



MADE IN ITALY SINCE 1974



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



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.


Every company
is a unique
world...
welcome to ours.



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..



TELCOMA



CARDIN
is part of a
larger world




www.riello-elettronica.it

The Riello Elettronica group today is made up of twenty-three companies with nine 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.



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.





TRUST is not given away, it must be earned and to do so requires time, honesty, transparency, experience and a great deal of wisdom.



TRUST is the certainty that injustice will not be forthcoming, that expectation will not be dashed, that the outstretched hand will be firm and steady and that one can take that small step beyond as if it were a leap forwards.



TRUST is an unwritten pact, the fruit of a deep bond and the certainty that whomsoever deals in trust will be repaid in kind, SAFE in the knowledge that it is only in this way that one can carry out the most difficult endeavours.



THIS IS CERTAINLY CARDIN ELETTRONICA.



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 UNI EN12453 and UNI EN12445.




































Great force under control with feather light precision.



SUMMARY

AUTOMATION	P. 18 - 183
ELECTRONICS	P. 184 - 261
CARDIN IDENTIFICATION ELEMENTS	P. 262 - 265
TABLES OF COMPARISON	P. 266 - 279

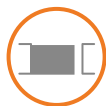
KEY TO THE SYMBOLS

	Motors powered by 24 Vdc		Opening time 90°		Multi-decoding
	Intensive use		Maximum opening angle		Multi-decoding open collector
	Oil bath system		Maximum gate length		Network interface
	Hydraulic system		Maximum boom length		Wireless memory
	Magnetic encoder control		Maximum door height		Transceiver
	Opening and closing deceleration system		Maximum door surface area		Graphic LCD display
	Self-locking motor		Opening time		Sun Power
	Reversible motor		Built-in programmer		Real-time clock
	Master - Slave setting		Self-learning		Built-in radio receiver card
	Pre-wired connection cable		Built-in buffer batteries		App Cardin
	Maximum gate weight		Built-in NiMH batteries		3 year warranty
			Class 3 product		Synchronism with multiplex transmission

Embrace the new
Cardin generation



AUTOMATION



**AUTOMATION FOR
SLIDING GATES**
Pages 18-43

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.



**IN-BUILT AUTOMATION FOR
SLIDING GATES**
Pages 44-51

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



**HINGED ARM AUTOMATION
FOR SWING GATES**
Pages 52-91

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.



**WORM SCREW AUTOMATION
FOR SWING GATES**
Pages 92-119

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.



**UNDERGROUND AUTOMATION
FOR SWING GATES**
Pages 120-133

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



**IN-BUILT AUTOMATION FOR
SWING GATES**
Pages 134-139

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



**AUTOMATION FOR COUNTERBALANCED
GARAGE DOORS**
Pages 140-151

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.



**CHAIN GUIDED AUTOMATION
FOR SECTIONAL DOORS**
Pages 152-159

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



**AUTOMATION FOR ROAD
BARRIERS**
Pages 160-175

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



**ELECTROMECHANICAL SELF-
POWERED PARKING PLACE
PROTECTION**
Pages 176-177

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



**COMPLEMENTARY
EQUIPMENT. AUXILIARY
SAFETY DEVICES**
Pages 178-183

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

PAGE 20

CARDIN PRO SL

MASTER AUTOMATION 24V



PAGE 22

CARDIN TRADE SL

MASTER AUTOMATION 24V-230V



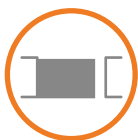
PAGE 30

CARDIN INSIDE SLi

SLAVE AUTOMATION 24V



PAGE 44



SL

MASTER
AUTOMATION

CARDIN PRO



+ -
NiMH (optional)

+ -
NiMH

128
PIX

128
PIX

128
PIX

500
kg

500
kg

800
kg

1500
kg

3000
kg



SL524



SL524CB



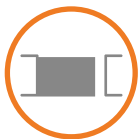
SLX824CB



SLX1524CB



SLX3024CB



SL ACE

MASTER
AUTOMATION

CARDIN TRADE

(optional)



300
kg

M/S

600
kg



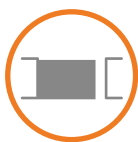
SL ACE FAST



SL ACE 601

RAPID GUIDE

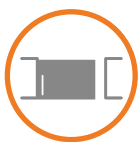
SLIDING GATES



SL EVO

MASTER
AUTOMATION

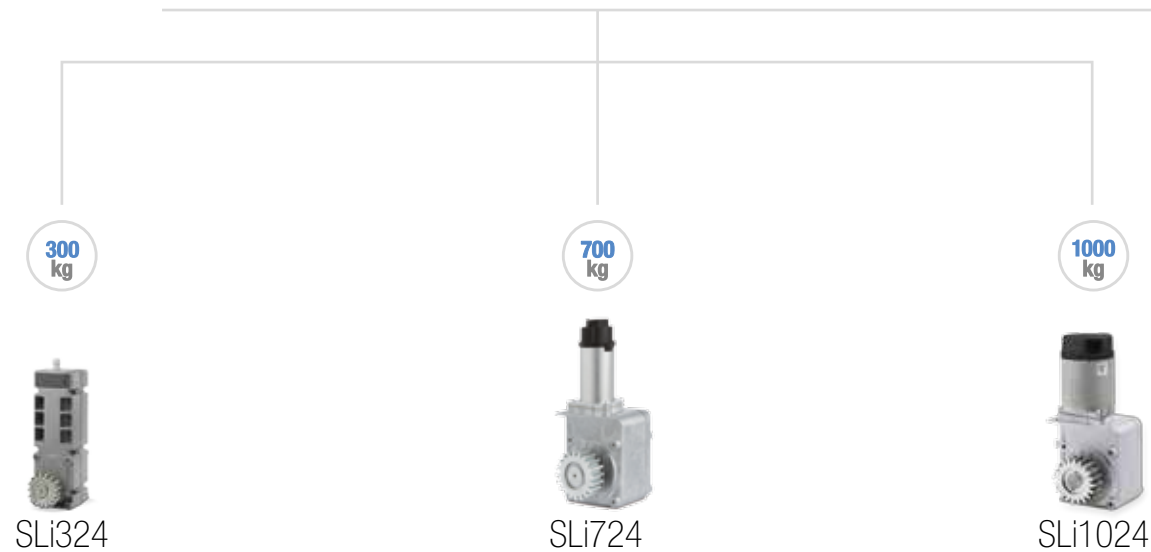
CARDIN TRADE



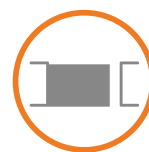
SLi

IN-BUILT SLAVE
AUTOMATION

CARDIN INSIDE



SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES



CARDIN PRO 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. 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 bi-parting 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 buffer 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 196.



MANUAL RELEASE SLX3024CB



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY



MANUAL RELEASE SLX1524CB

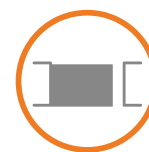


ELECTRONIC PROGRAMMER
SL524



MANUAL RELEASE SL524

CARDIN PRO SERIES SL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

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

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

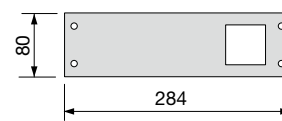
The appliance is fitted with a safe and secure manual release system with a personalised knob (supplied with the appliance).

SL524CB



+ -
NiMH

500
kg



FASTENING BASE
SPARE PARTS NUMBER 999423

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Version SL524 without a battery charger and batteries

SL524

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

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

- electronic programmer;
- 433 MHz "FM" receiver;
- slot-in battery charger;
- NiMH buffer 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 release system activated by a personalised key.

SLX824CB

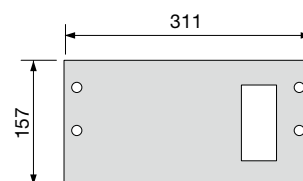


+ -
NiMH

128
PIX



800
kg



FASTENING BASE
SPARE PARTS NUMBER 999393

CARDIN PRO SERIES SL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

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

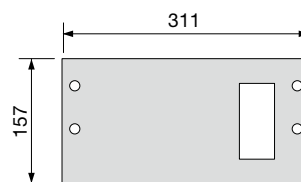
- electronic programmer;
- 433 MHz "FM" receiver;
- slot-in battery charger;
- NiMH buffer batteries.

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 release system activated by a personalised key.



SLX1524CB



FASTENING BASE
SPARE PARTS NUMBER 999393

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

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

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

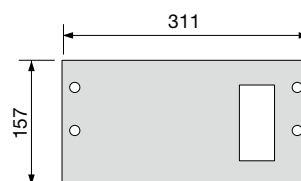
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning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



FASTENING BASE
SPARE PARTS NUMBER 999393

SLIDING GATES

CARDIN PRO SERIES SL



ACCESSORY DESCRIPTION

ORDER NUMBER

GEAR RACK

in nylon reinforced with glass fibre with a steel core for sliding gates up to 600 kg.

VERSION WITH 4 LOWER FASTENING SLIT

30 mm x 20 mm, M4, 1 m pieces.

CRENY1



GEAR RACK

in polyamide with a steel core for sliding gates up to 1500 kg.

VERSION WITH 6 LOWER FASTENING SLITS

30 mm x 20 mm, M4, 1 m pieces.

CREMP



VERSION WITH 6 UPPER FASTENING SLITS

30 mm x 20 mm, M4, 1 m pieces.

CRENY



GEAR RACK

in galvanised steel for sliding gates up to 1500 kg.
Particularly suited to industrial installations.

VERSION TO BE SOLDERED

22 mm x 22 mm, M4, 2 m pieces.

SLOAC



VERSION WITH FASTENING SLITS

30 mm x 12 mm, M4, 1 m 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



DATA INTERFACE MODULE VIA CABLE

The module allows you to connect two motors via cable in order to use the synchronised master/slave function.

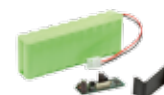
MODCA



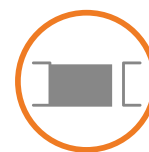
KIT BATTERY CHARGER + NIMH BATTERIES

Allows the SL524 unit to work during blackouts.

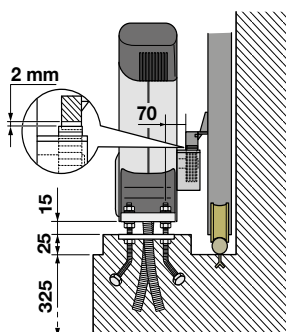
KBNIMH-1



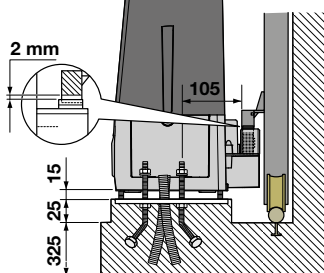
CARDIN PRO SERIES SL



POSITIONING THE UNIT

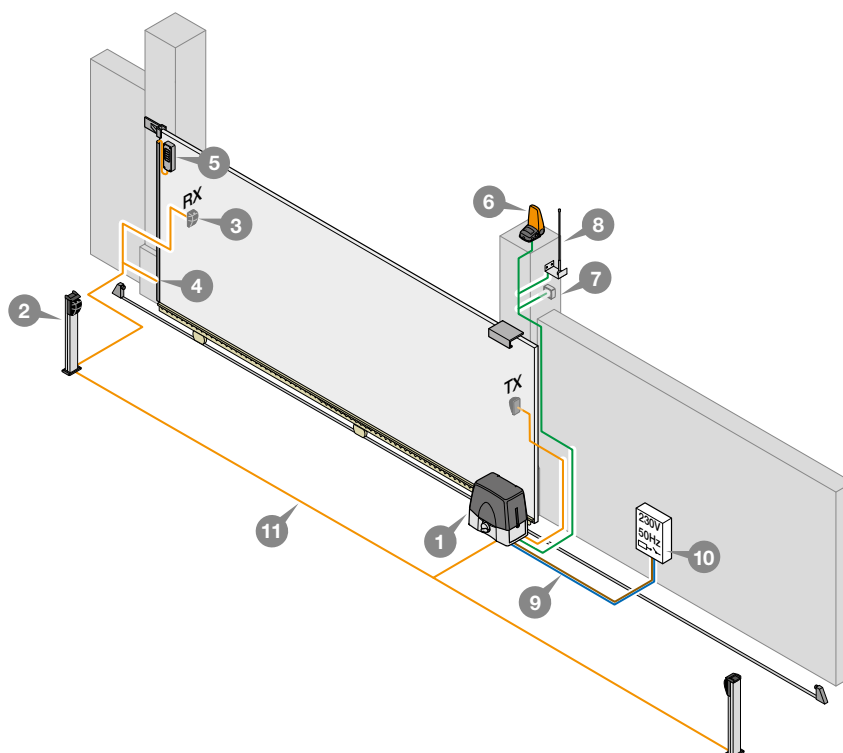


**SL524
SL524CB**



**SLX824CB - SLX1524CB
SLX3024CB**

INSTALLATION EXAMPLE



LEGEND

- 1 Geared motor
- 2 Internal photocells
- 3 External photocells
- 4 Safety edge
- 5 Radioshoild
- 6 Warning lights
- 7 Mechanical selector switch
- 8 External aerial
- 9 Mains cable 230 Vac
- 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.

SLIDING GATES

CARDIN PRO SERIES SL



TECHNICAL DATA

GENERAL CHARACTERISTICS

		SL524-524CB	SLX824CB	SLX1524CB	SLX3024CB
Power supply	Vac	230	230	230	230
Frequency	Hz	50	50	50	50
Nominal electrical input	A	0,75	0,9	0,9	1,1
Power input	W	170	200	200	250
Duty cycle	%	70	70	70	70
Drag speed	m/min	9,2	13	9,5	8
Torque max.	Nm	42	57	74	90
Operating temperature range	°C	-20°...+55	-20°...+55	-20°...+55	-20°...+55
Protection grade	IP	44	44	44	44

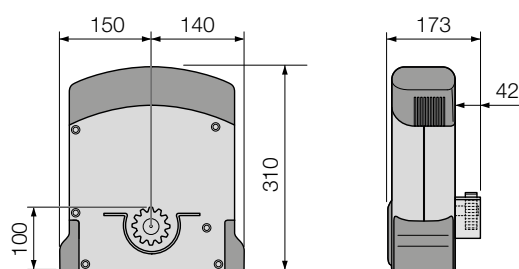
MOTOR DATA

Motor power supply	Vdc	24	24	24	24
Maximum power yield	W	38	110	130	160
Nominal electrical input	A	1,8	3	3,5	4,5

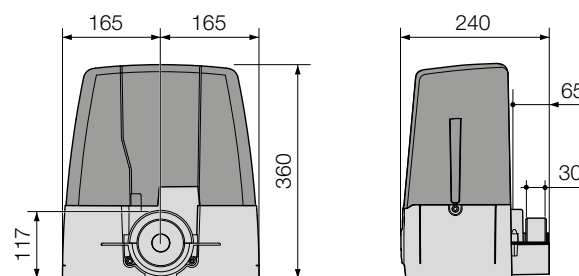
BUILT-IN RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3
Number of channels	No	4	4	4	4
Number of functions	No	6	8	8	8
Number of stored codes	No	300 / 1000	300 / 1000	300 / 1000	300 / 1000

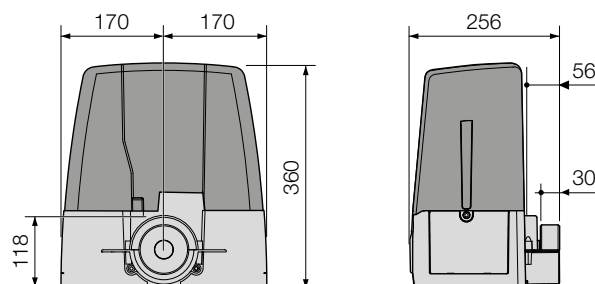
OVERALL DIMENSIONS



SL524 - SL524CB

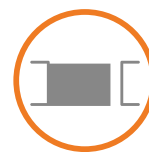


SLX824CB - SLX1524CB



SLX3024CB

COMPLETE KIT FOR SLIDING GATES



CARDIN PRO SERIES SL

A complete automatic device with a 24V motor for medium to small size sliding gates with an incorporated self-learning programmer, a multi-decoding module S449-S486-S504-S508, 433 MHz receiver card, including a battery charger and NiMH batteries. Ideal for sliding gates in residential installation.

Made out of cast aluminium and with great attention to detail they have been protected by a finishing that is highly resistant to atmospheric agents.

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

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

For gates max. weight 500 kg.

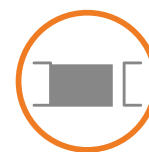


K-SL524CBX

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



CARDIN PRO SERIES SL



KIT DESCRIPTION

ORDER NUMBER **K-SL524CBX**

SELF-LOCKING SLIDING GATE MOTOR

with an encoder-controlled 24 Vdc motor.
Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.
For gates up to 500 kg.

SL524CB



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V double LED, timer-controlled.

MOLLIGHT3



DEDICATED AERIAL

433 MHz.

ANS400-MOL



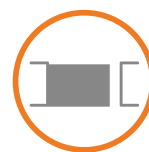
INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES



(optional)

CARDIN TRADE SERIES SL ACE

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:

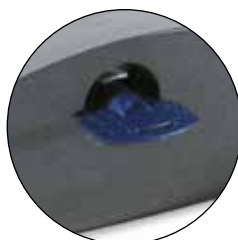
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.



ELECTRONIC PROGRAMMER WITH
EXTRACTABLE TERMINAL BLOCKS



OPEN COLLECTOR
RECEIVER CARD



MANUAL RELEASE SL ACE FAST

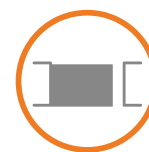


RAPID ANCHORING
SYSTEM



MANUAL RELEASE SL ACE 601

CARDIN TRADE SERIES SL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V 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.

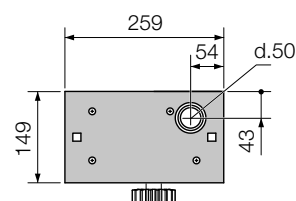
The programmer allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting etc.

Ideal for residential sliding gates up to 300 kg.

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



SL ACE FAST



FASTENING BASE
SPARE PARTS NUMBER PIAFACE300AS

ELECTROMECHANICAL UNIT WITH A 24 V 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 8,2 K Ω 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 Prg-Link system that allows the monitoring and programming of the system parameters from a remote position.

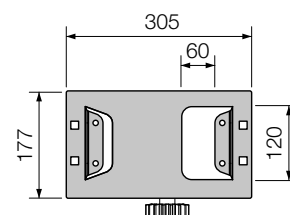
Possibility of connecting two gear motors in Master and Slave configuration for installations with opposing sliding gates.

Ideal for residential sliding gates up to 600 kg.

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

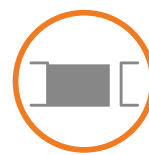


SL ACE 601



FASTENING BASE
SPARE PARTS NUMBER RPIAFAVEOZ

SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES



CARDIN TRADE SERIES SL EVO

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 SL EVO 600).

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
SL EVO 600 - 800 - 1200



RAPID ANCHORING
SYSTEM



MANUAL RELEASE SL EVO 2000

CARDIN TRADE SERIES SL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING SLIDING GATE MOTOR

For residential/industrial sliding gates up to 1200 kg. 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 SL EVO 800 and SL EVO 1200) 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 600 kg.



SL EVO 600

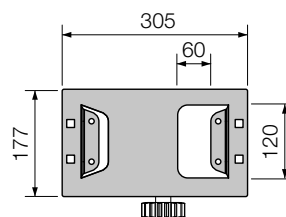


ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V

Oil bath lubrication. For gates up to 800 kg.



SL EVO 800



FASTENING BASE
SPARE PARTS NUMBER RPIA FEVOZ

ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V

Oil bath lubrication. For gates up to 1200 kg.



SL EVO 1200

ELECTROMECHANICAL GEAR MOTOR POWERED BY 230V

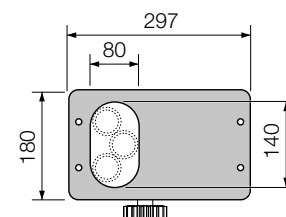
Oil bath lubrication. For industrial sliding gates up to 2000 kg. Complete with encoder, magnetic limits, electronic brake and a built-in control unit.

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

The appliance is fitted with a safe and secure key-operated manual release system.



SL EVO 2000



FASTENING BASE
SPARE PARTS NUMBER RPIA ANEV2P

CARDIN TRADE SERIES SL ACE-EVO



ACCESSORY DESCRIPTION

ORDER NUMBER

GEAR RACK

in nylon reinforced with glass fibre with a steel core for sliding gates up to 600 kg.

VERSION WITH 4 LOWER FASTENING SLIT

30 mm x 20 mm, M4, 1 m pieces.

CRENY1



GEAR RACK

in polyamide with a steel core for sliding gates up to 1500 kg.

VERSION WITH 6 LOWER FASTENING SLITS

30 mm x 20 mm, M4, 1 m pieces.

CREMP



VERSION WITH 6 UPPER FASTENING SLITS

30 mm x 20 mm, M4, 1 m pieces.

CRENY



GEAR RACK

in galvanised steel for sliding gates up to 1500 kg.
Particularly suited to industrial installations.

VERSION TO BE SOLDERED

22 mm x 22 mm, M4, 2 m pieces.

SLOAC



VERSION WITH FASTENING SLITS

30 mm x 12 mm, M4, 1 m 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.

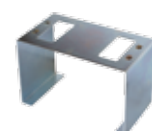
DAP



BASEPLATE

for embedding.

CPEVO



SLIDING GATES

CARDIN TRADE SERIES SL ACE-EVO



ACCESSORY DESCRIPTION

ORDER NUMBER

BATTERY CHARGER

for use with 24 V programmers.

CB24

EXTERNAL BOX

with 2 batteries 12 V 7 Ah. For SL ACE FAST - ACE 601.

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc 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.

KIT SBLESTEVO



MECHANICAL TRAVEL LIMIT ADAPTOR

From open collector to NC.

ADFCSM



ELECTRONIC HEATER

with a temperature probe for 230V motors.

HOT



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



FLAGON OF OIL

5 litres for SL EVO 800.

5 litres for SL EVO 1200.

1 litre for SL EVO 2000.

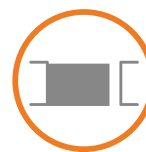
TS20

TS40

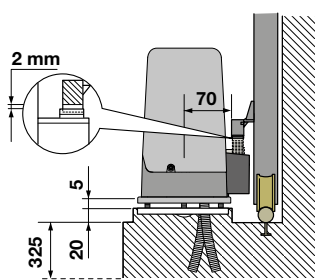
TS60



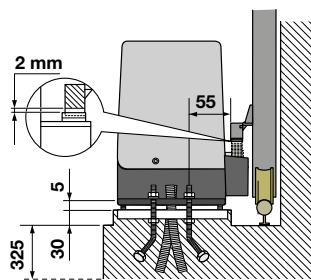
CARDIN TRADE SERIES SL ACE-EVO



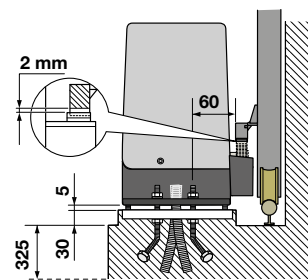
POSITIONING THE UNIT



SL ACE FAST

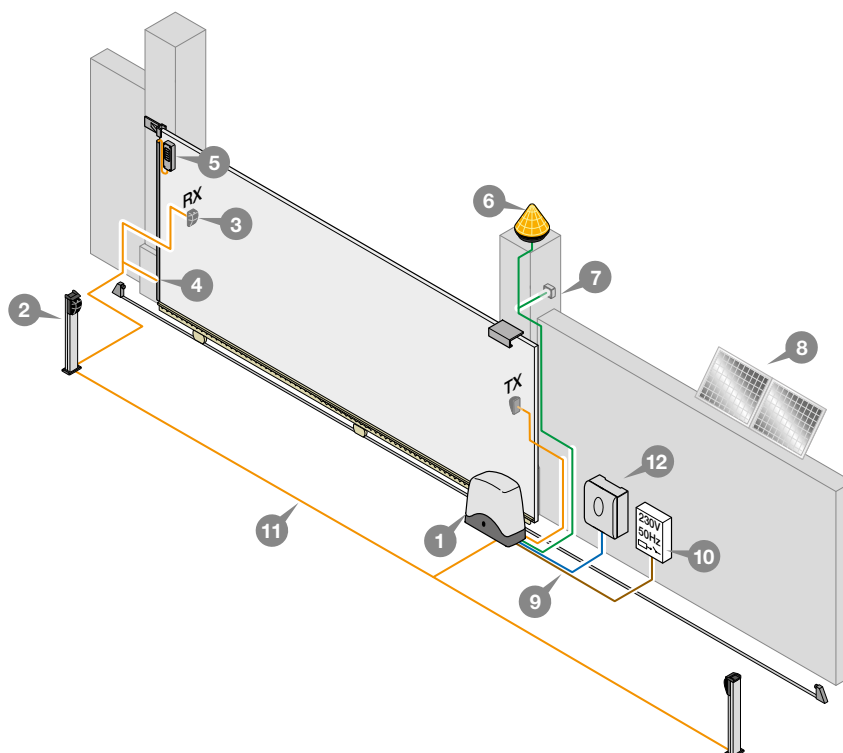


SL EVO 600 - SL EVO 800
SL EVO 1200 - SL ACE 601



SL EVO 2000

INSTALLATION EXAMPLE



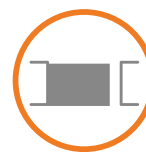
LEGEND

- 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 230 Vac
- 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.

SLIDING GATES

CARDIN TRADE SERIES SL ACE-EVO



TECHNICAL DATA

GENERAL CHARACTERISTICS

		SL ACE FAST	SL ACE 601	SL EVO 600	SL EVO 800	SL EVO 1200	SL EVO 2000
Power supply	Vac	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Nominal electrical input	A	0,5	0,8	1,8	2	2,5	3,1
Power input	W	115	180	400	460	570	710
Duty cycle	%	40	80	40	60	60	40
Drag speed	m/min	10 . 16	10 . 16	10	10	10	10
Torque max.	Nm	15	21	21	25	45	50
Operating temperature range	°C	-20°...+55	-20°...+55	-20°...+55	-20°...+55	-20°...+55	-20°...+55
Protection grade	IP	44	44	44	44	44	44

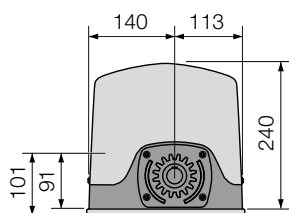
MOTOR DATA

Motor power supply	V	30 Vdc	24 Vdc	230 Vac	230 Vac	230 Vac	230 Vac
Maximum power yield	W	120	200	800	800	1100	1000
Maximum electrical input	A	4	8	3,4	3,4	5,2	4,3

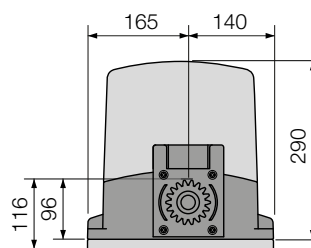
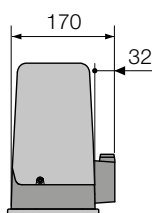
OPTIONAL RECEIVER CARD

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.

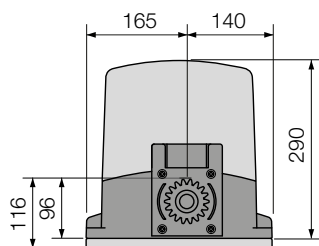
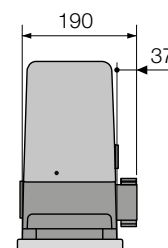
OVERALL DIMENSIONS



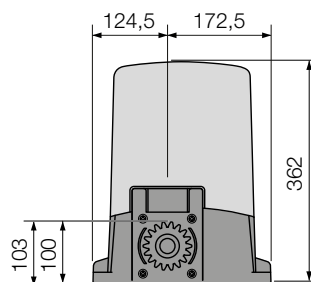
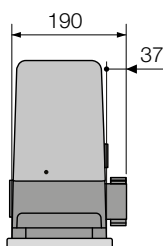
SL ACE FAST



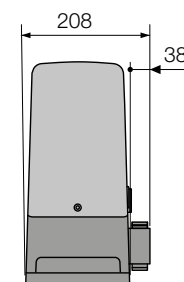
SL ACE 601



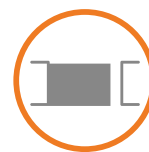
SL EVO 600 - SL EVO 800 - SL EVO 1200



SL EVO 2000



COMPLETE KIT FOR SLIDING GATES



CARDIN TRADE SERIES SLACE FAST

A complete, compact and rapid automation kit fitted with a 24 V motor.

This automation, with an incorporated electronic programmer complete with an open collector receiver card for medium to small size sliding gates, is available in the warehouse in the following version:

- K-SLACEFAST with an RSQ4490C2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

The motor, made out of cast aluminium and with great attention to detail, has been protected by a finishing that is highly resistant to atmospheric agents.

The unit moves gates up to 16 metres per minute with speed regulation.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

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 SUN POWER system.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 300 kg.



K-SLACEFAST

PACKING

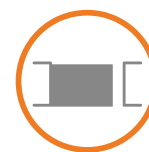
DIMENSIONS: 520 x 210 x 320

GROSS WEIGHT: 9,5 kg

ITEMS PER PALLET: 21 pcs



CARDIN TRADE SERIES SL



KIT DESCRIPTION

ORDER NUMBER **K-SLACEFAST**

SELF-LOCKING SLIDING GATE MOTOR

with an encoder-controlled 24 Vdc motor and magnetic travel limits.
In-built electronic programmer.
For gates up to 300 kg.

2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.
S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

LED WARNING LIGHT

24V - 230V with an in-built aerial

INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

SL ACE FAST



RSQ4490C2



TXQ449400



APRO



VEDO 180



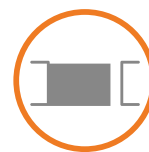
LACO LED 24-230



TARGA-INT



COMPLETE KIT FOR SLIDING GATES



CARDIN TRADE SERIES SL ACE 601

A complete, compact and rapid automation kit fitted with a 24 V motor with the possibility of connecting two gear motors one Master and one Slave to drive two bi-parting sliding gates.

This automation, with an incorporated electronic programmer complete with an open collector receiver card for medium to small size sliding gates, is available in the warehouse in the following version:

- K-SLACE 6014 with an RSQ449OC2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

The motor, made out of cast aluminium and with great attention to detail, has been protected by a finishing that is highly resistant to atmospheric agents.

The unit moves gates up to 16 metres per minute with speed regulation.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

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 PRG-LINK system that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 800 kg.

