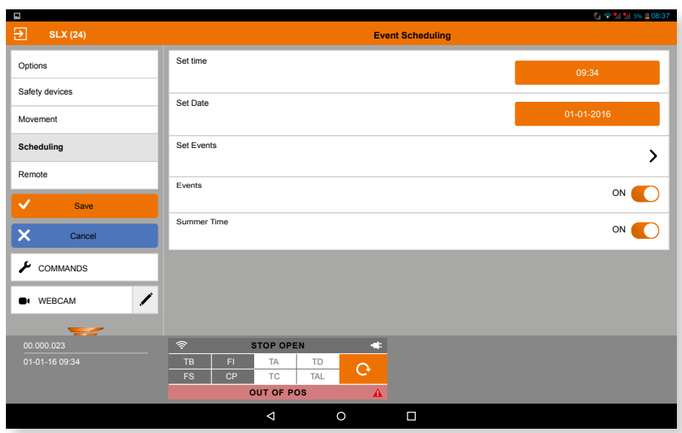


INTPRG is a device that allows you to remotely monitor and configure the multi-functional electronic control units using the professional App CRDTWO. Bluetooth connection to the ECU is made either by inserting the interface modules or via cable which then connects to the Cardin gateway Cardin via 3G or WiFi. The gateway allows you to set up a direct connection to the ECU connected to the INTPRG using a tablet or smartphone which will allow you to interact with the ECU as if you were on site. The main functions that can be carried out are as follows:

- display the status of the command and security devices including eventual errors;
- set all the ECU's parameters including timer controlled events, the date and the time;
- send movement commands and launch the self-programming cycle;
- memorise transmitters.
- error messages via email;
- direct communication between mobile devices and Cardin ECU's via bluetooth.

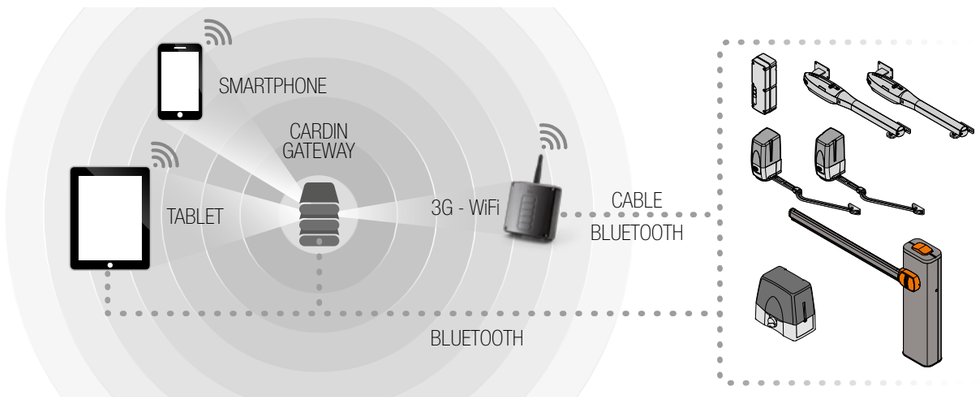
Furthermore the App can also be used to set and control a webcam (IP video camera) which you can use to monitor the area of the installation allowing you to send commands in total security.

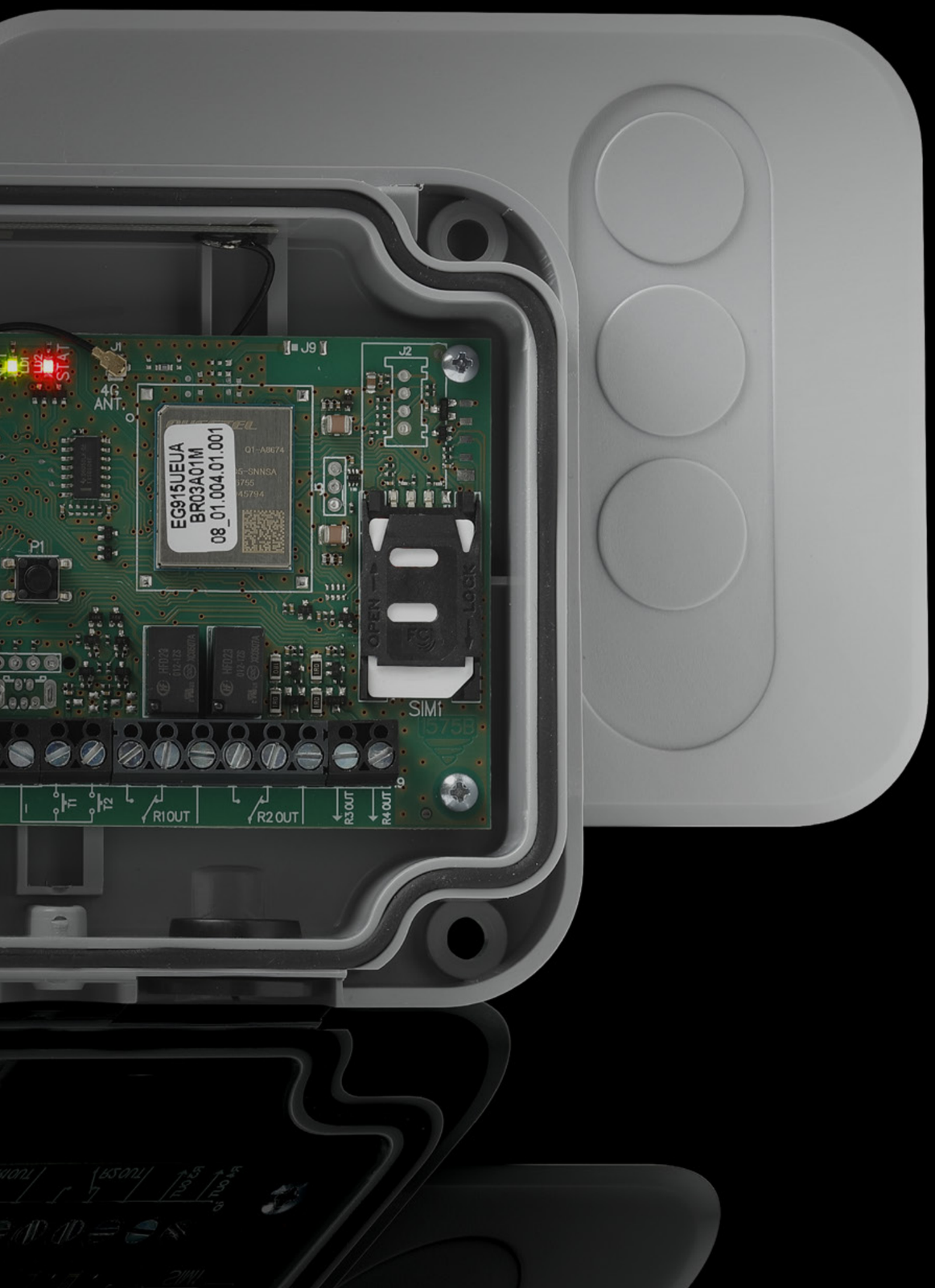
APP CARDIN "CRD TWO"
FOR SMARTPHONE AND TABLET



PRG

PRODUCT DESCRIPTION	ORDER NUMBER	
3G INTERFACE The 3G interface allows the control, diagnostics and programming of system parameters from a remote location using the Cardin App.	**INTPRG-3G**	
3G INTERFACE + SIM VODAFONE The 3G interface allows the control, diagnostics and programming of system parameters from a remote location using the Cardin App. Includes a Vodafone SIM + ten year subscription.	**INTPRG-3G10**	
WF INTERFACE The WF interface allows the control, diagnostics and programming of system parameters from a remote location using the Cardin App.	**INTPRG-WF**	
DATA INTERFACE MODULE VIA CABLE The module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface and also allows you to connect two motors via cable in order to use the synchronised master/slave function.	**MODCA**	
BLUETOOTH MODULE The slot-in module allows the exchange of information between the Cardin motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth.	**MODBT**	
BLUETOOTH MODULE + CONNECTOR The module with an RJ45 connector allows the exchange of information between the Cardin motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth.	**MODBT2**	





ACCESS CONTROL

ACCESS CONTROL SYSTEMS 182

ACCESS CONTROL

ACCESS CONTROL SYSTEMS

12V · GSM · S504 · S504 · S449 · 433 MHz

ACCESS CONTROL

PROTECTION GRADE IP55
NUMBER OF USER CODES THAT CAN BE STORED: 1000
MONO- AND BIDIRECTIONAL OPERATION S504
MONODIRECTIONAL OPERATION S449
POWER SUPPLY:12Vdc

This series of access control devices is the ideal solution for multi-user buildings, apartment blocks, residence halls, hotels, commercial and industrial businesses and any other location that requires you to program and manage access controls.

CARHF4G-10 (includes a prepaid SIM with a ten year subscription) and CARHF4G (free choice of telephone operator) are access control systems with 4 contacts (two potential free and two open collector) allowing you to manage external devices which permit the remote activation of electrical and electronic systems (gates, doors, lights etc.).

The receiver allows you to memorise up to 1000 transmitters, connect one or two transponder readers and one or two numerical code keyboards and by inserting a compatible SIM it my also be activated telephonically or using an App.

The choice of provider (SIM CARD) is free but the SIM must not contain a PIN. The devices are managed via internet using the "MyCardin.com" website which allows you to manage the access privileges, the activation and deactivation of the outputs using a real-time clock and the memorization, cancellation of transmitters etc.

GSM:
This product requires a sufficient level of GSM coverage to ensure its correct operation. We advise you therefore to contact your local provider for more information.





DIGITAL DISPLAY WITH UNIT ID



MEMORISING TRANSMITTERS



GSM



PROGRAMMABLE VIA SMS



ALL WEATHER BOX IN ABS - IP55

PRODUCT DESCRIPTION — ORDER NUMBER

ACCESS CONTROL SYSTEM
CARHF access control devices have the following characteristics:
- Digital display with real-time function display (relay status, user, clock, etc.).
- Free choice of telephone operator (SIM CARD).
- Connections for a transponder reader and a keypad.
- Activation via telephone.
- Programming via SMS.
- Data programming via internet using "MyCardin.com".
- Four command contacts (2 potential free and 2 OC) for external devices (gates, doors, lighting systems).
- Real-time clock and holiday program management (unlimited).
- Management of access privileges.

4G ACCESS CONTROL RECEIVER
The receiver allows a free choice of telephone operator — **CARHF4G**

4G ACCESS CONTROL RECEIVER + SUBSCRIPTION
The receiver includes a 10 year subscription (for data updating) with our partner. — **CARHF4G-10**

vodafone



All weather box in ABS - IP55.
Overall dimensions 148 x 118 x 40.

AERIAL + 3m GSM CABLE
External aerial + 3 m GSM cable, only compatible with the series CARHF4G — **CARANTGSM1**







RADIO CONTROL SYSTEMS

RAPID SELECTION GUIDE

186

S500MF 190

S500 192

S400 200

MORPHEUS 208

TXQ PRO 212

EDGE 214

RAPID GUIDE RADIO CONTROL SYSTEMS

S500MF

MULTIFREQUENCY
ROLLING CODE


100 CHANNELS


4-CHANNEL
WALL-MOUNTING
TRANSMITTER


3G RECEIVER
WiFi RECEIVER


4-CHANNEL RECEIVER
+ DISPLAY


4-CHANNEL RECEIVER


1-CHANNEL
MINI RECEIVER


3G RECEIVER
WiFi RECEIVER


4-CHANNEL RECEIVER
+ DISPLAY


4-CHANNEL RECEIVER

S500 SERIES COMPATIBLE RECEIVERS


2-CHANNEL
MINI RECEIVER


2-CHANNEL SLOT-IN
RECEIVER CARD


2-CHANNEL
OPEN COLLECTOR


ROLLING SHUTTER
PROGRAMMER


ROLLING SHUTTER PROGRAMMER


ON/OFF PROGRAMMER


PROGRAMMER ROLLING
SHUTTERS / AWNINGS


MULTIPROTOCOL INTER.

S400 SERIES COMPATIBLE RECEIVERS (TXWALL only)


2-CANNEL MINI RECEIVER


2-CHANNEL SLOT-IN
RECEIVER CARD


2-CHANNEL
OPEN COLLECTOR

(only S449)

ROLLING GRILLS PROGRAMMER
ON/OFF PROGRAMMER

(only S449)

PROGRAMMER FOR
ROLLING SHUTTERS

(only S449)

PROGRAMMER FOR
AWNINGS


MULTIPROTOCOL INTER.

S500

433MHz
FM ROLLING CODE

PRECODED TRANSMITTERS

2 CHANNEL
TRANSMITTERS

4 CHANNEL
TRANSMITTERS


8 CHANNEL
TRANSMITTERS


2 CHANNEL
TRANSCEIVERS


4 CHANNEL
TRANSCEIVERS


4-CHANNEL KEYPAD

868MHz
FM ROLLING CODE

PRECODED TRANSMITTERS


2 CHANNEL
TRANSMITTERS


4 CHANNEL
TRANSMITTERS


8 CHANNEL
TRANSMITTERS


2 CHANNEL
TRANSCEIVERS


4 CHANNEL
TRANSCEIVERS


4-CHANNEL KEYPAD

S504 / S508 RECEIVERS


3G RECEIVER
WiFi RECEIVER


4-CHANNEL RECEIVER
+ DISPLAY

4-CHANNEL RECEIVER


1-CHANNEL
MINI RECEIVER

2-CHANNEL
MINI RECEIVER

2-CHANNEL SLOT-IN
RECEIVER CARD

2-CHANNEL
OPEN COLLECTOR

ROLLING SHUTTER
PROGRAMMER

ROLLING SHUTTER
PROGRAMMER

ON/OFF PROGRAMMER

PROGRAMMER ROLLING
SHUTTERS / AWNINGS

MULTIPROTOCOL INTER.

S400

433MHz
FM ROLLING CODE

(precoded)

1 CHANNEL

2 CHANNELS

3 CHANNELS

(precoded)

4 CHANNELS

4-CHANNEL
WALL-MOUNTING
TRANSMITTER

4-CHANNEL KEYPAD

868MHz
FM ROLLING CODE

(precoded)

1 CHANNEL

2 CHANNELS

3 CHANNELS

(precoded)

4 CHANNELS

4-CHANNEL
WALL-MOUNTING
TRANSMITTER

4-CHANNEL KEYPAD

S449 / S486 RECEIVERS

3G RECEIVER
WiFi RECEIVER

4-CHANNEL RECEIVER
+ DISPLAY

4-CHANNEL RECEIVER

2-CANNEL MINI RECEIVER

2-CHANNEL SLOT-IN
RECEIVER CARD

2-CHANNEL
OPEN COLLECTOR

(only S449)

ROLLING GRILLS PROGRAMMER
ON/OFF PROGRAMMER

(only S449)

PROGRAMMER FOR
ROLLING SHUTTERS

(only S449)

PROGRAMMER FOR
AWNINGS

MULTIPROTOCOL INTER.

RAPID GUIDE RADIO CONTROL SYSTEMS

MORPHEUS

TRANSCEIVER
433MHz
FM ROLLING CODE



1 CHANNEL | 2 CHANNELS | 3 CHANNELS | 4 CHANNELS | 4 CHANNELS + AERIAL

TRANSCEIVER MORPHEUS



TRANSCEIVER 4 CHANNELS | TRANSCEIVER 4 CHANNELS + INPUTS | TRANSCEIVER MINI 2 CHANNELS | TRANSCEIVER SLOT-IN 2 CHANNELS | TRANSCEIVER MULTIPROTOCOL INTER.

TXQ PRO

MORPHEUS
S500
S400



MORPHEUS: 4 CHANNELS 4 CH + AERIAL
S504: 4 CHANNELS 4 CH + AERIAL
S508: 4 CHANNELS 4 CH + AERIAL
S449: 4 CHANNELS 4 CH + AERIAL
S486: 4 CHANNELS 4 CH + AERIAL

EDGE

433MHz
AM FIXED CODES



2 CHANNELS | 4 CHANNELS | 2-CHANNEL OPEN COLLECTOR | 2-CHANNEL MINI RECEIVER | 4 CHANNEL OUTDOOR RECEIVER | 4 CHANNEL 230V OUTDOOR RECEIVER | PROGRAMMER FOR ROLLING GRILLS / SHUTTERS

DIGITAL RADIO CONTROL
MULTIFREQUENCY TRANSCEIVERS

RADIO CONTROL SYSTEMS

433MHz - 868MHz FM ROLLING CODE
2^{128} CODE COMBINATIONS
REMOTE MEMORISATION
RFID: WIRELESS MEMORY
MONO- AND BIDIRECTIONAL OPERATION
RANGE 100 - 150 m
MORE THAN 4 BILLION PRE-CODED TRANSMITTER CODES

Extremely secure state-of-the-art radio control devices with 128 bit cryptography.

These systems gather together a series of functions, mono and bidirectional with both 433 Mhz and 868 Mhz frequencies, into practical devices aimed at the remote control of automatic and security installations.

The devices are suitable for the control of automatic installations for gates and doors, the command and control of automatic rolling shutters and sun blinds, the activation of alarm and access control systems as well as the activation of all kinds of systems.

Digital solutions that provide practicality for the user and extremely useful and manageable appliances for the installer.






MULTI-FUNCTIONAL ERGONOMIC BUTTONS


MULTI-COLOUR LED PROGRAMMING



DIGITAL DISPLAY WITH ICONS



MANAGEMENT OF EVENTS, GROUPS AND SCENARIOS


BATTERY CHARGER / DATA CONNECTION VIA USB TYPE C CABLE

PRODUCT DESCRIPTION — ORDER NUMBER

WALL MOUNTED MULTIFREQUENCY RADIO CONTROL TRANSCEIVER
Series of wall-mounted digital transceivers with 4 buttons, each button is configurable on separate frequencies and different radio control series.
Being fully compatibe with all series S500 and S400 receivers (see page 192 and 200 respectively), this device is a comprehensive and up to date solution capable of universal interaction with the most common Cardin radio control devices.
It is quick and easy to install thanks to its compatability with standard 503 flush mounted boxes.
The device can be configured directly by following the procedure outlined via the multicoloured LED, or by using RFID technology via PGBASE500.



WALL-MOUNTED MULTIFREQUENCY BATTERY-POWERED RADIO CONTROL TRANSCEIVER — TXWALL500MFB
3V battery-powered wall-mounted transceiver

WALL MOUNTED MULTIFREQUENCY RADIO CONTROL TRANSCEIVER WITH POWER SUPPLY CABLE — TXWALL500MFL
Wall-mounted transceiver with external 12Vdc power supply



PROGRAMMABLE 100-CHANNEL RADIO CONTROL TRANSCEIVER — UNICO500MF
A SINGLE radio control device that provides practicality for the user and an extremely useful and manageable appliance for the installer.
The radiocontrol, powered by a 3.7V Li-Poly rechargeable battery, is supplied with a type C adapter cable for easy recharging and configuration from a personal computer. It has a digital display (with programmable auto-off function to limit battery consumption) that allows the setting of events, groups and scenarios. The inbuilt real-time clock allows you to adjust opening and closing at different times of the day taking into account 3 weekly slots (Mon-Fri, Sat-Sut, Mon-Sun).
Connected to a bidirectional receiver the radio control receives a confirmation signal allowing you to control an operation from a remote location.
Overall dimensions
48 x 125 x 12



CODE AND MEMORY PROGRAMMING BASE VIA USB — PGBASE500
The USB code and memory programming base allows the transmitters to be programmed in batches and remote code memorisation and replacement thanks to the RFID technology present in the series S504 transmitters and in the management software CARDINTX_SW.



LITHIUM BATTERY 3V (2 X CR2032) — XRP03



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES

RADIO CONTROL SYSTEMS

433MHz - 868MHz FM ROLLING CODE
2^{128} CODE COMBINATIONS
REMOTE TRANSMITTER MEMORISATION
RFID: WIRELESS MEMORY
AERIAL ANS400 - ANQ800-1

AVAILABLE TRANSMITTER CHANNELS 2-4-8
AVAILABLE TRANSCEIVER CHANNELS 2-4
RANGE 100 - 150 m
MORE THAN 4 BILLION PRE-CODED TRANSMITTER CODES

An extremely secure state-of-the-art radio control system with 128 bit cryptography. The system has gathered together a series of specific appliances under a single working protocol aimed at the remote control of automatic and security installations. Solutions for all possible uses: control of automatic installations for gates and doors, the command and control of automatic rolling shutters and sun blinds, the activation of alarm and access control systems as well as the activation of all ON-OFF or timer-controlled systems. Adopting the S504 - S508 system doesn't just offer high levels of efficiency but also provides practicality for the user and an extremely useful and manageable appliance for the installer.

TXQ504C8



TXQ508C8



NETWORK CONNECTIVITY
The S504 - S508 range interacts with an evolved system consisting of a server dedicated to the 3G/WF connection by means of appliances and software for computers and smart phones.

DIGITAL ROLLING CODE TRANSMITTERS 128 BIT WITH 2/4/8 CHANNELS
The transmitters, powered by a 3-volt lithium batteries (1 x CR2032) with a range of from 100 to 150 metres, are pre-coded in the factory with a unique identification number printed on the rear so as to allow memorisation in lots on the receiver and can be enabled without the presence of the receivers from a remote location through the use of a second transmitter that has already been memorised in the system. They are fitted with a key-lock function which when selected protects the appliance from any accidental activation and automatic shut down that cuts in after at least twenty seconds of continuous activation in order to reduce battery consumption. The bidirectional transmitters (transceivers) receive a confirmation signal allowing you to control an operation from a remote location.

QUARTZ RECEIVERS WITH THE POSSIBILITY OF MEMORISING UP TO 1000 USER CODES
The receivers are available in all the classic Cardin versions: outdoor receivers 12-24V with display, with LCD display and 3G/WF functions in watertight cases IP55, mini receiver units to be installed in appliances which already have a protective casing and slot-in receiver cards for direct insertion into host appliances designed to receive them. A code and memory programming base via USB allows the transmitters to be memorised in blocks and access to the remote memorisation function thanks the to RFID technology fitted into the transmitters.



REMOTE ENABLING USING A TRANSMITTER ALREADY MEMORISED IN THE SYSTEM



KEY BLOCK PROTECTION AGAINST CASUAL ACTIVATION



FLUSH-FITTING METAL KEYRING



DOUBLE PROTECTIVE CASING SHOCKPROOF CONTAINER



3V LITHIUM BATTERY (1 x CR2032)

PRODUCT DESCRIPTION		ORDER NUMBER	
PRECODED TRANSMITTERS Container in shockproof plastic material. 3V lithium battery power supply CR2032. Overall dimensions 35 x 80 x 11.			
2-CHANNEL TRANSMITTER	433 MHz	TXQ504C2	
4-CHANNEL TRANSMITTER		TXQ504C4	
8-CHANNEL TRANSMITTER		TXQ504C8	
2-CHANNEL TRANSCEIVER		TXQ504BD2	
4-CHANNEL TRANSCEIVER		TXQ504BD4	
2-CHANNEL TRANSMITTER	868 MHz	TXQ508C2	
4-CHANNEL TRANSMITTER		TXQ508C4	
8-CHANNEL TRANSMITTER		TXQ508C8	
2-CHANNEL TRANSCEIVER		TXQ508BD2	
4-CHANNEL TRANSCEIVER		TXQ508BD4	
5 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS		COVERMIX5002	
5 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS		COVERMIX5004	
TRANSMITTER WALL / CAR SUPPORT DARK GREY		XACSUPTX500	
TRANSMITTER WALL / CAR SUPPORT LIGHT GREY		XACSUPTX500GC	
CODE AND MEMORY PROGRAMMING BASE VIA USB The USB code and memory programming base allows the transmitters to be programmed in batches and remote code memorisation and replacement thanks to the RFID technology present in the series S504 transmitters and in the management software CARDINTX_SW.		PGBASE500	
NUMERICAL CODE KEYPAD VIA RADIO Container in shockproof polycarbonate IP57. 3V lithium battery power supply (ZRA3.0-3.8-W). Number of code available combinations: 1.000.000. Possibility of memorising up to 500 user codes. Manages up to 4 distinct functions and communicates with all S504 (433MHz) and S508 (868MHz) standard receivers. Backlighting is controlled by a proximity light sensor. Overall dimensions 74 x 130 x 20.		SSB-504 SSB-508	
3V LITHIUM BATTERY PACK (SSB-504 / SSB-508)		ZRA3.0-3.8-W	
WALL-MOUNTED MULTIFEQUENCY BATTERY-POWERED RADIO CONTROL TRANCIEVER		TXWALL500MFB	
WALL MOUNTED MULTIFEQUENCY RADIO CONTROL TRANCIEVER WITH POWER SUPPLY CABLE		TXWALL500MFL	
PROGRAMMABLE 100-CHANNEL RADIO CONTROL TRANSCEIVER		UNICO500MF	

See section SERIES 500: MULTIFREQUENCY on page 190

DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES

RADIO CONTROL SYSTEMS

RECEIVERS

The receivers are available in all the classic Cardin versions: outdoor receivers 12-24V with display, with LCD display and 3G/WiFi functions, 230V radio programmers in watertight cases with flip up access covers, mini receiver units to be installed in appliances which already have a protective casing and slot-in receiver cards for direct insertion into host appliances designed to receive them:

- outdoor receiver with a multi-decoding module S449 - S486 - S504 - S508, LCD display and 3G-WiFi functions;
- standard outdoor receivers;
- outdoor receivers with display;
- 2-channel mini receivers, slot-in receiver cards;
- 2-channel open collector receiver cards;
- outdoor radio programmers;
- multiprotocol interface.

RECEIVERS WITH LCD DISPLAY AND 3G/WiFi FUNCTIONS

Thanks to the inbuilt 2G-3G or WiFi module, avant-garde software and a highly efficient signal reception apparatus the receiver allows the remote management (without range limits) of all installations that require remote control via radio (automatic entry systems, access control, car-parks etc.). The appliance is ideally suited to multi-user installations (up to 3000 transmitters can be memorised) and ones that require frequent upgrading and modification of the codes. The USB connection, the programming and setting buttons and the efficient display allow the appliance to be easily configured. The installation management functions are: transmitter code memorization/ cancellation and programming the function mode for each single output.

The receiver can manage up to four programmable channel modules (impulsive/ ON-OFF/timer controlled, NO/NC contact type and power on reset). The device also features a Real Time Clock which can be used to set the time bands during which the outputs are active, as well as a non volatile memory module which can store up to 100000 relay activation events which may be downloaded during a normal connection and consulted at will. The CARDINTX_SW, software that can be downloaded from the website www.cardin.it allows the stored user codes to be managed by means of one of three possible connection methods: direct via USB cable, using the mobile communications network with a 2G/3G module or using a WF module. One or more outputs can be remotely activated over the phone or via SMS with an installed 2G/3G module or using an App.

Four independent inputs are also available which can be used to monitor external appliances the status of which can be obtained from the receiver via SMS or an App. Using the Cardin software it is possible to set the receiver's 4 inputs according to the requirements of the installation. As soon as an event such as resetting the position status of the door, security devices intervening, presence/absence of power etc. is detected, the receiver will send a personalised message to the pre-registered e-mail addresses. Thanks to this system the 3G receiver becomes a very useful maintenance management tool.

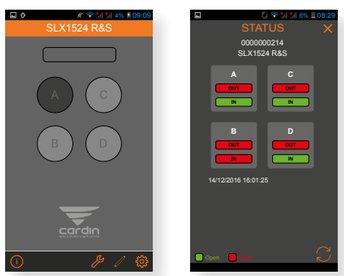
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3G/WiFi receiver



APP CARDIN "CRD ONE"
FOR SMARTPHONE AND TABLET



PRODUCT DESCRIPTION		ORDER NUMBER	
RECEIVERS WITH LCD DISPLAY AND 3G/WiFi FUNCTIONS (12/24Vac-dc) All weather box in ABS - IP55. Overall dimensions 135 x 175 x 85. The receiver can be fitted with up to four programmable relay modules MCCMORPHM1 (impulsive, ON-OFF or timer controlled). 1 relay inserted. Possibility of memorising up to 3000 codes. USB connection and 2G-3G-WiFi module for remote user and activation of the output relays. The RCQ433/868-3G10 receivers include a 10 year subscription with our partner Vodafone.			
2G-3G RECEIVERS	433 MHz	RCQ433-3G	
2G-3G RECEIVERS + SIM VODAFONE	433 MHz	RCQ433-3G10	vodafone
WiFi RECEIVER	433 MHz	RCQ433-WF	
2G-3G RECEIVERS	868 MHz	RCQ868-3G	
2G-3G RECEIVERS + SIM VODAFONE	868 MHz	RCQ868-3G10	vodafone
WiFi RECEIVER	868 MHz	RCQ868-WF	
3000-CODE MEMORY MODULE		MCC24LC256	
5000-CODE MEMORY MODULE		MCC24LC512	
3000-CODE MEMORY MODULE		ZGB24LC256-I/P	



3G receiver



WiFi receiver



PRODUCT DESCRIPTION | ORDER NUMBER

STANDARD OUTDOOR RECEIVER (12/24Vac-dc)
The unit can be fitted with up to four interchangeable relay modules MCCMORPHM1, which can be set to ON/OFF or impulsive. 1 relay inserted.
Possibility of memorising up to 1000 codes.

RCQ504NC1
RCQ508NC1
All weather box in ABS - IP55.
Overall dimensions 148 x 118 x 40.



OUTDOOR RECEIVER WITH DISPLAY (12/24Vac-dc)
The unit can be fitted with up to four interchangeable relay modules MCCMORPHM1, which can be impulsive, ON-OFF or timer controlled. 1 relay inserted.
Possibility of memorising up to 1000 codes.

RCQ504ND1
RCQ508ND1
All weather box in ABS - IP55.
Overall dimensions 148 x 118 x 40.



1-CHANNEL MINI RECEIVER (230Vac)
The unit is fitted with one soldered power relay (max. 3A, 230V), which can be impulsive, ON-OFF or timer controlled.
Possibility of memorising up to 1000 codes.

RVQ504C1
RVQ508C1
Indoor box IP20.
Overall dimensions 106 x 36 x 21.



OUTDOOR RECEIVER (230Vac)
The unit is fitted with four soldered power relays (max. 5A, 230V), which can be impulsive, ON-OFF or timer controlled.
Possibility of memorising up to 1000 codes.

RVQ504C4
RVQ508C4
All weather box in ABS - IP55.
Overall dimensions 148 x 118 x 40.



1-CHANNEL MINI RECEIVER (12/24Vac-dc)
Electronic circuit with a 7-way terminal block; Fitted with 1 relay channel which can be set to ON/OFF or impulsive.
Possibility of memorising up to 1000 codes.

RQM504C1
RQM508C1
Indoor box IP20.
Overall dimensions 89 x 48 x 22.



2-CHANNEL MINI RECEIVER (12/24Vac-dc)
Electronic circuit with a 10-way terminal block; Fitted with 2 relay channels which can be set to ON/OFF or impulsive.
Possibility of memorising up to 1000 codes.

RQM504C2
RQM508C2
Indoor box IP20.
Overall dimensions 95 x 75 x 25.



2-CHANNEL SLOT-IN RECEIVER CARD (24Vac-dc)
Receiver card for direct insertion into a host appliance designed to receive it. Fitted with 2 relay channels which can be set to ON/OFF or impulsive.
Possibility of memorising up to 1000 codes.

RSQ504C2
RSQ508C2
Overall dimensions 70 x 52 x 20.



PRODUCT DESCRIPTION | ORDER NUMBER

2-CHANNEL RECEIVER CARD (5Vdc)
Open collector receiver card for direct insertion into a host appliance designed to receive it. Impulsive channels.
Possibility of memorising up to 1000 codes.

RSQ504OC2
RSQ508OC2
Overall dimensions 48 x 35 x 10.



RADIOPROGRAMMER FOR ROLLING SHUTTERS, SUN BLINDS AND AWNINGS (230V-1000W)
Logic integrated into the receiver with work time management and output for the control of one motor. Suitable for the command of automatic rolling shutters, sun blinds and awnings. Inputs for one opening and one closing command via cable. Manual operation in either the opening/closing or only closing direction.

RPQ504T10
RPQ508T10
Indoor box IP20.
Overall dimensions 106 x 36 x 21.



RADIOPROGRAMMERS FOR ROLLING GRILLS (230V-600W)
Logic integrated into the receiver and output for the control of one motor. Power supply output for a pair of Cardin photoelectric cells. Possibility of memorising up to 1000 transmitters.

RPQ504
RPQ508
All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44.



RADIOPROGRAMMERS ON/OFF + TIMER (2000W)
For specific uses such as the remote control of external (gardens) and internal lighting; the remote control of power sockets. Connecting the radioprogrammer to a light detection device will prevent it from switching on the lighting system during the daytime.Possibility of memorising up to 1000 user codes. Timer settings: from 1 min. to 23 hrs. 59 min.

RPQ504IT0
RPQ508IT0
All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44.



RADIOPROGRAMMERS FOR ROLLING SHUTTERS / AWNINGS (400 W)
The radio programmer allows the remote control of one single phase motor and finds its best use in the command of automatic rolling shutters and awnings. The appliance is designed for the connection of an anemometer (see chapter COMMAND AND SAFETY DEVICES).

RPQ504RNA0
RPQ508RNA0
Indoor box IP43.
Power supply 230Vac.
Overall dimensions 120 x 85 x 20



PRODUCT DESCRIPTION | ORDER NUMBER

MULTIPROTOCOL INTERFACE
The interface is able to decode a radio frequency signal coming from a S504-S508 transmitter or via cable from a DKS1000T/DKSDUALT and output a Wiegand/ISO-3554 digital signal, containing the transmitter code, in 13 different formats.
It is fitted with a USB for connection to a PC and an input that can be connected to a timer or a switch with the aim of enabling or disabling the interface over different time periods. Rolling Code management with transmitter memorization on the interface.

RCQ504W00
RCQ508W00

Power supply	12/24Vac-dc.
Electrical input	20mA.
Overall dimensions	148 x 118 x 40.
All weather box in ABS	- IP55.
Carrier frequency	433,92MHz - 868,3MHz.



BLUETOOTH INTERFACE WITH FOUR RELAYS
The interface with a Bluetooth module allows the control of four relays with NO or NC contacts. The selection dip-switches (one block per relay) allow you to select the relay's activation method: impulsive, ON/OFF, timer controlled or remotely controlled relay activation using the programming calender in the Cardin multiprotocol interface Cardin RCQ504/508W00. The programming buttons (one per relay) allow you to set the activation times for the relays (from 1 s to 5 min) for the timer controlled mode.
The Bluetooth module MODBT is to be ordered separately.

INTBTC4

Power supply	12/24Vac-dc.
Electrical input	50mA.
Overall dimensions	95 x 75 x 25.
Indoor box	IP20



BLUETOOTH MODULE PRO
The module allows the exchange of information between the **Cardin Pro** motor's electronic control unit and the Cardin 3G/WF interface via Bluetooth.

MODBT



PRODUCT DESCRIPTION | ORDER NUMBER

QUARTZ RECEIVER/TRANSCEIVER MODULE (433MHz - 868MHz)
Superheterodyne in FM with a digital filter.
Unidirectional (DG) and bidirectional (DG) versions.
RF module without decoder for the reception of digital signals.
Voltage: 5Vdc - Electrical input: 15mA.
Overall dimensions 40 x 20 x 13.

JRF433QFMDG1
JRF868QFMDG1
JRF433QFMBD0
JRF868QFMBD0



STRIP WITH 1 PROGRAMMABLE RELAY (S504 - S508)
The relay can be set on the receiver to one of the functions.

MCCMORPHM1



CODE MEMORY MODULES
Extractable and furnished with non volatile memory, this EEPROM contains the system code

1000-CODE MEMORY MODULE (RECEIVERS S504D1-S508D1) VERTICAL

MCC24LC64



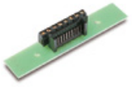
1000-CODE MEMORY MODULE (S504 - S508)

ZGB24LC64-I/P



SLOT-IN RECEIVER ADAPTOR
Allows you to use the AMP 10-way receiver card connector as a standard terminal block.

RSQSPP



AERIAL FOR 433MHz RECEIVERS
AERIAL FOR 868MHz RECEIVERS
COAXIAL CABLE RG58 (per metre)

ANS400
ANQ800-1
ZVCRG58



KIT AERIAL EXTENSION 2G - 3G WiFi 10m SMA-M
KIT AERIAL EXTENSION 2G - 3G WiFi 5m SMA-M

ANSKITGSMWF10
ANSKITGSMWF5



LITHIUM BATTERY 3V (2 X CR2032)

XRP03



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES

RADIO CONTROL SYSTEMS

433MHz - 868MHz FM ROLLING CODE
2^{56} CODE COMBINATIONS
MEMORISATION VIA RADIO
AERIAL ANS400 - ANQ800-1

AVAILABLE CHANNELS 1-2-3-4
RANGE 100 - 150 m
MORE THAN 268 MILLION PRE-CODED TRANSMITTER CODES

An innovative radio control system that has gathered together a series of specific appliances under a single working protocol aimed at the remote control of automatic and security installations.

High-technology appliances, protected by robust and practical containers, easy to install and pleasing on the eye in the usual style of Cardin products.

Solutions for all possible uses: control of automatic installations for gates and doors, the command and control of automatic rolling shutters and sun blinds, the activation of alarm and access control systems as well as the activation of all ON-OFF or TIMER-CONTROLLED systems. Adopting the S449 - S486 as a command and control system for remote controlled installations, automatic gates and doors and security systems, doesn't just offer high levels of efficiency but also provides practicality for the user and an extremely useful and manageable appliance for the installer. A complete and secure system, the best today's technology has to offer, which has been designed and realised with the quality and attention to detail that only CARDIN products can provide.

The "key" to the system is the "simply unique" set of transmitters, made of anti-scratch, shockproof materials that are compact and easy to use. They are available in the following versions: pocket size with 1-2-3-4 channels and wall mounted with four available functions working from a fixed position. The single button radio controls (1 channel) are suitable for alarm systems and access control. The practical and efficient three button radio controls specially designed to command rolling shutters and sun blinds allow the functions open, close and stop to be immediately identified.

A clip is available allowing the insertion of a transponder into the transmitter unit.