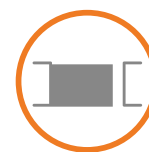


K-SLACE 601

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



CARDIN TRADE SERIES SL



KIT DESCRIPTION

ORDER NUMBER **K-SLACE 601**

SELF-LOCKING SLIDING GATE MOTOR

with an encoder-controlled 24 Vdc motor and magnetic travel limits.
In-built electronic programmer.
For gates up to 600 kg.

SL ACE 601



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.
S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

APRO



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

VEDO 180



LED WARNING LIGHT

24V - 230V with an in-built aerial

LACO LED 24-230



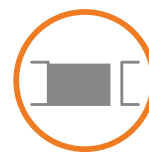
INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



COMPLETE KIT FOR SLIDING GATES



CARDIN TRADE SERIES SL EVO 600

A complete, powerful and robust automation kit fitted with a 230V motor.

This automation, with an incorporated electronic programmer complete with an open collector receiver card for medium to small size sliding gates, is available in the warehouse in the following version:

- K-SLEVO6004 with an RSQ4490C2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

The motor, made out of cast aluminium and with great attention to detail, has been protected by a finishing that is highly resistant to atmospheric agents.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

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.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 600 kg.



K-SLEVO600

PACKING

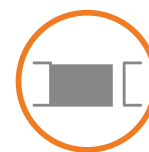
DIMENSIONS: 520 x 210 x 320

GROSS WEIGHT: 15 kg

ITEMS PER PALLET: 21 pcs



CARDIN TRADE SERIES SL



KIT DESCRIPTION

ORDER NUMBER **K-SLEV0600**

SELF-LOCKING SLIDING GATE MOTOR

with an encoder-controlled 230 Vac motor and magnetic travel limits.
In-built electronic programmer.
For gates up to 600 kg.

SL EVO 600



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.
S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

APRO



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

VEDO 180



LED WARNING LIGHT

24V - 230V with an in-built aerial

LACO LED 24-230



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



INSIDE AUTOMATION FOR SLIDING GATES

CARDIN INSIDE
SLAVE AUTOMATION



PAGE 46





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. 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.

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. The drive shaft is removable to allow rapid installation and to facilitate the precise positioning of the geared motor.

Extremely compact the drive components are enclosed in a robust cast aluminium structure.

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 automation, available in three versions with different motor power levels automation is suitable for driving sliding gates with up to a maximum weight of 1000 kg.



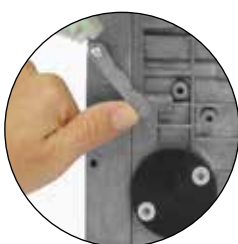
Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.



See section 24V ECU INTERFACE DEVICES on page 196.



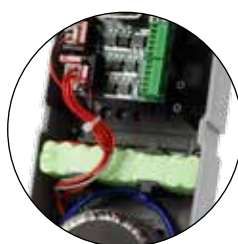
EXTRACTABLE PINION



MANUAL RELEASE



ENCODER CONTROL



BATTERY CHARGER AND
NiMH BATTERIES



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY

CARDIN INSIDE SERIES SLi



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 300 kg.



SLi324



ELECTRONIC PROGRAMMER FOR ONE MOTOR

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer 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.

CC824EINTCB



ELECTRONIC PROGRAMMER FOR ONE MOTOR

Version without batteries and battery charger.

CC824EINT

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 700 kg.



SLi724



ELECTRONIC PROGRAMMER FOR ONE MOTOR

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer 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.

CC924EFAMCBS



ELECTRONIC PROGRAMMER FOR ONE MOTOR

Version without batteries and battery charger.

CC924EFAMS

CARDIN INSIDE SERIES SLi



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 1000 kg.

SLi1024



ELECTRONIC PROGRAMMER FOR ONE MOTOR

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer 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.

CC924EFAMCB



ELECTRONIC PROGRAMMER FOR ONE MOTOR

Version without batteries and battery charger.

CC924EFAM

ACCESSORY DESCRIPTION

KIT BATTERY CHARGER + NiMH BATTERIES

Allows the programmers CC824EINT, CC924EFAMS and CC924EFAM to work during blackouts.

KBNIMH-1



6-WIRE SPECIAL CONNECTING CABLE

length 2 m.

CABPC2



DATA INTERFACE MODULE VIA CABLE

The module allows you to connect two motors via cable in order to use the synchronised master/slave function.

MODCA



CARDIN INSIDE SERIES SLi



TECHNICAL DATA

MOTOR SPECIFICATIONS

		SLi324	SLi724	SLi1024
Motor power supply	Vdc	24	24	24
Electrical input	A	6,5	6,5	8,5
Power input	W	150	160	200
Duty cycle	%	70	70	70
Drag speed	m/min	10,5	11	11
Maximum gate weight	kg	300	700	1000
Operating temperature range	°C	-20°...+55	-20°...+55	-20°...+55
Protection grade	IP	44	44	44

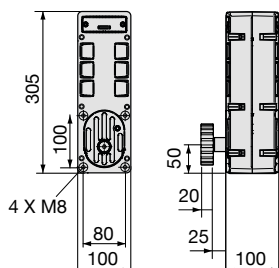
ECU CHARACTERISTICS

Power supply	Vac	230	230	230
Nominal electrical input	A	1,2	1,2	1,2
Maximum power yield	W	250	250	250
Protection grade	IP	55	55	55
Class II device	Cls			

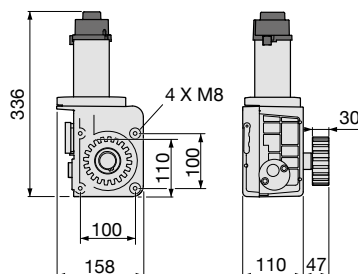
BUILT-IN RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3
Number of channels / number of functions	No	4 / 6	4 / 8	4 / 8
Number of stored codes	No	300 / 1000	300 / 1000	300 / 1000

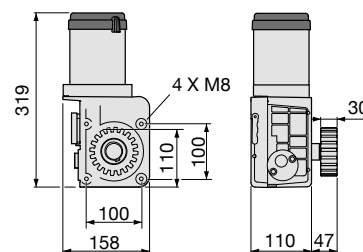
OVERALL DIMENSIONS



SLi324



SLi724



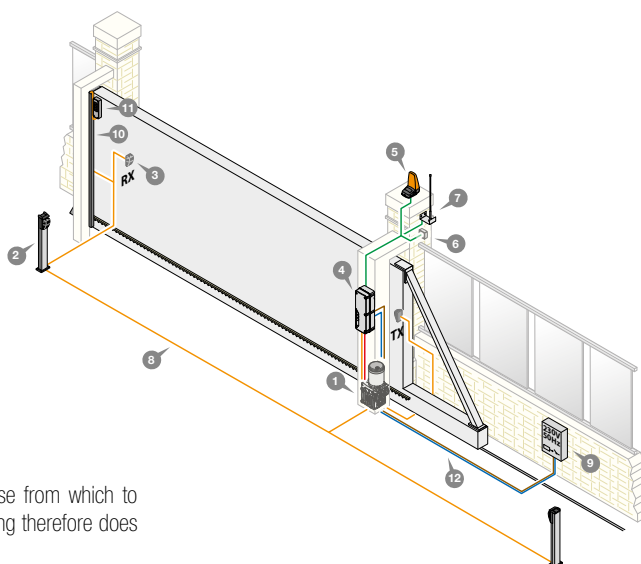
SLi1024

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 Active safety edge
- 11 Radioshield
- 12 Mains cable 230 Vac

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

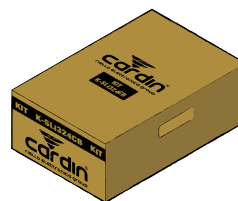


CARDIN INSIDE SERIES SLi

The inside kits, available in three versions for gates with 300 kg, 700 kg and 1000 kg contain a gear motor, an electronic programmer and a 6-wire fast-fitting cable. The gate position is encoder-controlled. 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 buffer batteries which allow the gate to be manoeuvred even during blackouts.

Compatible with the NTPRG-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.



K-SLi324CB

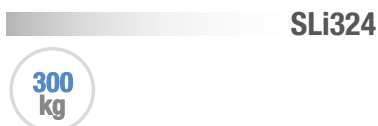
PACKING
DIMENSIONS: 240 x 360 x 150
GROSS WEIGHT: 9 kg
ITEMS PER PALLET: 36 pcs

KIT DESCRIPTION

ORDER NUMBER

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 300 kg.



ELECTRONIC PROGRAMMER FOR ONE MOTOR

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer batteries.



6-WIRE SPECIAL CONNECTING CABLE

length 2 m.



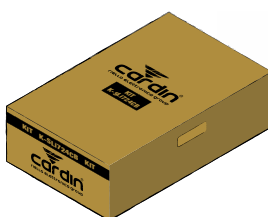
INSIDE SLIDING GATES

CARDIN INSIDE SERIES SLi



KIT DESCRIPTION

ORDER NUMBER

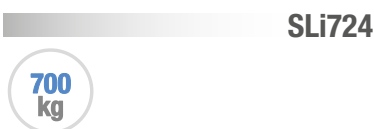


K-SLi724CB

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

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 700 kg.



ELECTRONIC PROGRAMMER FOR ONE MOTOR

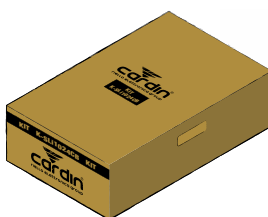
including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer batteries.



6-WIRE SPECIAL CONNECTING CABLE

length 2 m.

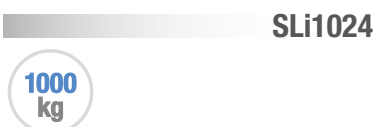


K-SLi1024CB

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

SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates up to 1000 kg.



ELECTRONIC PROGRAMMER FOR ONE MOTOR

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer batteries.



6-WIRE SPECIAL CONNECTING CABLE

length 2 m.



HINGED ARM AUTOMATION FOR SWING GATES

RAPID SELECTION GUIDE

(FOR THE SERIES BL - HL - BLi)

PAGE 54

CARDIN PRO BL

MASTER AUTOMATION 24V

SLAVE AUTOMATION 24-230V



PAGE 60

PAGE 72

CARDIN TRADE BL

MASTER AUTOMATION 24V

SLAVE AUTOMATION 24-230V



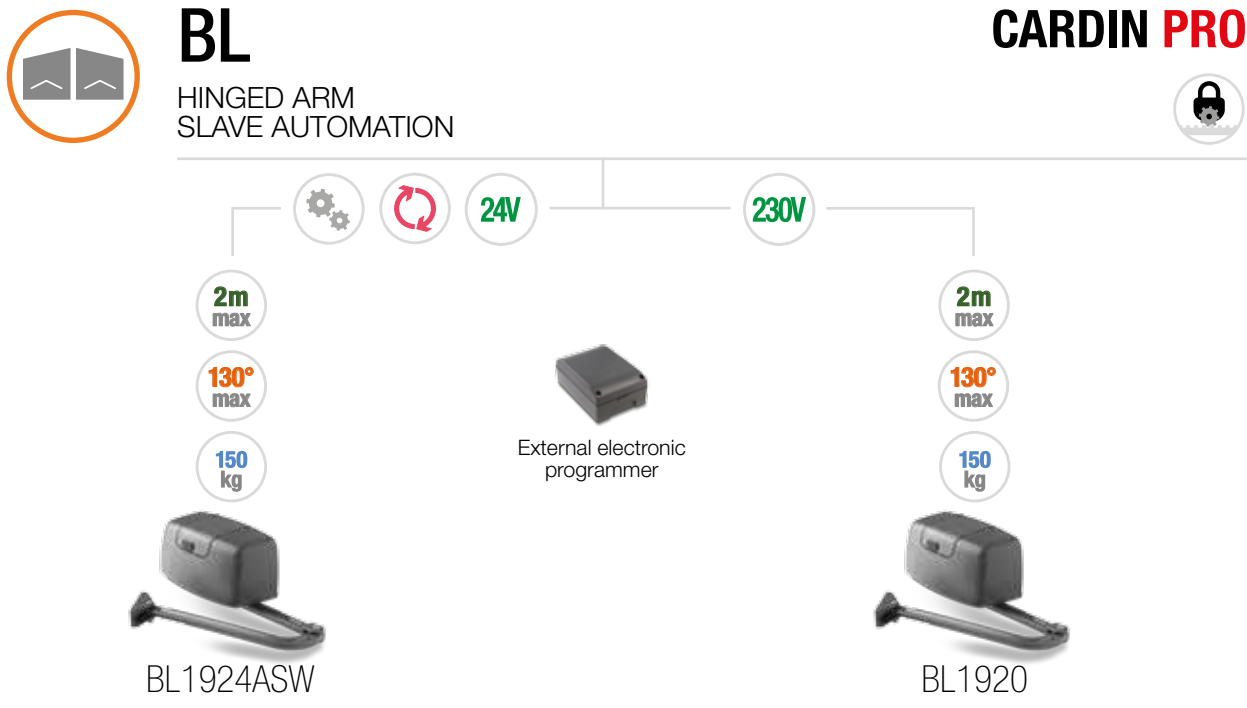
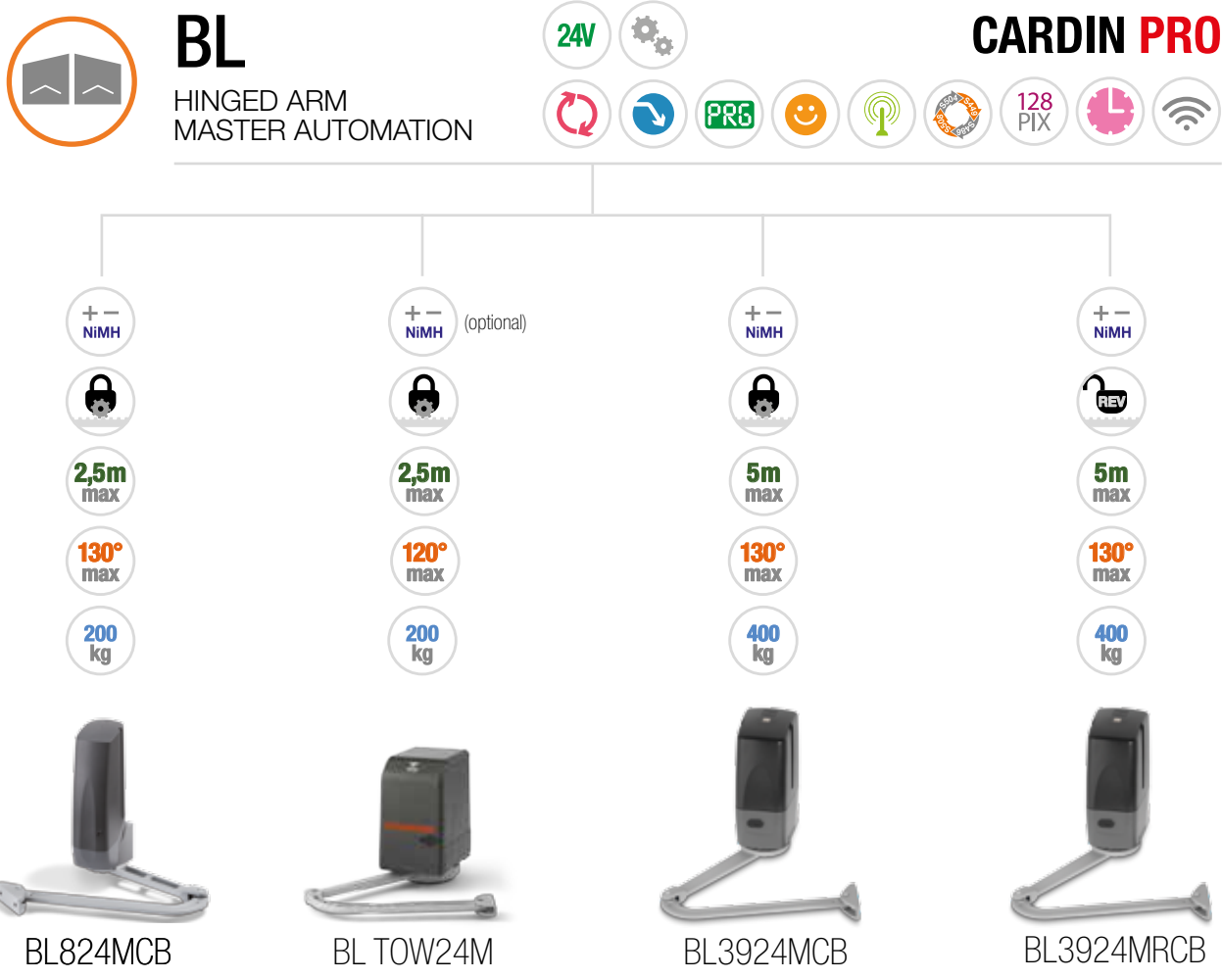
PAGE 80

PAGE 86



RAPID GUIDE

SWING GATES



RAPID GUIDE

SWING GATES



BL

HINGED ARM
MASTER-SLAVE AUTOMATION

CARDIN TRADE

24V



12V



1,2m
max

100°
max

100
kg



1,5m
max

110°
max

170
kg

External electronic
programmer



BL STEALTH



BL TEN1



BL TEN2



BL

WORM SCREW
SLAVE AUTOMATION

CARDIN PRO

24V



2,5m
max

110°
max

200
kg



BLEGOS

4m
max

110°
max

300
kg



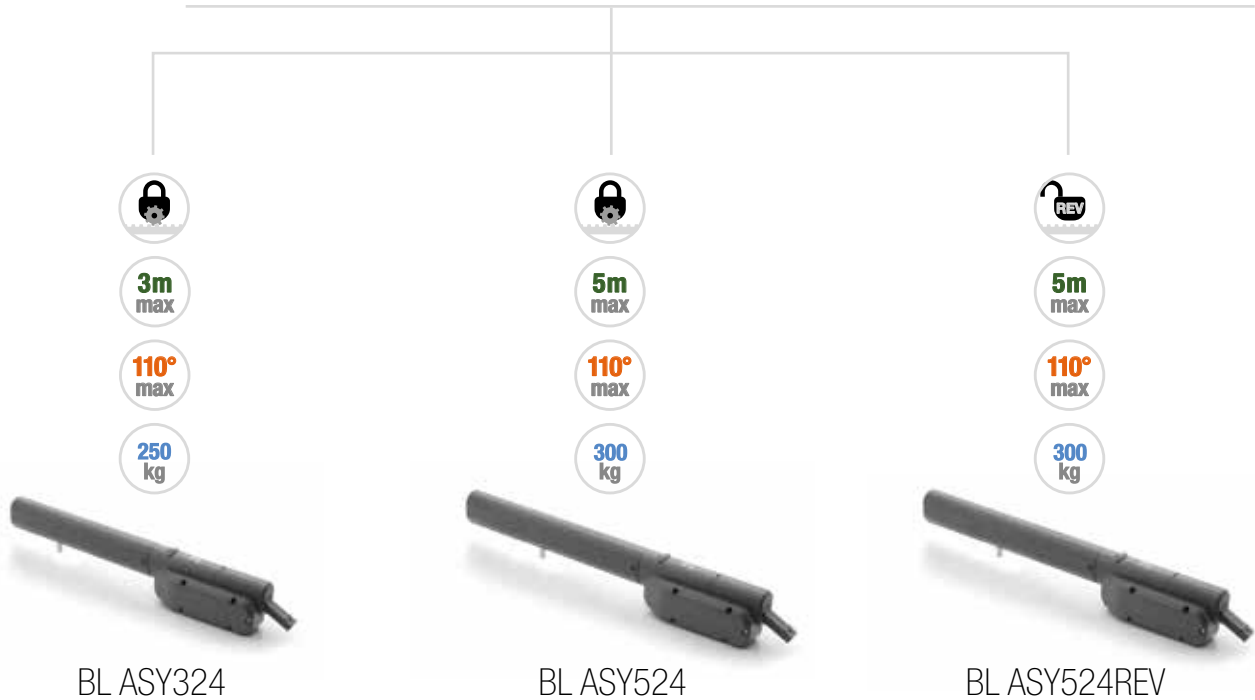
BLESOL



BL ASY

WORM SCREW
SLAVE AUTOMATION

CARDIN TRADE



BL ASY

WORM SCREW
SLAVE AUTOMATION

CARDIN TRADE



RAPID GUIDE

SWING GATES



BL TAG

WORM SCREW
SLAVE AUTOMATION

CARDIN TRADE



2m
max

100°
max

150
kg



BL TAGSX

2m
max

100°
max

150
kg



BL TAGDX



BL BLUES

WORM SCREW
SLAVE AUTOMATION

CARDIN TRADE



2,5m
max

105°
max

350
kg



BL BLUES3



2,5m
max

105°
max

350
kg



BL BLUES3R



4,5m
max

105°
max

500
kg



BL BLUES5



4,5m
max

105°
max

500
kg



BL BLUES5R



HL

UNDERGROUND
SLAVE AUTOMATION

CARDIN PRO



3m
max

110°
max

350
kg



HL2524ESB

3m
max

360°
max

350
kg



HL1824ESB



HL

UNDERGROUND
SLAVE AUTOMATION

CARDIN PRO



3m
max

110°
max

550
kg



HL251CL

3m
max

360°
max

550
kg

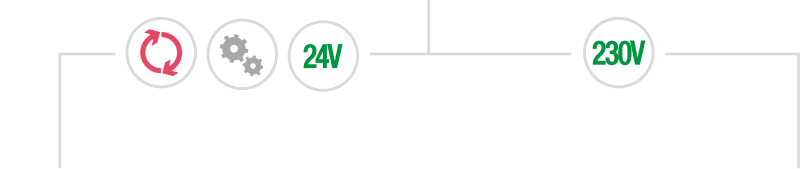


HL2518CL



HL MOLE

UNDERGROUND
SLAVE AUTOMATION



3,5m
max

115°
max

350
kg



HL MOLE24

3,5m
max

115°
max

450
kg



HL MOLE230



BLi

INSIDE SLAVE
AUTOMATION

CARDIN INSIDE



2,5m
max

180°
max

200
kg



BLi1000

SELF-PROGRAMMING AUTOMATION FOR SWING GATES



CARDIN PRO 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 NTPRG-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 196.



GATE MOVEMENT SIGNALLING
INDICATED BY LEDS



ALUMINIUM OPERATOR ARMS



MANUAL RELEASE
BL3924



NIMH EMERGENCY BATTERIES



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY

CARDIN PRO SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Encoder-controlled self-locking Master unit including:

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

Particularly suited for installations with narrow columns that require the mounting base to be less than 150 mm 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 (2,5 m with a hinged arm and an electric lock) 200 kg maximum weight.

Manual release is carried out using the hexagonal key located inside the side panel.

Operator arm to be ordered separately.



2,5m
max

130°
max

200
kg

+ -
NiMH

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Encoder-controlled self-locking slave unit.



2,5m
max

130°
max

200
kg

ACCESSORY DESCRIPTION

STANDARD HINGED OPERATOR ARM

in spray-painted cast aluminium.

STRAIGHT ARM WITH SLIDING GUIDE

in spray-painted cast aluminium.

1000 mm GUIDE FOR SPECIAL OPENING REQUIREMENTS

in spray-painted cast aluminium.

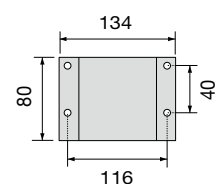
Lots of 2 pcs.

KIT BATTERY CHARGER + NIMH BATTERIES

Allows the BL824MCB unit to work during blackouts.

For the electric locks see page 181.

BL824MCB



FASTENING BASE
SPARE PARTS NUMBER 999626



BL824S



BL824ARM



BL824DRM



BL3924GU2



KBNIMH-3



CARDIN PRO SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Encoder-controlled self-locking Master unit including:

- electronic programmer;
- 433 MHz "FM" receiver;
- gate movement signalling via led.

Kit battery charger + batteries to be ordered separately.

Particularly suited for installations with narrow columns that require the mounting base to be less than 180 mm 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 (2,5 m with an electric lock), 200 kg maximum weight.

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

Operator arm included.



2,5m
max

120°
max

200
kg

+ -
NiMH

(optional)

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Encoder-controlled self-locking slave unit with gate movement signalling via led.

Operator arm included.

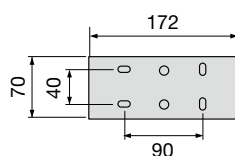


2,5m
max

120°
max

200
kg

BLTOW24M



FASTENING BASE
SPARE PARTS NUMBER 999750



BLTOW24S



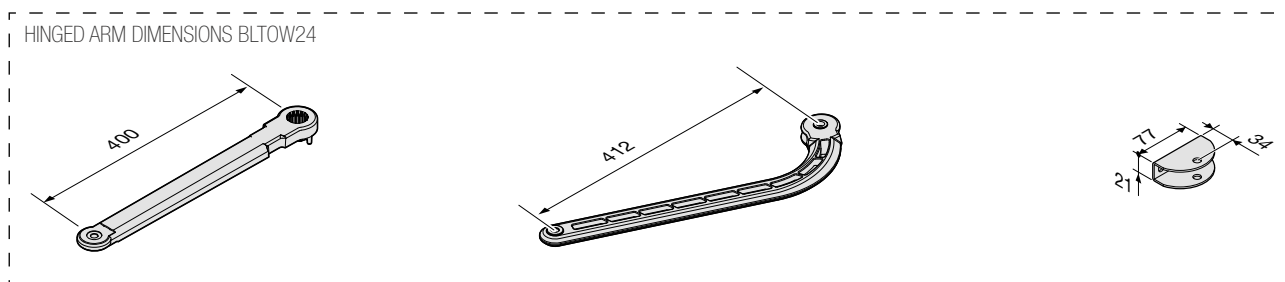
KIT BATTERY CHARGER + NIMH BATTERIES

Allows the BLTOW24M unit to work during blackouts.

KBNIMH-1



OVERALL DIMENSIONS



For the electric locks see page 181.

SWING GATES

CARDIN PRO SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Encoder-controlled self-locking Master unit (reversible in the version BL3924MRCB) including:

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

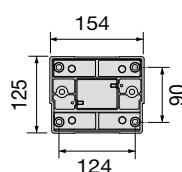
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 3,5 metres in length (up to 5 m with a hinged arm and an electric lock) 400 kg maximum weight.

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 24 V MOTOR

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

BL3924S

BL3924SR



ACCESSORY DESCRIPTION

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



1000 mm GUIDE FOR SPECIAL OPENING REQUIREMENTS

in spray-painted cast aluminium.

Lots of 2 pcs.

BL3924GU2



For the electric locks see page 181.

CARDIN PRO SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

10 m CABLE

with end sleeves.

CABPC10



TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

		BL824MCB	BLTOW24M	BL3924MCB/MRCB
Motor power supply	Vdc	24	24	24
Nominal electrical input	A	2	3	2
Power input	W	50	50	50
Duty cycle	%	70	70	70
Opening time 90°	s	14 (12*)	13	20 (16*)
Maximum opening angle	°	130	120	130
Maximum torque	Nm	270	250	300
Protection grade	IP	44	54	44

* using a straight operator arm

ELECTRONIC PROGRAMMER TECHNICAL DATA

Power supply	Vac	230	230	230
Nominal electrical input	A	1,2	1,2	1,2
Maximum power yield	W	250	250	250
Power output for 1 or 2 motors	W	60 + 60	60 + 60	60 + 60
Class II device	Cls			

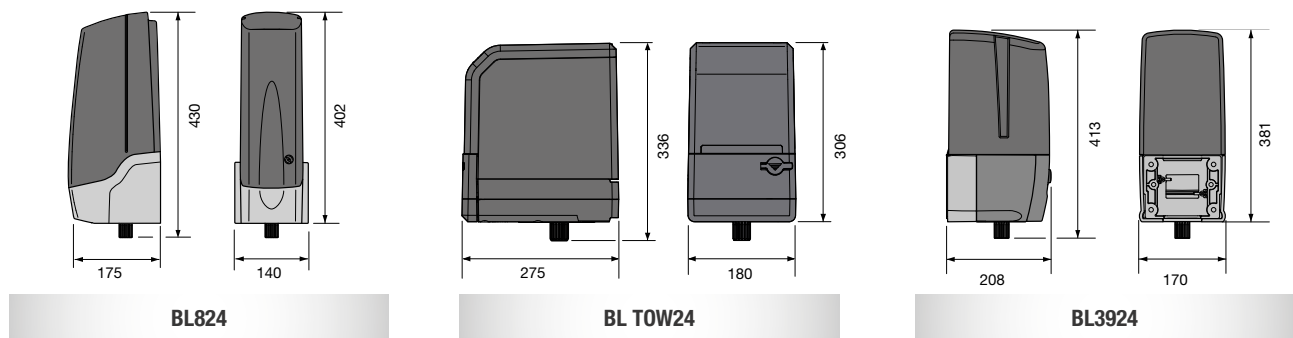
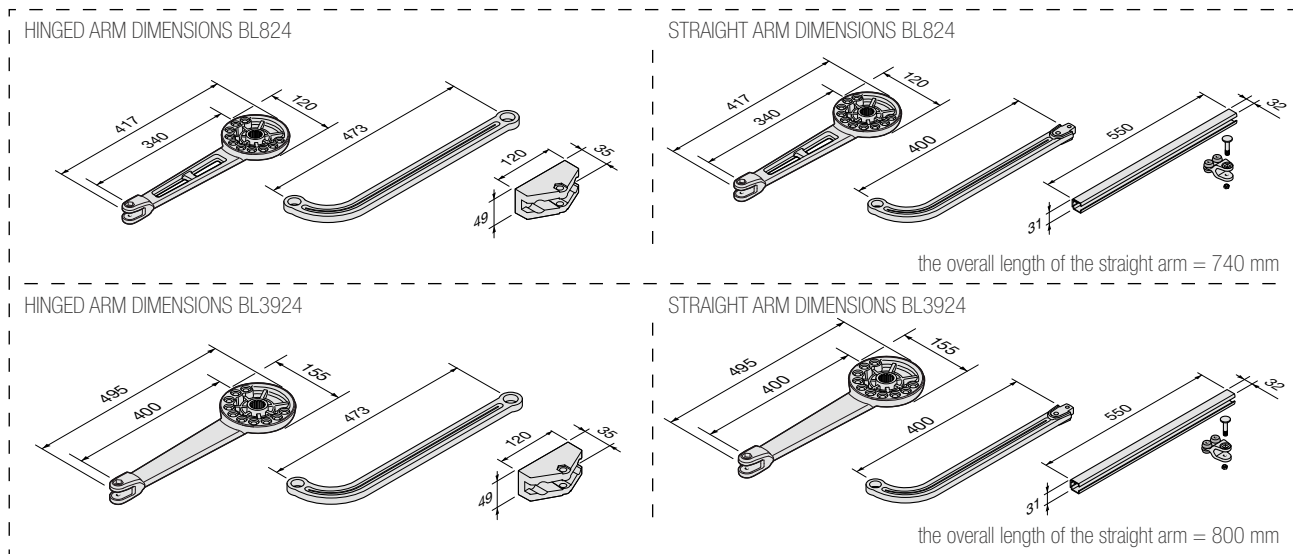
BUILT IN RECEIVER CARD

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

CARDIN PRO SERIES BL



OVERALL DIMENSIONS

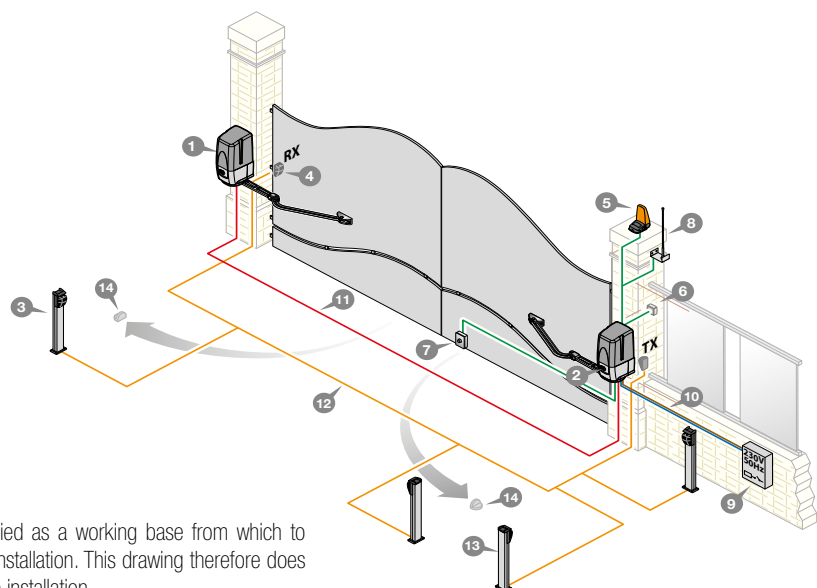


INSTALLATION EXAMPLE

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 230 Vac
- 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



CARDIN PRO SERIES BL

A complete 24V automatic device for swing-to gates with two gate leaves. The system is made up of a Master unit with an incorporated electronic programmer, a multi-decoding module S449-S486-S504-S508, 433 MHz receiver card, battery charger and NiMH batteries and a slave unit powering the second hinged gate.

Particularly suited for installations with narrow columns that require the mounting base to be less than 150 mm 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 (2,5 m with a hinged arm and an electric lock) 200 kg maximum weight.

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 with backlighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 200 kg.



K-BL824ACB

K-BL824DCB

PACKING
DIMENSIONS: 480 x 575 x 210
GROSS WEIGHT: 22,3 kg
ITEMS PER PALLET: 10 pcs



CARDIN PRO SERIES BL



KIT DESCRIPTION

SELF-LOCKING MASTER AND SLAVE UNITS

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

2 STANDARD HINGED OPERATOR ARMS

in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

10-METRE WIRING CABLE

with end sleeves.

INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

ORDER NUMBER **K-BL824ACB**

BL824MCB

BL824S

BL824ARM

TXQ504C4

CABPC10

TARGA-INT



KIT DESCRIPTION

SELF-LOCKING MASTER AND SLAVE UNITS

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

2 STRAIGHT ARMS WITH A SLIDING GUIDE

in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

10-METRE WIRING CABLE

with end sleeves.

INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

ORDER NUMBER **K-BL824DCB**

BL824MCB

BL824S

BL824DRM

TXQ504C4

CABPC10

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



COMPLETE KIT FOR SWING GATES



CARDIN PRO SERIES BL

A complete 24V automatic device for swing-to gates with two gate leaves. The system is made up of a Master unit with an incorporated electronic programmer, a multi-decoding module S449-S486-S504-S508, 433 MHz receiver card and a slave unit powering the second hinged gate.

Particularly suited for installations with narrow columns that require the mounting base to be less than 180 mm 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 (2,5 m with an electric lock), 200 kg maximum weight.

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 with backlighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 200 kg.



K-BLTOW24

PACKING
DIMENSIONS: 265 x 730 x 330
GROSS WEIGHT: 24,5 kg
ITEMS PER PALLET: 9 pcs



SWING GATES

CARDIN PRO SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BLTOW24**

SELF-LOCKING Master UNIT

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

BLTOW24M



SELF-LOCKING SLAVE UNIT

driving the second gate.

BLTOW24S



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



10-METRE WIRING CABLE

with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



COMPLETE KIT FOR SWING GATES



CARDIN PRO SERIES BL

A complete 24V automatic device for swing-to gates with two gate leaves. The system is made up of a Master unit with an incorporated electronic programmer, a multi-decoding module S449-S486-S504-S508, 433 MHz receiver card, battery charger and NiMH batteries and a slave unit powering the second hinged gate.

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 5 m with a hinged arm and an electric lock) 400 kg maximum weight.

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 with backlighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 400 kg.



K-BL3924MCB

K-BL3924MCD

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



CARDIN PRO SERIES BL



KIT DESCRIPTION

SELF-LOCKING MASTER AND SLAVE UNITS

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

2 STANDARD HINGED OPERATOR ARMS

in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

10-METRE WIRING CABLE

with end sleeves.

INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

ORDER NUMBER **K-BL3924MCB**

BL3924MCB

BL3924S

BL3924ARM

TXQ504C4

CABPC10

TARGA-INT



KIT DESCRIPTION

SELF-LOCKING MASTER AND SLAVE UNITS

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

2 STRAIGHT ARMS WITH A SLIDING GUIDE

in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

10-METRE WIRING CABLE

with end sleeves.

INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

ORDER NUMBER **K-BL3924MCD**

BL3924MCB

BL3924S

BL3924DRM

TXQ504C4

CABPC10

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



HINGED ARM AUTOMATION FOR SWING GATES



CARDIN PRO SERIES BL

Self-locking electromechanical operators with 24V and 230V models suitable for fitting to single or double hinged gates with opening to the left or to the right of the passageway. Compact, robust and carefully designed, these appliances are the ideal solution for domestic automated gates with ultra wide columns even where the opening direction of the gate is contrary to the position of the motor. The finishing and high quality materials used guarantee one hundred percent resistance to atmospheric agents and the technical and design solutions characterise and heighten the quality standard.

The system is made up of one or two operator arms managed by an external Cardin electronic programmer housed in a shockproof and waterproof container.

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

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

On the 24V BL1924ASW model gate position is encoder-controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure.

Gate 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.

On the 230V - BL1920 model gate positioning is controlled with mechanical travel limits.

Both versions are fitted with a key-operated manual release mechanism.

A powerful unit that blends into all back-grounds and gives your gate regular and silent movement.



SHOCKPROOF CARTER



OPERATOR ARM IN CAST ALUMINIUM



MANUAL RELEASE MECHANISM



EMERGENCY BATTERIES
VERSION BL1924ASW



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY
VERSION BL1924ASW

CARDIN PRO SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

RIGHT-HAND OPERATOR UNIT WITH A 24 V MOTOR

BL1924ASW

Self-locking encoder-controlled operator:

- operator arm included;
- ECU to be ordered separately.

Note: for installations that require a single left-hand motor you must specify this in the order.



RIGHT-HAND OPERATOR UNIT WITH A 230V MOTOR

BL1920

Self-locking operator with magnetic travel limits:

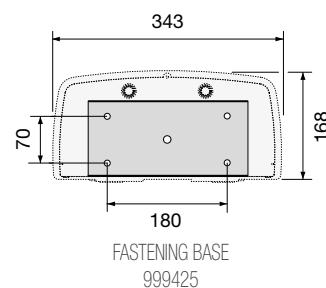
- operator arm included;
- ECU to be ordered separately.

Note: for installations that require a single left-hand motor you must specify this in the order.



Operational constraints:

for gates with a maximum length of 2 m
maximum weight 150 kg.



For the electric locks see page 181.

CARDIN PRO SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ELECTRONIC CONTROL UNIT FOR BL1924ASW

Programmer for the management of two encoder-controlled motors.
Mains power supply 230 Vac.
Motor power supply 24 Vdc.
Maximum power yield 250 W.
Fitted with a multi-decoding module S449-S486-S504-S508.
Compatible with the NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.
Batteries and a battery charger in the CC242ETOPCB and CC242EXTOPCB versions
For more information turn to page 190

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 196.

ELECTRONIC CONTROL UNIT

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

10 m CABLE

with end sleeves for BL1924ASW.

CABPC10

SELF-PROGRAMMING ECU FOR BL1920

Programmer for the control of two motors.
Power supply 230 Vac.
Motor power supply 230 Vac.
Maximum power yield for two motors 470 + 470 W.
The programmer is factory set for the insertion of a Cardin standard receiver card.
For more information turn to page 192

PRG230M2

CARDIN PRO SERIES BL

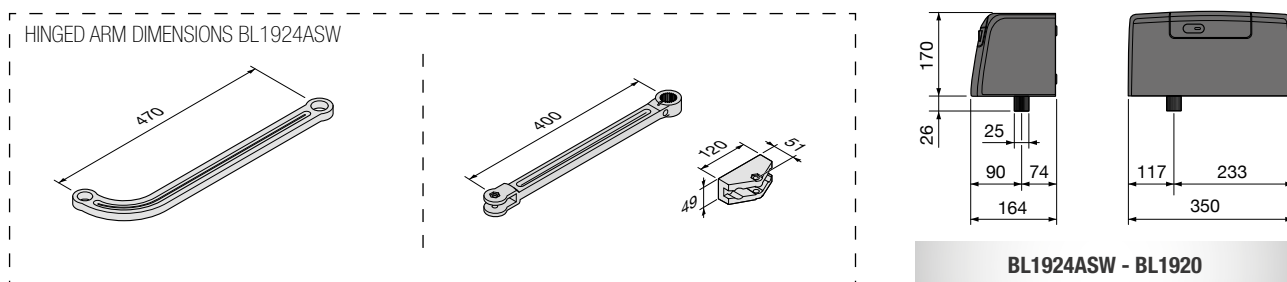


TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

Motor power supply	V	BL1924ASW	24 Vdc	BL1920	230 Vac
Electrical input	A		2		1,3
Power input	W		60		290
Duty cycle	%		70		25
Opening time 90°	s		12,5		15
Maximum opening angle	°		130		130
Maximum torque	Nm		170		270
Protection grade	IP		44		44

DIMENSIONS D'ENCOMBREMENT

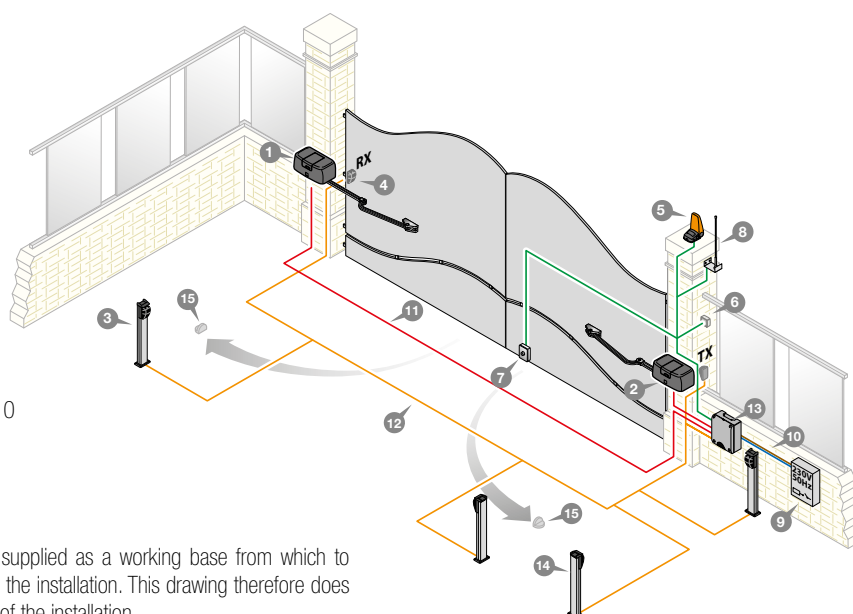


INSTALLATION EXAMPLE

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 230 Vac
- 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 KIT FOR SWING GATES



CARDIN PRO SERIES BL

A complete 24V automatic device for swing-to gates with two gate leaves. The system is made up of two operator arms and a separate programmer with a multi-decoding module S449-S486-S504-S508, 433 MHz receiver card, battery charger and NiMH batteries and a slave unit powering the second hinged gate.

Particularly suited for installations with oversize columns where the hinges are not aligned to the edge of the column.

For gates: maximum length 2 m, maximum weight 150 kg.

The extremely robust cast aluminium operator arms are fitted with self-lubricating 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 with backlighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 150 kg.



K-BL1924ASW

PACKING
DIMENSIONS: 1083 x 235 x 199
GROSS WEIGHT: 26,5 kg
ITEMS PER PALLET: 35 pcs



CARDIN PRO SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BL1924ASW**

2 SELF-LOCKING OPERATOR ARMS

with a 24 V encoder-controlled motor and die cast aluminium operator arms with self-lubricating joints.

BL1924ASW



ELECTRONIC PROGRAMMER

with a 433 MHz "FM" receiver, battery charger and NiMH batteries, housed in an IP55 box with sealing gaskets and cable gland entry holes for the insertion of Ø16 mm rigid tubes. See page 190

CC242ETOPCB



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



10-METRE WIRING CABLE

with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



COMPLETE KIT FOR SWING GATES



CARDIN PRO SERIES BL

A complete 230V automatic device for swing-to gates with two gate leaves. The system is made up of two operator arms and a separate programmer with a 433 MHz S504 receiver card.

Particularly suited for installations with oversize columns where the hinges are not aligned to the edge of the column. For gates: maximum length 2 m, maximum weight 150 kg.

The extremely robust cast aluminium operator arms are fitted with self-lubricating joints for all applications and are able to drive hinged gates with different constructive characteristics.

The outdoor electronic programmer IP55 is 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.

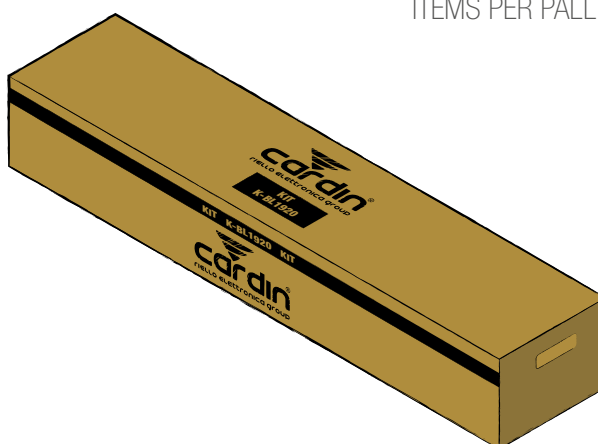
Digital work time control separately memorised for each gate leaf is guided by a 6-digit display. Possible operation without mechanical travel limits. Torque setting. Maximum power initial thrust control, torque limitation and deceleration management with deceleration zone control.

For gates max. 150 kg.



K-BL1920

PACKING
DIMENSIONS: 1083 x 235 x 199
GROSS WEIGHT: 26 kg
ITEMS PER PALLET: 35 pcs



CARDIN PRO SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BL1920**

2 SELF-LOCKING OPERATOR ARMS

with a 230V motor and die cast aluminium operator arms with self-lubricating joints.

BL1920



ELECTRONIC PROGRAMMER

for two 230V motors. The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card.

PRG230M2



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



2-CHANNEL RECEIVER CARD

433 MHz "FM".

RSQ504C2



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



SELF-PROGRAMMING AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES BL STEALTH

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

Installation is facilitated and the geared motor is well anchored by the special practical cast aluminium wall (or column) bracket which allows all types of fitting.

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 use of direct current motors increase the performance, guarantee 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 electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

Compatible with the PRG-LINK system that allows the monitoring and programming of system parameters from remote positions.

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.



MANUAL RELEASE PROTECTED BY
A PERSONALISED KEY



MANUAL RELEASE
LOCKING -UNLOCKING LEVER



ALUMINIUM OPERATOR ARMS



ROBUST CARTER IN SHOCK-
PROOF MATERIAL



IN-BUILT ELECTRONIC
PROGRAMMER

SLIDING GATES

CARDIN TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

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

Kit battery charger + batteries to be ordered separately.

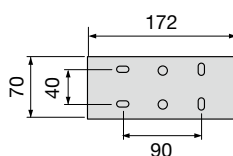
Particularly suited for installations with narrow columns that require the mounting base to be less than 180 mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5 m with an electric lock), 200 kg maximum weight.

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

Operator arm included.



BL STEALTH



FASTENING BASE
SPARE PARTS NUMBER 999750



SELF-LOCKING SLAVE UNIT

driving the second gate.

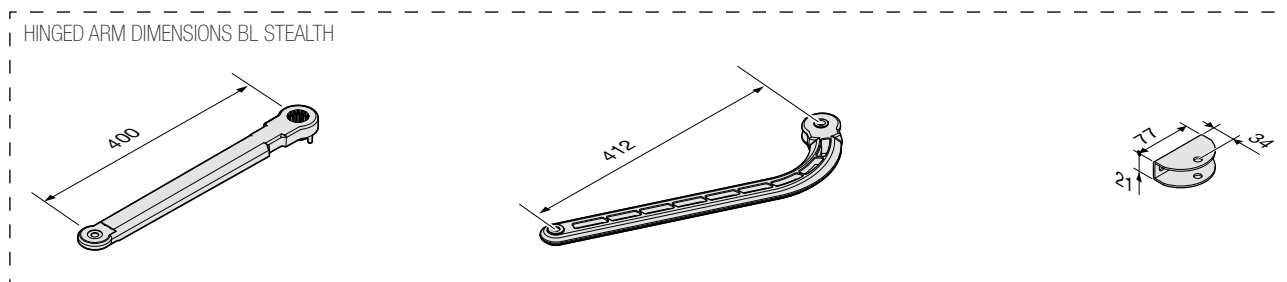
Operator arm included.



BL STEALTHS



OVERALL DIMENSIONS



For the electric locks see page 181.

CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

BATTERY CHARGER 24 V

for use with 24 V programmers.

EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

CB24

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



For the electric locks see page 181.

CARDIN TRADE SERIES BL



TECHNICAL DATA

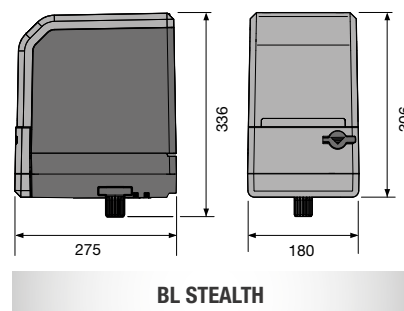
OPERATOR ARM TECHNICAL SPECIFICATIONS

Motor power supply	Vdc	24
Nominal electrical input	A	3
Power input	W	50
Duty cycle	%	70
Opening time 90°	s	13
Maximum opening angle	°	120
Maximum torque	Nm	250
Protection grade	IP	54

ELECTRONIC PROGRAMMER TECHNICAL DATA

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
Class II device	Cls	

BL STEALTH



OPTIONAL RECEIVER CARD

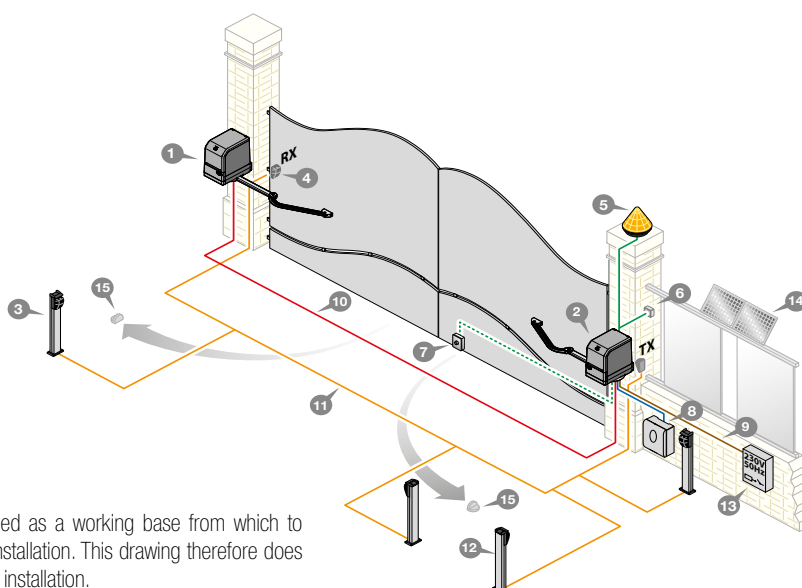
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

INSTALLATION EXAMPLE

LEGEND

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



CARDIN TRADE SERIES BL STEALTH

A complete 24V automatic device for swing-to gates with two gate leaves. The system is made up of a Master unit with an incorporated electronic programmer and an open collector receiver card and a slave unit powering the second hinged gate and is available in the warehouse in the following version:

- K-BL STEALTH with an RSQ4490C2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

Particularly suited for installations with narrow columns that require the mounting base to be less than 180 mm 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 (2,5 m with an electric lock), 200 kg maximum weight.

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 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.

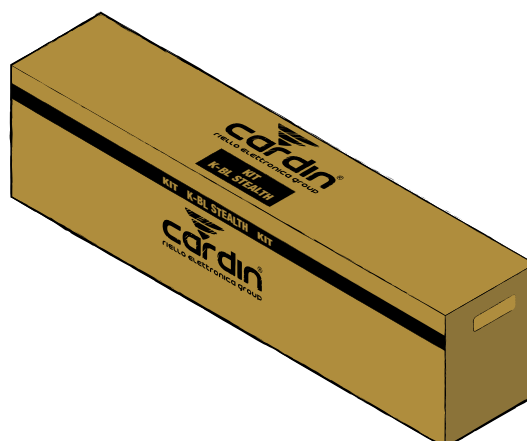
Compatible with the PRG-LINK system that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 200 kg.



K-BL STEALTH

PACKING
DIMENSIONS: 920 x 190 x 280
GROSS WEIGHT: 20 kg
ITEMS PER PALLET: 12 pcs



CARDIN TRADE SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BL STEALTH**

SELF-LOCKING Master UNIT

with a 24 V motor

In-built electronic programmer with an incorporated open collector receiver card

BL STEALTH



SELF-LOCKING SLAVE UNIT

driving the second gate.

BL STEALTHS



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.

S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

APRO



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

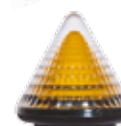
VEDO 180



LED WARNING LIGHT

24V - 230V with an in-built aerial

LACO LED 24-230



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



LIGHT AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES BL TEN

Reversible electromechanical operators with a 12 V motor suitable for fitting to single or double hinged gates with opening to the left or to the right of the passageway.

These appliances are the ideal solution for domestic automated gates with small size columns from 100 mm and where the hinges are not aligned to the edge of the column. Maximum gate weight 170 kg.

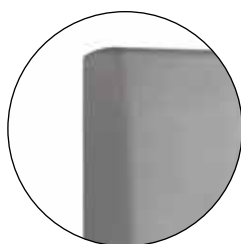
The rapid opening time from 5 to 8 seconds reduces the time waiting for the gate to open and makes this automation perfect for pedestrian and very light residential gates.

The automation is made up of one or two operator arms managed by a Cardin external programmer in a shock-proof and watertight box IP55.

Gate position is encoder-controlled and self-programming with the help of mechanical travel limits 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.

The cast aluminium operator arms adapt easily to every type of residential installations.



SHOCKPROOF CASING



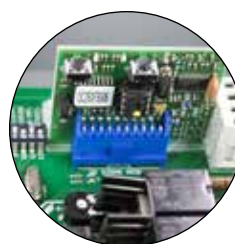
ALUMINIUM OPERATOR ARMS



STAINLESS STEEL PINION



METAL FASTENING BASE



ELECTRONIC PROGRAMMER WITH
OPTIONAL OPEN COLLECTOR CARD

SLIDING GATES

CARDIN TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL UNIT WITH A 12 V MOTOR

Encoder-controlled reversible operator:

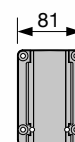
- operator arm included;
- Cardin electronic programmer E124 (only available solution) to be ordered separately;
- rapid opening time 5 s.

The automation is particularly indicated for pedestrian gates with small size columns from 100 mm and gates up to 1,2 m long, maximum weight 100 kg.

An electric lock must be fitted to guarantee that the gate is locked in the closed position



BL TEN1



FASTENING BASE

ELECTROMECHANICAL UNIT WITH A 12 V MOTOR

Encoder-controlled reversible operator:

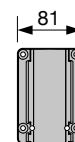
- operator arm included;
- Cardin electronic programmer E224 (only available solution) to be ordered separately;
- rapid opening time 8 s.

The automation is particularly indicated for light domestic gates with small size columns from 100 mm and gates up to 1,5 m long, maximum weight 170 kg.

An electric lock must be fitted to guarantee that the gate is locked in the closed position



BL TEN2



FASTENING BASE

For the electric locks see page 181.

CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMER

for one 12 V encoder-controlled motor complete with speed regulation and deceleration. Factory set for the insertion of an open collector receiver card.

E124



ELECTRONIC PROGRAMMER

for two 12 V encoder-controlled motors complete with speed regulation, and deceleration. Factory set for the insertion of an open collector receiver card.

E224



BATTERIES WITH SUPPORT BOX

Battery charger, two 12V 2Ah batteries with supports for fixing the batteries to the cover of the electronic programmer complete with wiring cable.

SPB24M



BATTERY CHARGER

for use with 24 V programmers.

CB24



POWER SUPPLY KIT

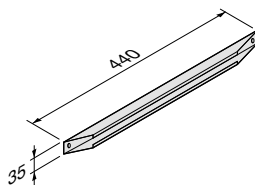
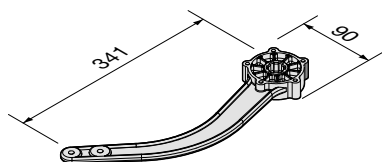
Solar panels for use with all 24 Vdc automation.

SUNPOWER

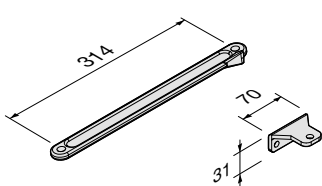
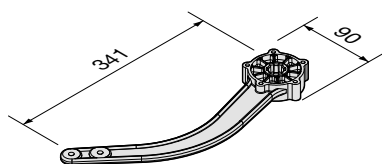


OVERALL DIMENSIONS

STRAIGHT ARM DIMENSIONS BL TEN1



STRAIGHT ARM DIMENSIONS BL TEN2



SWING GATES

CARDIN TRADE SERIES BL



TECHNICAL DATA

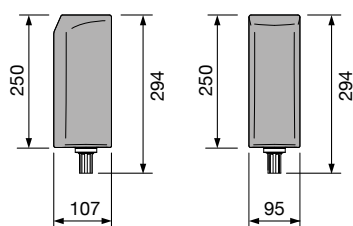
OPERATOR ARM TECHNICAL SPECIFICATIONS

Motor power supply	Vdc	12	12
Electrical input	A	4	4
Power input	W	60	60
Duty cycle	%	90	90
Opening time 90°	s	5	8
Maximum opening angle	°	100	110
Maximum torque	Nm	70	70
Protection grade	IP	44	44

ELECTRONIC PROGRAMMER TECHNICAL DATA

Power supply	Vac	230	230
Nominal electrical input	A	1,2	1,2
Maximum power yield	W	250	250
Operating temperature range	°C	-20°...+55	-20°...+55
Protection grade	IP	55	55

OVERALL DIMENSIONS

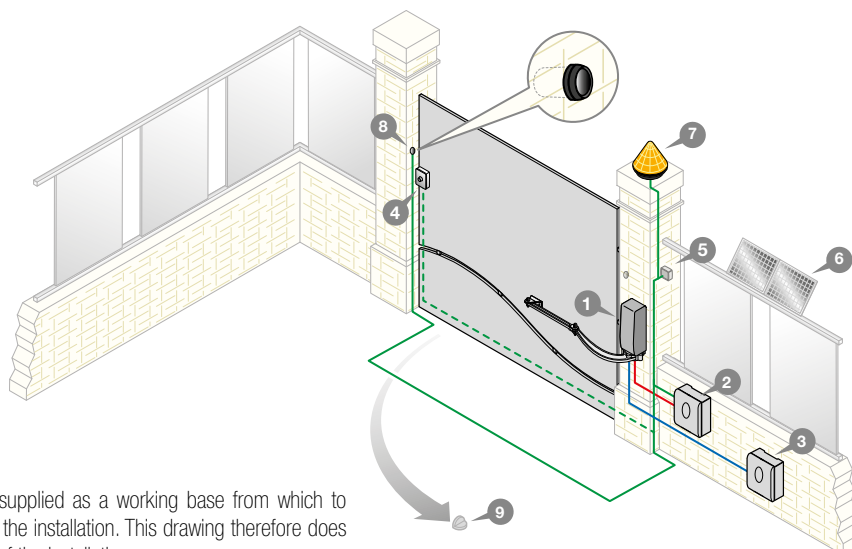


BL TEN1 - BL TEN2

INSTALLATION EXAMPLE

LEGEND

- 1 Geared motor
- 2 Electronic programmer
- 3 Sun power
- 4 Electric lock
- 5 Mechanical selector switch
- 6 Solar panels
- 7 Warning lights with aerial
- 8 Photocells with minute optical sensors
- 9 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.

LIGHT AUTOMATION KIT FOR SWING GATES



CARDIN TRADE SERIES BL TEN

Light automation kit with 12 V motors suitable for fitting to single (pedestrian) or double residential gates controlled by a separate programmer complete with an open collector receiver card and a 4-channel S449 transmitter.

Available in the following versions:

- K-BL TEN1 kit with one operator arm particularly indicated for pedestrian gates with small size columns from 100 mm and gates up to 1,2 m long, maximum weight 100 kg.
- K-BL TEN2 kit with two operator arms particularly indicated for light domestic gates with small size columns from 100 mm and gates up to 1,5 m long, maximum weight 170 kg.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

The rapid opening time from 5 to 8 seconds reduces the time waiting for the gate to open and makes this automation perfect for pedestrian and very light residential gates.

The cast aluminium operator arms adapt easily to every type of residential installations.

Gate position is encoder-controlled and self-programming with the help of mechanical travel limits 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.

Compatible with the SUN POWER system.

The kits contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 170 kg.