TXC449400



TXC486400

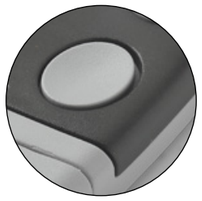




SELF-LEARNING



MEMO RADIO - KEY LOCK



ERGONOMIC BUTTONS



COMPACT CASE



3V LITHIUM BATTERY

PRODUCT DESCRIPTION		ORDER NUMBER
433MHz TRANSMITTERS Container in shockproof plastic material. 3V lithium battery power supply CR2032. Overall dimensions 34 x 72 x 11.		
1-CHANNEL TRANSMITTER	433 MHz	TXC449100
2-CHANNEL TRANSMITTER		TXC449200
3-CHANNEL TRANSMITTER		TXC449300
4-CHANNEL TRANSMITTER		TXC449400
2-CHANNEL PRECODED TRANSMITTER		TXC4492P0
4-CHANNEL PRECODED TRANSMITTER		TXC4494P0
868MHz TRANSMITTERS Container in shockproof plastic material. 3V lithium battery power supply CR2032. Overall dimensions 34 x 72 x 11.		
1-CHANNEL TRANSMITTER	868 MHz	TXC486100
2-CHANNEL TRANSMITTER		TXC486200
3-CHANNEL TRANSMITTER		TXC486300
4-CHANNEL TRANSMITTER		TXC486400
2-CHANNEL PRECODED TRANSMITTER		TXC4862P0
4-CHANNEL PRECODED TRANSMITTER		TXC4864P0
4-CHANNEL WALL TRANSMITTER Container in shockproof plastic material. 3V lithium battery power supply CR2032. Wall mounting. Available in 433MHz and 868MHz versions. Overall dimensions 72 x 72 x 15.		TXQ44940M TXQ48640M 
NUMERICAL CODE KEYPAD VIA RADIO Container in shockproof polycarbonate IP57. 6V lithium battery power supply 2 x CR2032 (KITSSB-T9K4-1). Number of code available combinations: 1.000.000. Communicates with all standard S449 (version 433MHz) and S486 (version 868MHz) receivers, allows you to memorise up to 250 user codes and manage up to 4 distinct functions. Overall dimensions 72 x 115 x 28.		SSB-T9K4 SSB-T8K4 
3V LITHIUM BATTERY (2 X CR2032) FOR SSB-T9K4/T8K4		KITSSB-T9K4-1 
WALL-MOUNTED MULTIFEQUENCY BATTERY-POWERED RADIO CONTROL TRANCIEVER		TXWALL500MFB
WALL MOUNTED MULTIFEQUENCY RADIO CONTROL TRANCIEVER WITH POWER SUPPLY CABLE		TXWALL500MFL 

See section SERIES 500: MULTIFREQUENCY on page 190

DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES

RADIO CONTROL SYSTEMS

RECEIVERS

The receivers are available in all the classic Cardin versions: outdoor receivers 12-24V with display, with LCD display and 3G/WiFi functions, 230V radio programmers in watertight cases with flip up access covers, mini receiver units to be installed in appliances which already have a protective casing and slot-in receiver cards for direct insertion into host appliances designed to receive them:

- outdoor receiver with a multi-decoding module S449 - S486 - S504 - S508, LCD display and 3G-WiFi functions;
- standard outdoor receivers;
- outdoor receivers with display;
- 2-channel mini receivers, slot-in receiver cards;
- 2-channel open collector receiver cards;
- outdoor radio programmers;
- multiprotocol interface.

RECEIVERS WITH LCD DISPLAY AND 3G/WiFi FUNCTIONS

Thanks to the inbuilt 2G-3G or WiFi module, avant-garde software and a highly efficient signal reception apparatus the receiver allows the remote management (without range limits) of all installations that require remote control via radio (automatic entry systems, access control, car-parks etc.). The appliance is ideally suited to multi-user installations (up to 3000 transmitters can be memorised) and ones that require frequent upgrading and modification of the codes. The USB connection, the programming and setting buttons and the efficient display allow the appliance to be easily configured. The installation management functions are: transmitter code memorization/ cancellation and programming the function mode for each single output.

The receiver can manage up to four programmable channel modules (impulsive/ ON-OFF/timer controlled, NO/NC contact type and power on reset). The device also features a Real Time Clock which can be used to set the time bands during which the outputs are active, as well as a non volatile memory module which can store up to 100000 relay activation events which may be downloaded during a normal connection and consulted at will. The CARDINTX_SW, software that can be downloaded from the website www.cardin.it allows the stored user codes to be managed by means of one of three possible connection methods: direct via USB cable, using the mobile communications network with a 2G/3G module or using a WF module. One or more outputs can be remotely activated over the phone or via SMS with an installed 2G/3G module or using an App.

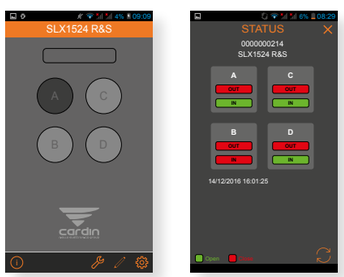
Four independent inputs are also available which can be used to monitor external appliances the status of which can be obtained from the receiver via SMS or an App. Using the Cardin software it is possible to set the receiver's 4 inputs according to the requirements of the installation. As soon as an event such as resetting the position status of the door, security devices intervening, presence/absence of power etc. is detected, the receiver will send a personalised message to the pre-registered e-mail addresses. Thanks to this system the 3G receiver becomes a very useful maintenance management tool.

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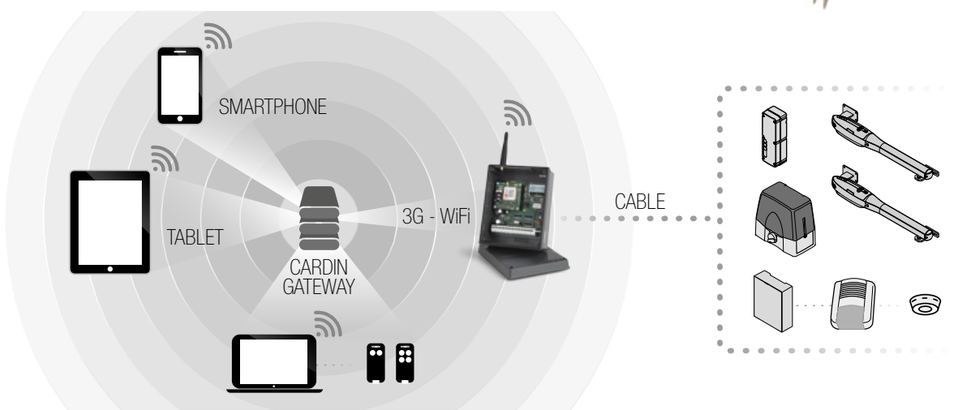


3G/WiFi receiver

APP CARDIN "CRD ONE" FOR SMARTPHONE AND TABLET



PRODUCT DESCRIPTION	ORDER NUMBER
RECEIVERS WITH LCD DISPLAY AND 3G/WiFi FUNCTIONS (12/24Vac-dc) All weather box in ABS - IP55. Overall dimensions 135 x 175 x 85. The receiver can be fitted with up to four programmable relay modules MCCMORPHM1 (impulsive, ON-OFF or timer controlled). 1 relay inserted. Possibility of memorising up to 3000 codes. USB connection and 2G-3G-WiFi module for remote user and activation of the output relays. The RCQ433/868-3G10 receivers include a 10 year subscription with our partner Vodafone.	 3G receiver  WiFi receiver
2G-3G RECEIVERS	RCQ433-3G
2G-3G RECEIVERS + SIM VODAFONE	RCQ433-3G10
WiFi RECEIVER	RCQ433-WF
2G-3G RECEIVERS	RCQ868-3G
2G-3G RECEIVERS + SIM VODAFONE	RCQ868-3G10
WiFi RECEIVER	RCQ868-WF
3000-CODE MEMORY MODULE	MCC24LC256
5000-CODE MEMORY MODULE	MCC24LC512
3000-CODE MEMORY MODULE	ZGB24LC256-I/P



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES

RADIO CONTROL SYSTEMS

RECEIVERS

The receivers are available in all the classic Cardin versions: outdoor receivers 12-24V with display, with LCD display and 3G-WiFi functions, 230V radio programmers in watertight cases with flip up access covers, multiprotocol interface decoding in indoor boxes, mini receiver units to be installed in appliances which already have a protective casing and slot-in receiver cards for direct insertion into host appliances designed to receive them:

- outdoor receiver with LCD display and 3G-WiFi functions;
- standard outdoor receivers;
- outdoor receivers with display;
- 2-channel mini receivers, slot-in receiver cards;
- 2-channel open collector receiver cards;
- outdoor radio programmers;
- multiprotocol interface.

RQM449200

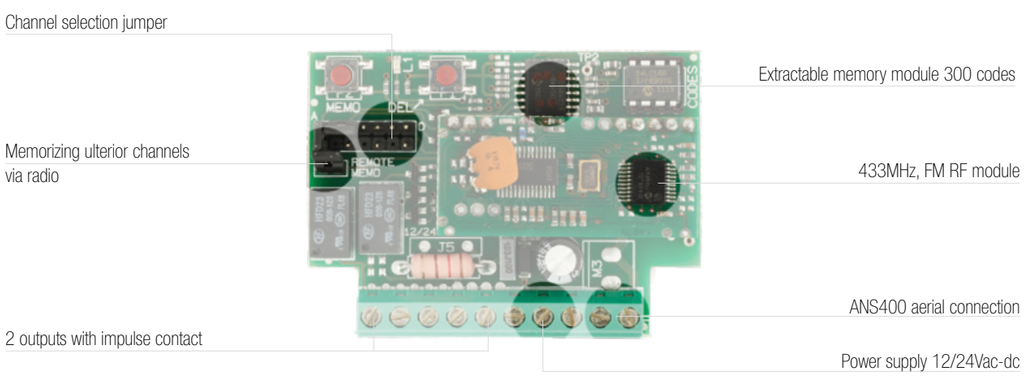


2-CHANNEL MINI RECEIVER

The mini receiver housed in an indoor container and is fitted with an 10-way terminal board.

The receiver cards are fitted with two relays the outputs of which are marked CH1 (N.O. contact) and CH2 (N.O./N.C. contact). The relays CH1 and CH2 can be activated by selecting the functions A-B-C-D and made to correspond with the transmitter channels CHA-CHB-CHC-CHD by setting the jumpers situated on the circuit board.

The memorization via radio function allows extra transmitters to be added to the system without having to access the circuit board but instead by using the MEMO Radio button in a previously memorised transmitter in the vicinity of the receiver.



PRODUCT DESCRIPTION	ORDER NUMBER	
STANDARD OUTDOOR RECEIVER (12/24Vac-dc) All weather box in ABS - IP44. The unit can be fitted with up to four interchangeable relay modules N.O. or N.C. 1 relay inserted. Possibility of memorising up to 300 codes. Overall dimensions 110 x 110 x 33.	**RCQ449N100** **RCQ486N100**	
OUTDOOR RECEIVER WITH DISPLAY (12/24Vac-dc) All weather box in ABS - IP44. The receiver can be fitted with up to four programmable relay modules (impulsive, ON-OFF or timer-controlled). Possibility of memorising up to 1000 codes. Overall dimensions 110 x 110 x 33.	**RCQ449ND00** **RCQ486ND00**	
2-CHANNEL MINI RECEIVER (12/24Vac-dc) Electronic circuit with a 10-way terminal block; Indoor box IP20. Supplied with 2 impulsive relays. Relays may be set to ON/OFF (RQM44920S only). Possibility of memorising up to 300 codes. Overall dimensions 95 x 75 x 25.	**RQM449200** **RQM486200** **RQM44920S**	
2-CHANNEL SLOT-IN RECEIVER CARD (24Vac-dc) Receiver card for direct insertion into a host appliance designed to receive it. Overall dimensions 70 x 52 x 20. Fitted with 2 relay channels which can be set to ON/OFF or impulsive. Possibility of memorising up to 1000 codes.	**RSQ449200** **RSQ486200**	
2-CHANNEL RECEIVER CARD (5Vdc) Open collector receiver card for direct insertion into a host appliance designed to receive it. Overall dimensions 48 x 35 x 10. Impulsive relay channels. Possibility of memorising up to 300 codes.	**RSQ4490C2** **RSQ4860C2**	
RADIOPROGRAMMERS FOR ROLLING GRILLS (230V-630W) Power supply 230Vac. All weather box in ABS - IP55. Overall dimensions 139 x 115 x 44. Logic integrated into the receiver and output for the control of one motor. Power supply output for a pair of Cardin photoelectric cells. Possibility of memorising up to 20 transmitters.	**RPQ449** **RPQ486**	
RADIOPROGRAMMERS ON/OFF + TIMER (2000W) For specific uses such as the remote control of external (gardens) and internal lighting; the remote control of power sockets. Terminal board connections; sequential command input and a control button that can be linked to a light detection device so making sure that the lights do not switch on during the day. Possibility of memorising up to 300 user codes. Timer settings: from 1 min. to 23 hrs. 59 min.	**RPQ449IT0** Power supply 230Vac. All weather box in ABS - IP55. Overall dimensions 139 x 115 x 44.	
QUARTZ RECEIVER MODULE (433MHz - 868MHz) Superheterodyne in FM with a digital filter. RF module without decoder for the reception of digital signals. Voltage: 5Vdc - Electrical input: 15mA Overall dimensions 40 x 20 x 13.	**JRF433QFMDG0** **JRF868QFMDG0**	

PRODUCT DESCRIPTION | ORDER NUMBER

RADIOPROGRAMMERS FOR ROLLING SHUTTERS AND AWNINGS (400 W)
The radio programmer allows the remote control of one single phase motor and finds its best use in the command of automatic rolling shutters and awnings. The appliance is designed for the connection of an anemometer (see chapter COMMAND AND SAFETY DEVICES).

RP449RNA0
Indoor box IP43.
Power supply 230Vac.
Overall dimensions 120 x 85 x 20.



RADIOPROGRAMMERS FOR SUN BLINDS AND AWNINGS (450W)
The radio programmer allows the remote control of one single phase motor and finds its best use in the command of automatic sun blinds and awnings. The appliance is designed for the connection of an anemometer (see chapter COMMAND AND SAFETY DEVICES).

RP449BNA0
(special for square tube rollers 40 x 40 mm)
Indoor box IP20.
Power supply 230Vac.
Overall dimensions 280 x 32 x 32



MULTIPROTOCOL INTERFACE
The interface is able to decode a radio frequency signal coming from a TXQ449-486 transmitter or via cable from a DKS1000T and output a Wiegand/ISO-3554 and RS232 digital signal, containing the transmitter code, in 13 different formats.
The interface also has an enable contact which can be wired to a timer or a normal switch allowing you to activate or deactivate the interface in different time bands.
The RS232 serial interface allows you to connect the device to a personal computer using software supplied with the kit.

RCQ449W00
RCQ486W00

Power supply	12/24Vac-dc.
Electrical input	20mA.
Overall dimensions	148 x 118 x 40.
All weather box	ABS - IP55.
Carrier frequency	433,92MHz - 868,3MHz.



HAND-HELD PDA PROGRAMMER
User code programming system that can be interfaced with a personal computer.
It allows you to manage transmitter codes in the receivers memory without having to activate the transmitters one by one. The transmitters pre-coded in blocks can be memorised rapidly in multi-user systems which require the use of many transmitters. You can manage the replacement of a transmitter lost by the user using remote programming.
Complete with interface cables and external power unit.

PGM449
PGM486
Carrier frequency 433,92 - 868,3MHz.
Internal power supply (battery) 9Vdc.
External power supply 12Vac-dc.
Display backlighting 16 characters x 4 lines.
A maximum of 2000 reserved KEY449 codes.



RESERVED CODE PROGRAMMING KEY
KEY449, when connected to the PC management software, expands the work capacity of the palm system by remotely adding one or more transmitters to the system.

KEY449



10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS — **COVERMIX200**
10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS — **COVERMIX400**
10 TRANSPONDER CLIPS (LIGHT GREY) — **COVERTP-LG**
10 TRANSPONDER CLIPS (DARK GREY) — **COVERTP-DG**



PRODUCT DESCRIPTION | ORDER NUMBER

STRIP WITH 1 IMPULSIVE RELAY (N.O. CONTACT) — **MCC4491R1**
The relay remains active while the channel button is kept pressed down.

STRIP WITH 1 IMPULSIVE RELAY (N.C. CONTACT) — **MCC4491RC1**
The relay remains active while the channel button is kept pressed down.

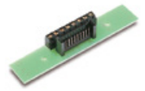


CODE MEMORY MODULES
Extractable and furnished with non volatile memory, this EEPROM contains the system code.

300-CODE MEMORY MODULE (S449 - S486) — **ZGB24LC16-I/P**
1000-CODE MEMORY MODULE (S449D - S486D) — **ZGB24LC64-I/P**



SLOT-IN RECEIVER ADAPTOR — **RSQSPP**
Allows you to use the AMP 10-way receiver card connector as a standard terminal block.



AERIAL FOR 433MHz RECEIVERS — **ANS400**
AERIAL FOR 868MHz RECEIVERS — **ANQ800-1**
COAXIAL CABLE RG58 (per metre) — **ZVCRG58**



KIT AERIAL EXTENSION 2G - 3G WiFi 10m SMA-M — **ANSKITGSMWF10**
KIT AERIAL EXTENSION 2G - 3G WiFi 5m SMA-M — **ANSKITGSMWF5**



LITHIUM BATTERY 3V (2 X CR2032) — **XRP03**



DIGITAL RADIO CONTROL
TRANSCEIVER WITH ROLLING CODES

WITH SIGNAL RECEPTION CONFIRMATION

RADIO CONTROL SYSTEMS

433MHz FM ROLLING CODE
2^{128} CODE COMBINATIONS
RECHARGEABLE Li-Poly BATTERY
AERIAL ANS400

AVAILABLE CHANNELS 1-4
RANGE 100 - 200m
MOBILE TRANSCEIVER WITH AERIAL 700m

The system maintains the radio-electric characteristics of the latest generation of Cardin Elettronica appliances whilst sharpening the reception capacity and increasing the number of possible uses thanks to the implementation of the "Transceiver" bidirectional signal exchange. These and other characteristics make "Morpheus Cardin" an excellent system that distinguishes itself in the specialist sector of radio control devices. The fruit of Cardin Elettronica's experience, and realised following a philosophy of work that sees us continuously occupied in the creation of coherent projects that are aimed at the creation of professional products.

The Morpheus system allows the remote activation of electrical and electronic appliances and sends a reception confirmation signal back to the transceiver. The radio control system consists of one or more mobile transceivers and one or more stationary transceivers, which can be combined to meet the specific needs of the system. The codes in the mobile units are transferred during the memorization stage in to the non-volatile memory of the fixed unit; a maximum of 1000 different codes may be memorized.

The Morpheus system is best used for the activation and deactivation of security systems, the command of automatic opening systems and in all systems which require:

- remote control activation (without wires) using secret codes;
- confirmation control of the sent command signal without direct visual contact with the system.

During operation each successful activation will receive a confirmation signal sent from the receiver to the transmitter allowing you to control an operation from a remote location.

The first time the appliance is used it should be completely charged until the green LED lights up.



MORPH433T4A



OPERATION INDICATOR



BATTERY CHARGER CONNECTION



AERIAL RANGE 700m



BATTERY CHARGE STATUS LED



BATTERY CHARGER VIA USB

PRODUCT DESCRIPTION ORDER NUMBER

MOBILE TRANSCEIVER

Container in shockproof plastic material.
3,7V power supply with Li-Poly rechargeable battery.
Overall dimensions 34 x 72 x 11.



MORPH433T1 MORPH433T2 MORPH433T3 MORPH433T4 MORPH433T4A

1-CHANNEL MOBILE TRANSCEIVER **MORPH433T1**

2-CHANNEL MOBILE TRANSCEIVER **MORPH433T2**

3-CHANNEL MOBILE TRANSCEIVER **MORPH433T3**

4-CHANNEL MOBILE TRANSCEIVER **MORPH433T4**

4-CHANNEL MOBILE TRANSCEIVER WITH AERIAL **MORPH433T4A**

BATTERY CHARGER KEY **MORPHKEY**

The battery can be recharged by connecting the transmitter to a suitable power pack by means of the battery charger key or to a PC via USB.
The key also allows the different functions available in the mobile units to be managed via PC through the use of the software MORPHKEYSW, which can be downloaded free of charge from the website www.cardin.it.



KIT BATTERY CHARGER **MORPHKEYCB**

The charger kit consists of:
- battery charger key MORPHKEY;
- mains transformer;
- USB cable.



KEYPAD COVERS

10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS **COVERMIX200**

10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS **COVERMIX400**



DIGITAL RADIO CONTROL
TRANSCEIVER WITH ROLLING CODES

WITH SIGNAL RECEPTION CONFIRMATION

433 MHz

RADIO CONTROL SYSTEMS

STATIONARY TRANSCEIVER

The stationary transceivers are available in all the classic Cardin versions: outdoor stationary transceivers in watertight cases with a flip up access cover, stationary interface transceiver with multiprotocol decoding in indoor boxes, mini transceiver units to be installed in appliances which already have a protective casing and slot-in transceiver cards for direct insertion into host appliances designed to receive them.