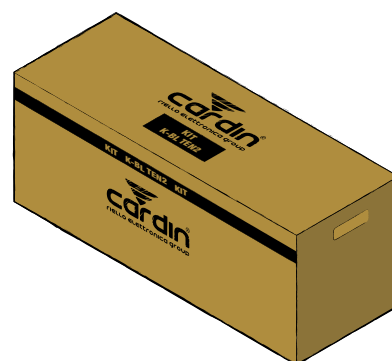


K-BL TEN1

DIMENSIONS: 450 x 350 x 200
GROSS WEIGHT: 8,5 kg
ITEMS PER PALLET: 25 pcs

K-BL TEN2

DIMENSIONS: 720 x 260 x 330
GROSS WEIGHT: 13 kg
ITEMS PER PALLET: 16 pcs



CARDIN TRADE SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BL TEN1**

1 REVERSIBLE HINGED OPERATOR ARM FOR PEDESTRIAN GATES
with a 12 V encoder-controlled motor, hinged operator arm and a sliding guide in cast aluminium.

BL TEN1



ELECTRONIC PROGRAMMER
for one 12 V encoder-controlled motor complete with speed regulation and deceleration

E124



2-CHANNEL RECEIVER CARD
433 MHz open collector, slot-in card.
S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER
433 MHz "FM" "ROLLING CODE".

TXQ449400



KIT DESCRIPTION

ORDER NUMBER **K-BL TEN2**

**2 REVERSIBLE HINGED OPERATOR ARM FOR DOMESTIC GATES
UP TO 1,5 m**
with a 12 V encoder-controlled motor and 2 hinged operator arms in cast aluminium.

BL TEN2



ELECTRONIC PROGRAMMER
for one 12 V encoder-controlled motors complete with speed regulation and deceleration.

E224



2-CHANNEL RECEIVER CARD
433 MHz open collector, slot-in card.
S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER
433 MHz "FM" "ROLLING CODE".

TXQ449400



WORM SCREW AUTOMATION FOR SWING GATES

CARDIN PRO BL
ELECTROMECHANICAL RAMS



PAGE 94

CARDIN TRADE BL
ELECTROMECHANICAL RAMS



PAGE 100



WORM SCREW AUTOMATION FOR SWING GATES



CARDIN PRO 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 PRO SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 24 V 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 2,5 m, maximum weight 200 kg.

2,5m
max

110°
max

200
kg

BLEGOS



ELECTROMECHANICAL RAM WITH A 24 V 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 3,5 m (4 m with an electric lock) maximum weight 300 kg.

4m
max

110°
max

300
kg

BLESOL



For the electric locks see page 181.

CARDIN PRO SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

OPTIONAL BRACKETS

front and rear brackets in galvanised steel.

BLSTAE



SELF-PROGRAMMING ECU FOR BLEGOS/BLESOL

Programmer for the management of two encoder-controlled motors.

Power supply 230 Vac.

Motor power supply 24 Vdc.

Maximum power yield 250 W.

Fitted with a multi-decoding module S449-S486-S504-S508.

Compatible with the NTPRG-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 190

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 196.

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

10 m CABLE

with end sleeves.

CABPC10



SWING GATES

CARDIN PRO SERIES BL



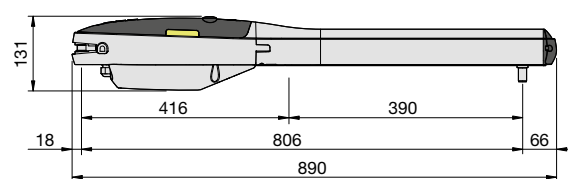
TECHNICAL DATA

RAM SPECIFICATIONS

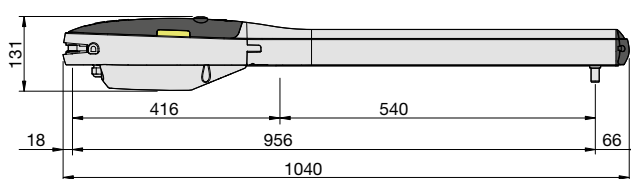
Motor power supply
Electrical input
Power input
Thrust
Travel distance (worm screw)
Duty cycle
Opening time 90°
Maximum opening angle
Protection grade

	BLEGOS	BLESOL
Vdc	24	24
A	2	2
W	60	60
N	1500	2000
mm	350	500
%	70	70
s	15	20
°	110	110
IP	44	44

OVERALL DIMENSIONS



BLEGOS



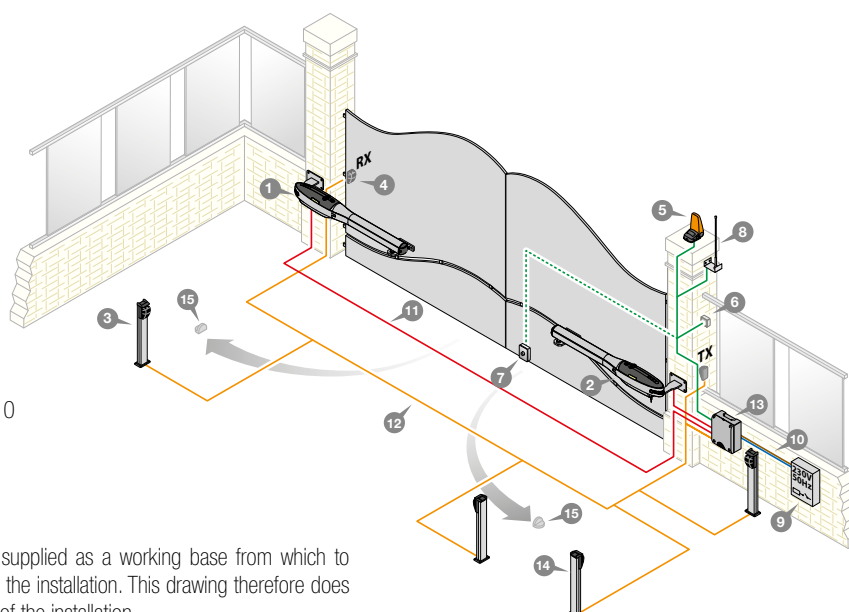
BLESOL

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 230 Vac
- 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 KIT FOR SWING GATES



CARDIN PRO SERIES BL

A complete automatic device with a 24 V motor for swing-to gates with two gate leaves, the system is made up of two linear and compact rams and a separate programmer with a multi-decoding module S449-S486-S504-S508, 433 MHz receiver, battery charger and NiMH batteries.

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.

For gates with a maximum length of 2,5 m, maximum weight 200 kg.

The electronic programmer is factory fitted with a graphic LCD display with backlighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 200 kg.



K-BLEGOS



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

CARDIN PRO SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BLEGOS**

2 SELF-LOCKING ELECTROMECHANICAL RAMS

with a 24 V encoder-controlled motor.

BLEGOS



ELECTRONIC PROGRAMMER

with a 433 MHz "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 Ø16 mm rigid tubes.

See page 190

CC242EXTOPCB



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



10-METRE WIRING CABLE

with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



WORM SCREW AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES BL ASY

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.



ADJUSTABLE BRACKETS



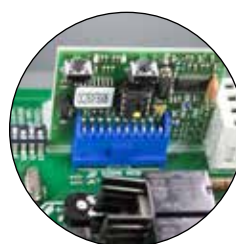
PERSONALISED KEY



SHOCKPROOF STRUCTURE



WORM SCREW SYSTEM



ELECTRONIC PROGRAMMER WITH
OPTIONAL OPEN COLLECTOR CARD

CARDIN TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 24 V MOTOR

Self-locking encoder-controlled ram with an opening direction mechanical travel limit. 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 3 m, max. weight 250 kg.



BL ASY324



ELECTROMECHANICAL RAM WITH A 24 V MOTOR

Self-locking encoder-controlled ram with an opening direction mechanical travel limit. 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 5 m, max. weight 300 kg.



BL ASY524



ELECTROMECHANICAL RAM WITH A 24 V MOTOR

Reversible encoder-controlled ram with an opening direction mechanical travel limit. 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 5 m, max. weight 300 kg.



BL ASY524REV



For the electric locks see page 181.

CARDIN TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 230V MOTOR

Self-locking encoder-controlled ram with an opening direction mechanical travel limit. 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 3 m, max. weight 250 kg.



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Reversible encoder-controlled ram with an opening direction mechanical travel limit. 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 3 m, max. weight 250 kg.



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Self-locking encoder-controlled ram with an opening direction mechanical travel limit. 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 5 m, max. weight 300 kg.



ELECTROMECHANICAL RAM WITH A 230V MOTOR

Reversible encoder-controlled ram with an opening direction mechanical travel limit. 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 5 m, max. weight 300 kg.



For the electric locks see page 181.

BL ASY3



BL ASY3REV



BL ASY5



BL ASY5REV



SWING GATES

CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

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 3 m gates.

FCAS



for 5 m gates.

FCAL



CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

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 24 V encoder-controlled motors complete with speed regulation (with PRG LINK) and deceleration. Factory set for the insertion of an open collector receiver card.

T624

BATTERY CHARGER 24 V

for use with 24 V programmers.

CB24

EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



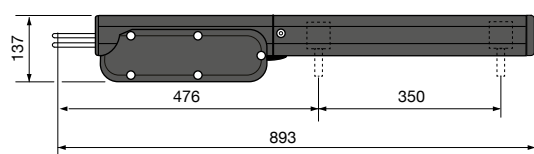
CARDIN TRADE SERIES BL



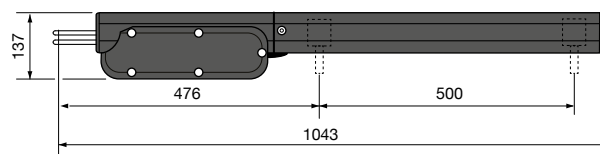
TECHNICAL DATA

RAM SPECIFICATIONS		BL ASY324	BL ASY3	BL ASY3REV	BL ASY524	BL ASY524REV	BL ASY5	BL ASY5REV
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	2200	1900	1900	2200	2200
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	20	25	25	25	25	30	30
Maximum opening angle	°	110	110	110	110	110	110	110
Protection grade	IP	44	44	44	44	44	44	44

OVERALL DIMENSIONS



BL ASY324 - BL ASY3 - BL ASY3REV

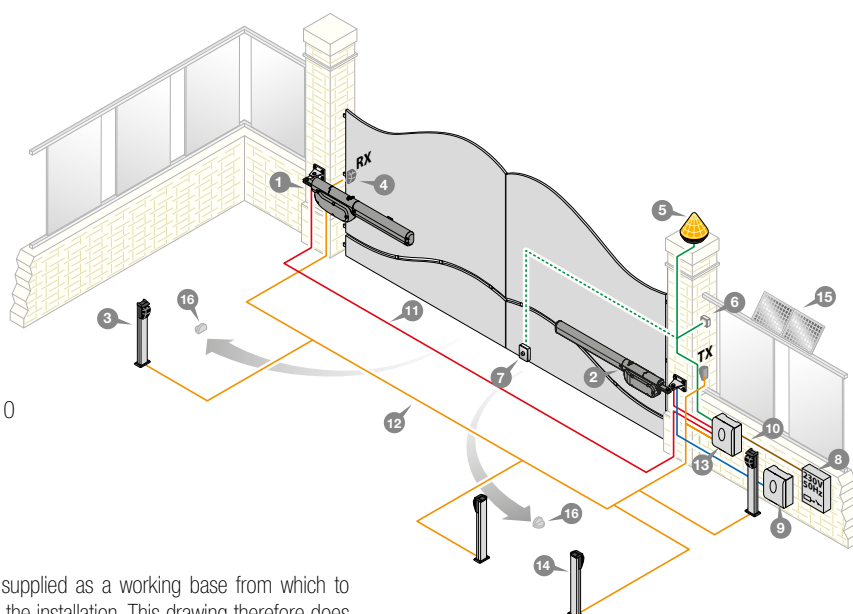


BL ASY524 - BL ASY524REV - BL ASY5 - BL ASY5REV

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 230 Vac
- 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.

COMPLETE KIT FOR SWING GATES



CARDIN TRADE SERIES BL ASY

A complete automatic device with a 24 V motor for swing gates with two gate leaves, the system is made up of two linear and compact rams, separate programmer complete with an open collector receiver card and a 4-channel S449 transmitter and is available in the warehouse in the following version:

- K-BLASY324 with an RSQ449OC2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

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.

For gates with a maximum length of 3 m, maximum weight 250 kg.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

The T624 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, electric lock etc.

Compatible with the PRG-LINK system that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 200 kg.



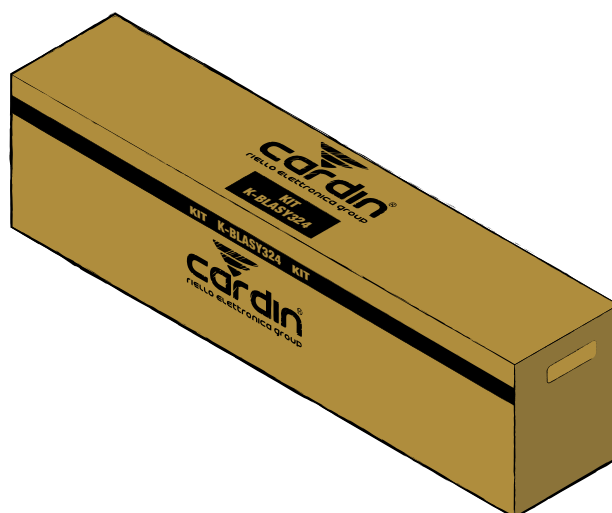
K-BLASY324

PACKING

DIMENSIONS: 920 x 190 x 280

GROSS WEIGHT: 24 kg

ITEMS PER PALLET: 9 pcs



CARDIN TRADE SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BLASY324**

2 SELF-LOCKING ELECTROMECHANICAL RAMS

with a 24 V encoder-controlled motor and an opening direction mechanical travel limit.

BL ASY324



ELECTRONIC PROGRAMMER

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

T624



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.

S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

APRO



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

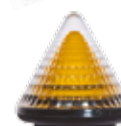
VEDO 180



LED WARNING LIGHT

24V - 230V with an in-built aerial

LACO LED 24-230



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



COMPLETE KIT FOR SWING GATES



CARDIN TRADE SERIES BL ASY

A complete automatic device with a 230V motor for swing gates with two gate leaves, the system is made up of two linear and compact rams, separate programmer complete with an open collector receiver card and a 4-channel S449 transmitter and is available in the warehouse in the following version:

- K-BLASY3 with an RSQ449OC2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

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.

For gates with a maximum length of 3 m, maximum weight 250 kg.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

The T600 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 PRG-LINK system that allows you to control and program the system parameters from a remote location.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 250 kg.



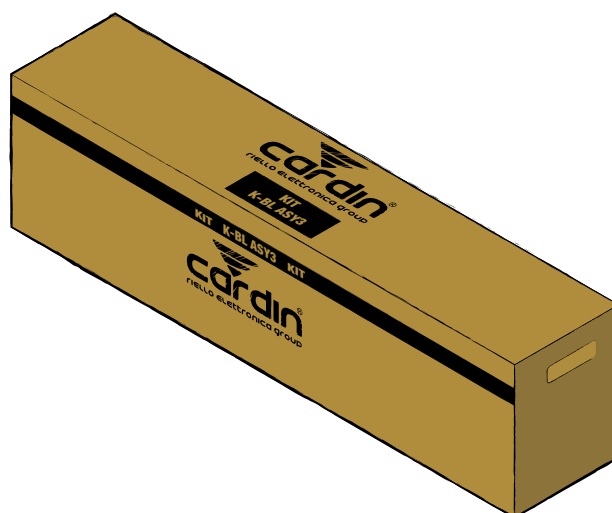
K-BLASY3

PACKING

DIMENSIONS: 920 x 190 x 280

GROSS WEIGHT: 24 kg

ITEMS PER PALLET: 9 pcs



CARDIN TRADE SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BLASY3**

2 SELF-LOCKING ELECTROMECHANICAL RAMS

with a 230V encoder-controlled motor and an opening direction mechanical travel limit.

BL ASY3



ELECTRONIC PROGRAMMER

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

T600



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.

S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



OUTDOOR KEY-OPERATED SWITCH

with open - close functions.

APRO



PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS

with adjustable lens, range 25 m.

VEDO 180



LED WARNING LIGHT

24V - 230V with an in-built aerial

LACO LED 24-230



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



LIGHT WORM SCREW AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES BL TAG

These electromechanical rams with 24 Vdc 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 TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL RAM WITH A 24 V 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 2 m, max. weight 150 kg.

2m
max

100°
max

150
kg

BL TAGDX



ELECTROMECHANICAL RAM WITH A 24 V 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 2 m, max. weight 150 kg.

2m
max

100°
max

150
kg

BL TAGSX



For the electric locks see page 181.

CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMER

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

T624



BATTERIES WITH SUPPORT BOX

Battery charger, two 12V 2Ah batteries with supports for fixing the batteries to the cover of the electronic programmer complete with wiring cable.

SPB24M



BATTERY CHARGER

for use with 24 V programmers.

CB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



CARDIN TRADE SERIES BL



TECHNICAL DATA

RAM SPECIFICATIONS

Motor power supply
Nominal electrical input
Power input
Duty cycle
Opening time 90°
Maximum opening angle
Maximum thrust
Protection grade

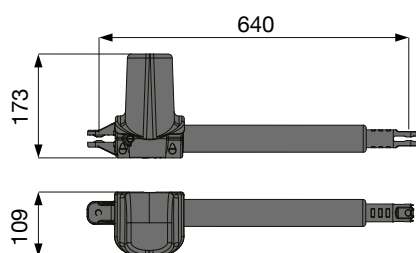
Vdc
A
W
%
s
°
N
IP

BL TAGDX

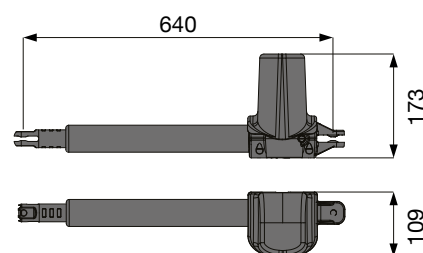
24
3
70
70
18
100
1500
44

BL TAGSX

24
3
70
70
18
100
1500
44



BL TAGSX

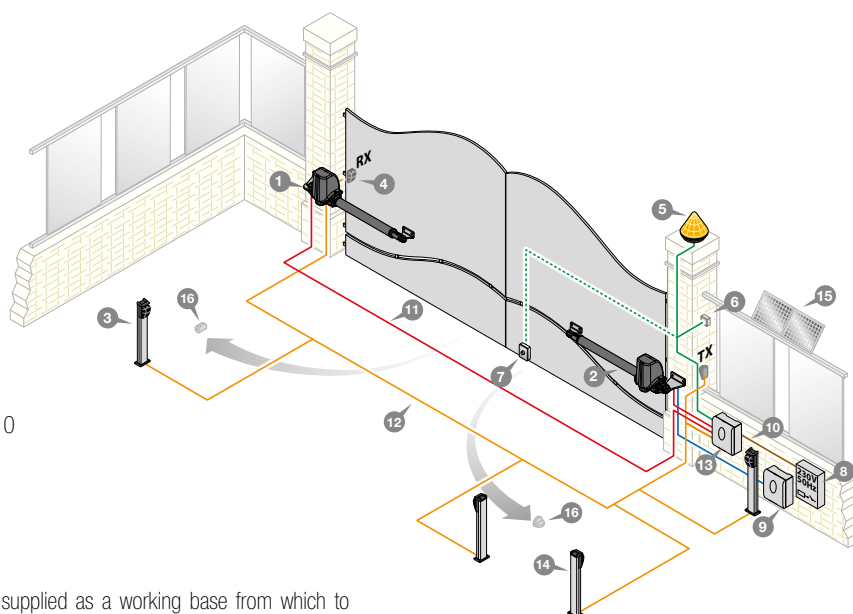


BL TAGDX

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 230 Vac
- 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.

LIGHT AUTOMATION KIT FOR SWING GATES



CARDIN TRADE SERIES BL TAG

A light automation kit with a 24 V motor suitable for small residential installations with two swing gate leaves, the system is made up of two linear right and left fitting rams and a separate programmer complete with an open collector receiver card and a 4-channel S449 transmitter and is available in the warehouse in the following version:

- K-BL TAG with an RSQ449OC2 slot-in receiver card.

Open collector receiver cards for the series S504 - S508 - S486 - FM - EDGE and NOIRE are available on request.

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.

For gates with a maximum length of 2 m, maximum weight 150 kg.

Thanks to an encoder based system in-built into the automation the position of the gate is accurately controlled. Rapid installation and set up times, maximum efficiency and reliability for a top of the line "automation solution".

The T624 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.

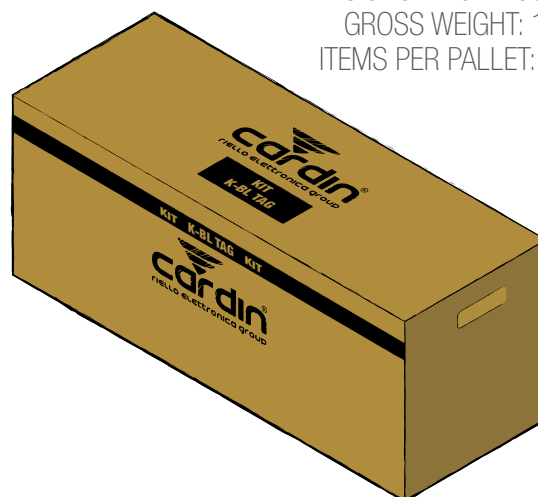
Compatible with the PRG-LINK system that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

The kit contains all the command, control and safety devices required to carry out a residential installation with maximum gate weight 150 kg.



K-BL TAG

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



CARDIN TRADE SERIES BL



KIT DESCRIPTION

ORDER NUMBER **K-BL TAG**

2 SELF-LOCKING ELECTROMECHANICAL RAMS

with a 24 V encoder-controlled motor.

BL TAGDX

BL TAGSX



ELECTRONIC PROGRAMMER

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

T624



2-CHANNEL RECEIVER CARD

433 MHz open collector, slot-in card.

S504 - S508 - S486 - FM - EDGE and NOIRE versions are available on request.

RSQ4490C2



1 4-CHANNEL TRANSMITTER

433 MHz "FM" "ROLLING CODE".

TXQ449400



HYDRAULIC WORM SCREW AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES BL 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).

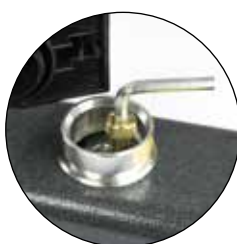
In case of blackouts, emergency manoeuvring is guaranteed (in the self-locking versions) by a practical manual release system protected by a personalised key that is efficient under all working conditions.



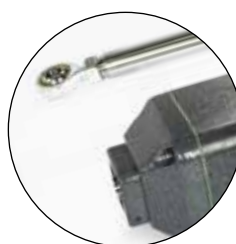
STAINLESS STEEL REAR BRACKET



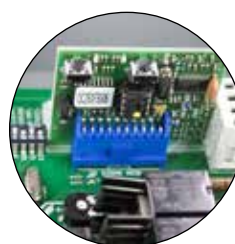
PERSONALISED KEY



MANUAL RELEASE USING
AN ALLEN KEY



WORM SCREW SYSTEM



ELECTRONIC PROGRAMMER WITH
OPTIONAL OPEN COLLECTOR CARD

CARDIN TRADE SERIES BL



PRODUCT DESCRIPTION

ORDER NUMBER

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.

Standard version for gates max. length 2.5 m, max. weight 350 kg.



2,5m
max

105°
max

350
kg

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.

Standard version for gates max. length 2.5 m, max. weight 350 kg.



2,5m
max

105°
max

350
kg

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 4,5 m, max. weight 500 kg.



4,5m
max

105°
max

500
kg

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 4,5 m, max. weight 500 kg.



4,5m
max

105°
max

500
kg

BL BLUES3



BL BLUES3R



BL BLUES5



BL BLUES5R



For the electric locks see page 181.

CARDIN TRADE SERIES BL



ACCESSORY DESCRIPTION

ORDER NUMBER

BRACKETS

front and rear brackets in galvanised steel.

BLSTAE



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



CARDIN TRADE SERIES BL

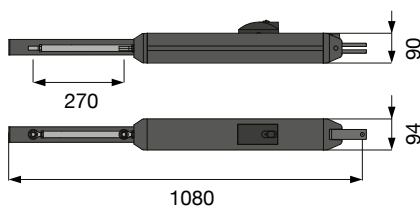


TECHNICAL DATA

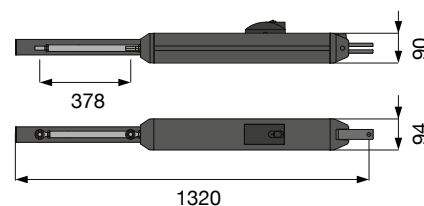
OPERATOR ARM TECHNICAL SPECIFICATIONS

		BL BLUES3	BL BLUES3R	BL BLUES5	BL BLUES5R
Motor power supply	Vac	230	230	230	230
Nominal electrical input	A	1,2	1,2	1,2	1,2
Power input	W	280	280	280	280
Duty cycle	%	70	70	70	70
Opening time 90°	s	18	18	30	30
Maximum opening angle	°	105	105	105	105
Thrust	N	3000	3000	3000	3000
Protection grade	IP	56	56	56	56

OVERALL DIMENSIONS



BL BLUES3 - BL BLUES3R



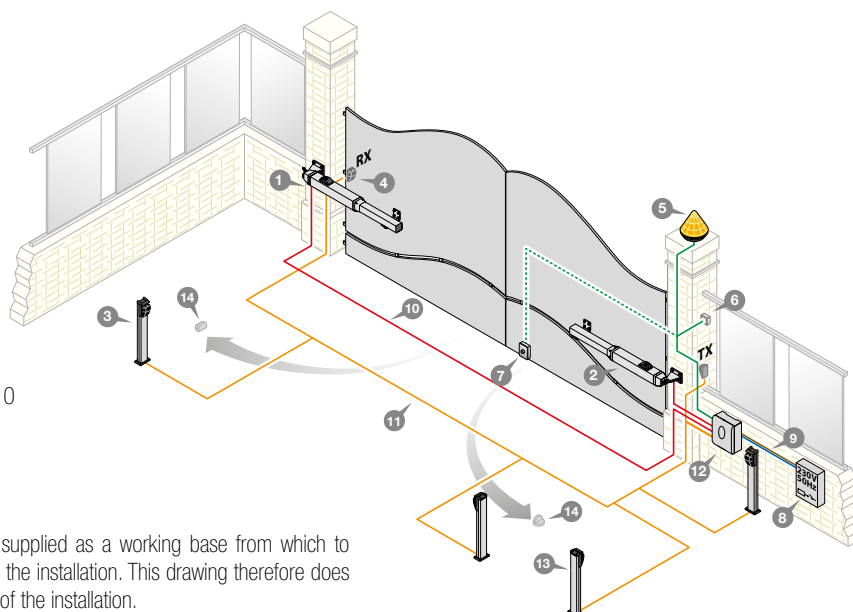
BL BLUES5 - BL BLUES5R

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 230 Vac
- 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.



UNDERGROUND AUTOMATION FOR SWING GATES

CARDIN PRO HL
UNDERGROUND AUTOMATION



PAGE 122

CARDIN TRADE HL MOLE
UNDERGROUND AUTOMATION



PAGE 130







UNDERGROUND AUTOMATION FOR SWING GATES



CARDIN PRO 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 for 1 or 2 230V motors;
- CC242ETOPCB - CC242EXTOPCB for 1 or 2 24 V motors;

On the 24 V 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
VERSIONS HL2524ESB - HL1824ESB

CARDIN PRO SERIES HL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL OPERATOR WITH A 24 V MOTOR FOR GATES WITH A 110° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

- fitted with a crank rod transmission system;
- embedding case, Cardin electronic programmer and connection cable to be ordered separately.



HL2524ESB



ELECTROMECHANICAL OPERATOR WITH A 24 V MOTOR FOR GATES WITH A 180°-360° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

- fitted with a chain driven transmission system (chain kit included);
- embedding case, Cardin electronic programmer and connection cable to be ordered separately.



HL1824ESB



ELECTROMECHANICAL OPERATOR WITH A 230V MOTOR FOR GATES WITH A 110° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

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



HL251CL



ELECTROMECHANICAL OPERATOR WITH A 230V MOTOR FOR GATES WITH A 180°-360° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

- fitted with a chain driven transmission system (chain kit included);
- supplied with a 6 m connection cable;
- embedding case and Cardin electronic programmer to be ordered separately.



HL2518CL



For the electric locks see page 181.

CARDIN PRO SERIES HL



ACCESSORY DESCRIPTION

ORDER NUMBER

EMBEDDING CASES

in steel complete with connection lever and adjustable mechanical travel limits. Hot dip galvanized anti rust treatment (HLBOX). Structure completely in stainless steel (HLBOXI).

Both versions are fitted with a stainless steel cover.

HLBOX

HLBOXI



ACCESSORY FOR 360° OPENING

ACCHL360



MANUAL RELEASE

Release mechanism with a personalised key.

SBLHL



MANUAL RELEASE

Lever activated release mechanism.

SBLSHL



MANUAL RELEASE

Release mechanism with a personalised key included in the embedding case lever unit.

SBLXHL



SELF-PROGRAMMING ECU FOR HL2524ESB- HL1824ESB

Programmer for the control of two encoder controlled 24V motors 24V.

Fitted with a multi-decoding module S449-S486-S504-S508.

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

For more information turn to page 190

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 196.

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



10 m CABLE

with end sleeves for HL2524ESB - HL1824ESB.

CABPC10



SELF-PROGRAMMING ECU FOR HL251CL - HL2518CL

Programmer for the control of two motors.

Motor power supply 230 Vac.

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 192

PRG230M2



SWING GATES

CARDIN PRO SERIES HL

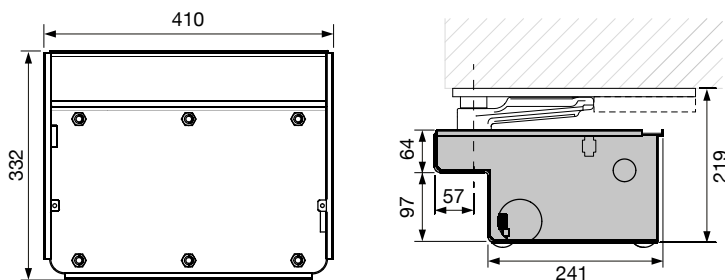


TECHNICAL DATA

OPERATOR SPECIFICATIONS

Motor power supply	V	24 Vdc	230 Vac
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 140°	s	35	30
Opening time 180°	s	44	35
Maximum torque	Nm	170	290
Protection grade	IP	67	67

OVERALL DIMENSIONS

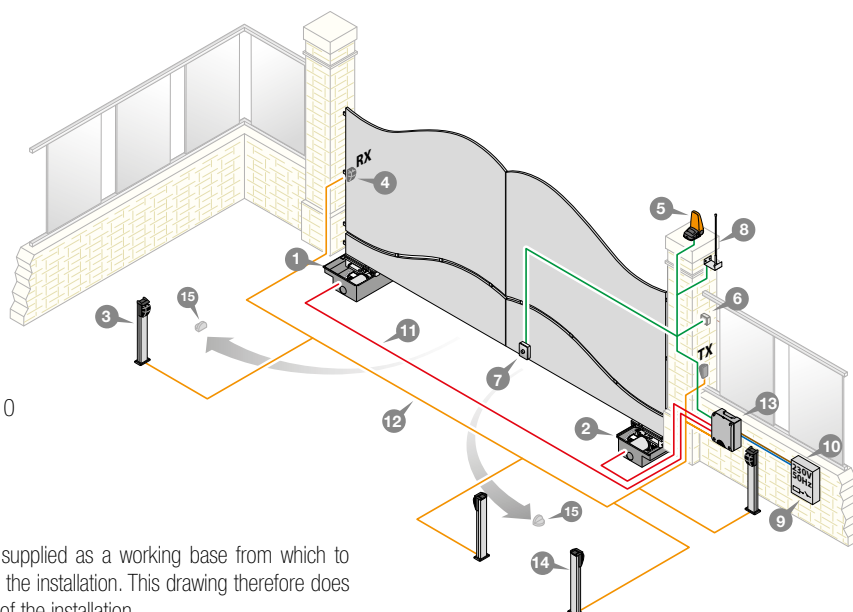


HL2524ESB - HL1824ESB - HL251CL - HL2518CL

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 230 Vac
- 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



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COMPLETE UNDERGROUND AUTOMATION KIT FOR SWING GATES



CARDIN PRO SERIES HL

A complete automatic device with a 24 V motor for large and medium size swing-to gates with two gate leaves, the system is made up of two geared motors, two embedding cases and a separate programmer with a multi-decoding module S449-S486-S504-S508, 433 MHz receiver, battery charger and NiMH batteries.

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 3 m, maximum weight 350 kg.

Complete with a key operated manual release system and a zinc plated lever which uses a ball bearing as its pivoting method. Cover in stainless steel.

The electronic programmer is factory fitted with a graphic LCD display with back-lighting 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. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). 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 NTPRG-3G/WF system that allows the monitoring and programming of system parameters from remote positions.

For gates max. 350 kg.



K-HL2524PSB

PACKING
DIMENSIONS: 720 x 410 x 330
GROSS WEIGHT: 62,9 kg
ITEMS PER PALLET: 5 pcs



CARDIN PRO SERIES HL



KIT DESCRIPTION

ORDER NUMBER **K-HL2524PSB**

2 SELF-LOCKING ELECTROMECHANICAL GEARED MOTORS

with an encoder-controlled 24 V motor..

HL2524ESB



2 STAINLESS STEEL EMBEDDING CASES FOR 110° OPENING

with a stainless steel cover, connection lever and release mechanism with a personalised key.

HLBOX



ELECTRONIC PROGRAMMER

with a 433 MHz "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 Ø16 mm rigid tubes.

See page 190

CC242EXTOPCB



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



10-METRE WIRING CABLE

with end sleeves.

CABPC10



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT

ORDER NUMBER

K-ELEC1

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT

ORDER NUMBER

K-ELEC2

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



COMPLETE UNDERGROUND AUTOMATION KIT FOR SWING GATES



CARDIN PRO SERIES HL

A complete automatic device with a 230V motor for large and medium size swing gates with two gate leaves, the system is made up of two geared motors, two embedding cases and a separate programmer with a 433 MHz S504 receiver card.

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 3 m, maximum weight 550 kg.

Complete with a key operated manual release system and a zinc plated lever which uses a ball bearing as its pivoting method. Cover in stainless steel.

The external programmer IP55 is 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. 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.

For gates max. 550 kg.



K-HL251KS9

PACKING
DIMENSIONS: 720 x 410 x 330
GROSS WEIGHT: 65,1 kg
ITEMS PER PALLET: 5 pcs



CARDIN PRO SERIES HL



KIT DESCRIPTION

ORDER NUMBER **K-HL251KS9**

2 SELF-LOCKING ELECTROMECHANICAL GEARED MOTORS

with a 230V motor. Supplied with a 6 m connection cable.

HL251CL



2 STAINLESS STEEL EMBEDDING CASES FOR 110° OPENING

with a stainless steel cover, connection lever and release mechanism with a personalised key.

HLBOX



ELECTRONIC PROGRAMMER

for two 230V motors. The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card.

PRG230M2



2 4-CHANNEL TRANSMITTERS

433 MHz "FM" "ROLLING CODE".

TXQ504C4



2-CHANNEL RECEIVER CARD

433 MHz "FM".

RSQ504C2



INTERNATIONAL WARNING SIGN

in aluminium, multi-language.

TARGA-INT



ELETTROKIT ORDER NUMBER **K-ELEC1**

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24 V, double LED, timer controlled

MOLLIGHT3



DEDICATED AERIAL

433 MHz

ANS400-MOL



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1



ELETTROKIT ORDER NUMBER **K-ELEC2**

PAIR OF PHOTOCELLS

in class 3 with adjustable lens, range 10 m.

CDR999



LED WARNING LIGHT

24V - 230V adjustable lamp cover

LPXLAMP



AERIAL

433 MHz

ANS400



KEY-OPERATED SWITCH

with open - close functions

SELMEC/E1





UNDERGROUND AUTOMATION FOR SWING GATES



CARDIN TRADE SERIES HL MOLE

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 2-metre long 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. Internally the automation is fitted with highly resistant cast iron helicoidal gears.

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 with the possibility of reaching an opening angle up to 360° (with an optional accessory).

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

- Cardin T600 for 1 or 2 230V motors;
- Cardin T624 for 1 or 2 24 V motors;

On the 24 V model gate position is encoder controlled with the use of mechanical travel limits 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 reversible geared motor guarantees that the gate will remain blocked when closed. The manual emergency movement system is easy to operate using the personalised "locking-unlocking" key or a lever operated system and rearming is automatic.



ANTI-WATER SEAL



STAINLESS STEEL OR HOT DIP
GALVANIZED EMBEDDING CASE



HOT DIPPED FORGED LEVER



ELASTOMER CABLE SHEATH



ROBUST ALUMINIUM
STRUCTURE

CARDIN TRADE SERIES HL



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTROMECHANICAL OPERATOR WITH A 24 V MOTOR FOR GATES WITH A 115° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

- fitted with a crank rod transmission system;
- supplied with a 2 m connection cable;
- embedding case, Cardin electronic programmer and connection cable to be ordered separately.



HL MOLE24



ELECTROMECHANICAL OPERATOR WITH A 230V MOTOR FOR GATES WITH A 115° MAXIMUM OPENING ANGLE

Encoder controlled self-locking operator:

- fitted with a crank rod transmission system;
- supplied with a 2 m connection cable;
- embedding case and Cardin electronic programmer to be ordered separately..



HL MOLE230



EMBEDDING CASES

Case for embedding in steel complete with connection lever and adjustable mechanical travel limits. Hot dip galvanized anti rust treatment (HLBOX). Structure completely in stainless steel (HLBOXI). Both versions are fitted with a stainless steel cover.

HLBOX

HLBOXI



ACCESSORY FOR 360° OPENING

with pinion and chain.

ACCMOLE360



For the electric locks see page 181.

CARDIN TRADE SERIES HL



ACCESSORY DESCRIPTION

ORDER NUMBER

MECHANICAL GATE LOCK

for installations with two gates and a horizontal electric lock.

BLA



MANUAL RELEASE

Release mechanism with a personalised key.

SBLHL



MANUAL RELEASE

Lever activated release mechanism.

SBLSHL



MANUAL RELEASE

Release mechanism with a personalised key included in the embedding case lever unit.

SBLXHL



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 24 V encoder-controlled motors complete with speed regulation (with PRG LINK) and deceleration. Factory set for the insertion of an open collector receiver card.

T624

BATTERY CHARGER 24 V

for use with 24 V programmers.

CB24

EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



SWING GATES

CARDIN TRADE SERIES HL

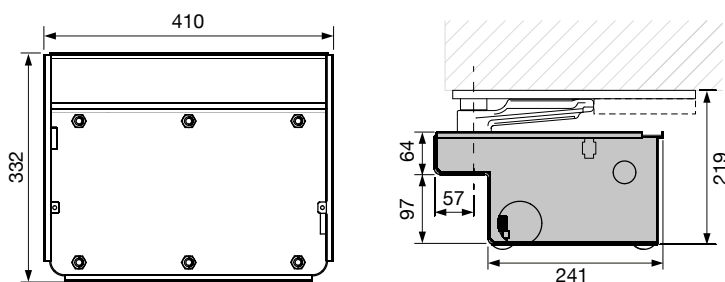


TECHNICAL DATA

OPERATOR SPECIFICATIONS

Motor power supply	V	HL MOLE24	24 Vdc	HL MOLE230	230 Vac
Electrical input	A		5		2
Power input	W		120		370
Duty cycle	%		70		30
Opening time 90°	s		19		19
Opening time 110°	s		23		23
Opening time 180° (with ACCMOLE360)	s		40		40
Maximum torque	Nm		400		500
Protection grade	IP		67		67

OVERALL DIMENSIONS

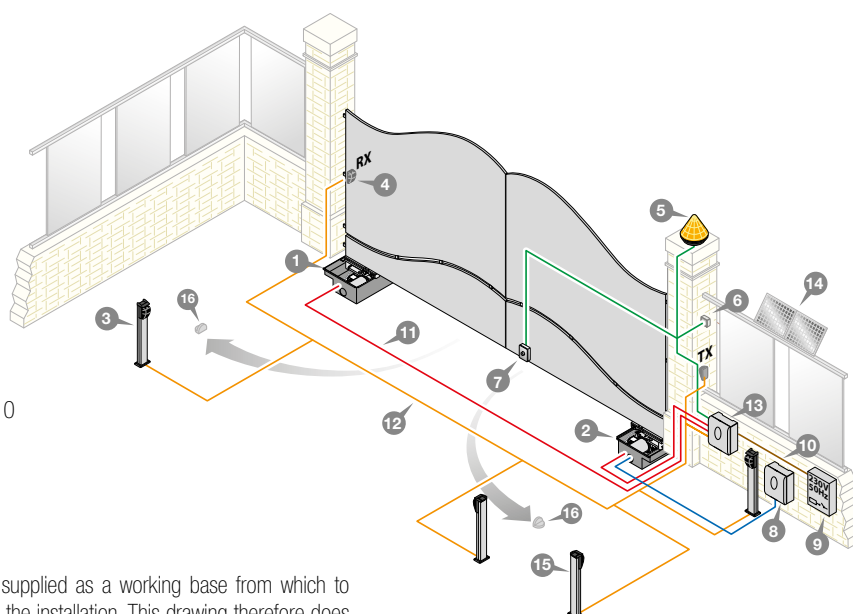


HL MOLE24 - HL MOLE230

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 Sun Power
- 9 All pole circuit breaker
- 10 Mains cable 230 Vac
- 11 Channelling for Cardin connection cable CABPC10
- 12 Channelling route for low voltage wires
- 13 Electronic programmer
- 14 Solar panels
- 15 Lateral protective photocells
- 16 Opening direction stop buffers



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INSIDE AUTOMATION FOR SWING GATES

CARDIN INSIDE
INSIDE AUTOMATION



PAGE 136





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 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 200 kg in weight per gate leaf. For gates longer than 2,5 m 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.

Manual manoeuvre can be activated directly on the geared motor using an Allen key.



CARTER IN SPRAY-PAINTED ALUMINIUM



DIAMETER Ø105



ROTATION ON BEARINGS



CABLE PROTECTION



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

CARDIN INSIDE SERIES BLi



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING BUILD-IN OPERATOR

with a 24 Vdc encoder-controlled motor.
For gates max. 200 kg.

2,5m
max

200
kg

180°
max

BLi1000



ACCESSORY DESCRIPTION

ELECTRONIC PROGRAMMER FOR TWO MOTORS

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer 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 196.

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

100 m (supplied on a special spool).

CABPC100ST



For the electric locks see page 181.

CARDIN INSIDE SERIES BLi



PRODUCT DESCRIPTION

ORDER NUMBER



CARDIN INSIDE SERIES BLi

The inside kit for swing gates with a maximum weight of 200 kg contains a geared motor 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 motor is 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 buffer batteries which allow the gate to be manoeuvred even during blackouts.

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



K-BLi1000

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

PRODUCT DESCRIPTION

ORDER NUMBER

2 SELF-LOCKING BUILD-IN OPERATORS

with an encoder-controlled 24 Vdc motor
for gates:

- maximum length 2 m (2,5 m with an electric lock);
- maximum weight 200 kg.

BLi1000



ELECTRONIC PROGRAMMER FOR TWO MOTORS

including:

- 433 MHz "FM" receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH buffer batteries.

CC242EFAMCB



SWING GATES

CARDIN INSIDE SERIES BLi

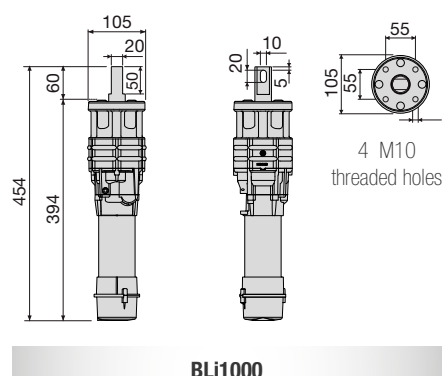


TECHNICAL DATA

MOTOR SPECIFICATIONS

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

BLi1000



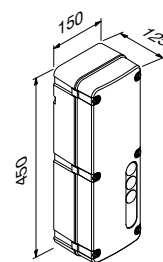
BLi1000

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

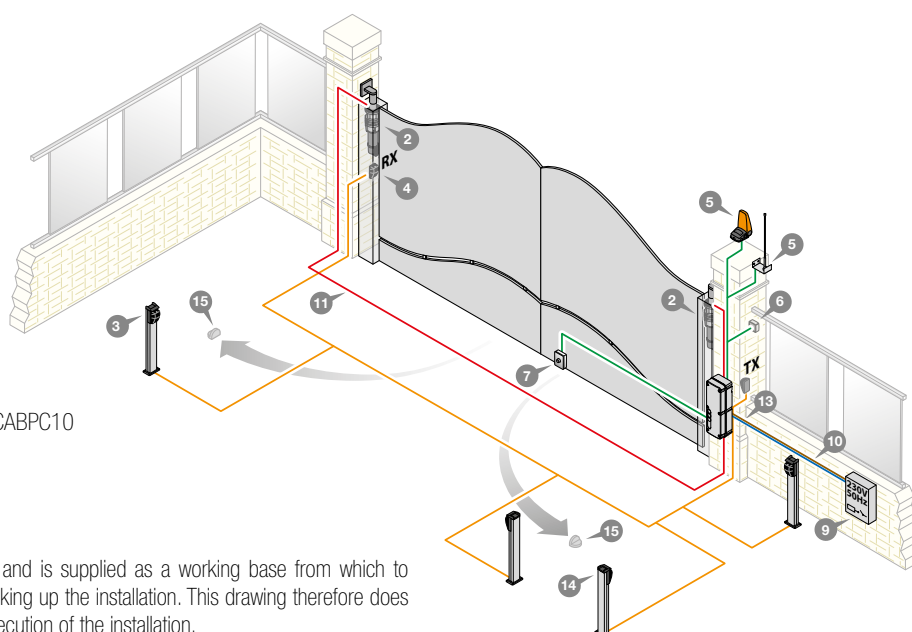


CC242EFAMCB

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 230 Vac
- 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.

AUTOMATION FOR GARAGE DOORS

RAPID SELECTION GUIDE

PAGE 142

CARDIN PRO GL



AUTOMATION FOR COUNTERBALANCED DOORS PAGE 144

CARDIN TRADE GL



AUTOMATION FOR COUNTERBALANCED DOORS PAGE 148

CARDIN PRO GL



AUTOMATION FOR SECTIONAL DOORS PAGE 152

CARDIN TRADE GL



AUTOMATION FOR SECTIONAL DOORS PAGE 156





GL

AUTOMATION FOR
COUNTERBALANCED DOORS

CARDIN PRO

(optional)



GLB249M



GLB248M



GLB249S



GL

AUTOMATION FOR
SECTIONAL DOORS

CARDIN PRO



GL124EBSS



GL

AUTOMATION FOR
COUNTERBALANCED DOORS

CARDIN TRADE



2,5m
h-max

8 m²



GL STAR1E

PR6

2,5m
h-max

8 m²



GL STAR2E

PR6

2,5m
h-max

8 m²



GL STAR2AE



GL

AUTOMATION FOR
SECTIONAL DOORS

CARDIN TRADE

(optional)



3,9m
h-max

9 m²



GL ZEN60E

3,9m
h-max

12 m²



GL ZEN100E

GARAGE AUTOMATION FOR COUNTERBALANCED DOORS



(optional)

CARDIN PRO 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.

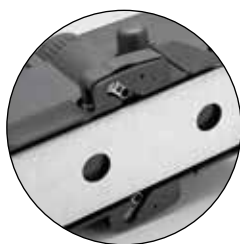
Multi-decoding:

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.



MANUAL RELEASE GLB249



REMOTE RELEASE RIGHT/LEFT



PROGRAMMER PROTECTION



SELF-PROGRAMMING



OPTIONAL NiMH BATTERIES

CARDIN PRO SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR (433 MHz)

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.



2,7m
h-max

11 m²

GLB249M



SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR (868 MHz)

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.



2,7m
h-max

11 m²

GLB248M



ELECTROMECHANICAL UNIT WITH A 24 V MOTOR

Self-locking slave automation.

Use to supplement the GLB249M - GLB248M units for particular installations that require two motors.

Operator arm to be ordered separately.



11 m²

GLB249S



CARDIN PRO SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

AXLE SHAFTS

Pair of axle shafts for central motor positioning, 1500 mm long

GL0TG

Pair of axle shafts for central motor positioning, 2200 mm long

GL0TG20



JOINTS FOR LATERAL MOTOR POSITIONING

GL0CGL



TELESCOPIC ARMS

Right curved telescopic arm

GL03A

Left curved telescopic arm

GL04A

Straight telescopic arm, 700 mm

GL02AD

Straight telescopic arm, 700 mm (2 pcs.)

GL02AD2

Straight telescopic arm, 1000 mm

GL06A

Straight telescopic arm, 1000 mm (2 pcs.)

GL06A2



SUPPORT BRACKET

Motor support extension bracket, 2000 mm

GL0PS2



EXTERNAL RELEASE CORD

length 2000 mm

GL24SB



KIT BATTERY CHARGER + NIMH BATTERIES

Allows the programmer GLB249M to work during blackouts.

KBNIMH-2



CABLE GLANDS Ø16 mm

GLB24PC



COUNTERBALANCED GARAGE DOORS

CARDIN PRO SERIES GL



TECHNICAL DATA

MOTOR SPECIFICATIONS

Motor power supply	Vdc	24
Nominal electrical input	A	2
Power input	W	100
Duty cycle	%	70
Gear motor speed	revs/min	1,7
Maximum torque	Nm	170
Operating temperature range	°C	-20°...+55
Protection grade	IP	54

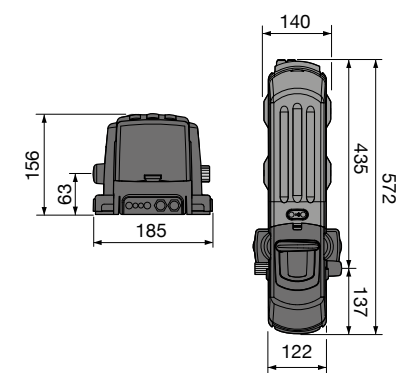
PROGRAMMER SPECIFICATIONS

Power supply	Vac	230
Nominal electrical input	A	0,5
Maximum power yield	W	120

BUILT-IN RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3
Number of channels	No	4
Number of functions	No	2
Number of stored codes	No	300

GLB249M-GLB248M

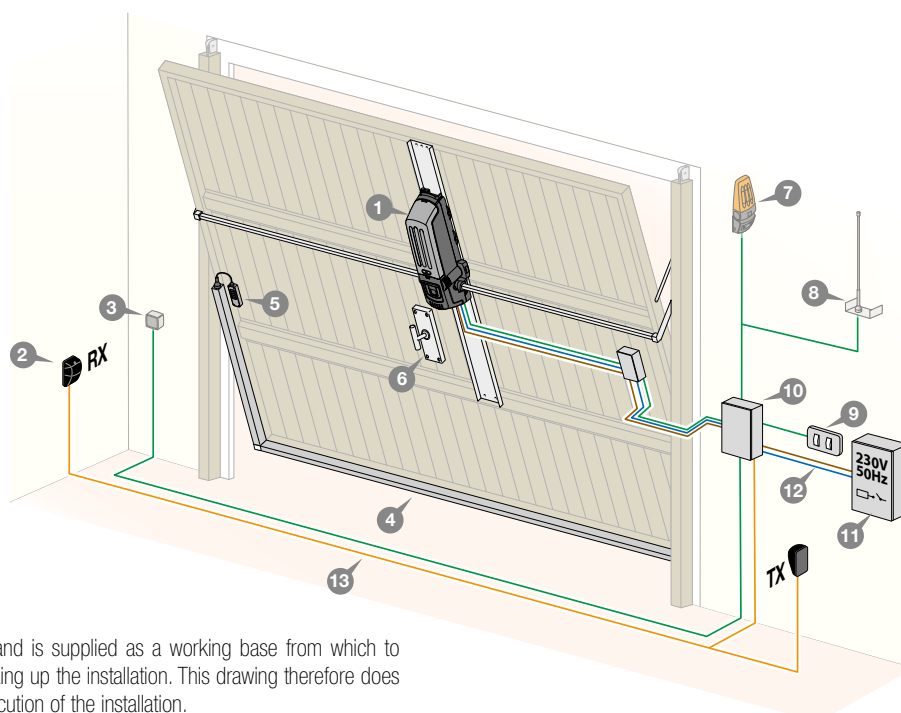


GLB249M - GLB248M

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 lights
- 8 External aerial
- 9 Wall mounted switch TB - TD
- 10 Shunt box
- 11 All pole circuit breaker
- 12 Mains cable 230 Vac
- 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.

GARAGE AUTOMATION FOR COUNTERBALANCED DOORS



CARDIN TRADE SERIES GL STAR

230V automatic device suitable for counterbalanced garage doors up to 10 m².

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.

GL STAR is a complete automation system suitable for use with all types of counterbalanced overhead garage doors. The appliance has been designed and realised to be reliable day after day and throughout the passage of time. It is for this reason that the panelling and external particulars are made out of cast aluminium and galvanised steel, the internal moving parts are made of tempered steel and the carter is made of shock-proof plastic.

These solutions offer guaranteed resistance to atmospheric agents, and after installing, an absolutely maintenance free future. The installer is guaranteed a valid and reliable product. The user is guaranteed first rate service and a silent, consistent and regular action which will safeguard the automated structure throughout the years of service to come.

The manual release system 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 whether it be a handle fitted directly to the door or an external cord release system.

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

The electronic control unit controls are 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.



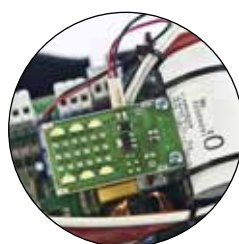
ADJUSTABLE SEQUENTIAL
COMMAND



MANUAL RELEASE MECHANISM



LOW SPEED SHAFT PROTECTION



LED COURTESY LIGHTS



MASTER MOTOR
IN-BUILT ELECTRONICS

CARDIN TRADE SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING GARAGE DOOR MOTOR

with a 230V slave motor

2,5m
h-max

8 m²

GL STAR1E



SELF-LOCKING GARAGE DOOR MOTOR

with a 230V encoder-controlled motor complete with electronic travel limits and an in-built programmer.

PRG

2,5m
h-max

8 m²

GL STAR2E



SELF-LOCKING GARAGE DOOR MOTOR

with a 230V encoder-controlled motor complete with electronic travel limits, an in-built electronic programmer with autotransformer and torque limitation.

PRG

2,5m
h-max

8 m²

GL STAR2AE



CARDIN TRADE SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

SUPPORT BRACKETS

in zinc-plated metal, 60 cm.

in zinc-plated metal, 200 cm.

SS60STARA

SS200STARA



ADJUSTABLE BRACKETS

axle shaft supports

SRSTAR



TRANSMISSION SHAFTS

20 cm including support bracket

150 cm including support bracket

200 cm including support bracket

AT20

AT150

AT200



TRANSMISSION ARMS

Two straight arms with round bushing for AT shafts.

One straight arm with grooved bushing for motor drive shaft

Two curved arms with round bushing for AT shafts.

BDB

BDBUS

BCB



EXTERNAL RELEASE CORD KIT

with a personalised key for counterbalanced or sectional garage doors.

KSZEN



EXTERNAL RELEASE CORD KIT

to connect to the door handle.

KSE



LOCK

Lock cylinder for an external release cord attached to the motor.

NOS



ELECTRONIC PROGRAMMER

for one 230V encoder-controlled motor complete with torque limitation and deceleration. Factory set for the insertion of an open collector receiver card.

S101B



TRAVEL LIMIT KIT

Travel limit switch kit and encoder for GL STAR1E.

FCGL STAR1E



COUNTERBALANCED GARAGE DOORS

CARDIN TRADE SERIES GL



TECHNICAL DATA

MOTOR SPECIFICATIONS

Motor power supply	Vac	230
Frequency	Hz	50
Nominal electrical input	A	1,7
Power input	W	360
Duty cycle	%	40
Geared motor speed	revs/min	1,8
Maximum torque	Nm	530
Operating temperature range	°C	-20°...+55
Protection grade	IP	30

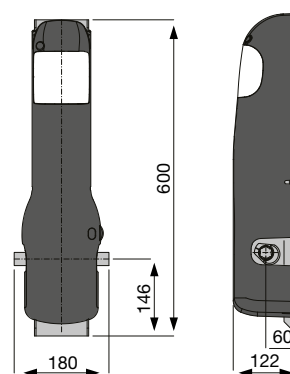
PROGRAMMER SPECIFICATIONS

Power supply	Vac	230
Nominal electrical input	A	2
Maximum power yield	W	360

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

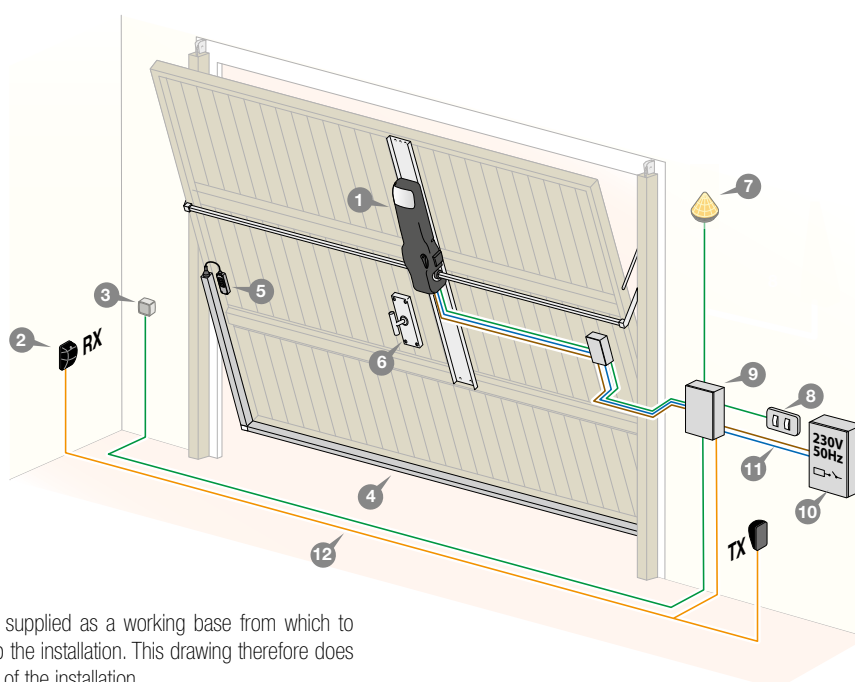


GL STAR1E - GL STAR2E - GL STAR2AE

INSTALLATION EXAMPLE

LEGEND

- 1 Geared motor
- 2 Photoelectric cells
- 3 Mechanical selector switch
- 4 Anticrush safety edge
- 5 Radioshield
- 6 Release cord
- 7 Warning light with aerial
- 8 Wall mounted switch TB - TD
- 9 Shunt box
- 10 All pole circuit breaker
- 11 Mains cable 230 Vac
- 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



CARDIN PRO SERIES GL

Cardin's chain guided automation 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 PRO SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 Vdc 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 8.2 k Ω).

Chain guide to be ordered apart.



GL124EBSS



For sectional doors:

- maximum height 2,7 m with a 3000 mm chain guide
- maximum height 3,2 m with a 3500 mm chain guide
- maximum height 4,2 m with a 4500 mm chain guide
- maximum height 5,7 m with a 6000 mm chain guide

OPTIONAL SLOT-IN CARD

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.