- Outdoor stationary transceiver,
- Slot-in stationary transceiver card,
- Mini stationary transceiver,
- Stationary transceiver with multiprotocol interface;
- Radio frequency module for stationary transceivers

OUTDOOR STATIONARY TRANSCEIVER MORPH433NRC

The outdoor (ABS IP55) stationary transceiver is fitted with a 15-way terminal board and has a 12/24Vac-dc electrical connection between binding posts 1-2 and it is possible to connect two aerials between binding posts in order to improve the signal and consequently the range.

The outdoor receiver is fitted using "fast-fitting" brackets. After connecting the wiring the case should be slid onto the bracket therefore fixing it to the wall. If any repair work is necessary the case can be easily extracted by pushing upwards the action of which will separate it from the bracket.

The unit can be fitted with up to 4 interchangeable relays strips - MCCMORPHM1

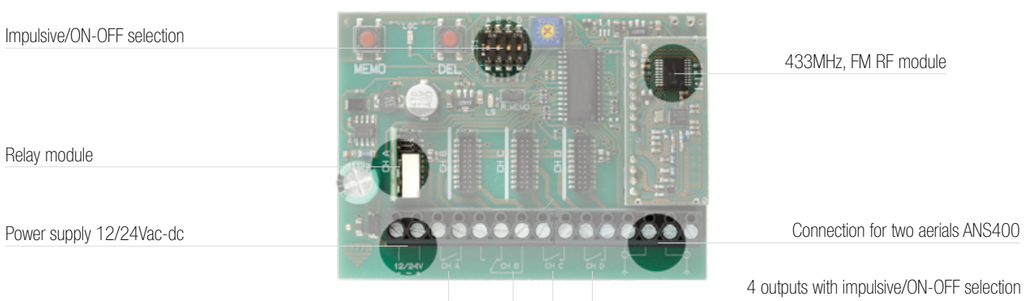
The modules are set via dip-switches (Dip1=CHA - Dip2=CHB - Dip3=CHC - Dip4=CHD) to the following:

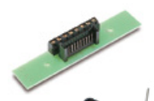
- Impulsive channel modules = corresponding dip-switch set to 'OFF'
- ON/OFF channel modules = corresponding dip-switch set to 'ON'

In the impulsive modules the activation time can be set by means of a trimmer from 200ms to 3 s.



MORPH433NRC



PRODUCT DESCRIPTION	ORDER NUMBER	
OUTDOOR STATIONARY TRANSCEIVER (12/24Vac-dc) All weather box in ABS - IP44. 4-channel transceiver with ON/OFF-impulsive relay settings.	**MORPH433NRC** 1 relay inserted. Possibility of memorising up to 1000 codes. Overall dimensions 110 x 110 x 33.	
OUTDOOR STATIONARY TRANSCEIVER WITH SIGNAL INPUTS (12/24Vac-dc) All weather box in ABS - IP44. The unit is fitted with 4 soldered relays with ON/OFF-impulsive settings. For every output there is a corresponding input through which it is possible to read the (ON/OFF) status of the device connected to the respective outputs.	**MORPH433AL** Possibility of memorising up to 1000 codes. Overall dimensions 110 x 110 x 33.	
2-CHANNEL MINI STATIONARY TRANSCEIVER (12/24Vac-dc) Electronic circuit with a 10-way terminal block; Indoor box IP20. ON/OFF-impulsive relay settings.	**MORPH433RM** Possibility of memorising up to 1000 codes. Overall dimensions 95 x 75 x 25.	
SLOT-IN STATIONARY TRANSCEIVER CARD (24Vac-dc) Transceiver card for direct insertion into a host appliance designed to receive it. ON/OFF-impulsive relay settings.	**MORPH433RS** Possibility of memorising up to 1000 codes. Overall dimensions 70 x 52 x 20.	
RF MODULE FOR STATIONARY TRANSCEIVERS 433MHz Superheterodyne in FM with a digital filter. RF module without decoder suitable for receiving and transmitting digital signals.	**JRFMORPH43300** Voltage: 3Vdc - Electrical input: 15mA. Overall dimensions 40 x 20 x 13.	
MULTIPROTOCOL INTERFACE The interface is able to decode a radio frequency signal coming from a Morpheus transceiver and output a Wiegand/ISO-3554 digital signal, containing the transmitter code, in 13 different formats. It is fitted with a USB for connection to a PC and an input that can be connected to a timer or a switch with the aim of enabling or disabling the interface over different time periods. Rolling Code management with transmitter memorization on the interface.	**MORPH433W00** Carrier frequency 433,92MHz. Power supply 12/24Vac-dc. Electrical input 20mA. Overall dimensions 120 x 85 x 20mm.	
STRIP MORPHEUS WITH 1 PROGRAMMABLE RELAY The relay can be set on the receiver to one of the functions.	**MCCMORPHM1**	
1000-CODE MEMORY MODULE Extractable and furnished with non volatile memory, this EEPROM contains the system code.	**ZGB24LC64-I/P**	
SLOT-IN RECEIVER ADAPTOR Allows you to use the AMP 10-way receiver card connector as a standard terminal block.	**RSQSPP**	
AERIAL FOR 433MHz RECEIVERS	**ANS400**	
COAXIAL CABLE RG58 (per metre)	**ZVCRG58**	

INDUSTRIAL ROLLING CODE TRANSMITTERS/TRANSCEIVERS

RADIO CONTROL SYSTEMS

TXQPROMRF
433MHz FM ROLLING CODE
2128 CODE COMBINATIONS
SIGNAL RECEPTION CONFIRMATION

TXQPRO449 - TXQPRO486
433MHz - 868MHz FM ROLLING CODE
2^{66} CODE COMBINATIONS

TXQPRO504 - TXQPRO508
433MHz - 868MHz FM ROLLING CODE
2^{128} CODE COMBINATIONS

AVAILABLE CHANNELS 4
RANGE 200m (700m with an external aerial)
PROTECTION GRADE IP65

High powered radio controls suited for the industrial sector ideal for the command of generic systems which require remote control.

High technology appliances protected by robust and practical containers with an elevated degree of protection against inclement weather.

The "key" to the system is made up of palm device commands made of anti-shock and anti-scratch materials that are easy to handle and easier to use.

The system of activation using large size buttons guarantees makes them ergonomic and extremely easy to use with or without working gloves.

Available in the standard (version without an external aerial) and the long range version with an external screw-on aerial.

The Cardin 6V batteries supplied with the device are high capacity components which guarantee long life and extended performance.

The TXQPROMRF transceivers are compatible with all the appliances in the MORPHEUS series.

The TXQPRO449 - TXQPRO486 transmitters are compatible with all the appliances in the S449 - S486 series.

The TXQPRO504 - TXQPRO508 transmitters/transceivers are compatible with all the appliances in the S504 - S508 series.

TXQPROMRF-4A





RED INDICATOR LED



ERGONOMIC BUTTONS


EXTERNAL SCREW-IN AERIAL


WATERPROOF CONTAINER IP65


6V LONG LIFE BATTERIES

PRODUCT DESCRIPTION	ORDER NUMBER	
INDUSTRIAL TRANSCEIVER MORPHEUS, FM ROLLING CODE Container in shockproof, water-proof material IP65. Power supply 6V with lithium batteries 2 x CR123A. Overall dimensions 50 x 145 x 26.	433 MHz	
4-CHANNEL TRANSCEIVER (INTERNAL AERIAL)	**TXQPROMRF-4**	
4-CHANNEL TRANSCEIVER (EXTERNAL AERIAL)	**TXQPROMRF-4A**	
INDUSTRIAL TRANSMITTER S449, FM ROLLING CODE Container in shockproof, water-proof material IP65. Power supply 6V with lithium batteries 2 x CR123A. Overall dimensions 50 x 145 x 26.	433 MHz	
4-CHANNEL TRANSMITTER (INTERNAL AERIAL)	**TXQPRO449-4**	
4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)	**TXQPRO449-4A**	
INDUSTRIAL TRANSMITTER S486, FM ROLLING CODE Container in shockproof, water-proof material IP65. Power supply 6V with lithium batteries 2 x CR123A. Overall dimensions 50 x 145 x 26.	868 MHz	
4-CHANNEL TRANSMITTER (INTERNAL AERIAL)	**TXQPRO486-4**	
4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)	**TXQPRO486-4A**	
INDUSTRIAL TRANSMITTER S504, FM ROLLING CODE Container in shockproof, water-proof material IP65. Power supply 6V with lithium batteries 2 x CR123A. Overall dimensions 50 x 145 x 26.	433 MHz	
4-CHANNEL TRANSMITTER (INTERNAL AERIAL)	**TXQPRO504-4**	
4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)	**TXQPRO504-4A**	
4-CHANNEL TRANSCEIVER (INTERNAL AERIAL)	**TXQPRO504BD-4**	
4-CHANNEL TRANSCEIVER (EXTERNAL AERIAL)	**TXQPRO504BD-4A**	
INDUSTRIAL TRANSMITTER S508, FM ROLLING CODE Container in shockproof, water-proof material IP65. Power supply 6V with lithium batteries 2 x CR123A. Overall dimensions 50 x 145 x 26.	868 MHz	
4-CHANNEL TRANSMITTER (INTERNAL AERIAL)	**TXQPRO508-4**	
4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)	**TXQPRO508-4A**	
4-CHANNEL TRANSCEIVER (INTERNAL AERIAL)	**TXQPRO508BD-4**	
4-CHANNEL TRANSCEIVER (EXTERNAL AERIAL)	**TXQPRO508BD-4A**	
6V-LITHIUM BATTERY PACK	**ZRL7.2-1.6**	

DIGITAL RADIO CONTROLS
WITH FIXED / ROLLING CODES

433 MHz

product design award 2011

RADIO CONTROL SYSTEMS

EDGE
433MHz AM FIXED CODES
2^{20} CODE COMBINATIONS
AVAILABLE CHANNELS 2-4
RANGE 100-150

The EDGE 433MHz AM transmitter series is the perfect choice for anyone who wants a fixed code transmitter. Combining the simplicity of fixed code with a powerful radio range, EDGE series radio controls feature a sleek, minimalist design that ensures maximum ergonomic comfort.

The range of radio controls is complete by receivers with self-learning code, extractable memory modules and programmable outputs.



TRANSMITTERS EDGE
2 and 4-channel transmitters with long life lithium batteries and remote self-learning functions. Bi-injection moulded black case, with the upper part in shockproof rubber creating a solid and manageable radio control. Rubber keyring.

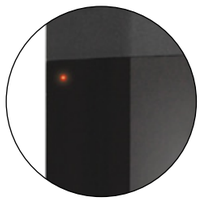
2-CHANNEL TRANSMITTER EDGE EDGE2

4-CHANNEL TRANSMITTER EDGE EDGE4



TRANSMITTER HOLDER (EDGE) PTE

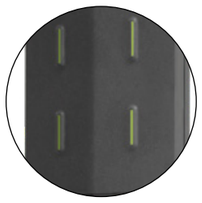




RED INDICATOR LED



LITHIUM BATTERY



ERGONOMIC BUTTONS



RUBBER KEY RING

PRODUCT DESCRIPTION	ORDER NUMBER	
2-CHANNEL RECEIVER CARD (5Vdc) Open collector receiver card for direct insertion into a host appliance designed to receive it. Overall dimensions 48 x 35 x 10.	**EDGEOC2**	
2-CHANNEL MINI RECEIVER (12/24Vac-dc) Electronic circuit wired to an 8-way terminal board, 2 potential free relays, indoor box IP20. Self-learning code function and programmable outputs in three different modes. Overall dimensions 80 x 50 x 20.	**EDGERB2**	
OUTDOOR RECEIVER (12/24Vac-dc) 12/24Vac-dc receiver with four powered outputs (4 A). Self-learning code function and programmable outputs in three different modes and outdoor box IP44.	**EDGER4P**	
OUTDOOR RECEIVER (230V) Receiver with four soldered relays, powered outputs (max. 5A 230V). which can be set to impulsive, ON/OFF or timer control (after you release the transmission button the output will remains active for 30 seconds). Self-learning with the possibility of memorising up to 1012 user codes.	**EDGE230R4** All weather box IP55. Overall dimensions 158 x 118 x 77.	
RADIOPROGRAMMER FOR SUN BLINDS AND AWNINGS (230V-500W) The radio programmer with an inbuilt receiver and transformer for one single phase motor finds its best use in the command of automatic sun blinds and awnings. The appliance may also be used to activate lighting systems with two bulbs (230V max. 500W) or light rolling grills and shutters. Inputs for one opening and one closing command via cable.	**T10EDGE** Indoor box IP20. Overall dimensions 106 x 36 x 21.	
675-CODE MEMORY MODULE (EDGE)	**MEM16**	
AERIAL FOR 433MHz RECEIVERS (EDGE)	**ANS400**	
COAXIAL CABLE RG58 (per metre)	**ZVCRG58**	
LITHIUM BATTERY 3V (2 X CR2032)	**XRP03**	

COMMAND AND SAFETY DEVICES

PROXIMITY COMMAND SYSTEMS 218
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METALLIC MASS DETECTORS 221
RADIOSHIELD 222

PROXIMITY
COMMAND SYSTEMS

DIGITAL TRANSMISSION VIA CABLE
SURFACE-MOUNT INSTALLATION IP57
NUMBER OF USER CODES THAT CAN BE STORED: 1000
NUMBER OF AVAILABLE CODE COMBINATIONS: 1 MILLION
SEPARATE COMMAND FUNCTIONS: 4
MANAGES UP TO 3 PERIPHERAL DEVICES (KEYPADS / READERS)
BACKLIGHTING PROGRAMMING

DKS1000T



DKS is a security system via cable ideal for commanding automatic gates and doors and access control systems. Extremely efficient, it can be inserted into any architectural context with extreme ease and is made up of an anti-tamper numerical key pad, a key-pad with transponder functions, a transponder reader and an interface which is activated either by a digital code typed into the keypad, by the proximity of a Series S500 transmitter or by a transponder tag/card. All devices are connected by a shielded single wire cable.

DKS1000 is a system made up of a numerical code keypad and an interface. The extremely compact and efficient command keypad has a case made of Zamak, the key cover and sealing gaskets are made of silicon rubber, the flush-fitting and embedding wall fastening bases are both made of Zamak and the fastening system uses personalised screws. The DKS1000R interface allows the memorisation of 1000 user codes and has code cancellation, memorisation and memory reset functions directly on the keyboard.
It is possible to memorise up to three keyboards in a single interface module which allows you to activate commands from different locations. You can also manage up to four contacts independently with separate keys using impulsive ON / OFF or timer controlled relays. After having inserted a special enabling code it is possible to memorise codes from a remote position without accessing the interface.

DKSTPM is a system made up of a transponder reader and an interface. The transponder reader DKSTPMT is compact and reliable and housed in a shockproof zamak container IP57 with an easy to apply wall fastening base. The system allows the remote reading of tags, transponder cards and series S500 transmitters, through the use of the interface DKS1000R which is able to memorise up to 1000 users. It is possible to memorise up to three transponder readers in a single interface module which allows you to activate commands from different locations
It is possible to memorise tags directly on the reader using a Master Tag or by accessing the interface and pressing the programming button.
The transponder in the tag is passive and therefore does not require a power supply and is only activated when it finds itself in the transponder reader detection zone.

DKSDUAL is a multifunctional security system that unites the functions of the DKS1000 and DKSTPM in a single product. The device, in a shockproof polycarbonate IP57 container, features backlighting with adjustable intensity automatically controlled by a light sensor and a proximity sensor.



BUTTONS WITH BACKLIGHTING DKS1000T



ANTI-TAMPER SYSTEM DKS1000T



SHOCKPROOF CONTAINER IN POLYCARBONATE WITH BACKLIGHTING DKSDUALT



S500 TRANSMITTERS AND TAGS DETECTED USING RFID TECHNOLOGY



MEMORISATION OF UP TO 1000 CODES

PRODUCT DESCRIPTION — ORDER NUMBER

KEYPAD
Surface-mounting IP57.
The metal antitamper keyboard DKS1000T has 12 keys, 10 numerical (0-9), one confirm key (*) and one cancel key (#) by means of which it is possible to program the backlighting and other operational parameters. It is suitable for connection with the DKS security system via a shielded unipolar wire carrying both the power supply and the data line. It is also fitted with auxiliary serial line allowing it to connect to the CARHF4G system (See Access Control section at page 182).

DKS1000T



Dimensions 72 x 104 x 26.

KEYPAD WITH BACKLIGHTING — **DKS1000T**

KIT KEYPAD + INTERFACE — **DKS1000**

KIT - DKS1000



TRANSPONDER READER
Surface-mounting IP57.
Using dip-switch settings it is possible to program the backlighting and other operational parameters. It is suitable for connection with the DKS security system via a shielded unipolar wire carrying both the power supply and the data line. Allows the interface to be activated by proximity reading an S500 transmitter, a TAG or a CARD. It is also fitted with auxiliary serial line allowing it to connect to the CARHF4G system (See Access Control section at page 182).

DKSTPMT



Dimensions
70 x 70 x 24.

TRANSPONDER READER IN A ZAMAK CASE — **DKSTPMT**

KIT TRANSPONDER READER IN A ZAMAK CASE + INTERFACE — **DKSTPM**

13,56 MHz

KIT - DKSTPM



KEYPAD WITH TRANSPONDER FUNCTION
Surface-mounting IP57.
The DKSDUALT device has the following features:
- 12 keys with backlighting;
- backlighting controlled by the proximity sensor.

Allows the interface to be activated by either typing in a code or by proximity reading an S500 transmitter, a TAG or a CARD.

DKSDUALT



Dimensions 74 x 130 x 20.

KEYPAD WITH TRANSPONDER FUNCTION — **DKSDUALT**

KIT KEYPAD TRANSPONDER + INTERFACE — **DKSDUAL**

13,56 MHz

KIT - DKSDUALT



4-CHANNEL INTERFACE — **DKS1000R**
The interface box is easy to install and has the following features:
- power supply 12 or 24Vac-dc;
- 4 normally open relays (one for each channel);
- management of up to 3 peripheral devices (keypads and/or transponder readers;
- 1 multifunction key for the following functions: storing a code, cancelling a code, cancelling the entire memory content, inserting an activation code for the "remote memorisation" function. It is possible to store 1000 codes in memory with a maximum of 6 digits for each code. Each code can activate up to 4 channels (different functions).



Dimensions 95 x 75 x 25.

TRANSPONDER TAG (WHITE) — **TAGWH**

TRANSPONDER TAG (GREY) — **TAGGR**

10 TRANSPONDER CARDS — **TAGCARD**

13,56 MHz



SELECTORS AND SENSORS

PRODUCT DESCRIPTION — ORDER NUMBER

KEY OPERATED SURFACE-MOUNT SWITCH IN ALUMINIUM
Selector switch for the manual on-site activation of automatic gate and door systems. Container in cast aluminium with a shockproof plastic front piece. Anti-tampering system that is easy to install and easier to use.

SELMEC/E1
Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Overall dimensions 35 x 70 x 70.



KEY OPERATED SURFACE-MOUNT SELECTOR SWITCH
Selector switch in shockproof material for the manual on-site activation of automatic gate and door systems.

APRO
Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Overall dimensions 102 x 43 x 34.



PROTECTIVE SUPPORT
Protective support in cast aluminium for the APRO selector switch. Lots of 2 pcs.

BLINDO



Dimensions 46 x 133 x 37

FASTENING BASE
Wall fastening base for the selector switch APRO. Cover when installing over pre-existing holes. Lots of 2 pcs.

COP



Dimensions 110 x 150 x 14

KEY-OPERATED EMBEDDING SELECTOR SWITCH
Selector switch in shockproof material for the manual on-site activation of automatic gate and door systems.
Anti-tampering system that is easy to install and easier to use.

SELCH
Maximum voltage 30Vac-dc.
Maximum current 2A.
Open-close functions.
Overall dimensions 69 x 69 x 78.



ANEMOMETER
Wind speed sensor (with wall bracket).
The wind sensor can be used with all electronic devices that feature a potential free "anemometer" contact.
Overall dimensions 240 x 220 x 71.