YPR124SCL00





CARDIN PRO SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

ALUMINIUM CHAIN GUIDE

length 3000 mm

GL124S30

length 3500 mm

GL124S35

length 4500 mm

GL124S45

length 6000 mm

GL124S60



ADAPTER

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

GL1024AC



EXTERNAL RELEASE CORD

length 2000 mm

GL20SB

length 4000 mm

GL20SB4



CARDIN PRO SERIES GL



TECHNICAL DATA

MOTOR SPECIFICATIONS

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

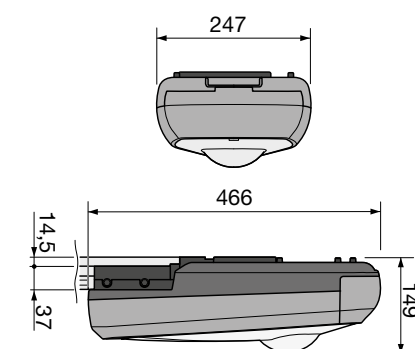
PROGRAMMER SPECIFICATIONS

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

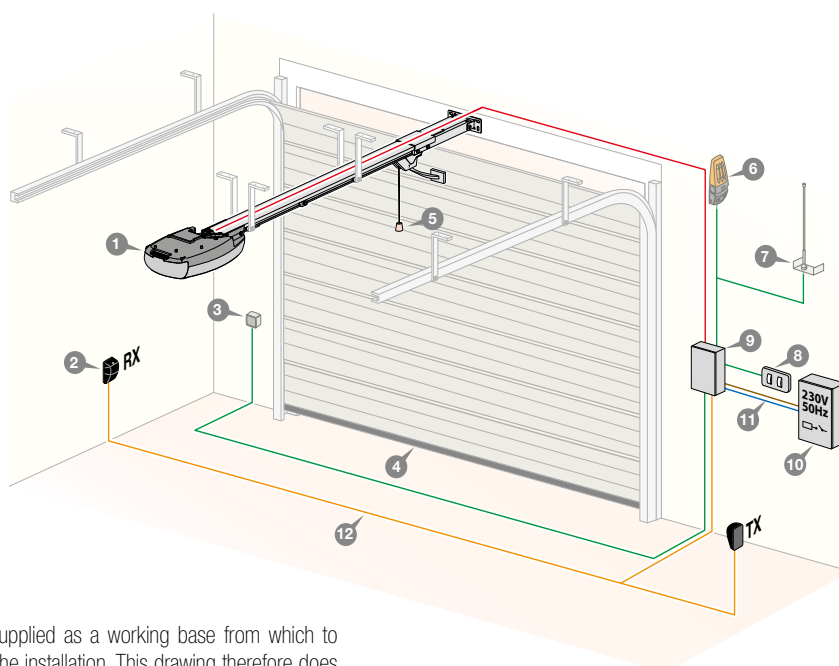


GL124EBSS

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 230 Vac
- 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



CARDIN TRADE SERIES GL ZEN

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



CHAIN GUIDE



INTEGRATED ELECTRONICS

CARDIN TRADE SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING GARAGE DOOR MOTOR

for residential use, with an encoder controlled 24 V motor and in-built electronic programmer with LED courtesy lights. Maximum drag power 600 N.

3,9m
h-max

9 m²

GL ZEN60E



SELF-LOCKING GARAGE DOOR MOTOR

for residential use, with an encoder controlled 24 V motor and in-built electronic programmer with LED courtesy lights. Maximum drag power 1000 N.

3,9m
h-max

12 m²

GL ZEN100E



CHAIN GUIDE

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

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

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

ZENGB1U



ZENGB2U

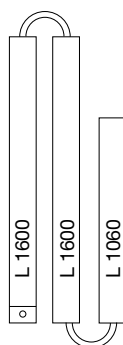
ZENGB4U



ZENGB1U



ZENGB2U



ZENGB4U

CARDIN TRADE SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

EXTERNAL RELEASE CORD KIT

with a personalised key for counterbalanced or sectional garage doors.

KSZEN



ADAPTER

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

GL1024AC



FASTENING BRACKETS

ZEN ST2



HOLDING BRACKET

large holding bracket for heavy doors.

SUPZEN



BATTERY CHARGER 24 V

for use with 24 V programmers.

CB24

EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



CARDIN TRADE SERIES GL



TECHNICAL DATA

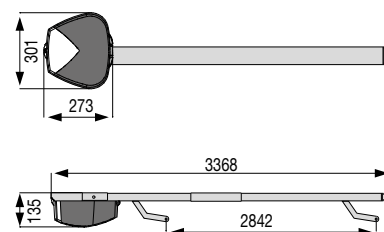
MOTOR SPECIFICATIONS

		GL ZEN60E	GL ZEN100E
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

OVERALL DIMENSIONS



GL ZEN60E - GL ZEN100E

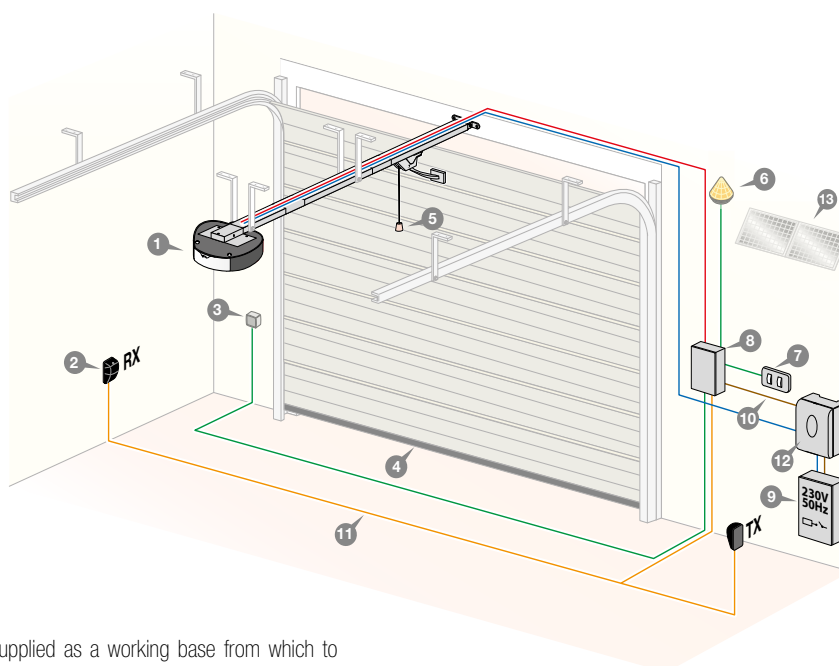
OPTIONAL RECEIVER CARD

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 230 Vac
- 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 ROAD BARRIERS AND PARKING PLACE PROTECTION

RAPID SELECTION GUIDE

PAGE 162

CARDIN PRO EL

AUTOMATION FOR ROAD BARRIERS



PAGE 164

CARDIN TRADE EL

AUTOMATION FOR ROAD BARRIERS



PAGE 170

CARDIN PRO PL

PARKING PLACE PROTECTION



PAGE 176



EL

AUTOMATION FOR
ROAD BARRIERS

CARDIN PRO



3/4m

3-4s



ELDOM34DG - ELDOM34LG

6m

7s



ELDOM6DG



EL

AUTOMATION FOR
ROAD BARRIERS

CARDIN PRO



3m

6s



ELX3000

RAPID GUIDE

ROAD BARRIERS



EL

AUTOMATION FOR
ROAD BARRIERS

(optional)



3m

1,8 s



EL SNAP3

4m

2,5 s



EL SNAP4

6m

7 s



EL SNAP6



EL

AUTOMATION FOR
ROAD BARRIERS

(optional)



4m

6 s



EL RAP4E

CARDIN TRADE



PL

PARKING PLACE
PROTECTION

CARDIN PRO



8 s



PARKSUN

8 s



PARKLINE

AUTOMATION FOR ROAD BARRIERS



CARDIN PRO SERIES EL

For the EL DOM series

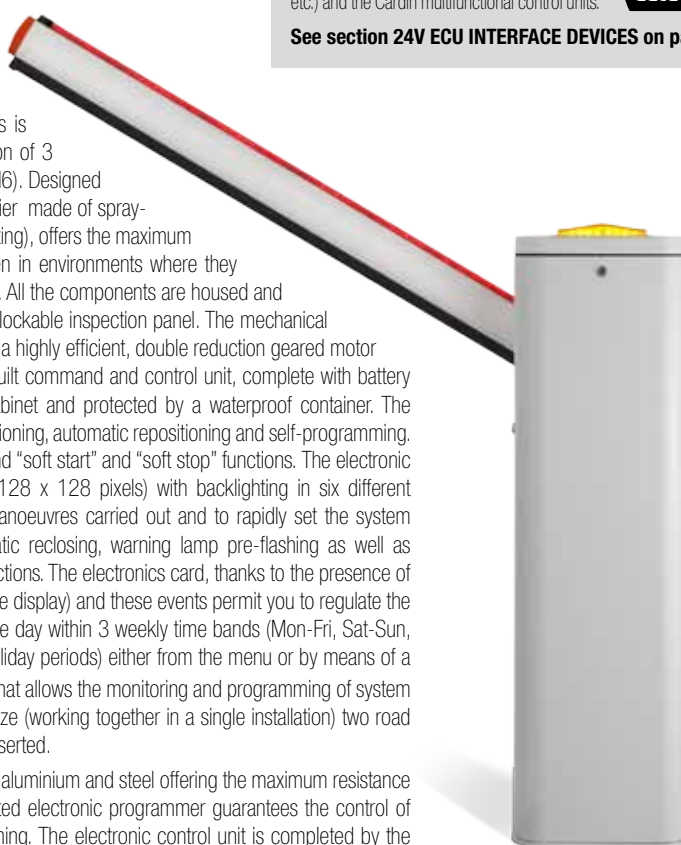
Compatible with the data exchange system between digital devices (smartphone, tablet, etc.) and the Cardin multifunctional control units.



See section 24V ECU INTERFACE DEVICES on page 196.

The latest addition to the company's range of road barriers is fitted with a 24 Vdc motor and factory set for the application of 3 or 4 metre booms (ELDOM34) and 6 metre booms (ELDOM6). 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 buffer 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 NTPRG-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.

The low-voltage residential model ELX3000, is made of cast aluminium and steel offering the maximum resistance to the effects of weathering throughout time. The incorporated electronic programmer guarantees the control of the boom position via encoder using self-learning programming. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop". Manual release is activated using an external lever protected by a personalised key. A battery charger and NIMH buffer batteries can be fitted into the ECU box on request.



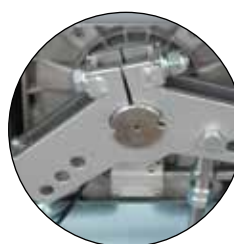
EXTERNAL MANUAL RELEASE
HANDLE ELX3000



ADJUSTABLE BOOM HOLDER
RIGHT - LEFT



EXTRACTABLE KEY-LOCKED
INSPECTION PANEL ELDOM34



REINFORCED BALANCE SYSTEM AND
GEARED MOTOR PERSONALISED FOR
THE 3/4 BOOMS OF THE ELDOM34



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY
ELDOM34/6

CARDIN PRO SERIES EL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ROAD BARRIERS WITH A 24 V MOTOR

Encoder-controlled movement.

Lockable barrier trunk 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, 433 MHz / 868,3 MHz "FM", NiMH buffer 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 two colours light Tele grey RAL7047 and dark Slate grey RAL7015.

3 m and 4 m booms to be ordered apart.

ELDOM34LG

ELDOM34DG



Slate grey
RAL7015



Tele grey
RAL7047



SELF-PROGRAMMING ROAD BARRIER WITH A 24 V MOTOR

Encoder-controlled movement.

Lockable barrier trunk 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, 433 MHz / 868,3 MHz "FM", NiMH buffer 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.

6 m boom to be ordered apart.

ELDOM6DG



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.

BASEDOM34

BASEDOM68



CARDIN PRO SERIES EL



PRODUCT DESCRIPTION

ORDER NUMBER

SPRAY PAINTED ALUMINIUM BOOMS

The barrier takes a special aluminium boom with rubber anti-shock protective edges and can be supplied either in a 3 or 4 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.

3 m BOOM

3 m BOOM WITH LEDS

4 m BOOM

4 m BOOM WITH LEDS

SPRING FOR CUSTOM BOOMS (LENGTHS LESS THAN 3 m)



DOM3

DOM3L

DOM4

DOM4L

DOMSP2

SPRAY PAINTED ARTICULATED ALUMINIUM BOOM

The barrier takes a special articulated aluminium boom with rubber anti-shock protective edges.

The boom consists of two parts for an overall length of 3 m.

The cast aluminium joint, which markedly reduces the height during opening, makes it ideal for use in installation such as underground car parks.

DOM3AS



SPRAY PAINTED ALUMINIUM BOOM

The barrier takes a special aluminium boom with rubber anti-shock protective edges. The 6-metre 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.

6 m BOOM

6 m BOOM WITH LEDS

DOM6

DOM6L



ACCESSORY BOX

Accessory box with DIN rails and fastening plates

BOXDOM



ROAD BARRIERS

CARDIN PRO SERIES EL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ROAD BARRIER WITH A 24 V MOTOR (FOR 3 m BARRIERS)

Encoder-controlled movement.

Integrated automation fitted with an electronic programmer, S449 receiver module. The NiMH batteries and battery charger are optional.

Digital work time control. Command inputs: TA, TC and TB.

Safety inputs: photocells, safety edge (N.C. contact or 8.2 k Ω).

3-metre long boom with a diameter of $\varnothing 60$ mm complete with boom attachment holder, to be ordered apart.

Barrier trunk with manual release system and led warning lights built into the upper part of the structure.



(optional)

KIT BATTERY CHARGER + NiMH BATTERIES

Allows the ELX3000 unit to work during blackouts.

BOOMS FOR ELX3000

$\varnothing 60$ mm - 3 m ROUND BOOM

in spray-painted extruded aluminium complete with boom holder.

$\varnothing 60$ mm - 3 m MODULAR ROUND BOOM (THREE 1-m PIECES)

in spray-painted extruded aluminium complete with boom holder.

$\varnothing 60$ mm - 3 m ROUND BOOM

in spray-painted extruded aluminium without boom holder.

$\varnothing 60$ mm - 3 m MODULAR ROUND BOOM (THREE 1-m PIECES)

in spray-painted extruded aluminium without boom holder.

SUPPORT FORKS / POLES

FIXED ALUMINIUM SUPPORT FORK FOR ELDOM - H 910

FIXED ALUMINIUM SUPPORT FORK FOR ELX3000

MOBILE SUPPORT POLE 1200 mm

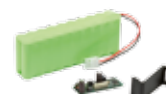
FOLD-UP MESH

in plastic, lengths of 200 cm.

ELX3000



KBNiMH-1



ELX3000A



ELX3000A3



ELX3000AT

ELX3000AT3

ELUFS1

ELXAF

ELUMS1



ELSADOM



CARDIN PRO SERIES EL



ACCESSORY DESCRIPTION

ORDER NUMBER

ADHESIVE REFLECTIVE TAPE STRIPS FOR ELDOM34 (3000 x 50 mm)

ELREF3

ADHESIVE REFLECTIVE TAPE STRIPS FOR ELDOM34 (4000 x 50 mm)

ELREF4

ADHESIVE REFLECTIVE TAPE (250 x 50 mm)

ELSRE

Lots of 12 pcs.



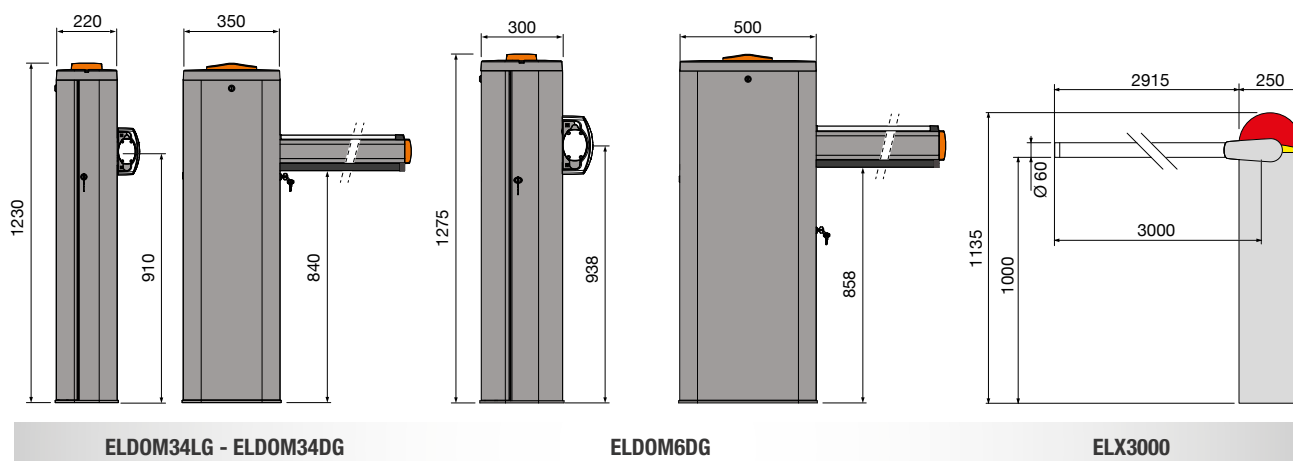
CARDIN CABLE CONNECTION MODULE

MODCA

The module allows you to connect two motors via cable in order to use the synchronised master/slave function.



OVERALL DIMENSIONS



ROAD BARRIERS

CARDIN PRO SERIES EL



TECHNICAL DATA

GENERAL CHARACTERISTICS

		ELDOM34 (3m)	ELDOM34 (4m)	ELDOM6 (6m)	ELX3000
Mains power supply	Vac	230	230	230	230
Nominal electrical input	A	0,9	0,9	0,9	1
Power input	W	250	250	250	220
Duty cycle	%	90	90	90	70
Geared motor speed	revs/min	6	6	6	3,2
Opening time 90°	s	3...4	3...4	5...7	6
Passageway opening time (75°)	s	2	2	4	5
Maximum torque	Nm	180	180	180	80
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	3	3	3	1,5
Maximum power yield	W	120	120	120	60

BUILT-IN RECEIVER CARD

Reception frequency	MHz	433.92/868,3	433.92/868,3	433.92/868,3	433.92
Number of channels / Number of functions	No	4 / 8	4 / 8	4 / 8	4 / 5
Number of stored codes	No	300 / 1000	300 / 1000	300 / 1000	300

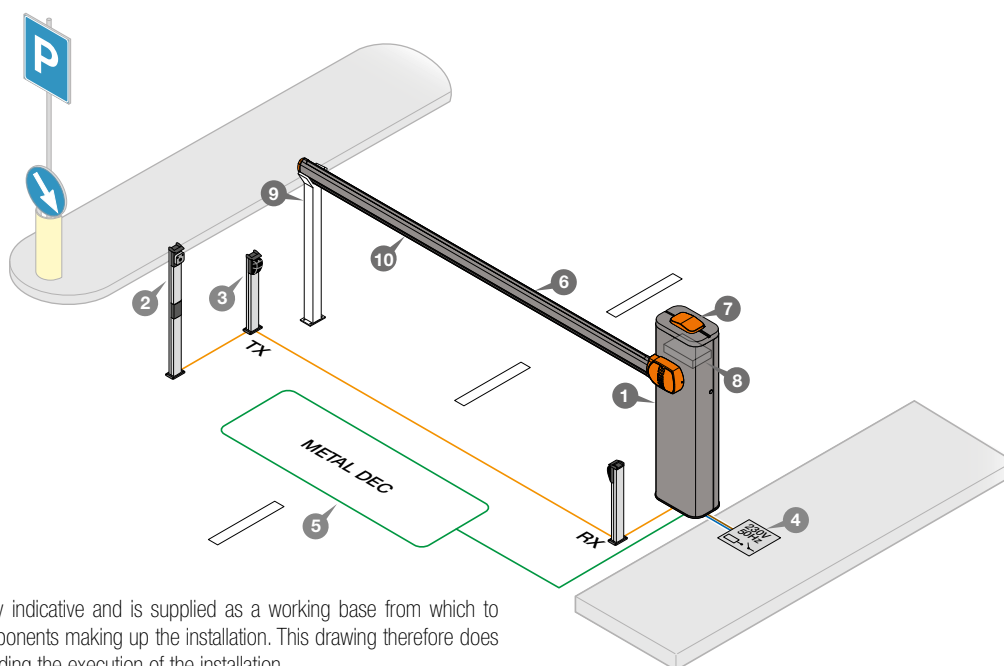
BATTERY TYPE

Model	NiMH	NiMH	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 TRADE SERIES EL

Road barrier with an enhanced geared motor powered by 24V, designed for access control of passageways up to 6 m 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.

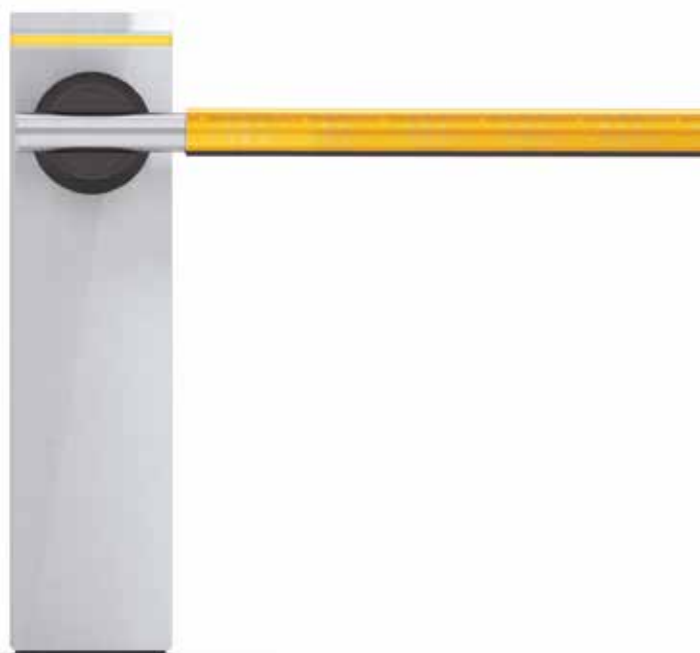
The integrated programmer allows encoder controlled boom positioning, automatic repositioning and self-programming. The electronic control unit is completed by the anti-crush and "soft start" and "soft stop" functions.

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

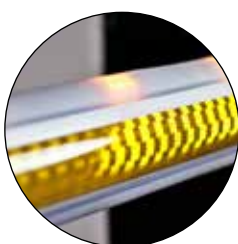
The barriers can be fitted with buffer batteries which allow them to function with the SUN POWER system for isolated installations where mains power supply is not available or where you simply wish to reduce energy costs.

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.



HOOD WITH BUILT-IN BOOM
MOVEMENT LEDS



BOOM WITH LED LIGHTING



ALLEN KEY OPERATED MANUAL
RELEASE SYSTEM



IN-BUILT ELECTRONIC PROGRAMMER



ROBUST SPRING BALANCED
GEARS SYSTEM

CARDIN TRADE SERIES EL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-PROGRAMMING ROAD BARRIER WITH A 24 V 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.

Compatible with the Prg-Link system that allows the monitoring and programming of the system parameters from a remote position.

The "master/slave" function allows you to synchronise two barriers working in unison.



EL SNAP3



SELF-PROGRAMMING ROAD BARRIER WITH A 24 V 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.

Compatible with the Prg-Link system that allows the monitoring and programming of the system parameters from a remote position.

The "master/slave" function allows you to synchronise two barriers working in unison.



EL SNAP4



SELF-PROGRAMMING ROAD BARRIER WITH A 24 V 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.

Compatible with the Prg-Link system that allows the monitoring and programming of the system parameters from a remote position.

The "master/slave" function allows you to synchronise two barriers working in unison.



EL SNAP6



OPTIONAL SPRINGS

To custom fit springs according to the length and weight of the boom consult the paragraph 'operational constraints' on page 174.

CARDIN TRADE SERIES EL



PRODUCT DESCRIPTION

ORDER NUMBER

BOOMS

Rigid boom in white spray-painted aluminium. Length 3,25 m Ø 70 mm. Complete with end caps and passive rubber safety edge.

Rigid boom in white spray-painted aluminium. Length 4,25 m Ø 70 mm. Complete with end caps and passive rubber safety edge.

Rigid boom in white spray-painted aluminium. Length 6,25 m Ø 70 mm. Complete with end caps and passive rubber safety edge.

Joint

for EL SNAP3 - EL SNAP4. Maximum passageway 3 metres.

LED lights

for SNAPPER3 (with 4 leds), SNAPPER4 (with 5 leds) and SNAPPER6 (with 8 leds).

WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

SELF-PROGRAMMING ROAD BARRIER WITH A 24 V MOTOR

Encoder-controlled movement.

24 V 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 4 m long. The small size, simple programming and 24V encoder controlled geared motor give it an excellent price to performance ratio.



BOOM

Rigid tubular boom in white spray-painted aluminium Ø 7 cm, Length 4,25 m for passageways up to 4 m.

SNAPPER3

L 3,25 m

SNAPPER4

L 4,25 m

SNAPPER6

L 6,25 m

SNR SNAP

LED SNAPPER3

LED SNAPPER4

LED SNAPPER6

PRG LINK

EL RAP4E

RAPPER4TL

CARDIN TRADE SERIES EL



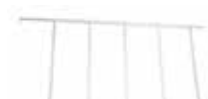
ACCESSORY DESCRIPTION

ORDER NUMBER

FOLD-UP MESH

in plastic, lengths of 200 cm.
(for EL SNAP3/4/6).

SRS



SUPPORT FORKS / POLES

FIXED ALUMINIUM SUPPORT FORK - H 910

(for EL SNAP3/4/6).

ELUFS1

MOBILE SUPPORT POLE 1200 mm

(for EL SNAP3/4/6).

ELUMS1



ELUFS1

ELUMS1

ANCHOR PLATE

ground fastening base

FIX SNAP

FIX RAP4



ADHESIVE REFLECTIVE TAPE (1000 x 50 mm)

for SNAP barriers.

ADEK



ADHESIVE REFLECTIVE TAPE STRIPS.

for SNAP barriers. Lots of 12 pcs.

STICKERS



BATTERY CHARGER 24 V

for use with 24 V programmers.

CB24

EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

SPB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

SUNPOWER



CARDIN TRADE SERIES EL



TECHNICAL DATA

GENERAL CHARACTERISTICS

		EL SNAP3	EL SNAP4	EL SNAP6	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 + SRS				
SNAPPER3 + SRS + ELUMS1				
SNAPPER4				
SNAPPER4 + ELUMS1				
SNAPPER4 + SNR SNAP				
SNAPPER4 + SRS				
SNAPPER4 + SRS + ELUMS1				
SNAPPER6				
SNAPPER6 + ELUMS1				
SNAPPER6 + SRS				
SNAPPER6 + SRS + ELUMS1				




YELLOW
SPARE PARTS NUMBER
RMOLLASNAP3


Fitted in the EL SNAP3


GREEN
SPARE PARTS NUMBER
RMOLLASNAP4


Fitted in the EL SNAP4


RED
SPARE PARTS NUMBER
RMOLLASNAP5

Custom spring available on request

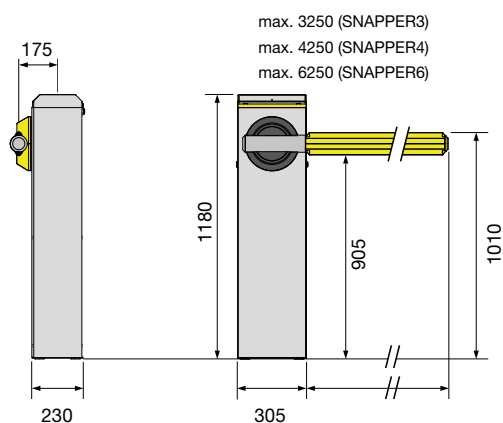

WHITE
SPARE PARTS NUMBER
RMOLLASNAP6

Fitted in the EL SNAP6

ROAD BARRIERS

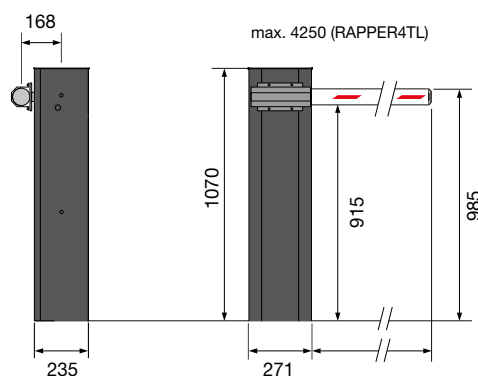
CARDIN TRADE SERIES EL



OVERALL DIMENSIONS



EL SNAP3 - EL SNAP4 - EL SNAP6

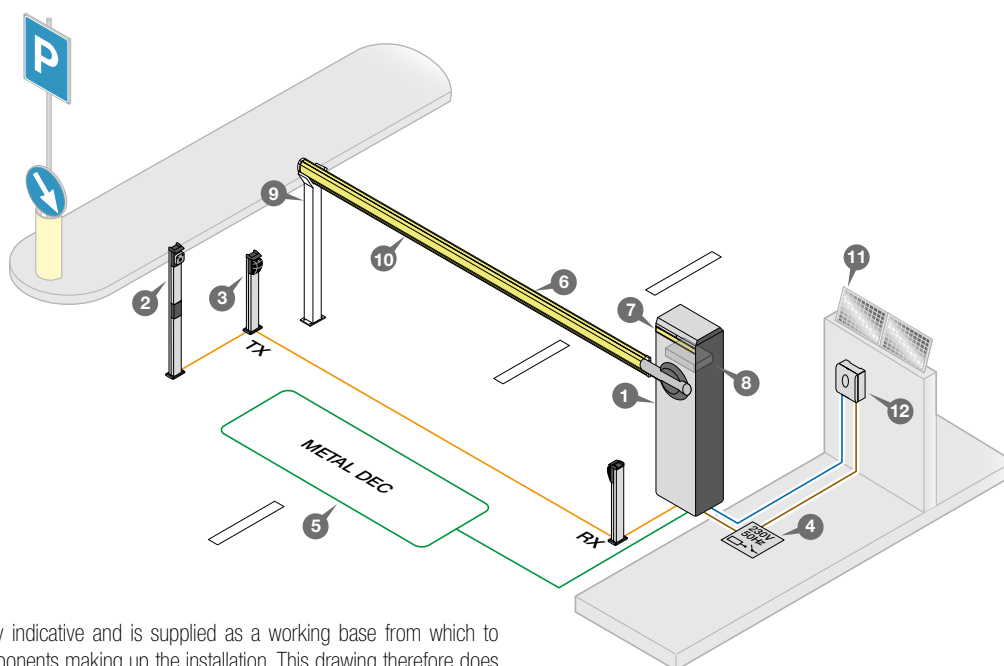


EL RAP4E

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



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SELF-POWERED ELECTROMECHANICAL PARKING PLACE PROTECTION



CARDIN PRO 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.

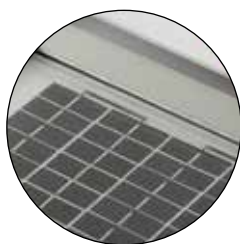
Both models are powered by heavy duty, long-life buffer batteries. The PARKSUN model does not require connection to external power sources as the batteries are recharged by an in-built solar panel, while the PARKLINE model requires an external battery charger powered by the mains. The control panel has an in-built state-of-the-art S504 radio receiver card with 128 bit cryptography, "433 MHz" "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 PRO SERIES PL



PRODUCT DESCRIPTION

ORDER NUMBER

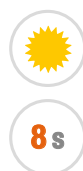
PARKING SPACE PROTECTION WITH A 12 V MOTOR

The automation system consists of the PARKSUN parking space protection plus:

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

The parking space protection, self-powered 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



PARKING SPACE PROTECTION WITH A 12 V MOTOR

The automation system consists of the PARKLINE parking space protection plus:

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

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



TECHNICAL DATA

GENERAL CHARACTERISTICS

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

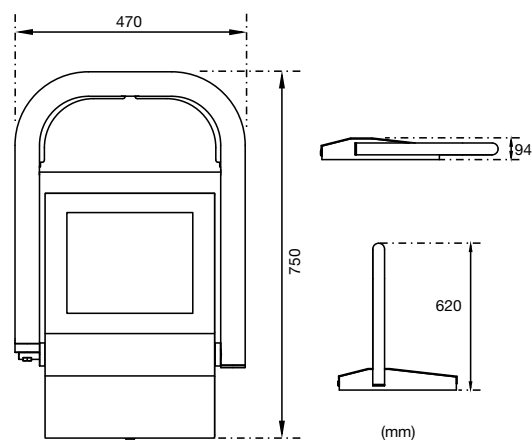
BUILT-IN RECEIVER CARD (S504)

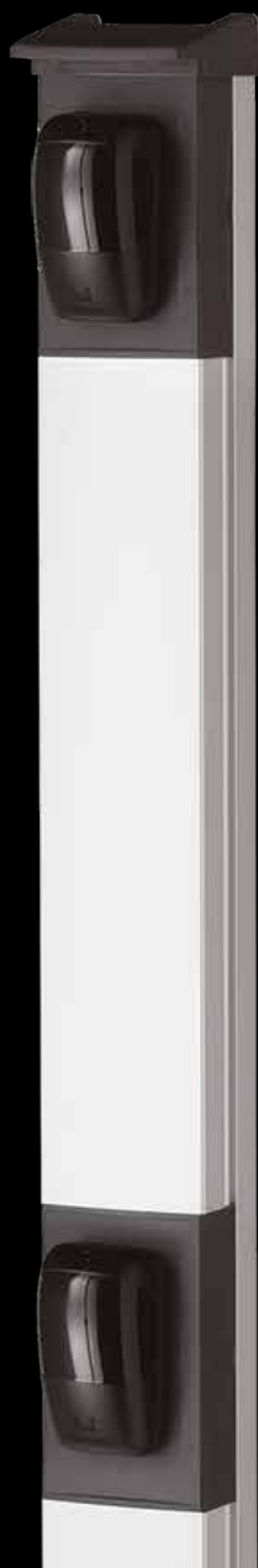
Reception frequency	MHz 433.92	433.92
Number of channels / Number of functions	No 4 / 1	4 / 1
Number of stored codes	No 1000	1000

OVERALL DIMENSIONS

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

OVERALL DIMENSIONS





MECHANICAL ACCESSORIES

COMPLIMENTARY EQUIPMENT PAGE 180

AUXILIARY AND SAFETY DEVICES PAGE 182

COMPLIMENTARY EQUIPMENT



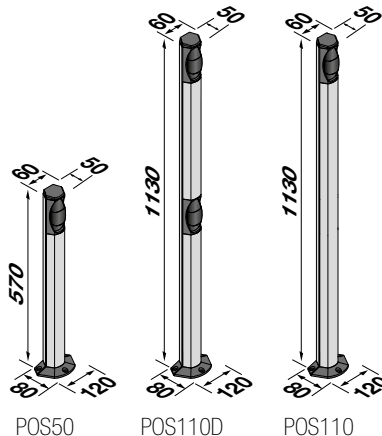
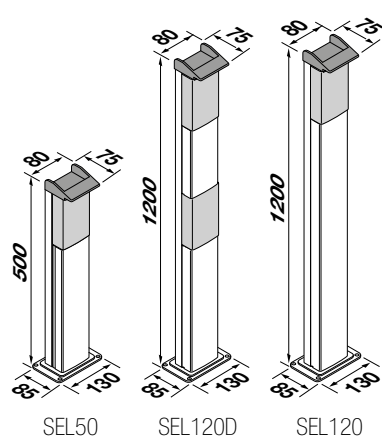
A correctly installed system guarantees safety and reliability.

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.

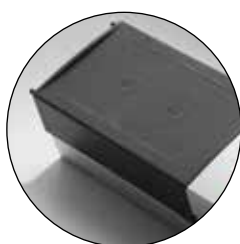
The Cardin accessories are designed to enhance the performance of our appliances and are made of top quality materials in order to guarantee a long operating life and maintain the aesthetic characteristics throughout time.

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

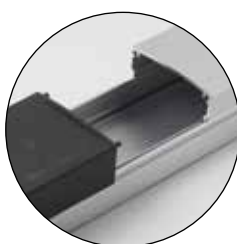
Systems such as the safety edges have been tested in order to guarantee ample safety margins in all situations.



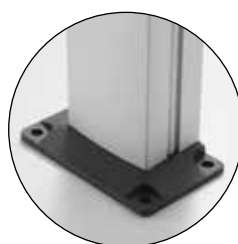
COLUMN FOR
APRO - VEDO - PASSO DEVICES



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



MODULAR STRUCTURE
EASILY RECONDITIONED



IMPACT-RESISTANT
MODULAR BASE PLATE



MULTI-LANGUAGE WARNING SIGN

COMPLEMENTARY EQUIPMENT



PRODUCT DESCRIPTION

ORDER NUMBER

INTERNATIONAL WARNING SIGN

in aluminium, 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 and SEL 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.

500 mm COLUMN

for 1 surface-mounted or embedded photoelectric cell.

1200 mm COLUMN

for a selector switch or keypad.

1200 mm COLUMN

for 2 surface-mounted or embedded photoelectric cells.

FASTENING BASE

Fastening base for columns SEL50, SEL120, SEL120D.

570 mm COLUMN

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

1130 mm COLUMN

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

1130 mm COLUMN

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

FASTENING BASE

Fastening base for columns POS50 - POS110 and POS110D.

ELECTRIC LOCKS 12 V

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

100 m (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 8,2 K Ω 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
8,2 K Ω CONTACT



PRODUCT DESCRIPTION

ORDER NUMBER

MECHANICAL AUXILIARY DEVICES FOR SWING / SLIDING GATES

Profile high 61 mm - contact output N.C. - colour black.

1.6-METER MECHANICAL EDGE CONTACT N.C.

2-METER MECHANICAL EDGE CONTACT N.C.

2.5-METER MECHANICAL EDGE CONTACT N.C.

3-METER MECHANICAL EDGE CONTACT N.C.

	NC8K2L16N
	NC8K2L20N
	NC8K2L25N
	NC8K2L30N

MECHANICAL AUXILIARY DEVICES FOR GARAGE DOORS

Low profile 26 mm - contact output N.C. - colour black.

0.7-METER MECHANICAL EDGE CONTACT N.C.

1-METER MECHANICAL EDGE CONTACT N.C.

1.2-METER MECHANICAL EDGE CONTACT N.C.

1.8-METER MECHANICAL EDGE CONTACT N.C.

GARAGE DOOR EDGE RIGHT/LEFT END CAPS

GARAGE DOOR EDGE RIGHT/LEFT CORNER PIECES

	BBASL07N
	BBASL10N
	BBASL12N
	BBASL18N
	BBASDSTAP
	BBASDSANG

PASSIVE AUXILIARY DEVICES FOR SWING AND SLIDING GATES

Profile high 70 mm / low 30 mm - passive edge - colour black.

2-METER PASSIVE IMPACT EDGE (PROFILE 70 mm)

3-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)

4-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)

5-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)

	BP20BL
	CP30BL
	CP40BL
	CP50BL

SAFETY DEVICES 8,2 K Ω FOR SWING AND SLIDING GATES

Profile high 95 mm / low 61 mm - contact 8,2 K Ω with maximum detection speed 12 m/min - colour black

1.6-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)

2-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)

2.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)

1.6-METER CONDUCTIVE SAFETY EDGE (PROFILE 61 mm)

2-METER CONDUCTIVE SAFETY EDGE (PROFILE 61 mm)

2.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 61 mm)

	BSH95L16
	BSH95L20
	BSH95L25
	BSH61L16
	BSH61L20
	BSH61L25





Stand out amongst
the waves

ELECTRONICS



ELECTRONIC PROGRAMMERS PAGES 186-205

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



RADIO CONTROLS PAGES 206-235

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.



COMMAND AND SAFETY DEVICES PAGES 236-243

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.



INFRARED BARRIERS PAGES 244-255

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



WARNING LIGHTS PAGES 256-261

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


cardin
FIELDA ELECTRONICA GROUP

LCD1

LGC

← PROG/OK →

Y2

24

25

26

27

28

29

30

ELECTRONIC PROGRAMMERS

RAPID SELECTION GUIDE

PAGE 188

CARDIN PRO



FOR 24V MOTORS

PAGE 190

FOR 230V MOTORS

PAGE 192

FOR 230V - 400V MOTORS

PAGE 194

PROGRAMMER INTERFACES 24V

PAGE 196

CARDIN TRADE



FOR 24V MOTORS

PAGE 198

FOR 230V - 400V MOTORS

PAGE 200

FOR ROLLING GRILLS / SHUTTERS

PAGE 202

PROGRAMMER INTERFACES

PAGE 204

SOLAR PANEL POWER SUPPLY KIT

PAGE 205



PROGRAMMERS
FOR 24V MOTORS

CARDIN PRO

(optional)



CC242ETOP
CC242ETOPCB



INT PRG
3G/WiFi



CC242EXTOPCB



PRG900
PRG900CB



PROGRAMMERS
FOR 230V MOTORS

CARDIN PRO

230V



PRG304E



PRG304ETC



PRG302E



PRG230M2



PRG807001



PROGRAMMERS
FOR 230V MOTORS

CARDIN PRO

400V

230V

400V



PRG383TCE



PRG3830CE



PRG384TCE



PRG3840CE

RAPID GUIDE

ELECTRONIC PROGRAMMERS



PROGRAMMERS
FOR 24V MOTORS

(optional)



CARDIN TRADE



T124



PRG LINK



T624



PROGRAMMERS
FOR 230V - 400V MOTORS



CARDIN TRADE



T101



PRG LINK



T600



T400



PROGRAMMERS
FOR ROLLING SHUTTERS

230V

CARDIN TRADE



T1



T21



T31

ELECTRONIC PROGRAMMERS



MICROPROCESSOR CONTROLLED FOR 24V MOTORS



(optional)

CARDIN PRO

MAINS POWER SUPPLY 230 Vac
MOTOR OUTPUT 24 Vdc
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 24 Vdc 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 433 MHz "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 and PRG900 series are housed in a container with sealing gaskets and cable gland entry holes for the insertion of Ø16 mm 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 Ø16 mm cable clamps.

CC242ETOPCB



CC242EXTOPCB



READY TO FIT RIGID TUBE ENTRY POINTS



Ø21 AND Ø16 CABLE GLANDS SUPPLIED WITH CC242EXTOPCB



433 MHz or 868 MHz INTEGRATED RECEIVER CARDS



EMERGENCY NiMH BATTERIES IN THE CC242ETOPCB AND CC242EXTOPCB VERSIONS



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



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMERS FOR THE MANAGEMENT OF ONE OR TWO ENCODER-CONTROLLED MOTORS

Electronic programmer for encoder-controlled 24 Vdc 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 196.



CC242ETOP - CC242ETOPCB
Overall dimensions
210 x 300 x 120



CC242EXTOPCB
Overall dimensions
150 x 450 x 125

ELECTRONIC PROGRAMMER

ECU, BATTERY CHARGER AND NiMH BATTERIES

ECU, BATTERY CHARGER AND NiMH BATTERIES

ELECTRONIC PROGRAMMERS FOR THE MANAGEMENT OF ONE OR TWO MOTORS

Electronic programmer for the control of 24 Vdc hinged gates with intelligent time control functions that allow you to control the position of the hinged and sliding gates, fitted with an S449, 433 MHz receiver module (optional batteries and battery charger).

Gate travel time programming is fully automatic and guided by a 6-digit display which allows you to visualise the number of manoeuvres carried out and to set several parameters such as the type of motor, the torque setting and the limited opening distance. Dip-switches allow you to 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 and electric lock enable.



PRG900 - PRG900CB
Overall dimensions
210 x 300 x 120

ELECTRONIC PROGRAMMER

ECU, BATTERY CHARGER AND NiMH BATTERIES

VOLTAGE REGULATOR STABILIZED AT 24 Vdc (SERIES PRG900)

The device supplies a regulated 24 Vdc voltage in output starting from a direct current input that can vary from 19 Vdc to 38 Vdc. It is fitted with 2 signal LEDs, one indicating the presence of voltage at the output binding post and the other giving status information (correct operation, overload, activated protection).

KIT BATTERY CHARGER + NiMH BATTERIES

Allows the programmers PRG900 and CC242ETOP to work during blackouts.

PRG900 PRG900CB

SELINTCV

KBNIMH-1



ELECTRONIC PROGRAMMERS



MICROPROCESSOR CONTROLLED FOR 230V MOTORS



CARDIN PRO

MAINS POWER SUPPLY 230 Vac

MOTOR OUTPUT 230 Vac

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 230 Vac.

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.



PRG304E



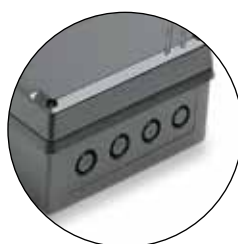
AUTOMATIC CLOSING



WATERPROOF CONTAINER IP55



EXTRACTABLE TERMINAL BOARD



READY TO FIT RIGID TUBE ENTRY POINTS



LED DISPLAY

CARDIN PRO



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMERS FOR THE CONTROL OF ONE 230V MOTOR WITH MAXIMUM POWER YIELD 650 W

Digital work time control. Command inputs: TA, TC and TB. Security inputs: photocells, safety edge (N.C. contact or 8.2 k Ω), digital safety edge.

Output for a courtesy light 230 Vac 300 W and for a led warning light. The appliance is supplied with a "S449", 433 MHz, "FM" decoder.

Suitable for the control of automatic rolling shutters.



Overall dimensions
135 x 175 x 85

ELECTRONIC CONTROL UNIT, BASIC VERSION

PRG304E

ELECTRONIC PROGRAMMER WITH EXTERNAL CONTROL BUTTONS

PRG304ETC

ELECTRONIC PROGRAMMERS FOR THE CONTROL OF ONE 230V MOTOR WITH MAXIMUM POWER YIELD 600 W

Digital work time control. Possible operation without mechanical travel limits. Command inputs: TA, TC, TD, TB. The appliance is fitted with an interface for the insertion of a standard Cardin radio receiver card.

(complete with cable glands \varnothing 2 x \varnothing 9 mm + \varnothing 2 x \varnothing 16 mm)

Suitable for the control of automatic road barriers.

PRG302E



Overall dimensions
135 x 175 x 85

SLOT-IN CARD

Slot-in card that allows the complete control of the opening and closing micro-switches as well as the control of the inverting photocells (for application on 230V road barriers)

YPR302SR2



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

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.

PRG807001



Overall dimensions
210 x 300 x 105

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

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.

PRG230M2



ADDITIONAL FUNCTION CARD

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);
- 8.2 k Ω safety edge management.

SESLC



CABLE GLANDS KIT

Cable glands 4 x \varnothing 16 mm.

XSL4DIE09960



ELECTRONIC PROGRAMMERS



SINGLE PHASE - THREE PHASE MOTORS FOR INDUSTRIAL INSTALLATIONS

CARDIN PRO

MAINS POWER SUPPLY 230 Vac / 400 Vac

MOTOR OUTPUT:

SINGLE PHASE 230 Vac

THREE PHASE 400 V3~.

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. The appliances feature integrated logic and function activation confirmation using leds.

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 appliances can take a Cardin standard slot-in receiver card and are supplied with cable glands.

Electronic devices for the control of automatic opening systems with one gate leaf: sliding gates, hinged gates, garage doors and factory doors.

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.

PRG383TCE



DOOR SECURITY SWITCH



EMERGENCY BUTTON



EXTERNAL COMMAND BUTTONS



FITTED WITH PIPE GLANDS



STAINLESS STEEL HINGES



PRODUCT DESCRIPTION

ORDER NUMBER

INDUSTRIAL PROGRAMMER CONTROLLING ONE SINGLE PHASE / THREE PHASE MOTOR

- 370 W Single phase power supply 230 Vac,

- 700 W Three phase power supply 400 V3~.

Automatic, semiautomatic, manual and remote control functions.

Command inputs TA, TB, TC, TD, TAL.

Incorporated door security switch.

Optional external control buttons.

Electric brake output.

Interface for a standard slot-in radio receiver card.

Supplied with 4 x Ø16 mm cable glands.

Suitable for the control of industrial gates and doors with one single-phase/three phase motor.

230V

400V

PRG383TCE



Overall dimensions
175 x 265 x 105

ELECTRONIC CONTROL UNIT, BASIC VERSION

PRG3830CE

ELECTRONIC PROGRAMMER WITH EXTERNAL CONTROL BUTTONS

PRG383TCE

INDUSTRIAL PROGRAMMER CONTROLLING ONE THREE PHASE MOTOR

- 2200 W Three phase power supply 400 V3~.

Automatic, semiautomatic, manual and remote control functions.

Command inputs TA, TB, TC, TD, TAL.

Incorporated door security switch.

Optional external control buttons.

Electric brake output.

Interface for a standard slot-in radio receiver card.

Supplied with 4 x Ø16 mm cable glands.

Suitable for the control of industrial gates and doors with one three phase motor.

400V

PRG3840CE



Overall dimensions
175 x 265 x 105

ELECTRONIC CONTROL UNIT, BASIC VERSION

PRG3840CE

ELECTRONIC PROGRAMMER WITH EXTERNAL CONTROL BUTTONS

PRG384TCE

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.

CARDIN PRO

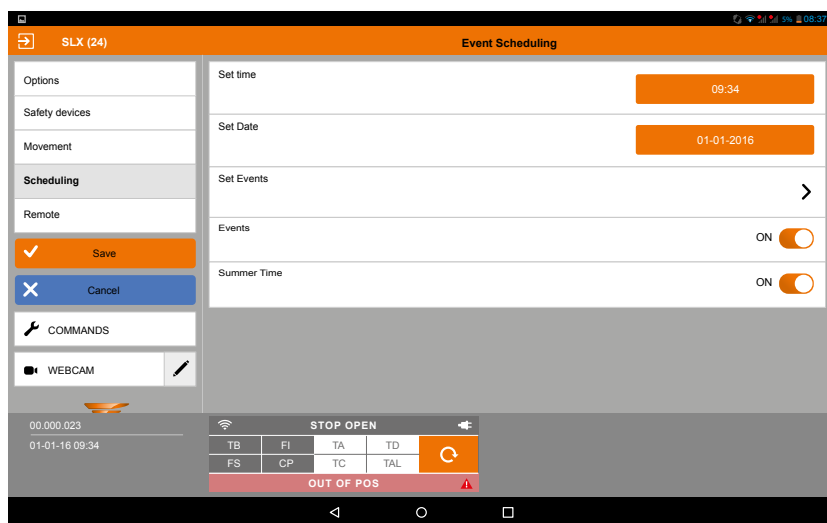
INTPRG is a device that allows you to remotely monitor and configure the multi-functional electronic control units using the professional app CRDTWO. Bluetooth connection to the ECU is made either by inserting the interface modules or via cable which then connects to the Cardin gateway Cardin via 3G 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.

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



CARDIN PRO



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



BLUETOOTH MODULE

The BT module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface via BLUETOOTH.

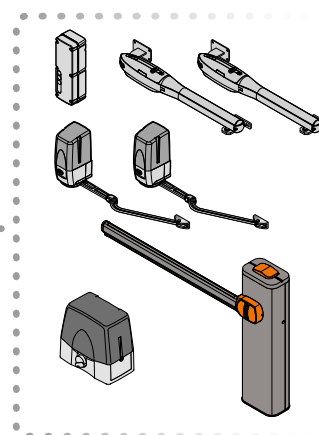
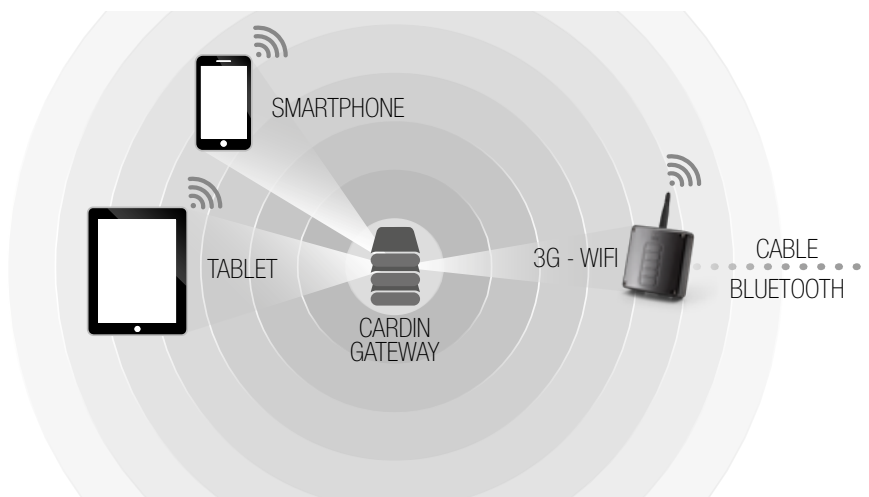
MODBT



DATA INTERFACE MODULE VIA CABLE

The CB module allows the exchange of information between the motor's electronic control unit and the Cardin 3G/WF interface.

MODCA



ELECTRONIC PROGRAMMERS



MICROPROCESSOR CONTROLLED FOR 24V MOTORS



CARDIN TRADE

MAINS POWER SUPPLY 230 Vac
MOTOR OUTPUT 24 Vdc
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. Powered by 24 Vdc they intelligently manage the movement of the gate.

The appliances either work with encoder controlled or timer controlled gate positioning (automatic system detection).

Specially studied and designed for this type of use, these programmers are fitted with digital time programming thus markedly 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 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 and allow the system parameters such as the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function and electric lock setting etc. to be set rapidly (using dip switches)

Compatible with the PRG-LINK system (T624 only) that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

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.

T624



T124 ECU



ROBUST SHOCKPROOF CASING



EXTRACTABLE TERMINAL BOARD



ADJUSTABLE WALL
FASTENING POINTS



SEALING GASKETS IP56



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMER FOR ONE 24 V MOTOR

Encoder controlled programmer complete with torque limitation, and deceleration.

T124



ELECTRONIC PROGRAMMER FOR ONE OR TWO 24 V 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 PRG LINK system.

T624



ADHESIVE KEYPAD

Adhesive keypad in polycarbonate complete with all wiring and connections. For indoor this keypad is easily attached to the box cover for the ECU model T624.

TAST 3F



BATTERIES WITH SUPPORT BOX

Battery charger, two 12V 2Ah batteries with supports for fixing the batteries to the cover of the electronic programmer complete with wiring cable.

SPB24M



EXTERNAL BOX

with 2 batteries 12 V 7 Ah.

SPB24



BATTERY CHARGER

for use with 24 V programmers.

CB24



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.

Two solar panels complete with adjustable brackets.

Watertight box with batteries, command electronics and charger.

SUNPOWER



ELECTRONIC PROGRAMMERS



SINGLE PHASE - THREE PHASE MOTORS FOR INDUSTRIAL INSTALLATIONS



CARDIN TRADE

MAINS POWER SUPPLY 230 Vac

MOTOR OUTPUT:

SINGLE PHASE 230 Vac

THREE PHASE 400 V3~.

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.

Dedicated to 230 Vac and 400 V3~ motors (T400) they intelligently manage the movement of the gate.

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

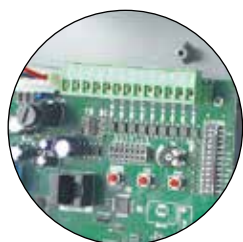
Compatible with the PRG-LINK system (T600 only) that allows you to control and program the system parameters from a remote location and with the SUN POWER system.

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.

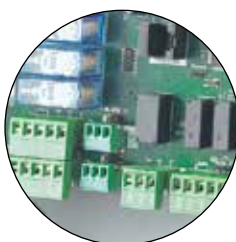
T600



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 complete with torque limitation, and deceleration.



T101



ELECTRONIC PROGRAMMER FOR TWO 230V MOTORS

Encoder controlled programmer with torque limitation, deceleration, 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;
- compatible with the PRG LINK system.



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 this keypad is easily attached to the box cover for ECU models: T600 - T400.

TAST 3F



ELECTRONIC PROGRAMMERS



FOR 230V ROLLING GRILLS AND ROLLING SHUTTERS



CARDIN TRADE

MAINS POWER SUPPLY 230 Vac
MOTOR OUTPUT 230 Vac
MOTOR POWER 1000 W.
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 230 Vac they intelligently manage the movement of the gate.

The functions are programmed via dip-switches

The electronic programmers T21 and T31 have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic and remote control functions. 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 1000 W for the dead man control of rolling grills or rolling shutters.

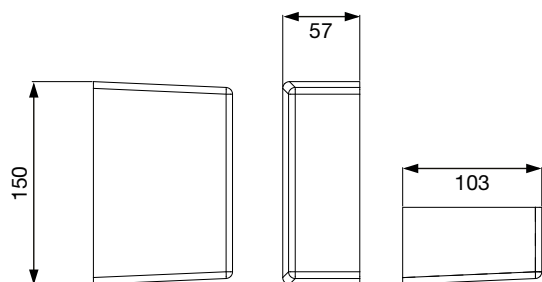
T31



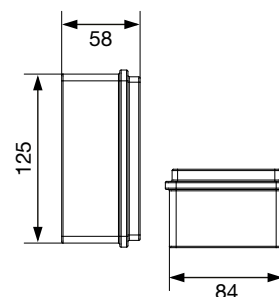
T1



OVERALL DIMENSIONS



T21 - T31



T1



PRODUCT DESCRIPTION

ORDER NUMBER

ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR

ECU for rolling grills or rolling shutters. Ideal for tubular rolling shutter motors complete with travel limits.
Protection grade IP55.



T21



ELECTRONIC PROGRAMMER CONTROLLING ONE 230V MOTOR

ECU for rolling grills or rolling shutters similar to the T21 but also fitted with travel limit inputs, motor power adjustment and a courtesy light output.
Protection grade IP55.



T31



COMMAND CARD CONTROLLING ONE 230V MOTOR

Ideal for the manual control of one rolling grill or rolling shutter motor.
Protection grade IP55.



T1



PROGRAMMER INTERFACE



CARDIN TRADE PRG LINK

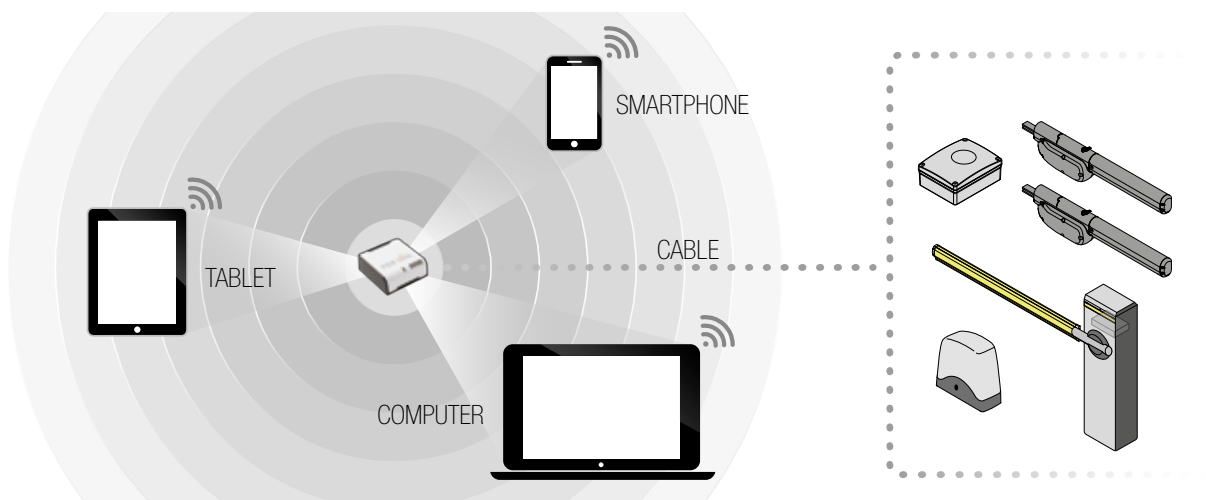
The PRGLINK system is a Wi-Fi interface dedicated to programming, control and diagnostics of Cardin's Trade control units. Exploiting the graphic potential of an application that can be managed through a normal web browser, PRG – LINK allows operators to access the countless customisations of every single system to achieve maximum functionality in all cases. All that is needed is a laptop, a tablet or a smartphone and naturally a PRG-LINK connection for precise diagnostics so that work is properly targeted and conclusive. A new, quick and extremely convenient way of working for those who are dealing with automated devices every day and would, in future, like to manage systems also through remote Wi-Fi connections.



WiFi ELECTRONIC PROGRAMMER

The WiFi interface allows control monitoring, diagnostics and system parameters to be set using a browser.

PRG LINK



POWER SUPPLY KIT FOR SOLAR PANELS



PRODUCT DESCRIPTION

ORDER NUMBER



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 brick work. SUN POWER is compatible with all the Cardin Trade control units for 24 Vdc motors, making them independent, reducing electricity costs and respecting the environment.



POWER SUPPLY KIT

Solar panels for use with all 24 Vdc automation.
Two solar panels complete with adjustable brackets.
Watertight box with batteries, command electronics and charger.

SUNPOWER



SUPPLEMENTARY SOLAR PANEL KIT

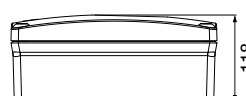
Two solar panels complete with adjustable brackets.

SPW10

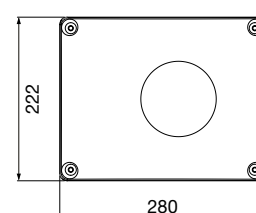


GENERAL CHARACTERISTICS

		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





RADIO CONTROL SYSTEMS

RAPID SELECTION GUIDE

PAGE 208

MORPHEUS

PAGE 212

S500

PAGE 216

S400

PAGE 222

TXQ PRO

PAGE 230

FM 400 - NOIRE - EDGE

PAGE 232

RAPID GUIDE

RADIO CONTROL SYSTEMS



MORPHEUS

TRANSCEIVER
433 MHz
"FM" ROLLING CODE



1 CHANNEL



2 CHANNELS



3 CHANNELS



4 CHANNELS



4 CHANNELS + AERIAL

S500

433 MHz
"FM" ROLLING CODE



2 PRECODED CHANNELS



4 PRECODED CHANNELS



4-CHANNEL KEYPAD

868 MHz
"FM" ROLLING CODE



2 PRECODED CHANNELS



4 PRECODED CHANNELS



4-CHANNEL KEYPAD

S400

433 MHz
"FM" ROLLING CODE



868 MHz
"FM" ROLLING CODE



1 CHANNEL



2 CHANNELS



3 CHANNELS



4 CHANNELS



4-CHANNEL WALL-MOUNTING TRANSMITTER



4-CHANNEL KEYPAD



1 CHANNEL



2 CHANNELS



3 CHANNELS



4 CHANNELS



4-CHANNEL WALL-MOUNTING TRANSMITTER



4-CHANNEL KEYPAD

TXQ PRO

MORPHEUS
S500
S400



MORPHEUS



4 CHANNELS
4 CH + AERIAL

S504



4 CHANNELS
4 CH + AERIAL

S508



4 CHANNELS
4 CH + AERIAL

RAPID GUIDE

RADIO CONTROL SYSTEMS



TRANSCEIVER MORPHEUS



TRANSCEIVER
4 CHANNELS



TRANSCEIVER
4 CHANNELS + INPUTS



TRANSCEIVER
MINI 2 CHANNELS



TRANSCEIVER
SLOT-IN 2 CHANNELS



TRANSCEIVER
MULTIPROTOCOL INTER.