SW01



SINGLE COIL
METALLIC MASS DETECTORS

POWER SUPPLY 24Vac-dc / 230Vac
AUTOMATIC CALIBRATION
SENSITIVITY ADJUSTMENT
MULTIPLE RELAY OUTPUT

Device for detecting the presence of metallic masses in a magnetic field generated by a special external circuit (sensitive coil) connected to it. The appliance can be used to control either single or multiple passageways connected to a computer with the possibility of detecting the direction in which the traffic is moving (rapid passage mode up to 100km/h). Multiple appliances working together allow you to have real time control over the parking situation in a variable number of parking lots in one or more zones.

The system is made up of four components:

- a detection device contained in a special protective case;
- socket for fitting on panelling or rails DIN46277 (METALDEC only);
- a sensitive element (not supplied by us) that should be made up of a multipolar cable with one or more wires and must respect the measurements as specified in the drawings;
- a bipolar cable (not supplied by us) with which to connect the sensitive element to the detecting device.

If you use two single-wire cables these should be loosely wound together.

Technical description	METALDEC230X	METALDEC024X	METALD3
Power supply:	230Vac (50-60Hz) 35mA	24Vac-dc 100mA	24Vac-dc 100mA
Sensitivity:	8 levels	8 levels	4 levels
Relay output:	2 (max. 1A 30V)	2 (max. 1A 30V)	3 (max. 1A 30V)
Operating temperature range:	-20°…+55°C	-20°…+55°C	-20°…+55°C
Protection grade:	IP40	IP40	IP54

METALDEC



Overall dimensions 101 x 71 x 35.

METALD3



Overall dimensions 146 x 64 x 38.

SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 24V) — **METALDEC024X**
SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 230V) — **METALDEC230X**
SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 24V) — **METALD3**



RAIL GUIDE SOCKET DIN 46277



UNDECAL CONNECTION FOR DIN RAIL GUIDE



SENSITIVITY SELECTOR H-M-L AND RESET BUTTON



DOUBLE RELAY WITH SERIAL EXCHANGE NO-NC



SENSITIVITY SELECTION DIP-SWITCHES

WIRELESS TRANSCEIVER SAFETY SYSTEM

CONFORMS TO THE SAFETY STANDARD EN12978

433 MHz · 868 MHz · CLASS 3

RADIOSHIELD

MAXIMUM RADIO SIGNAL RANGE 30m

PROTECTION GRADE IP65

OPERATING TEMPERATURE RANGE -20…+55°C

Safety first, this is our what we have in mind. Guaranteeing safety within a complex system is not to be taken lightly as it is never obtained by chance. Safety must be the point of arrival and to obtain it requires a combination of professionalism, experience and know how. It is for this reason that our know how is dedicated to the creation of professional appliances for specialised installers.

Radioshield is part of this project and it becomes part of a range of appliances all of which are dedicated to the protection of absolutely reliable motorized closing systems constructed in conformity with CLASS 3. Appliances that unite maximum detection efficiency and controlled intervention working together under all conditions predictable or unpredictable that could arise during the operation of the system.



RANGE OF PRODUCTS

Radioshield is made up of the following high technology appliances protected by robust and practical containers with an elevated degree of protection against inclement weather.

STATIONARY TRANSCEIVER UNIT

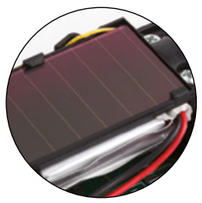
The stationary transceiver is able to manage up to 8 security devices via radio and is fitted with 3 safety outputs NO/8.2kΩ set by jumpers. The semi-transparent cover allows the status of the safety devices and the level of charge in the batteries on the transceiver interface to be controlled visually by means of LEDs. Each radio controlled safety device can be associated with one of the three safety outputs by means of a dip-switch.

SAFETY EDGE TRANSCEIVER INTERFACE

The transceiver interface is wired directly to the safety edge on the moving part of the installation. This is a highly professional appliance categorised as a safety device and used with Cardin safety edges it conforms to the European safety standard EN12978. The 3V Cardin Lithium battery supplied with the appliance is highly reliable under all weather conditions and furnishes a high level of safety and top performance in all environments.

PAIR OF WIRELESS TRANSCEIVER PHOTOELECTRIC CELLS

The pair of wireless photoelectric cells can be installed on any surface without wiring. Power is supplied by a solar panel on bright days and by a 3V lithium battery in conditions of insufficient light. The duration of the battery can be optimised by using the energy saving function to set the cut in time and the installation operating distance.
Self-locking adjustable lens which can be rotated horizontally through plus or minus 90° and vertically through plus or minus 30° with respect to the standard installation position.



COMBINED OPERATION BATTERY - SOLAR PANEL



ADJUSTABLE LENS



CABLE GLANDS SUPPLIED WITH THE APPLIANCE



STATIONARY TRANSCEIVER, SAFETY OUTPUT MANAGEMENT (NC/8,2kΩ)



8 RED SAFETY STATUS LEDS
8 GREEN BATTERY CHARGE LEDS

PRODUCT DESCRIPTION		ORDER NUMBER	
SAFETY EDGE TRANSCEIVER INTERFACE 3V lithium battery power supply. Safety edge signal input NC/8.2kΩ. Maximum radio signal range 30m. Shockproof case IP65.	433 MHz	SAFEPRC4	 Dimensions 50 x 145 x 26
	868 MHz	SAFEPRC8	
PAIR OF WIRELESS PHOTOELECTRIC CELLS 3V lithium battery power supply. Maximum radio signal range 30m. Maximum infrared range 10m. Transmitter and receiver housed in shockproof and waterproof cases IP65.	433 MHz	SAFECDR4	 Dimensions 60 x 125 x 41
	868 MHz	SAFECDR8	
STATIONARY TRANSCEIVER UNIT Power supply 12/24Vac-dc. Maximum radio signal range 30m. 8 safety devices. 3 safety outputs NC/8.2kΩ. Shockproof case IP65.	433 MHz	SAFEDECX4	 Dimensions 109 x 110 x 40
	868 MHz	SAFEDECX8	
KIT SAFETY EDGE INTERFACE + STATIONARY UNIT (433MHz)		SAFEKIT4	
KIT SAFETY EDGE INTERFACE + STATIONARY UNIT (868MHz)		SAFEKIT8	
KIT PAIR OF PHOTOCELLS + STATIONARY UNIT (433MHz)		SAFEKITCDR4	
KIT PAIR OF PHOTOCELLS + STATIONARY UNIT (868MHz)		SAFEKITCDR8	
3V-LITHIUM BATTERY PACK		ZRA3.0-3.8-W	

PRODUCT DESCRIPTION	ORDER NUMBER	
SAFETY EDGE TRANSCEIVER INTERFACE Power supply 2 alkaline or lithium AA batteries. Safety edge signal input NC/8.2kΩ. Maximum radio signal range 20m. Shockproof case IP65.	868 MHz **SRCTX8E** Dimensions 50 x 145 x 26	
STATIONARY TRANSCEIVER UNIT Power supply 12/24Vac-dc. Maximum radio signal range 20m. 8 safety devices - 2 safety outputs NC/8.2kΩ. Shockproof case IP65.	868 MHz **SRCRX8E** Dimensions 109 x 110 x 40	
1-CHANNEL STATIONARY TRANSCEIVER UNIT Power supply 12/24Vac-dc. Maximum radio signal range 20m. 8 safety devices - 2 safety outputs NC/8.2kΩ. Shockproof case IP65.	868 MHz **SRCRX8E-1** Dimensions 50 x 145 x 26	
KIT SAFETY EDGE INTERFACE + STATIONARY UNIT	868 MHz **SRCKIT8E**	
KIT SAFETY EDGE INTERFACE + 1-CHANNEL STATIONARY UNIT	868 MHz **SRCKIT8E-1**	

PRODUCT DESCRIPTION	ORDER NUMBER	
SAFETY EDGE TRANSCEIVER INTERFACE Power supply 2 alkaline or lithium AA batteries. Safety edge signal input NC/8.2kΩ. Maximum radio signal range 20m. Shockproof case IP65.	433 MHz **SRCTX4E** Dimensions 50 x 145 x 26	
STATIONARY TRANSCEIVER UNIT Power supply 12/24Vac-dc. Maximum radio signal range 20m. 8 safety devices - 2 safety outputs NC/8.2kΩ. Shockproof case IP65.	433 MHz **SRCRX4E** Dimensions 109 x 110 x 40	
1-CHANNEL STATIONARY TRANSCEIVER UNIT Power supply 12/24Vac-dc. Maximum radio signal range 20m. 8 safety devices - 2 safety outputs NC/8.2kΩ. Shockproof case IP65.	433 MHz **SRCRX4E-1** Dimensions 50 x 145 x 26	
KIT SAFETY EDGE INTERFACE + STATIONARY UNIT	433 MHz **SRCKIT4E**	
KIT SAFETY EDGE INTERFACE + 1-CHANNEL STATIONARY UNIT	433 MHz **SRCKIT4E-1**	

INFRARED MODULATED BARRIERS

INFRARED BARRIERS FULL CLASS 3 228

INFRARED BARRIERS WITH ADJUSTABLE LENSES 230

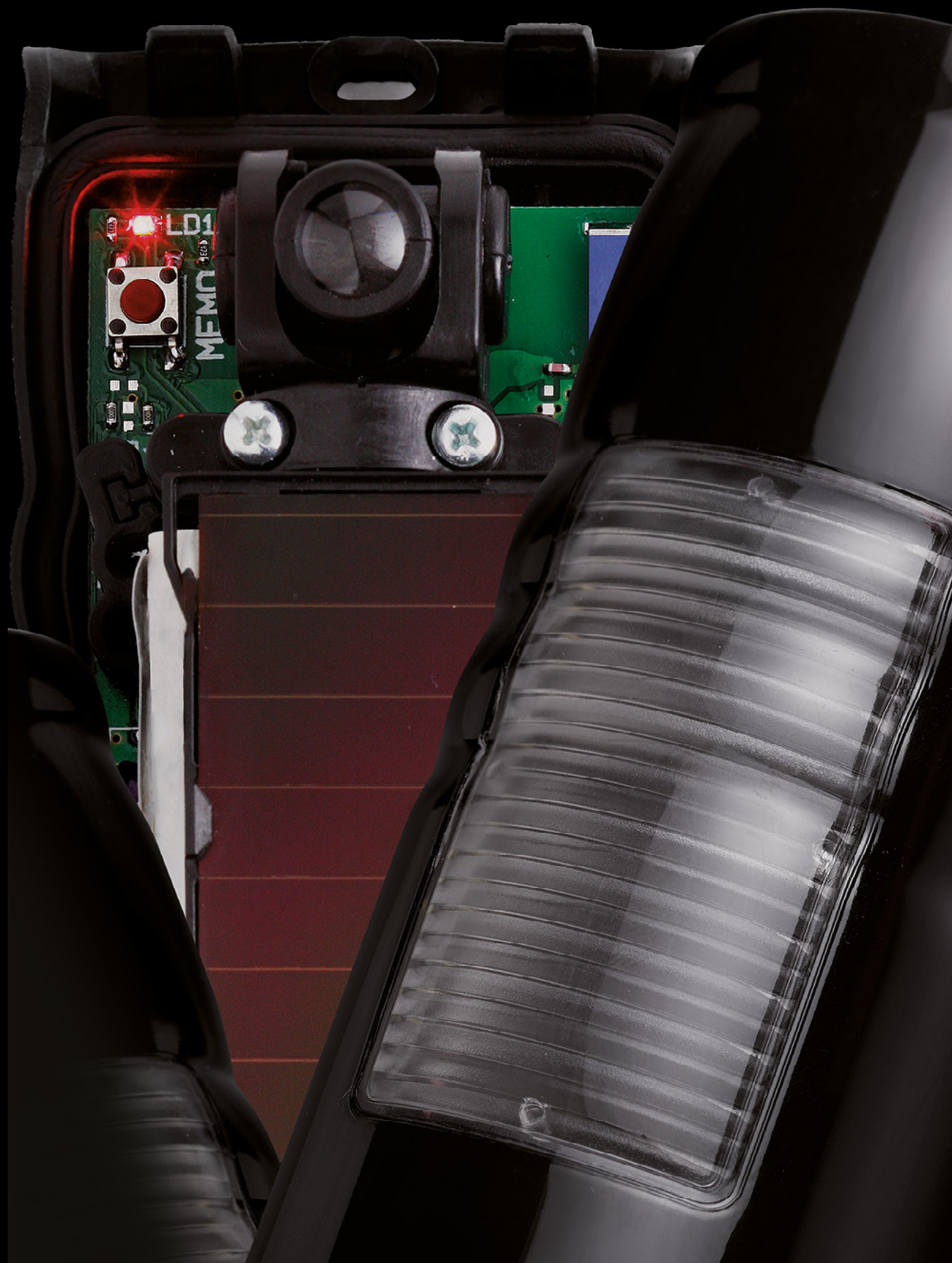
HYBRID INFRARED BARRIERS WITH ADJUSTABLE LENSES 234

INFRARED BARRIERS WITH FIXED POSITION LENSES 235

MULTI-BEAM INFRARED BARRIERS 236

INFRARED BARRIERS WITH MINUTE OPTICAL SENSORS 238

REFLECTIVE INFRARED BARRIERS WITH ADJUSTABLE LENSES 240



INFRARED BARRIERS
WITH ADJUSTABLE LENSES
FULL CLASS 3

FULL CLASS 3 SYNCRO

POWER SUPPLY 12/24Vac-dc
MAXIMUM RANGE UNDER IN CONDITIONS 15 METRES
CONFORMS TO THE SAFETY DIRECTIVES 12978 IN CATEGORY 3
OF THE EN ISO 13849-1 AND CATEGORY 2 OF THE EN61496-2
SHIELDED LENSES - GREATER IMMUNITY TO INTERFERENCE

CDR 973 is a specifically designed range of next generation infrared security devices for the protection of carriageways and pedestrian passageways fitted with automatic opening and closing systems. The appliance is fitted with a new optical transmission system that respects an infrared opening angle of +/- 5°. The management of both the transmitter part and the receiver part is carried out by micro controller, giving the advantage of greater precision in the generation of impulses transmitted via infrared and this (once modulated according to a digital protocol that allows information transfer from the transmitter to the receiver) eliminates the risk of blinding caused by other infrared systems working on the same frequency and located in the vicinity. This is a superior class appliance that will be available in three different containers in order to solve all installation requirements.

Technical description

Infrared emission obtained by digital modulation of the carrier signal.

Reception with protocol demodulation and decoding allowing the transmitter to be recognised.

It is possible to connect up to 3 pairs of photocells and synchronize the transmission without interference; selection is carried out by means of a three-way dip-switch located on the transmitter and the receiver and by interconnecting the three transmitters using a two-wire cable (synchronism). The receiver does not require any other form of interconnection.

Digitally controlled double relays are situated on the receiver card in order to increase the safety of the appliance (at rest/alarm status control).

Jumper for selecting the output mode (potential free, N.C. or resistance 8,2kΩ contacts). Drop out delay selection via dip-switch (0, 2 seconds or 3 seconds).

High intensity LED (on the receiver) facilitating lens centring from a certain distance.

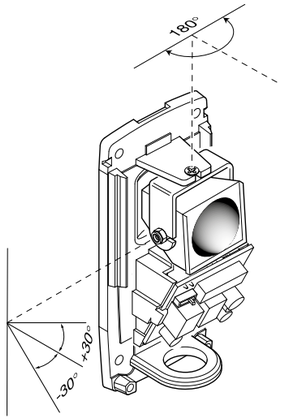
2 indicator LEDs on the receiver:

- green - when lit indicates the photoelectric cell is at rest;
- red - when lit indicates the photoelectric cell is in alarm, when flashing indicates photoelectric cell failure.

Reinforced power supply tolerating voltages up to 40Vdc or 28Vac.

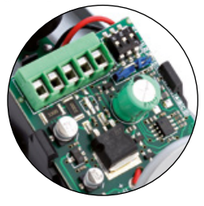


ADJUSTABLE LENSES





ADJUSTABLE LENS



MULTIPLEX SYSTEM



ALUMINIUM CASING



CONTAINER IP66



CABLE PROTECTION

PRODUCT DESCRIPTION	ORDER NUMBER	
PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE IP66 Maximum range 15m Power supply 12/24Vac-dc Protection grade IP66 Transmitter and receiver housed in a compact waterproof aluminium case. Highly resistant spray painting. Self locking adjustable lens which can be rotated horizontally through plus or minus 90° and vertically through plus or minus 30° with respect to the standard installation position. It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).		 Dimensions 56 x 142 x 63
SURFACE-MOUNT PHOTOELECTRIC CELL The kit contains a pair of aluminium photoelectric cells with two pipe glands.	**CDR973AX**	
PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP55 Maximum range 15m Power supply 12/24Vac-dc Protection grade IP55 Transmitter and receiver housed in a waterproof plastic case. Self locking adjustable lens which can be rotated horizontally through plus or minus 90° and vertically through plus or minus 30° with respect to the standard installation position. It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).		
FLUSH-FITTING PHOTOELECTRIC CELLS The kit contains a pair of flush-fitting photoelectric cells and 2 lens covers for flush-fitting photocells.	**CDR973IX**	 Dimensions 50 x 90 x 60
SURFACE-MOUNT PHOTOELECTRIC CELLS The kit contains a pair of surface-mount photoelectric cells, 2 lens covers for surface-mount photocells and 2 fast-fitting wall brackets.	**CDR973EX**	 Dimensions 50 x 90 x 60

CLASS 3

The circuit board has been produced according to the requirements stipulated by the standards for electronic appliances that fall under category 3 of the EN ISO 13849-1 (update of the EN954-1). At a practical level it covers the need to guarantee greater immunity to interference in the working environment that is increasingly being polluted by disturbance. This has led to the technical evolution of both the transmitter part as well as the receiver part based on the criteria "resistance to single failure" that guarantees the maintenance of the safety level even when faced with electrical problems regarding one or more components within the device (transmitter or receiver).

INFRARED BARRIERS
WITH ADJUSTABLE LENSES

POWER SUPPLY 12/24Vac-dc
RANGE 15m - 60m
SENSITIVITY ADJUSTMENT CDR851 - CDR852A
SHIELDED LENSES - GREATER IMMUNITY TO INTERFERENCE

Modulated infrared barrier consisting of a transmitter and a receiver.

It constitutes an efficient safety system for the protection of passageways or spaces which are equipped with automatic doors or gates.

A shockproof designer case, pleasing on the eye, encloses innovative technical solutions which make the system extremely reliable under all working conditions.

The vast range of available models meets all possible system requirements.

Technical description

Anti-tamper aluminium case IP66 CDR842A - CDR852A

Shockproof case IP55 CDR841 - CDR851

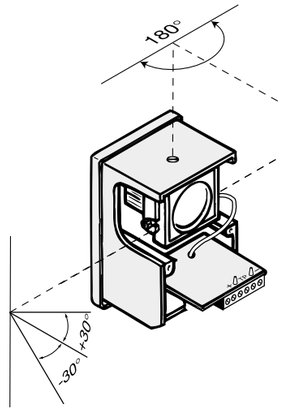
Self locking adjustable lens which can be rotated horizontally through plus or minus 90° (± 45° for the CDR841I) and vertically through plus or minus 30° with respect to the standard installation position.
These adjustments permit lateral fitting and installations where the transmitter and receiver are at different heights.
Double-relay with serial exchange on the receivers as requested by the standards regarding protection against accidents for motorized gates and doors.

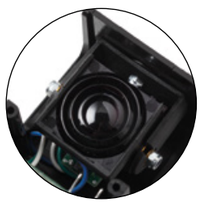
2 indicator LEDs:
- red - indicating that the transmitter is receiving power;
- red - (photocells out of alignment or the beam is interrupted) in the receiver.

Test point (for fine tuning) on the receiver.
Sensitivity adjustment trimmer on models CDR851 - CDR852A.



ADJUSTABLE LENSES

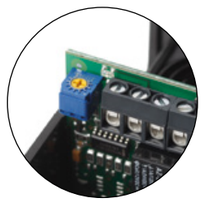




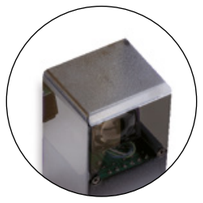
ADJUSTABLE LENS



SURFACE-MOUNT ALUMINIUM CASE IP66



SHIELDED LENSES GREATER IMMUNITY TO INTERFERENCE



SURFACE-MOUNT VERSION



FLUSH-FITTING VERSION

PRODUCT DESCRIPTION — ORDER NUMBER

PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE IP66
Maximum range 15m - 60m
Power supply 12/24Vac-dc
Protection grade IP66
Transmitter and receiver housed in a compact waterproof aluminium case. Highly resistant spray painting.
Double-relay with serial exchange.
Sensitivity adjustment trimmer located on the receiver (only CDR852A).



Dimensions 56 x 142 x 63

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 15m — **CDR842A**
The kit contains a pair of photoelectric cells with two pipe glands.

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 60m — **CDR852A**
The kit contains a pair of photoelectric cells with two pipe glands.

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP55
Maximum range 15m - 60m
Power supply 12/24Vac-dc
Protection grade IP55
Transmitter and receiver housed in a waterproof plastic case.
Double-relay with serial exchange.
Sensitivity adjustment trimmer located on the receiver (only CDR851).



FLUSH-FITTING PHOTOELECTRIC CELLS, RANGE 15m — **CDR841I00**
The kit contains a pair of flush-fitting photoelectric cells and 2 lens covers for flush-fitting photocells.



Dimensions 50 x 90 x 60

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 15m — **CDR841E00**

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60m — **CDR851**

The kit contains a pair of surface-mount photoelectric cells, 2 lens covers for surface-mount photocells and 2 fast-fitting wall brackets



Dimensions 50 x 90 x 60

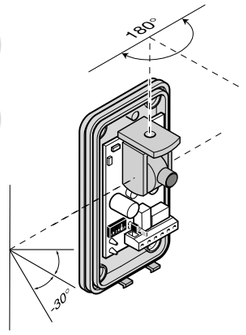
PRODUCT DESCRIPTION

ORDER NUMBER

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP55
Maximum range 10m
Power supply 12/24Vac-dc
Protection grade IP55
Transmitter and receiver housed in waterproof cases.
Self locking adjustable lens which can be rotated horizontally through plus or minus 90° and vertically through plus or minus 30° with respect to the standard installation position.
It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).
Double relays on the receiver with digital control increase the security and safety level of the output part (the part that furnishes the at rest/alarm signal). Jumper for selecting the output contact mode (potential free or resistance 8, 2kΩ contacts).

CLASS 3

SYNCRO



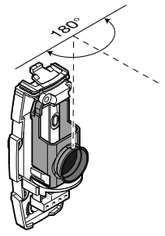


Dimensions 50x 90 x 40

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 10m

CDR999

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44
Maximum range 25m
Power supply 12/24Vac-dc
Protection grade IP44
Photoelectric cells that are easy and rapid to install, they are fitted with horizontally adjustable lenses through 180°, permitting greater installation flexibility.
The auto-centering lenses also allow slight vertical corrections to be made.
Automatic synchronism eliminates disturbance between two pairs of photoelectric cells.





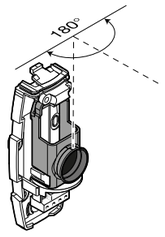
Dimensions 43 x 102 x 34

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 25m

VEDO180

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44
Maximum range 25m
Power supply 24Vac-dc
Protection grade IP44
Programmable infrared photoelectric cells. Ideal for complex installations with up to 8 pairs of photocells thanks to the synchronism system. They are fitted with horizontally adjustable lenses through 180°, permitting greater installation flexibility and the auto-centering lenses also allow slight vertical corrections to be made.
The devices can be powered with 24 Vac or Vdc without reference to the polarity.

SYNCRO





Dimensions 43 x 102 x 34

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 25m

VEDO180PRO

PRODUCT DESCRIPTION

ORDER NUMBER

PROTECTIVE SUPPORT
Protective support in cast aluminium for the VEDO photoelectric cells.
Lots of 2 pcs.

BLINDO



Dimensions 46 x 133 x 37

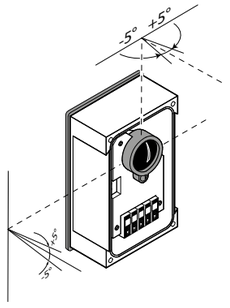
FASTENING BASE
Wall fastening base for the VEDO photoelectric cells. Cover when installing over pre-existing holes. Lots of 2 pcs.

COP



Dimensions 110 x 150 x 14

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44
Maximum range 25m
Power supply 12/24Vac-dc
Protection grade IP44
The FT201 are surface mount photocells that allows the internal part of the to be inclined through ± 5° both horizontally and vertically for precise alignment.
The photocells are supplied with 2 NC relays with contact in series. An NO contact is also available on the terminal board.
The FT201 photocells are fitted with a system that is able to keep two pairs of photoelectric cells synchronised.



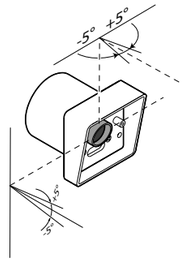


Dimensions 59 x 87 x 40

SURFACE-MOUNT PHOTOELECTRIC CELL, RANGE 25m

FT201SINCRO

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44
Maximum range 25m
Power supply 12/24Vac-dc
Protection grade IP44
The ILB SINCRO are flush-fitting photoelectric cells that allows the internal part of the to be inclined through ± 5° both horizontally and vertically for precise alignment.
The photocells are supplied with 2 NC relays with contact in series. An NO contact is also available on the terminal board.
The ILB SINCRO photocells are fitted with a system that is able to keep two pairs of photoelectric cells synchronised.





Dimensions 79 x 79 x 78

FLUSH-FITTING PHOTOELECTRIC CELLS, RANGE 25m

ILBSINCRO

HYBRID INFRARED BARRIERS
WITH ADJUSTABLE LENSES

CLASS 3

RECEIVER POWER SUPPLY 12/24Vac-dc
PROJECTOR POWER SUPPLY 3V WITH A LITHIUM BATTERY
MAXIMUM RANGE 10m
PROTECTION GRADE IP55

CDRX12 is a next generation infrared safety system, particularly suited to the protection of passageways (traffic and pedestrian) that are fitted with automatic opening and closing systems. The electronic circuit respects the most up to date standards and regulations and conforms to the standard 3 of the UNI EN 13849-1 (update of the EN954-1). It is possible to connect up to 3 pairs of photocells and synchronise the transmission (multiplex system). The necessity of guaranteeing greater ambient noise immunity has led to the evolution of both the transmitter and receiver cards. The system is based on the criteria "resistance to single failure" that guarantees the maintenance of safety in case of electrical problems.

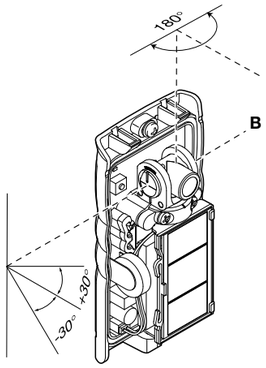
The receiver should be installed close to the electronic programmer and wired up drawing its 12/24V power supply directly from the programmer while the projector can be installed on any surface and doesn't require wiring. Power is supplied by a solar panel when light is present and by a 3V lithium battery when insufficient light is available. The batteries lifespan can be optimised by setting the energy saving function and varying the cut-in time and the installation distance between the two photoelectric cells.

Technical description

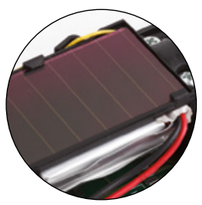
Infrared transmission by means of digital modulation of the carrier signal.
Reception via demodulation and decoding of the protocol allowing the transmitter to be identified.
Self locking adjustable lens which can be rotated horizontally through plus or minus 90° and vertically through plus or minus 30° with respect to the standard installation position.
Double relays on the receiver with digital control increase the security and safety level of the output part (the part that furnishes the at rest/alarm signal).
Selection of the output contact mode (potential free or resistance 8, 2kΩ contacts).
Differentiated signal LEDS on the receiver indicate the "correct function" status by flashing briefly (every minute) or the "alarm" status when they remain constantly lit.
Pre-amplified receiver lens.
Reinforced power supply allowing voltages up to 40Vdc or 28Vac.
Overall dimensions 60 x 125 x 41
Maximum range 10m.



ADJUSTABLE LENSES



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS **CDRX12**



COMBINED OPERATION BATTERY - SOLAR PANEL ON THE PROJECTOR



ADJUSTABLE LENS



SEMI-TRANSPARENT PROJECTOR ALLOWING THE PASSAGE OF SUNLIGHT



CABLE CLAMP SUPPLIED WITH THE RECEIVER



SURFACE-MOUNT FITTING SHOCKPROOF CONTAINER IP55

INFRARED BARRIERS
WITH FIXED POSITION LENSES

POWER SUPPLY 12/24Vac-dc
MAXIMUM RANGE 10 Metres
PROTECTION GRADE IP54
OPERATING TEMPERATURE RANGE -10…+55 °C

The infrared barrier constitutes an efficient safety system for the protection of passageways or spaces which are equipped with automatic door or gate systems, and for the detection and control of general passageways, whether carriageway or pedestrian, situated inside or outside buildings.

Technical description

The projector and receiver are housed in a compact, shockproof plastic casing.
The casing is designed to be surface-mounted on walls. The ease of installation is complemented by the rapid adjustment time: centring is carried out, without having to loosen or fasten any screws. Just align the devices on the same axis.
The system of diodes (sender - receiver), fitted with a constraint guide for the infrared beam remains in a fixed position.
Base in thermoplastic rubber.
Lens cover with holding gasket.
Double-relay with serial exchange as required by the local standards and regulations in force.
Protection grade IP54
Fireproofing grade V0.
Overall dimensions 65 x 92 x 22.

CDR861



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS RANGE 10m **CDR861**
HOLE COVERING BASE Ø60mm **CDR861SUP**



INFRARED BEAM GUIDE



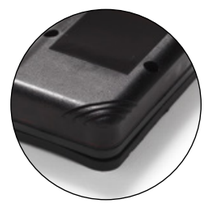
POWER SUPPLY 0-12-24Vac-dc



EXCHANGE CONTACT NC-NO-C



RUBBER WALL-MOUNTING BASE



SHOCKPROOF CONTAINER

INFRARED BARRIERS
MULTI-BEAM PHOTOELECTRIC CELLS

POWER SUPPLY 12-30Vdc/24Vac
PROTECTION GRADE IP67
BLANKING FUNCTION
MAXIMUM RANGE 10M

A safety system consisting of two profiles located at the sides of the passage to detect, at various heights, any obstacles or persons and to prevent their impact with the moving part.

Such systems are particularly suited to sectional doors and fast curtains, as the units can be installed on opposite sides of the of the opening (inside/outside) or concealed within the tracks.

The infra-red barrier adapts to various installations through an internal calibration of the range and the continuous synchronisation of each channel (beam). The angle of the infrared beam and the opening angle of the optics (+/- 10 °) facilitates and allows installation even when the profiles are not perfectly aligned.

The BLANKING function allows the units to be installed within the guide tracks of an industrial door, where door movement occurs within the protected area, interrupting beams sequentially from top to bottom. This specific function ensures that the system can distinguish between the door closing and another object, ignoring beams that are blocked by door movement and leaving only the remaining beams active at the bottom to detect an object below the door edge.

CDR RED



Technical description

- Controlled range for gates from 1 to 10m;
- Two height options, 1950 mm (16 beams) and 2670 mm (20 beams);
- The anodised and sealed aluminium profile allows for a Protection grade of IP67;
- Both units are supplied with a cable, the transmitter's cable is 15m long and the receiver's cable is 5m long;
- Blanking function with sequential beam exclusion;
- Automatic synchronization;
- Status indicator LED;
- Fast-fitting metal anchoring clips.



INSULATED SUPPORTS



WIRED RECEIVER AND TRANSMITTER



RX UNIT WIRE



ANCHORING CLIP



STATUS INDICATOR LEDs

PRODUCT DESCRIPTION	ORDER NUMBER
MULTI-BEAM INFRARED BARRIERS 2m A safety system consisting of two profiles located at the sides of the passage to detect, at various heights, any obstacles or persons and to prevent their impact with the moving part. Height: 1950 mm Beams: 16 Transmitter cable: 15m - Receiver cable: 5m.	**CDR-RED2.0**
MULTI-BEAM INFRARED BARRIERS 2.6m A safety system consisting of two profiles located at the sides of the passage to detect, at various heights, any obstacles or persons and to prevent their impact with the moving part. Height: 2668 mm Beams: 20 Transmitter cable: 15m - Receiver cable: 5m.	**CDR-RED2.6**



INFRARED BARRIERS
WITH MINUTE OPTICAL SENSORS

POWER SUPPLY 12/24Vac-dc
RANGE FROM 1 TO 15 METRES
PROTECTION GRADE (SENSORS) IP55
CONFORMS TO THE SAFETY DIRECTIVES 12978 IN CATEGORY 3 OF EN13849-1 AND TYPE 2 OF EN61496-2

CDR 892C3 Dual-beam multiplex infrared barrier.
CDR 893 Single-beam infrared barrier mounted on a rail guide DIN46277.

Suitable for the protection of passageways or spaces which are equipped with automatic installations such as lifts and automatic doors or where you wish to detect or count the passage of people or things while using the least possible space.

The infrared barriers with mini sensors are ideal for installations that need to be discreet but at the same time require the passageway to be safely and reliably protected.

The electronic circuit respects the most up to date standards and regulations and conforms to the standard 3 of the EN 13849-1 (update of the EN954-1).

The necessity of guaranteeing greater ambient noise immunity has led to the evolution of both the transmitter and receiver cards. The system is based on the criteria “resistance to single failure” that guarantees the maintenance of safety in case of electrical problems.

The management of both the transmitter part as well as the receiver part is carried out by means of a micro-controller, giving the advantage of greater precision when generating the impulses transmitted via infrared that are modulated using a digital protocol thus eliminating the risk of blackout spots.

Technical description

Infrared transmission by means of digital modulation of the carrier signal.

Possibility to adjust the power of the projector by setting a jumper to one of the three available levels depending on the range that needs to be covered.

Double relays on the receiver with digital control increase the security and safety level of the output part (the part that furnishes the at rest/alarm signal).

Jumper for selecting the output contact mode (potential free, N.C. or resistance 8,2kΩ contacts).

Jumper for selecting the number of active beams (only in the dual beam model).



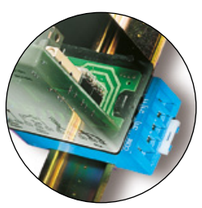



SENSOR PROTECTION GRADE IP55


ANTI-TEMPER SENSORS


POWER SUPPLY 12/24Vac-dc


MULTIPLEX SYSTEM


RAIL GUIDE SOCKET DIN 46277

PRODUCT DESCRIPTION		ORDER NUMBER
DUAL-BEAM MULTIPLEX INFRARED BARRIER Overall dimensions 90 x 50 x 20.		
DOUBLE-RELAY PHOTOELECTRIC CELLS Power supply 12/24Vac-dc. Range: 15m indoors - 10m outdoors. Transmitter cable 5 metres - Receiver cable 3 metres.	CLASS 3	**CDR892C3**
DOUBLE-RELAY PHOTOELECTRIC CELLS Power supply 12/24Vac-dc. Range: 15m indoors - 10m outdoors. Transmitter cable 10 metres - Receiver cable 7 metres.	CLASS 3	**CDR892C3-1**
DOUBLE-RELAY PHOTOELECTRIC CELLS Power supply 12/24Vac-dc. Range: 15m indoors - 10m outdoors. Transmitter cable 15 metres - Receiver cable 10 metres.	CLASS 3	**CDR892C3-2**



CLASS 3

The circuit board has been produced according to the requirements stipulated by the standards for electronic appliances that fall under category 3 of the EN ISO 13849-1 (update of the EN954-1). At a practical level it covers the need to guarantee greater immunity to interference in the working environment that is increasingly being polluted by disturbance. This has led to the technical evolution of both the transmitter part as well as the receiver part based on the criteria “resistance to single failure” that guarantees the maintenance of the safety level even when faced with electrical problems regarding one or more components within the device (transmitter or receiver).

RETRO-REFLECTIVE PHOTOCELL
WITH ADJUSTABLE LENSES

POWER SUPPLY 12/24Vac-dc
RANGE 10m

CDR REFLEX is system made up of a one photoelectic unit with an inbuilt transmitter and receiver and a passive retro-reflector disc.

The photoelectric cell with reflector disc allows the installer to save installation time and to avoid unnecessary brickwork with respect to traditional systems with separate transmitters and receivers.

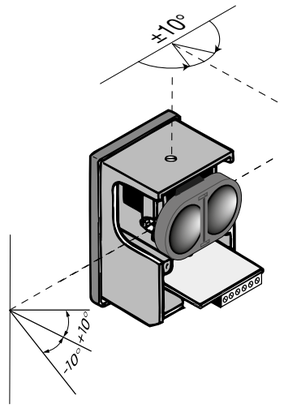
A polorisation filter makes the receiver lens immune to unwanted light disturbance.

It constitutes an efficient safety system for the protection of passageways or spaces which are equipped with automatic doors or gates.

A shockproof designer case, pleasing on the eye, encloses innovative technical solutions which make the system extremely reliable under all working conditions.



ADJUSTABLE LENSES



Technical description

Shockproof case IP55

Self locking adjustable lens which can be rotated horizontally and vertically through plus or minus 10° with respect to the standard installation position.
These adjustments permit lateral fitting and installations where the photoelectric cell and retro-reflector disc are at different heights.
Selection of the relay output contact mode N.C.-N.O. or 8,2kΩ via jumpers.

Led signal strength indicator facilitates lens centering.

Test function:
- when wired to a suitable electronic programmer, this function allows the continuous control of the presence of the infrared signal thus increasing the safety and security level of the installation.

Range 10m.

Overall dimensions 50 x 90 x 60.

SURFACE MOUNTED PHOTOCELL WITH RETRO-REFLECTOR — **CDR REFLEX**



ADJUSTABLE LENS



PASSIVE RETRO- REFLECTOR DISC



POLORISATION FILTER



SURFACE-MOUNT
SHOCKPROOF CONTAINER IP55



RELAY OUTPUT SELECTION
N.C.-N.A. OR 8,2KΩ
USING JUMPERS.

RAPID GUIDE / TABLE OF COMPARISON PHOTOELECTRIC CELLS

Product code	CLASS 3	Range	Grade	Position	Ajustable lenses		SYNCRO	Relay characteristics / functions		
		m max.	IP		° horizontal	° vertical	Nr. pairs	Nr.	output	special functions
CDR973AX	√	15	66	surafce mounted	± 90	± 30°	3	2	N.C./8,2KΩ	aluminium box
CDR973IX	√	15	55	flush fitting	± 45	± 30°	3	2	N.C./8,2KΩ	
CDR973EX	√	15	55	surafce mounted	± 90	± 30°	3	2	N.C./8,2KΩ	
CDR842A	-	15	66	surafce mounted	± 90	± 30°	-	2	N.O. + N.C.	aluminium box
CDR852A	-	60	66	surafce mounted	± 90	± 30°	-	2	N.O. + N.C.	aluminium box
CDR841I00	-	15	55	flush fitting	± 45	± 30°	-	2	N.O. + N.C.	
CDR841E00	-	15	55	surafce mounted	± 90	± 30°	-	2	N.O. + N.C.	
CDR851	-	60	55	surafce mounted	± 90	± 30°	-	2	N.O. + N.C.	
CDR999	√	10	55	surafce mounted	± 90	± 30°	3	2	N.C./8,2KΩ	
VEDO180	-	25	44	surafce mounted	± 90	fixed position	2	2	N.C.	
VEDO180PRO	-	25	44	surafce mounted	± 90	fixed position	8	2	N.C. /N.O.	
FT201SINCRO	-	25	44	surafce mounted	± 5	± 5	2	2	N.C. /N.O.	
ILBSINCRO	-	25	44	flush fitting	± 5	± 5	2	2	N.C. /N.O.	
CDRX12	√	10	55	surafce mounted	± 90	± 30°	-	2	N.O./8,2KΩ	battery + solar powered transmitter
CDR861	-	10	54	surafce mounted	fixed position	fixed position	-	2	N.C. + N.O.	
CDR892C3	√	10	55	flush fitting sensors	2 pairs fixed postion		-	2	N.C./8,2KΩ	trans. cable: 5m receiv. cable: 3m
CDR892C3-1	√	10	55	flush fitting sensors	2 pairs fixed postion		-	2	N.C./8,2KΩ	trans. cable: 10m receiv. cable: 7m
CDR892C3-2	√	10	55	flush fitting sensors	2 pairs fixed postion		-	2	N.C./8,2KΩ	trans. cable: 15m receiv. cable: 10m
CDR REFLEX	-	10	55	surafce mounted	± 10°	± 10°	-	2	N.C./ N.O./8,2KΩ	passive retro reflector disc
CDR-RED2.0	-	10	67	surafce mounted	fixed position	fixed position	-	2	N.C.	Blanking Function
CDR-RED2.6	-	10	67	surafce mounted	fixed position	fixed position	-	2	N.C.	Blanking Function

ELECTRONIC WARNING LIGHTS WITH LED TECHNOLOGY



ELECTRONIC WARNING LIGHTS
WITH LED TECHNOLOGY

POWER SUPPLY 24Vac-dc / 230Vac

LED ILLUMINATION

FIXED POSITION AND ADJUSTABLE VERSIONS

The ample range of electronic warning lights are valid visual warning systems for the movement of automatic devices, built according to the safety standards in force and using LED technology. Highly efficient and adaptable to all situations they satisfy the needs of a modern installation. The warning lights are available in 24V and 230V versions as follows:

- MOLLIGHT4 - 24Vac-dc eight leds;
- MOLLIGHT4X - 230Vac eight leds;
- ICON - 24Vac-dc -230Vac on-board selectable power supply, multi-led;
- ICONX - 24Vac-dc on-board selectable power supply, multi-led RGB;
- WALL - 24Vdc strip of led lighting;
- WALL + AL2VA - 230Vac output 24Vdc strip of led lighting.

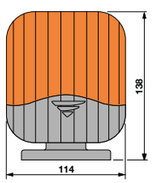
The shape and thicknesses used for the protective parts and the attention to detail paid to the sealing gaskets for all the critical joints make the entire structure weather-proof and immune to vandalism.

All in all this is a unique and unmistakeable appliance, an effective warning system both before and during the activation of the automatic opening device whilst at the same time underlining the quality and service given by a Cardin System.

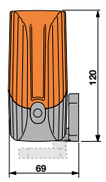




LED WARNING LIGHT
Multi-led warning light with an in-built 433MHz aerial. The lighting system is housed in a shockproof, opaque, polycarbonate container that accentuates the lighting effect.
On-board selectable power supply: 24Vac-dc - 230Vac.
Work cycle 70%.
Fixed light - flashing light selection jumper.
Protection grade IP54.
Supplied with relative column/wall fitting support.



COLUMN MOUNTING



WALL MOUNTING



WALL MOUNTING
MOLLIGHT



COLUMN MOUNTING
MOLLIGHT



MOLLIGHT WITH AERIAL



WALL MOUNTING
ICON



VISUALISATION OF THE RGB LEDS
(ICONX)

PRODUCT DESCRIPTION — ORDER NUMBER

LED WARNING LIGHT 24-230V WITH IN-BUILT AERIAL
Orange lamp cover — **ICON**



LED WARNING LIGHT 24-230V WITH IN-BUILT AERIAL
White lamp cover — **ICON-WH**

LED WARNING LIGHT 24V WITH IN-BUILT AERIAL
Special version with acoustic gate movement signalling and a transparent lamp cover that allows the visualisation of the RGB LEDs (orange, red, greeen, violet, white). — **ICONX**

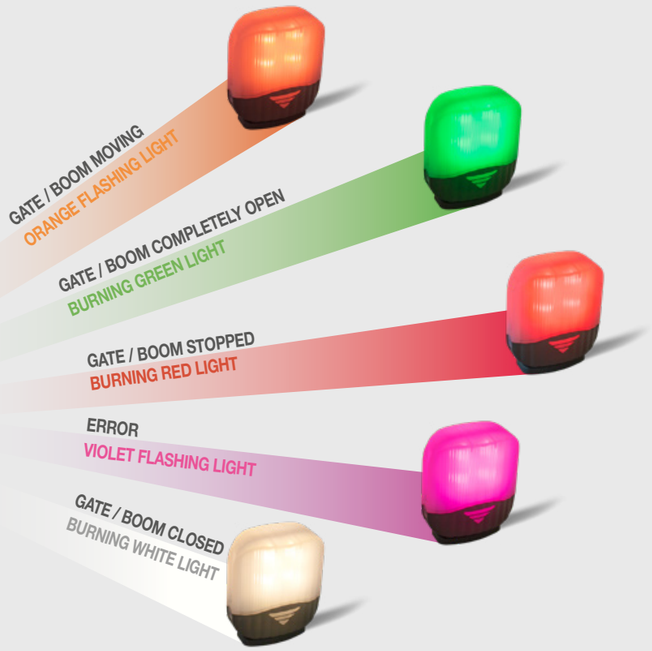


ICONX WARNING LAMP

Connecting the **ICONX** warning light to a next generation Cardin ECU will allow you to obtain the following indications:



CARDIN PRG-CC ECU

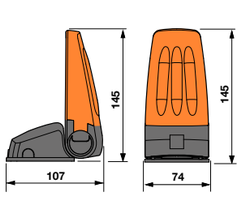


COMPATIBLE WITH:	Electronic programmers	Series	Products
	CC242ETOP	BL3924	SLX24DRACO/DRACO2
	CC242ETOPCB	GLMECHA	BLGRIFFE24M
	CC242EXTOPCB	ELDOM	SLX624/824/1524/3024

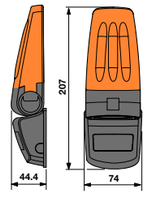
PRODUCT DESCRIPTION

ORDER NUMBER

LED WARNING LIGHT
Warning light made up of eight highly efficient leds and a special optical guide designed by Cardin.
The lighting system is housed in a shockproof, opaque, polycarbonate container that accentuates the lighting effect.
A solid base with its contact part in rubber allows the warning light to be installed on any structure and in any position and at the same time (thanks to the simple rotation between the body and the base) it may be fitted to a column or directly on a wall.
The shockproof plastic base is factory set to take a special aerial with a pre-wired BNC connection and at the same time it perfectly protects the power supply connection of the appliance.
Protection grade IP54.



COLUMN MOUNTING



WALL MOUNTING

24V EIGHT-LED WARNING LIGHT

230V EIGHT-LED WARNING LIGHT

MOLLIGHT4

MOLLIGHT4X



DEDICATED AERIAL 433MHz

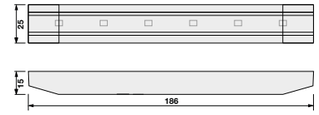
ANS400-MOL



PRODUCT DESCRIPTION

ORDER NUMBER

LED WARNING LIGHT FOR GARAGE DOORS
Ideal for use on counterbalanced and sectional garage doors.
Long lifetime, anti-shock and vibration resistant with low power consumption.
Supplied with a 3500mm cable and grub type fastening screws.
Available with a 24V power supply.
Power supply 230V with the accessory AL2VA.
Protection grade IP54.



APPLICATION

ELECTRONIC YELLOW LED WARNING LIGHT STRIP 24V

ELECTRONIC WHITE LED WARNING LIGHT STRIP 24V

WALL

LITE



FLASHING LIGHT CIRCUIT BOARD FOR WALL
Circuit with a 24Vac-dc power supply and output 24Vdc (max. 300mA). Two types of flash sequence are available.

BLINKER



230 POWER SUPPLY STRIP WARNING LIGHTS
Power supply for connecting WALL and Lite LED strip warning lights to electronic programmers with 230V outputs. Input 230V, output 24Vdc (max. 80mA).

AL2VA



24V LED SPOTLIGHT
Adjustable spotlight.
Power supply 9-30 Vac/cc.
Power input 10 W.
Colour temperature CCT 4000K.
50 cm long power supply cable.
Protection grade IP65.

SPOTLED24



CARDIN IDENTIFICATION ARTICLES



DESIGN & GRAPHICS
MADE IN CARDIN

For their after sales service and sales network Cardin develop and make available a series of promotional instruments for furnishing sales outlets, trade fairs and personalising transport vehicles.

All the available articles are identified by the Cardin trademark and follow the guidelines that have been studied in order to maintain the coordinated company image of Cardin Elettronica.

"CARDIN - SERVICE" ADHESIVE STICKERS

CARDIN ADHESIVE STICKERS 500 X 230mm PR001

CARDIN ADHESIVE STICKERS 150 X 70mm PR002

CARDIN ADHESIVE STICKERS 500 X 110mm PR003

CARDIN ADHESIVE STICKERS 150 X 35mm PR004

CARDIN SERVICE ADHESIVE STICKERS 500 X 500mm PR005

CARDIN SERVICE ADHESIVE STICKERS 150 X 150mm PR008

DISPLAY UNITS
Free-standing display units (honeycomb sandwich board) designed for the display of the entire range of Cardin products.
Overall dimensions:
Base 700 x 380 x 380
Column 620 x 1800 x 100

HONEYCOMB DISPLAY UNITS PR009



ROLL UP
Free standing modular aluminium structure roll up with various single-sided graphic images.
Overall dimensions:
Open format 850 x 1955
Structure in carrying case 900 x 100 x 100

ROLL UP PR011



DISPLAY UNITS
Modular cardboard table-top display units with crowner graphic images back and front.
Base 300 x 200 x 40
Column 300 x 400

MODULAR TABLE-TOP DISPLAY WITH CROWNER PR012



FLAG BANNERS
Printed feather flag banners.
Printable area 75 x 170
Height 255

STRUCTURE WITH FLAG BANNER PR013



PRODUCT DESCRIPTION	ORDER NUMBER

PANELS
Smooth canvas material with tucked edges personalised graphics in a vertical format.

PANEL 500 X 700mm	**ESPK001**
PANEL 700 X 1000mm	**ESPK002**
PANEL 1000 X 1400mm	**ESPK003**
PANEL 1000 X 2400mm	**ESPK004**



PANELS
Smooth canvas material with tucked edges personalised graphics in a horizontal format.

PANEL 1400 X 400mm	**ESPK005**





PANELS WITH CUSTOM MATERIALS, DIMENSIONS AND GRAPHICS ON REQUEST







TABLES OF COMPARISON

TABLES OF COMPARISON

Automation for sliding gates series SL - SLi

Table 1 - A summary of the models with constraints based on gate weight.

Automation Order nr.	Power supply Motor power	Drag speed	maximum gate weight in kilograms (kg)
SLX3024CB	24V - 160W	8 m/min	3000 kg
SLX1524CB	24V - 130W	9,5 m/min	1500 kg
SLX1224REV	24V - 200W	17 m/min	1200 kg
SLX824CB	24V - 110W	13 m/min	800 kg
SL524-SL524CB	24V - 38W	9,2 m/min	500 kg
SLX624-SLX624CB	24V - 60W	15 m/min	600 kg
SLACEFAST	24V - 100W	10 m/min	300 kg 16 m/min with gate weight 100kg
SLACE601	24V - 250W	10 m/min	600 kg 16 m/min with gate weight 100kg
SLEVO 600	230V - 800W	10 m/min	600 kg
SLEVO 800	230V - 800W	10 m/min	800 kg
SLEVO 1200	230V - 1100W	10 m/min	1200 kg
SLi324	24V - 150W	10,5 m/min	300 kg
SLi724	24V - 160W	11 m/min	700 kg
SLi1024	24V - 200W	11 m/min	1000 kg
DRACO (SLX-SLi)	24V - 380W	22 m/min	2000 kg 30 m/min with gate weight 300kg

Automation for swing gates series BL - HL

Table 2 - A summary of the series and models with constraints based on gate length.

Automation Order nr.	Maximum opening angle (°)	Opening time 90° Curved arm	Opening time 90° Straight arm	maximum gate length (m)	maximum gate length with an electric lock (m)
BL3924CSB	130°	20s	16s	3,5 m	5 m
BLGRIFFE24M	120°	16s	-	2 m	2,5 m
BLGRIFFE24TM	120°	16s	-	2 m	2,5 m
BLEGOS	100°	15s		2,5 m	
BLESOL	100°	20s		3,5 m	4 m
BLADE324	110°	20s		3 m	
BLADE524 -BLADE524REV	110°	25s			5 m
BLADE3 - BLADE3REV	110°	20s	18s	3 m	
BLADE5 - BLADE5REV	110°	28,5s	26s		5 m
BLTAGDX - BLTAGSX	100°	20s		2 m	
BLUES5 - BLUES5R	105°	30s		4,5 m	
BLi1000	180°	16s		2,5 m	
HLXCORE24	360°	22s		3 m	
HLXCORE230	360°	19,5s		3 m	

TABLES OF COMPARISON

Automation for swing gates series BL - HL

Table 3 - A summary of the series and models with constraints based on gate weight.

Automation Order nr.	Power supply Motor power	maximum gate weight in kilograms (kg)
BL3924CSB	24V - 50W	400 kg
BLGRIFFE24M	24V - 50W	200 kg
BLGRIFFE24TM	24V - 60W	200 kg
BLEGOS	24V - 60W	300 kg
BLESOL	24V - 60W	400 kg
BLADE324	24V - 60W	250 kg
BLADE524 - BLADE524REV	24V - 60W	300 kg
BLADE3 - BLADE3REV	230V - 370W	250 kg
BLADE5 - BLADE5REV	230V - 330W	300 kg
BLTAGDX - BLTAGSX	24V - 70W	150 kg
BLUES5 - BLUES5R	230V - 280W	500 kg
BLi1000	24V - 50W	200 kg
HLXCORE24	24V - 60W	350 kg
HLXCORE230	230V - 470W	550 kg

Automation for counterbalanced doors series GL

Table 4 - A summary of the models with constraints based on the surface area of the door.

Automation Order nr.	Power supply Motor power	Garage door max. height	max. door surface area Master motor	max. door surface area Master + Slave motor
GLMECHA24	24V - 120W	2,7 m	11 m^2	
GLMECHA230	230V - 350W	2,7 m	11 m^2	

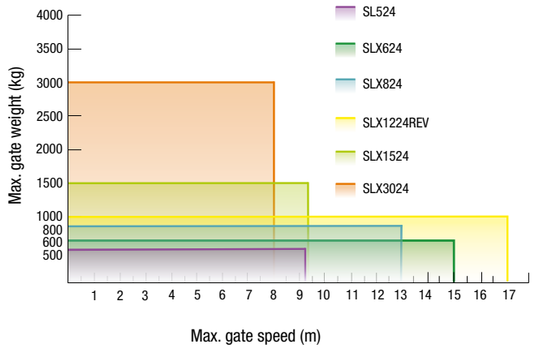
Automation for sectional doors series GL

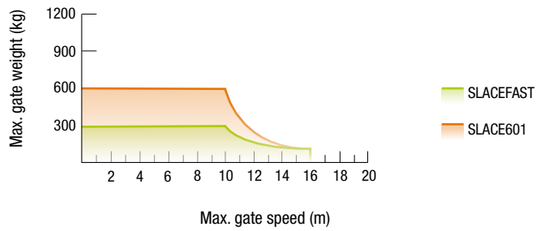
Table 5 - A summary of the models with constraints based on the maximum height of the door.

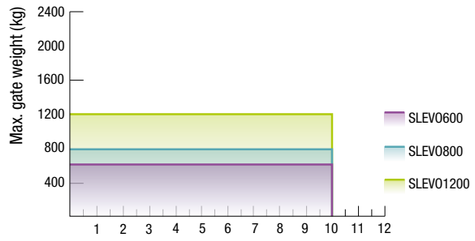
Automation Order nr.	Drag speed	Max. surface area	maximum sectional door height (m) Chain guide order nr.	+ GL124S30	+ GL124S35	+ GL124S40	+ GL124S60
GL124EBSS	7 m/min			2,7 m	3,2 m	4,2 m	5,7 m
			ZENGB1E - ZENGB2E - ZENGB3E			ZENGB14E	
GLZEN60E	9 m/min	9 m^2		2,4 m		3,1 m	
GLZEN100E	9 m/min	9 m^2		2,4 m		3,1 m	

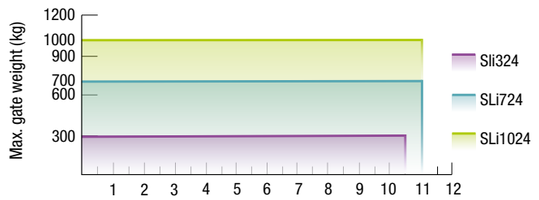
TABLES OF COMPARISON

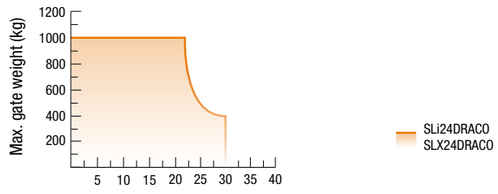
Automation for sliding gates series SL - SLi

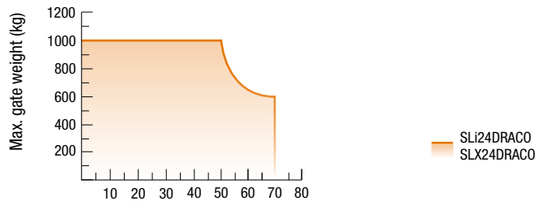


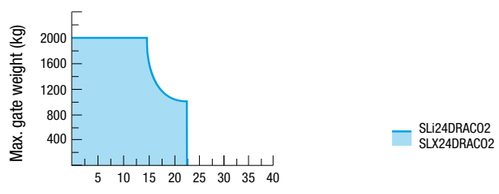


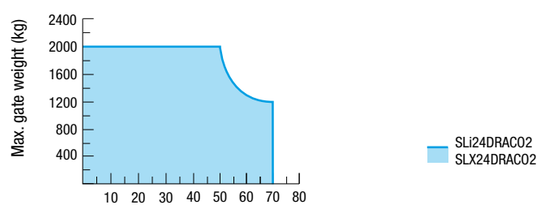






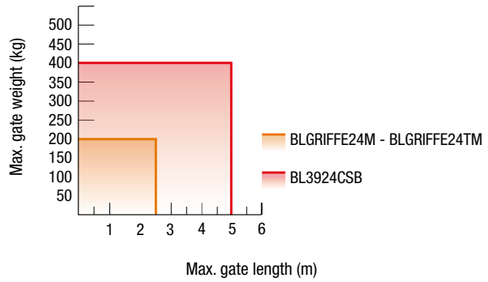


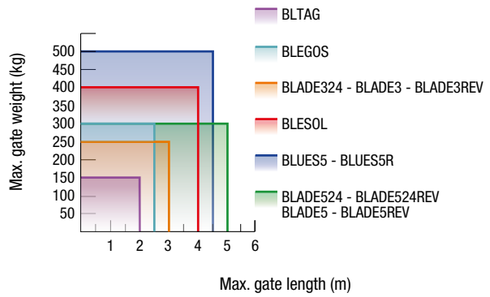


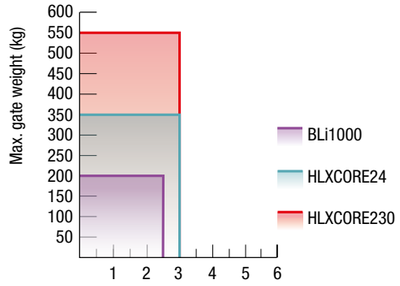


TABLES OF COMPARISON

Automation for swing gates series BL - HL







Automation with integrated electronics SL/BL

MOTOR CONTROL	SL524	SLX624	SLX24DRACO/2	SLX3024-1524-1224R-824	SLEVO600-800-1200	SLACEFAST	SLACE601	BL3924	BLGRIFFE24M	BLGRIFFE24TM
For 1 motor	■	■	■	■	■	■	■	■	■	■
For 2 motors								■	■	■
Motor power supply 24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	230Vac	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Torque limitation (electronic selection)	■	■			■	■	■	■	■	■
Current sensor setting	■	■	■	■				■	■	■
Deceleration setting	■	■	■	■	■	■	■	■	■	■
Battery powered operation incorporated	SL524CB	SLX624CB		■				■		
Optional battery powered operation	KBNIMH-1	KBNIMH-1	KBNIMH-D			■	■		■	■
ECU Data Exchange	■	■	■	■			■	■	■	■
Master/Slave function			MODCA	MODCA			■			
Encoder controlled gate positioning	■	■	■	■	encoder / timer	■	■	■	■	■
Speed regulation			while opening			■	■			
Obstacle detection	■	■	■	■	encoder	■	■	■	■	■

INPUTS	SL524	SLX624	SLX24DRACO/2	SLX3024-1524-1224R-824	SLEVO600-800-1200	SLACEFAST	SLACE601	BL3924	BLGRIFFE24M	BLGRIFFE24TM
Inverting photocells	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ				N.C./8.2 kΩ	N.C./8.2 kΩ	N.C.
Stop photocells	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	J	J	J+MODBT2	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C.
Inverting photocells during opening										J
Stop button	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C.	■	■	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C.
Safety edge	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	J			N.C./8.2 kΩ	N.C./8.2 kΩ	
Safety edge active during opening						J/NC	8K2			8K2
Safety edge active during closing							8K2			8K2
Opening button	■	■	■	■	■	■	■	■	■	■
Limited opening button	■	■	■	■	J	J	■	■	■	■
Closing button	■	■	■	■	■	J	J	■	■	■
Sequential command	■	■	■	■	■	■	■	■	■	■
Clock input					J		J			J
Pedestrian function gate clock input							J+MODBT2			MODBT2
Jolly input 1 (J1/JOL)					■	■	■			■
Travel limit inputs					■					
Encoder					■	■	■			
Electronic travel limits (encoder)	■	■	■	■				■	■	■

RADIOCONTROL FUNCTIONS	SL524	SLX624	SLX24DRACO/2	SLX3024-1524-1224R-824	SLEVO600-800-1200	SLACEFAST	SLACE601	BL3924	BLGRIFFE24M	BLGRIFFE24TM
Multi-decoding S504-S508-S449-S486	■	■	■	■				■	■	
Buzzer	■	■	■	■				■	■	
OC2 card compatible					■	■	■			■
Radio control function: programmable	■	■	■	■				■	■	
Stop function via radio										
Incorporated S449 receiver (300 codes)	■	■	■	■				■	■	
Only S500 decoding										
Sequential command	■	■	■	■	■	■	■	■	■	■
Open command	■	■	■	■				■	■	
Closing command	■	■	■	■				■	■	
Limited opening sequential command	■	■	■	■	■	■	■	■	■	■

Function not available ■ Function available J = Function only available on the Jolly input binding post

TABLES OF COMPARISON CARDIN AUTOMATION

Automation with integrated electronics SL/BL

OUTPUTS	SL524	SLX624	SLX24DRACO/2	SLX3024-1524-1224R-824	SLEVO600-800-1200	SLACEFAST	SLACE601	BL3924	BLGRIFFE24M	BLGRIFFE24TM
Electric locking device							US1+MODBT2	12Vdc	12Vdc	12Vdc
Warning lights	NF/F/IconX	NF/F/IconX	NF/F/IconX	NF/F/IconX	Not Flashing (230Vac)	NF/F	Flashing	NF/F/IconX	NF/FIconX	Flashing
Low power supply warning lights	24Vdc	24Vdc	24Vdc	24Vdc				24Vdc	24Vdc	24Vdc
Indicator light	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.	Flashing	Flashing	NF/F(US1)/MODBT2			
Power supply controlled external devices	24Vdc	24Vdc	24Vdc	24Vdc			24Vdc	24Vdc		24Vdc
Power supply external devices	24Vdc	24Vdc	24Vdc	24Vdc	24Vac	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Courtesy light	selectable	selectable	selectable	selectable			US1	selectable	selectable	US1
Travel limit / photocell status information										
Boom light control										
Jolly output (US1)							■			■
Dry contact output							US1			US1
Second radio channel	selectable	selectable	selectable	selectable			US1	selectable	selectable	US1

SPECIAL FUNCTIONS	SL524	SLX624	SLX24DRACO/2	SLX3024-1524-1224R-824	SLEVO600-800-1200	SLACEFAST	SLACE601	BL3924	BLGRIFFE24M	BLGRIFFE24TM
Display	LCD 16 chara.	LCD 16 chara.	LCD 128x128px	LCD 128x128px				LCD 128x128px		
Manoeuvre count display	■	■	■	■			MODBT2			MODBT2
Function setting using menus	■	■	■	■				■	■	
Automatic safety device test	■	■	■	■	■			■	■	
Warning light pre-flashing	3 sec	3 sec	3 sec	3 sec	5 sec	5 sec	5 sec/Prog.	3 sec	3 sec	5 sec/Prog.
Real time clock			■	■				■	■	
Clock mode (Open button)	■	■	■	■	■	■	■	■	■	■
Clock mode (Close button)										
Variable high speed			max. 30m			■	■			■
Function setting using dip-switches					■	■	■			■
Maintenance alarm (US1)							MODBT2			■
Command buttons on the ECU					■	■	■			■
Dip-switch for excluding safety devices						■	■			■
Anticipated automatic closing on FT1 cut in				SLX3024/SLX1524 only	■	■	■			■
Temperature detection			■							

Function not available ■ Function available J = Function only available on the Jolly input binding post

Automation with integrated electronics GL/EL/PL

MOTOR CONTROL	ZEN60E	ZEN100E	GL124EBSS3	GLMECHA24	GLMECHA230	ELDOMS	ELDOML	SNAP-RAPID	SNAPS-SNAPL	RAP4E	PARKLINE-PARKSUN-SR-BTS
For 1 motor	■	■	■			■	■	■	■	■	■
For 2 motors				in parallel	in parallel						
Motor power supply 24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	230Vac	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	12Vdc
Torque limitation (electronic selection)	■	■			■			■	■	■	
Current sensor setting			■	■		■	■				
Deceleration setting			■	■		■	■	■	■	■	
Battery powered operation incorporated			■			■	■				■
Optional battery powered operation	■	■		■				■	■	■	
ECU Data Exchange				■	■	■	■	■	■		
Master/Slave function						MODCA	MODCA	■	■		
Encoder controlled gate positioning	■	■	■	■	■	■	■	■	■	■	■
Speed regulation								■	■		
Obstacle detection	■	■	■	■	■	■	■	■	■	■	■

INPUTS	ZEN60E	ZEN100E	GL124EBSS3	GLMECHA24	GLMECHA230	ELDOMS	ELDOML	SNAP-RAPID	SNAPS-SNAPL	RAP4E	PARKLINE-PARKSUN-SR-BTS
Inverting photocells	■	■		N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ			■	
Stop photocells			selectable	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ			J	
Inverting photocells during opening											
Stop button	■	■	■	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	■	■	■	
Safety edge			N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ				
Safety edge active during opening										J/NC	
Safety edge active during closing	8K2/NC	8K2/NC						8K2/NC	8K2/NC		
Opening button			■			1-2	1-2	■	■	■	■
Limited opening button			■								
Closing button			■			1-2	1-2	■	■	J	■
Sequential command	■	■	■	■	■			■	■	■	selectable/Not on SR-BTS
Clock input											selectable/Not on SR-BTS
Pedestrian function gate clock input											
Jolly input 1 (J1/JOL)										■	
Travel limit inputs				selectable	selectable			■	■		
Encoder	■	■	■	■	■	■	■	■	■	■	■
Electronic travel limits (encoder)			■	■	■	■	■	■	■	■	■

RADIOCONTROL FUNCTIONS	ZEN60E	ZEN100E	GL124EBSS	GLMECHA24	GLMECHA230	ELDOMS	ELDOML	SNAP-RAPID	SNAPS-SNAPL	RAP4E	PARKLINE-PARKSUN-SR-BTS
Multi-decoding S504-S508-S449-S486				■	■	■	■				
Buzzer			■	■	■	■	■				
OC2 card compatible	■	■						■	■	■	
Radio control function: programmable				■	■	■	■				
Stop function via radio			■	■	■	■	■				
Incorporated S449 receiver (300 codes)			■								
Only S500 decoding											■
Sequential command	■	■	■	■	■	■	■	■	■	■	■
Open command				■	■	■	■	■	■		
Closing command				■	■	■	■	■	■		
Limited opening sequential command											

■ Function not available ■ Function available J = Function only available on the Jolly input binding post

TABLES OF COMPARISON CARDIN AUTOMATION

Automation with integrated electronics GL/EL/PL

OUTPUTS	ZEN60E	ZEN100E	GL124EBSS	GLMECHA24	GLMECHA230	ELDOMS	ELDOML	SNAP-RAPID	SNAPS-SNAPL	RAP4E	PARKLINE-PARKSUN-SR-BTS
Electric locking device											
Warning lights	Flashing (US1-230Vac)		NF/F	NF/F/IconX	NF/F/IconX	NF/F/IconX (LED)		Flashing (Integrated/US1)		Flashing	
Low power supply warning lights	24Vdc-100mA		24Vdc	24Vdc	24Vdc	24Vdc	24Vdc			24Vdc	
Indicator light	Flashing (US1-230Vac)		NF/F/Prog.					Not Flashing	NF/F		
Power supply controlled external devices			24Vdc	24Vdc	24Vdc	24Vdc	24Vdc				
Power supply external devices	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	
Courtesy light	US1-230Vac		24Vdc	24Vdc	24Vdc	selectable	selectable	US1	US1		
Travel limit / photocell status information						■	■				■
Boom light control						■	■	■	■	■	
Jolly output (US1)	230Vac							■	■		
Dry contact output								US1	US1		
Second radio channel			■			selectable	selectable				

SPECIAL FUNCTIONS	ZEN60E	ZEN100E	GL124EBSS	GLMECHA24	GLMECHA230	ELDOMS	ELDOML	SNAP-RAPID	SNAPS-SNAPL	RAP4E	PARKLINE-PARKSUN-SR-BTS
Display			LED 6 digits	LCD 16 chara.	LCD 16 chara.	LCD 128x128px					
Manoeuvre count display			■	■	■	■	■	■	■		
Function setting using menus				■	■	■	■				
Automatic safety device test			■	■	■	■	■				
Warning light pre-flashing	5 sec	5 sec	3 sec	3 sec	3 sec	3 sec	3 sec				
Real time clock				■	■	■	■				
Clock mode (Open button)			■	■	■	■	■				
Clock mode (Close button)											■
Variable high speed								■	■		
Function setting using dip-switches	■	■	■					■	■		
Maintenance alarm (US1)											
Command buttons on the ECU	■	■		■	■			■	■	■	
Dip-switch for excluding safety devices								■	■		
Anticipated automatic closing on FT1 cut in						■	■	■	■		
Temperature detection											

■ Function not available ■ Function available J = Function only available on the Jolly input binding post

Automation with an external programmer PRG/PRG-T

MOTOR CONTROL	PRG807001	PRG230M2	T101	T400	T600	T624	T21B	T21X
For 1 motor	■		■	■			■	■
For 2 motors		■			■	■		
Power supply 230Vac	■	■	■	■	■		■	■
Power supply 400V3~				■				
Motor power supply 24Vdc						■		
Torque limitation (mechanical selection)	■							
Torque limitation (electronic selection)		■	■		■	■		■
Current sensor setting						■		
Battery powered operation incorporated					■	■		
Optional battery powered operation				■				
ECU Data Exchange								
Master Slave						■		
Encoder / timer gate positioning control	timer	timer	encoder / timer	encoder / timer	encoder / timer	encoder / timer	timer	timer
Speed regulation						MODBT2		
Obstacle detection			■		■	■		
Deceleration setting		■	■		■	■		

INPUTS	PRG807001	PRG230M2	T101	T400	T600	T624	T21B	T21X
Inverting photocells	■	N.C./8.2 kΩ					■	■
Stop photocells		N.C./8.2 kΩ	J	J	■	■		
Inverting photocells during opening					J2	J2		
Stop button	■	N.C./8.2 kΩ	■	■	■	■	■	■
Safety edge		N.C./8.2 kΩ	J					
Safety edge active during opening				8K2/NC	■	■		
Safety edge active during closing				8K2/NC	■	■	8K2	8K2
Opening button	■	■	■	■	■	■	■	■
Limited opening button		■	J	■	■	■	■	■
Closing button	■	■	■	■	■	■	■	■
Sequential command	■	■	■	■	■	■	■	■
Clock input			J	J	J1	J1		
Pedestrian function gate clock input				J	MODBT2	MODBT2		
Jolly input 1-2-3-4			1	1	2	2		
Travel limits	■	■	■	■	J	J		

OUTPUTS	PRG807001	PRG230M2	T101	T400	T600	T624	T21B	T21X
Electric locking device	12 Vac	12 Vac	MES	US1	■	■		
Warning lights (not flashing/flashing)	Not Flashing	NF/F	Not Flashing	NF/F	Flashing	Flashing	Not Flashing	NF/F
Low power supply warning lights	24 Vac	■	■	■	■	■	■	■
Power supply warning lights 230Vac	■	■	■	■	■	■	■	■
Indicator led	Not Flashing	NF/F/Prog.	Flashing	NF/F	NF/F	NF/F	■	■
Indicator light 2	■	■	■	■	■	■	■	■
Power supply external devices	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac	24 Vdc	24 Vac	24 Vac
Power supply controlled external devices	■	24 Vac	24 Vac	24 Vac	24 Vac	24 Vdc	■	■
Jolly output (US1)	■	■	■	■	■	■	■	■
Courtesy light	230Vac	230Vac	230Vac	US1	230Vac	MODBT2/US1/24Vdc	■	230Vac
Second radio channel selectable	2-ch receiver	2-ch receiver	■	US1	US1	US1	■	■

Function not available ■ Function available J = Function only available on the Jolly input binding post

Automation with an external programmer PRG/PRG-T

RADIOCONTROL FUNCTIONS	PRG807001	PRG230M2	T101	T400	T600	T624	T21B	T21X
Standard slot-in radio card	2Ch	2Ch						
Multi-decoding S504-S508-S449-S486								
OC2 card compatible			2Ch	2Ch	2Ch	2Ch	2Ch	2Ch
Buzzer								
Sequential command	■	■	■	■	■	■	■	■
Limited opening sequential command			■	■	■	■	■	■
Open command				■				
Closing command				■				

SPECIAL FUNCTIONS	PRG807001	PRG230M2	T101	T400	T600	T624	T21B	T21X
Display		6-digits						
Manoeuvre count display		■			MODBT2	MODBT2		
Maintenance alarm (US1)					MODBT2	MODBT2		
Command buttons on the ECU			■	■	■	■	■	■
Dip-switch for excluding safety devices					■	■		
Function setting using dip-switches	■	■	■	■	■	■	■	■
Function setting using menus		Limited						
Warning light pre-flashing		3 sec	5 sec	5 sec	5 sec/Prog.	5 sec/Prog.		
Variable high speed								
Anticipated automatic closing on FT1 cut in			■	■	■	■		
Automatic safety device test			■					
Gate jolt (frees the electric lock)		■			■	■		
Temperature detection								
Hinged gate opening delay		■			Progammable	Progammable		
Hinged gate closing delay		Progammable			Progammable	Progammable		
Clock mode (on the "opening button" input)		■						

Function not available ■ Function available J = Function only available on the Jolly input binding post

Automation with an external programmer PRG-CC/INSIDE

MOTOR CONTROL	CC242ETOPCB	CC242EXTOPCB	CC24DRACO	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
For 1 motor	■	■	■	■	■	■
For 2 motors	■	■				■
Power supply 230Vac						
Power supply 400V3~						
Motor power supply 24Vdc	■	■	■	■	■	■
Torque limitation (mechanical selection)						
Torque limitation (electronic selection)	■	■				■
Current sensor setting	■	■	■	■	■	■
Battery powered operation incorporated	■	■	■	■	■	■
Optional battery powered operation			■			
ECU Data Exchange	■	■		■	■	■
Master Slave	CC242ETOP		CC24DRACO	CC924EFAM	CC824EINT	CC242EFAM
Encoder / timer gate positioning control	encoder	encoder	encoder	encoder	encoder	encoder
Speed regulation			■			
Obstacle detection	■	■	■	■	■	■
Deceleration setting	■	■	■	■	■	■

INPUTS	CC242ETOPCB	CC242EXTOPCB	CC24DRACO	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Inverting photocells	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ
Stop photocells	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ
Inverting photocells during opening						
Stop button	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ
Safety edge	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ
Safety edge active during opening						
Safety edge active during closing						
Opening button	■	■	■	■	■	■
Limited opening button	■	■	■	■	■	■
Closing button	■	■	■	■	■	■
Sequential command	■	■	■	■	■	■
Clock input						
Pedestrian function gate clock input						
Jolly input 1-2-3-4						
Travel limits						

OUTPUTS	CC242ETOPCB	CC242EXTOPCB	CC24DRACO	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Electric locking device	12Vdc	12Vdc				12Vdc
Warning lights (not flashing/flashing)	NF/F/IconX	NF/F/IconX	NF/F/IconX	NF/F/IconX	NF/F/IconX	NF/F/IconX
Low power supply warning lights	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Power supply warning lights 230Vac						
Indicator led	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.	NF/F/Prog.
Indicator light 2						
Power supply external devices	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Power supply controlled external devices	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Jolly output (US1)						
Courtesy light	selectable	selectable	selectable	selectable	selectable	selectable
Second radio channel selectable	selectable	selectable	selectable	selectable	selectable	selectable

Function not available ■ Function available J = Function only available on the Jolly input binding post

TABLES OF COMPARISON CARDIN PRG - INSIDE

Automation with an external programmer PRG-CC/INSIDE

RADIOCONTROL FUNCTIONS	CC242ETOPCB	CC242EXTOPCB	CC24DRACO	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Standard slot-in radio card						
Multi-decoding S504-S508-S449-S486	4Ch	4Ch	4Ch	4Ch	4Ch	4Ch
OC2 card compatible						
Buzzer	■	■	■	■	■	■
Sequential command	■	■	■	■	■	■
Limited opening sequential command	■	■	■	■	■	■
Open command	■	■	■	■	■	■
Closing command	■	■	■	■	■	■

SPECIAL FUNCTIONS	CC242ETOPCB	CC242EXTOPCB	CC24DRACO	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Display	LCD	LCD	LCD	LCD	LCD	LCD
Manoeuvre count display	■	■	■	■	■	■
Maintenance alarm (US1)						
Command buttons on the ECU						
Dip-switch for excluding safety devices						
Function setting using dip-switches						
Function setting using menus	■	■	■	■	■	■
Warning light pre-flashing (set to 3 seconds)	3 sec	3 sec	3 sec	3 sec	3 sec	3 sec
Variable high speed			max. 30 m			
Anticipated automatic closing on FT1 cut in						
Automatic safety device test	■	■	■	■	■	■
Gate jolt (frees the electric lock)						
Temperature detection			■			
Hinged gate opening delay	■	■				■
Hinged gate closing delay	Progammable	Progammable				Progammable
Clock mode (on the "opening button" input)	■	■	■	■	■	■

Function not available ■ Function available J = Function only available on the Jolly input binding post

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