S504 / S508 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



ROLLING GRILLS PROGRAMMER



ON/OFF PROGRAMMER



PROGRAMMER ROLLING
SHUTTERS / AWNINGS



MULTIPROTOCOL INTER.

S449 / S486 RECEIVERS



3G RECEIVER
WIFI RECEIVER



4-CHANNEL RECEIVER
+ DISPLAY



4-CHANNEL RECEIVER



2-CANNEL MINI RECEIVER



2-CHANNEL SLOT-IN
RECEIVER CARD



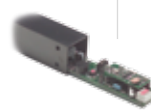
2-CHANNEL
OPEN COLLECTOR



ROLLING GRILLS PROGRAMMER
ON/OFF PROGRAMMER



PROGRAMMER FOR
ROLLING SHUTTERS



PROGRAMMER FOR
AWNINGS



MULTIPROTOCOL INTER.

S449



4 CHANNELS
4 CH + AERIAL

S486



4 CHANNELS
4 CH + AERIAL

RAPID GUIDE

RADIO CONTROL SYSTEMS



FM 400

433 MHz
"FM" ROLLING CODE

433
MHz



2 CHANNELS



4 CHANNELS



5 CHANNELS



21 CHANNELS



4-CHANNEL
KEYPAD

NOIRE

433 MHz
"AM" ROLLING CODE

433
MHz



2 CHANNELS



4 CHANNELS



5 CHANNELS



21 CHANNELS



4-CHANNEL
KEYPAD

EDGE

433 MHz
"AM" FIXED CODES

433
MHz



1 CHANNEL



2 CHANNELS



5 CHANNELS



21 CHANNELS



3 CHANNELS



4-CHANNEL
KEYPAD

RAPID GUIDE

RADIO CONTROL SYSTEMS



2-CHANNEL
OPEN COLLECTOR



2-CHANNEL
MINI RECEIVER



4 CHANNEL
OUTDOOR RECEIVER



4 CHANNEL 230V
OUTDOOR RECEIVER



PROGRAMMER FOR
ROLLING GRILLS / SHUTTERS



2-CHANNEL
OPEN COLLECTOR



2-CHANNEL
MINI RECEIVER



4 CHANNEL
OUTDOOR RECEIVER



4 CHANNEL 230V
OUTDOOR RECEIVER



PROGRAMMER FOR
ROLLING GRILLS / SHUTTERS



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 TRANSCEIVER WITH ROLLING CODES



WITH SIGNAL RECEPTION CONFIRMATION



RADIO CONTROL SYSTEMS

433 MHz "FM" "ROLLING CODE"

2^{128} CODE COMBINATIONS

RECHARGEABLE Li-Poly BATTERY

AERIAL ANS400

AVAILABLE CHANNELS 1-4

RANGE 100 - 200 m

MOBILE TRANSCEIVER WITH AERIAL 700 m

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.

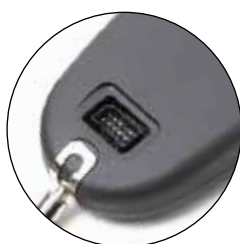
The first time the appliance is used it should be completely charged until the green LED lights up.



MORPH433T4A



OPERATION INDICATOR



BATTERY CHARGER CONNECTION



AERIAL RANGE 700 m



BATTERY CHARGE STATUS LED



BATTERY CHARGER VIA USB



PRODUCT DESCRIPTION

ORDER NUMBER

MOBILE TRANSCEIVER

Container in shockproof plastic material.
3,7 V power supply with Li-Poly rechargeable battery.
Overall dimensions 34 x 72 x 11.



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

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 web www.cardin.it.

MORPHKEY

KIT BATTERY CHARGER

The charger kit consists of:

- battery charger key MORPHKEY;
- mains transformer;
- USB cable.

MORPHKEYCB

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



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 MORPH433RC

The outdoor (ABS IP55) stationary transceiver is fitted with a 15-way terminal board and has a 12/24V ac-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 - MCCMORPHM0

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 200 ms to 3 s.



MORPH433RC

Impulsive/ON-OFF selection

Relay module

Power supply 12/24 Vac/dc



433 MHz, FM RF module

Connection for two aerials ANS400

4 outputs with impulsive/ON-OFF selection



PRODUCT DESCRIPTION

ORDER NUMBER

OUTDOOR STATIONARY TRANSCEIVER (12/24 Vac-dc)

All weather box in ABS - IP44.

4-channel transceiver with ON/OFF-impulsive relay settings.

OUTDOOR STATIONARY TRANSCEIVER WITH SIGNAL INPUTS (12/24 Vac-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.

2-CHANNEL MINI STATIONARY TRANSCEIVER (12/24 Vac-dc)

Electronic circuit with a 10-way terminal block; Indoor box IP20.

ON/OFF-impulsive relay settings.

SLOT-IN STATIONARY TRANSCEIVER CARD (24 Vac-dc)

Transceiver card for direct insertion into a host appliance designed to receive it.

ON/OFF-impulsive relay settings.

RF MODULE FOR STATIONARY TRANSCEIVERS 433 MHz

Superheterodyne in FM with a digital filter.

RF module without decoder suitable for receiving and transmitting digital signals.

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.

STRIP MORPHEUS WITH 1 PROGRAMMABLE RELAY

The relay can be set on the receiver to one of the functions.

MEMORY MODULE (MAX 1000 CODES)

Extractable and furnished with non volatile memory, this EEPROM contains the system code.

SLOT-IN RECEIVER ADAPTOR

Allows you to use the AMP 10-way receiver card connector as a standard terminal block.

AERIAL FOR 433 MHz RECEIVERS

COAXIAL CABLE RG58 (per metre)

MORPH433RC

1 relay inserted.

Possibility of memorising up to 1000 codes.

Overall dimensions 110 x 110 x 33.



MORPH433AL

Possibility of memorising up to 1000 codes.

Overall dimensions 110 x 110 x 33.



MORPH433RM

Possibility of memorising up to 1000 codes.

Overall dimensions 95 x 75 x 25.



MORPH433RS

Possibility of memorising up to 1000 codes.

Overall dimensions 70 x 52 x 20.



JRFMORPH43300

Voltage: 3 Vdc - Electrical input: 15 mA.

Overall dimensions 40 x 20 x 13.



MORPH433W00

Carrier frequency

433,92 MHz.

Power supply

2/24 Vac-dc.

Electrical input

20 mA.

Overall dimensions

120 x 85 x 20 mm.



MCCMORPHMO



ZGB24LC64-I/P



RSQSPP



ANS400

ZVCRG58



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES



RADIO CONTROL SYSTEMS

433 MHz - 868 MHz "FM" "ROLLING CODE"

2^{128} CODE COMBINATIONS

REMOTE TRANSMITTER MEMORISATION

AVAILABLE CHANNELS 2-4

RFID: WIRELESS MEMORY

RANGE 100 - 150 m

AERIAL ANS400 - ANQ800-1

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.

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 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.

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 to the RFID technology fitted into the transmitters.

TXQ504C4



TXQ508C4



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

TRANSMITTERS

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Overall dimensions 35 x 80 x 11.

2-CHANNEL PRECODED TRANSMITTER

4-CHANNEL PRECODED TRANSMITTER



TXQ504C2

TXQ504C4



2-CHANNEL PRECODED TRANSMITTER

4-CHANNEL PRECODED TRANSMITTER



TXQ508C2

TXQ508C4



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.
3 V 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 (433 MHz) and S508 (868 MHz) 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



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES



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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 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.

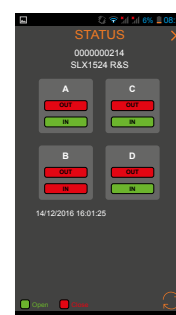
The receiver can manage up to four programmable channel modules (impulsive/ON-OFF/timer controlled, NO/NC contact type and power on reset). The CARDINTX_SW, software that can be downloaded from the website www.cardin.it allows the stored user codes to be managed by means of one of three possible connection 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 a defect has been detected (resetting the position status of the door, security devices, presence/absence of power etc.), 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.



3G/WiFi receiver



APP CARDIN "CRD ONE" FOR SMARTPHONE AND TABLET





PRODUCT DESCRIPTION

ORDER NUMBER

RECEIVERS WITH LCD DISPLAY AND 3G/WIFI FUNCTIONS (12/24 Vac-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 MCCMORPHMO (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 RCQ504/508-3G10 receivers include a 10 year subscription with our partner Vodafone.



3G receiver



WiFi receiver

2G-3G RECEIVERS

2G-3G RECEIVERS + SIM VODAFONE

2G-3G WiFi



RCQ504-3G

RCQ504-3G10

RCQ504-WF



2G-3G RECEIVERS

2G-3G RECEIVERS + SIM VODAFONE

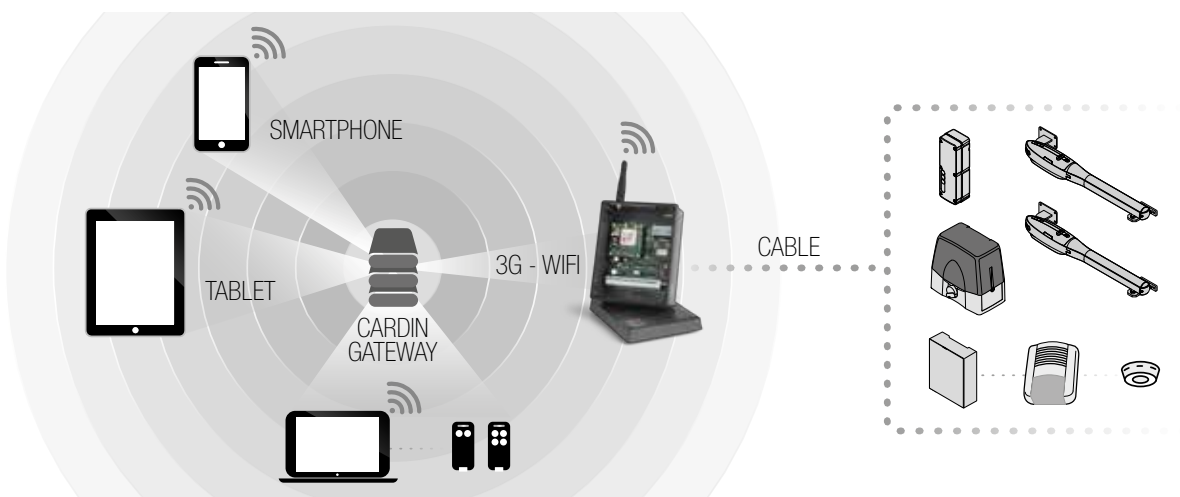
2G-3G WiFi



RCQ508-3G

RCQ508-3G10

RCQ508-WF





PRODUCT DESCRIPTION

ORDER NUMBER

STANDARD OUTDOOR RECEIVER (12/24 Vac-dc)

All weather box in ABS - IP55.

Overall dimensions 148 x 118 x 40.

The unit can be fitted with up to four interchangeable relay modules MCCMORPHMO, which can be set to ON/OFF or impulsive. 1 relay inserted. Possibility of memorising up to 1000 codes.

OUTDOOR RECEIVER WITH DISPLAY (12/24 Vac-dc)

All weather box in ABS - IP55.

Overall dimensions 148 x 118 x 40

The unit can be fitted with up to four interchangeable relay modules MCCMORPHMO, which can be impulsive, ON-OFF or timer controlled. 1 relay inserted. Possibility of memorising up to 1000 codes.

2-CHANNEL MINI RECEIVER (12/24 Vac-dc)

Indoor box IP20.

Overall dimensions 95 x 75 x 25.

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.

2-CHANNEL SLOT-IN RECEIVER CARD (24 Vac-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.

2-CHANNEL RECEIVER CARD (5 Vdc)

Open collector receiver card for direct insertion into a host appliance designed to receive it. Overall dimensions 48 x 35 x 10.

Impulsive channels. Possibility of memorising up to 1000 codes.

RADIOPROGRAMMERS FOR ROLLING GRILLS (230V-600W)

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 1000 transmitters.

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 1000 user codes.

Timer settings: from 1 min. to 23 hrs. 59 min.

QUARTZ RECEIVER MODULE (433 MHz - 868 MHz)

Superheterodyne in FM with a digital filter.

RF module without decoder for the reception of digital signals.

Voltage: 5 Vdc - Electrical input: 15 mA

Overall dimensions 40 x 20 x 13.

RCQ504C1

RCQ508C1



RCQ504D1

RCQ508D1



RQM504C2

RQM508C2



RSQ504C2

RSQ508C2



RSQ5040C2

RSQ5080C2



RPQ504

RPQ508



RPQ504IT0

RPQ508IT0

All weather box in ABS - IP55.

Overall dimensions

139 x 115 x 44.



JRF433QFMDG1

JRF868QFMDG1





PRODUCT DESCRIPTION

ORDER NUMBER

RADIOPROGRAMMERS FOR ROLLING SHUTTERS (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. The appliance is designed for the connection of an anemometer (see chapter COMMAND AND SAFETY DEVICES).

MULTIPROTOCOL INTERFACE

The interface is able to decode a radio frequency signal coming from a S504-S508 transmitter or via cable from a DKS250T 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. Complete with an interface cable and CD-ROM software.

STRIP WITH 1 PROGRAMMABLE RELAY (S504 - S508)

The relay can be set on the receiver to one of the functions.

CODE MEMORY MODULES

Extractable and furnished with non volatile memory, this EEPROM contains the system code

1000-CODE MEMORY MODULE (RECEIVERS S504D1-S508D1) VERTICAL

1000-CODE MEMORY MODULE (S504 - S508)

3000-CODE MEMORY MODULE FOR 2G-3G-WIFI RECEIVER

SLOT-IN RECEIVER ADAPTOR

Allows you to use the AMP 10-way receiver card connector as a standard terminal block.

AERIAL FOR 433 MHz RECEIVERS

AERIAL FOR 868 MHz RECEIVERS

COAXIAL CABLE RG58 (per metre)

KIT AERIAL EXTENSION 2G - 3G WiFi 10 m SMA-M

KIT AERIAL EXTENSION 2G - 3G WiFi 5 m SMA-M

LITHIUM BATTERY 3 V (2 X CR2032)

RPQ504RNA0

RPQ508RNA0

Indoor box IP43.

Power supply 230 Vac.

Overall dimensions 120 x 85 x 20



RCQ504W00

RCQ508W00

Power supply

12/24 Vac-dc.

Electrical input

20 mA.

Overall dimensions

148 x 118 x 40.

All weather box in ABS - IP55.

Carrier frequency

433,92 MHz - 868,3 MHz.



MCCMORPHMO



MCC24LC64

ZGB24LC64-I/P

ZGB24LC256-I/P



RSQSPP



ANS400

ANQ800-1

ZVCRG58



ANSKITGSMWF10

ANSKITGSMWF5



XRP03



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES



RADIO CONTROL SYSTEMS

433 MHz - 868 MHz "FM" "ROLLING CODE"

2⁶⁶ 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.

TXQ449400



TXQ486400



SELF-LEARNING



MEMO RADIO - KEY LOCK



ERGONOMIC BUTTONS



COMPACT CASE



3V LITHIUM BATTERY



PRODUCT DESCRIPTION

ORDER NUMBER

433 MHz TRANSMITTERS

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Overall dimensions 34 x 72 x 11.

1-CHANNEL TRANSMITTER

2-CHANNEL TRANSMITTER

3-CHANNEL TRANSMITTER

4-CHANNEL TRANSMITTER

2-CHANNEL PRECODED TRANSMITTER

4-CHANNEL PRECODED TRANSMITTER

433
MHz



TXQ449100

TXQ449200

TXQ449300

TXQ449400

TXQ4492P0

TXQ4494P0

868 MHz TRANSMITTERS

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Overall dimensions 34 x 72 x 11.

1-CHANNEL TRANSMITTER

2-CHANNEL TRANSMITTER

3-CHANNEL TRANSMITTER

4-CHANNEL TRANSMITTER

2-CHANNEL PRECODED TRANSMITTER

4-CHANNEL PRECODED TRANSMITTER

868
MHz



TXQ486100

TXQ486200

TXQ486300

TXQ486400

TXQ4862P0

TXQ4864P0

4-CHANNEL WALL TRANSMITTER

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Wall mounting.
Available in 433 MHz and 868 MHz versions.
Overall dimensions 72 x 72 x 15.

TXQ44940M

TXQ48640M



NUMERICAL CODE KEYPAD VIA RADIO

Container in shockproof polycarbonate IP57.
6 V lithium battery power supply 2 x CR2032 (KITSSB-T9K4-1).
Number of code available combinations: 1.000.000.
Communicates with all standard S449 (version 433 MHz) and S486 (version 433 MHz) 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



DIGITAL QUARTZ RADIO CONTROLS WITH ROLLING CODES



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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 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.

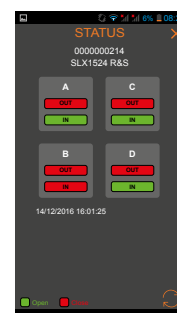
The receiver can manage up to four programmable channel modules (impulsive/ON-OFF/timer controlled, NO/NC contact type and power on reset). The CARDINTX_SW, software that can be downloaded from the website www.cardin.it allows the stored user codes to be managed by means of one of three possible connection methods: direct via USB cable, using the mobile communications network with a 2G/3G module or using a WiFi 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 a defect has been detected (resetting the position status of the door, security devices, presence/absence of power etc.), 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.



3G/WiFi receiver



APP CARDIN "CRD ONE" FOR SMARTPHONE AND TABLET





PRODUCT DESCRIPTION

ORDER NUMBER

RECEIVERS WITH LCD DISPLAY AND 3G/WIFI FUNCTIONS (12/24 Vac-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 MCCMORPHMO (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 RCQ449/486-3G10 receivers include a 10 year subscription with our partner Vodafone.



3G receiver



WiFi receiver

2G-3G RECEIVERS

2G-3G RECEIVERS + SIM VODAFONE

2G-3G WiFi

433
MHz

RCQ449-3G

RCQ449-3G10

RCQ449-WF



2G-3G RECEIVERS

2G-3G RECEIVERS + SIM VODAFONE

2G-3G WiFi

868
MHz

RCQ486-3G

RCQ486-3G10

RCQ486-WF



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 2G-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.

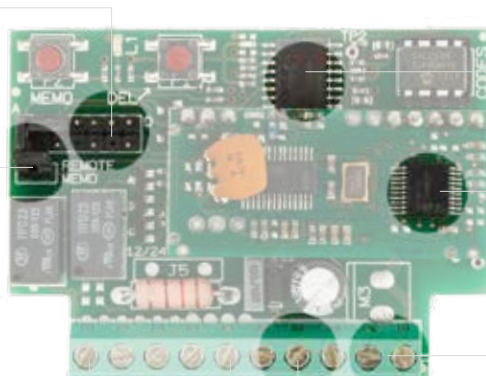
The receiver cards are fitted with two relays the outputs of which are marked CH1 (N.O. contact) and CH2 (N.O./N.C. contact). The relays CH1 and CH2 can be activated by selecting the functions A-B-C-D and made to correspond with the transmitter channels CHA-CHB-CHC-CHD by setting the jumpers situated 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.

Channel selection jumper

Memorizing ulterior channels
via radio

2 outputs with impulse contact



Extractable memory module 300 codes

433 MHz, FM RF module

ANS400 aerial connection

Power supply 12/24 Vac/dc



PRODUCT DESCRIPTION

ORDER NUMBER

STANDARD OUTDOOR RECEIVER (12/24 Vac-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.

OUTDOOR RECEIVER WITH DISPLAY (12/24 Vac-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.

2-CHANNEL MINI RECEIVER (12/24 Vac-dc)

Electronic circuit with a 10-way terminal block; Indoor box IP20.

Supplied with 2 impulsive relays.

Possibility of memorising up to 300 codes.

Overall dimensions 95 x 75 x 25.

2-CHANNEL SLOT-IN RECEIVER CARD (24 Vac-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.

2-CHANNEL RECEIVER CARD (5 Vdc)

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.

RADIOPROGRAMMERS FOR ROLLING GRILLS (230V-600W)

Power supply 230 Vac. 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.

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.

QUARTZ RECEIVER MODULE (433 MHz - 868 MHz)

Superheterodyne in FM with a digital filter.

RF module without decoder for the reception of digital signals.

Voltage: 5 Vdc - Electrical input: 15 mA

Overall dimensions 40 x 20 x 13.

RCQ449100

RCQ486100



RCQ449D00

RCQ486D00



RQM449200

RQM486200



RSQ449200

RSQ486200



RSQ4490C2

RSQ4860C2



RPQ449

RPQ486



RPQ449IT0

Power supply 230 Vac.

All weather box in ABS - IP55.

Overall dimensions 139 x 115 x 44.



JRF433QFMDG0

JRF868QFMDG0





PRODUCT DESCRIPTION

ORDER NUMBER

RADIOPROGRAMMERS FOR ROLLING SHUTTERS (400W)

The radio programmer allows the remote control of one single phase motor and finds its best use in the command of automatic rolling shutters. The appliance is designed for the connection of an anemometer (see chapter COMMAND AND SAFETY DEVICES).

RADIOPROGRAMMERS FOR 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).

MULTIPROTOCOL INTERFACE

The interface is able to decode a radio frequency signal coming from a S504-S508 transmitter or via cable from a DKS250T 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. Complete with an interface cable and CD-ROM software.

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, external power unit and CD-ROM software.

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.

10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

10 TRANSPONDER CLIPS (LIGHT GREY)

10 TRANSPONDER CLIPS (DARK GREY)

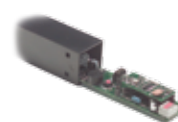
RP449RNA0

Indoor box IP43.
Power supply 230 Vac.
Overall dimensions 120 x 85 x 20.



RP449BNA0

(special for square tube rollers 40 x 40 mm)
Indoor box IP20.
Power supply 230 Vac.
Overall dimensions 280 x 32 x 32



RCQ449W00

RCQ486W00

Power supply 12/24 Vac-dc.
Electrical input 20 mA.
Overall dimensions 148 x 118 x 40.
All weather box ABS - IP55.
Carrier frequency 433,92 MHz - 868,3 MHz.



PGM449

PGM486

Carrier frequency 433,92 - 868,3 MHz.
Internal power supply (battery) 9 Vdc.
External power supply 12 Vac-dc.
Display backlighting 16 characters x 4 lines.
A maximum of 2000 reserved KEY449 codes.



KEY449



COVERMIX200

COVERMIX400



COVERTP-LG

COVERTP-DG





PRODUCT DESCRIPTION

ORDER NUMBER

STRIP WITH 1 IMPULSIVE RELAY (N.O. CONTACT)

The relay remains active while the channel button is kept pressed down.

STRIP WITH 1 IMPULSIVE RELAY (N.C. CONTACT)

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)

1000-CODE MEMORY MODULE (S449D - S486D)

3000-CODE MEMORY MODULE FOR 2G-3G-WIFI RECEIVER

SLOT-IN RECEIVER ADAPTOR

Allows you to use the AMP 10-way receiver card connector as a standard terminal block.

AERIAL FOR 433 MHz RECEIVERS

AERIAL FOR 868 MHz RECEIVERS

COAXIAL CABLE RG58 (per metre)

KIT AERIAL EXTENSION 2G - 3G WiFi 10 m SMA-M

KIT AERIAL EXTENSION 2G - 3G WiFi 5 m SMA-M

LITHIUM BATTERY 3 V (2 X CR2032)

MCC4491R0

MCC4491RC



ZGB24LC16-I/P

ZGB24LC64-I/P

ZGB24LC256-I/P



RSQSPP



ANS400

ANQ800-1

ZVCRG58



ANSKITGSMWF10

ANSKITGSMWF5



XRP03



INDUSTRIAL "ROLLING CODE" TRANSMITTERS/TRANSCEIVERS



RADIO CONTROL SYSTEMS

TXQPROMRF

433 MHz "FM" "ROLLING CODE"
 2^{128} CODE COMBINATIONS

TXQPRO449 - TXQPRO486

433 MHz - 868 MHz "FM" "ROLLING CODE"
 2^{66} CODE COMBINATIONS

TXQPRO504 - TXQPRO508

433 MHz - 868 MHz "FM" "ROLLING CODE"
 2^{128} CODE COMBINATIONS

AVAILABLE CHANNELS 4

RANGE 200 (700 m 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 mobile 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 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

MOBILE INDUSTRIAL TRANSCEIVER MORPHEUS, "FM" "ROLLING CODE"

Container in shock-proof, water-proof material IP65.
Power supply 6 V with lithium batteries 2 x CR123A.
Overall dimensions 50 x 145 x 26.

4-CHANNEL MOBILE TRANSCEIVER (INTERNAL AERIAL)

4-CHANNEL MOBILE TRANSCEIVER (EXTERNAL AERIAL)

433
MHz



TXQPROMRF-4

TXQPROMRF-4A



INDUSTRIAL TRANSMITTER S449, "FM" "ROLLING CODE"

Container in shock-proof, water-proof material IP65.
Power supply 6 V with lithium batteries 2 x CR123A.
Overall dimensions 50 x 145 x 26.

4-CHANNEL TRANSMITTER (INTERNAL AERIAL)

4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)

433
MHz

TXQPR0449-4

TXQPR0449-4A



INDUSTRIAL TRANSMITTER S486, "FM" "ROLLING CODE"

Container in shock-proof, water-proof material IP65.
Power supply 6 V with lithium batteries 2 x CR123A.
Overall dimensions 50 x 145 x 26.

4-CHANNEL TRANSMITTER (INTERNAL AERIAL)

4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)

868
MHz

TXQPR0486-4

TXQPR0486-4A



INDUSTRIAL TRANSMITTER S504, "FM" "ROLLING CODE"

Container in shock-proof, water-proof material IP65.
Power supply 6 V with lithium batteries 2 x CR123A.
Overall dimensions 50 x 145 x 26.

4-CHANNEL TRANSMITTER (INTERNAL AERIAL)

4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)

433
MHz

TXQPR0504-4

TXQPR0504-4A



INDUSTRIAL TRANSMITTER S508, "FM" "ROLLING CODE"

Container in shock-proof, water-proof material IP65.
Power supply 6 V with lithium batteries 2 x CR123A.
Overall dimensions 50 x 145 x 26.

4-CHANNEL TRANSMITTER (INTERNAL AERIAL)

4-CHANNEL TRANSMITTER (EXTERNAL AERIAL)

868
MHz

TXQPR0508-4

TXQPR0508-4A



6V-LITHIUM BATTERY PACK

ZRL7.2-1.6



DIGITAL RADIO CONTROLS WITH FIXED / ROLLING CODES



RADIO CONTROL SYSTEMS

FM

433 MHz "FM" "ROLLING CODE"
2⁶⁶ CODE COMBINATIONS

NOIRE

433 MHz "AM" "FIXED / ROLLING CODES"
2⁷² CODE COMBINATIONS

EDGE

433 MHz "AM" "FIXED CODES"
2²⁰ CODE COMBINATIONS

AVAILABLE CHANNELS 2-4-5-21
RANGE 100-150

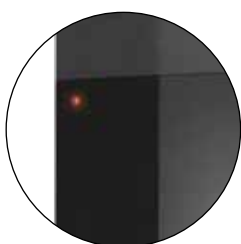
Specifically designed to satisfy all the needs of the market, the TRADE radio control systems are available in three series:

FM400 433 MHz "FM" "Rolling Code" with transmitters that can be personalised in family group codes using the PRG FM programmer;

NOIRE 433 MHz "AM" "Fixed / Rolling Code" with transmitters that can be personalised in family group codes using the PRG FM programmer;

EDGE 433 MHz "AM" "Fixed Code".

The range of radio controls is complete by receivers with self-learning code, extractable memory modules and programmable outputs.



RED INDICATOR LED



WHITE LED DISPLAY



RUBBER KEY PADS



ERGONOMIC BUTTONS



RUBBER KEY RING



PRODUCT DESCRIPTION

ORDER NUMBER

TRANSMITTERS (FM - NOIRE - 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 shock-proof rubber creating a solid and manageable radio control. Rubber keyring.

2-CHANNEL TRANSMITTER FM 400

4-CHANNEL TRANSMITTER FM 400

2-CHANNEL TRANSMITTER NOIRE

4-CHANNEL TRANSMITTER NOIRE

2-CHANNEL TRANSMITTER EDGE

4-CHANNEL TRANSMITTER EDGE



FM402E

FM404E

NOIRE2E

NOIRE4E

EDGE2

EDGE4

TRANSMITTER HOLDER (FM400 - NOIRE - EDGE)

PTE



TRANSMITTERS TAXI (FM - NOIRE - EDGE)

5-channel transmitter with dedicated software for use in the car. Once a button on the radio control has been pressed the transmission will repeat cyclically freeing up the drivers hands and allowing him to drive safely. An easy to use adhesive fastening system is supplied in order to have the transmitter always within reach.

FM400TAXI

NOIRETAXI

EDGETAXI



TRANSMITTERS (FM - NOIRE - EDGE)

Multi-channel transmitters for the rapid and intuitive control of 21 functions. Innovative and elegant cases with white LED display indicating the chosen channels. A rubber keypad is situated centrally with three function buttons and two channel scrolling buttons. Range 200 m.

FM420

NOIRE20

EDGE20



WALL-MOUNTED TRANSMITTER

Wall-mounting transmitter with three function keys 3 and an indicator LED. Ideal for use together with T10 EDGE for the remote control of rolling shutters, grills and 230V ambient lighting.

WIN3





PRODUCT DESCRIPTION

ORDER NUMBER

DIGITAL SELECTOR SWITCH

4 channel, battery powered wireless selector switch, compatible with series FM400 receivers.

4 channel, battery powered wireless selector switch, compatible with series EDGE and NOIRE receivers.

PROTECTIVE SUPPORT

Protective support in cast aluminium for the PASSO selector switch. Lots of 2 pcs.

FASTENING BASE

Wall fastening base for the PASSO selector switch. Cover when installing over pre-existing holes. Lots of 2 pcs.

2-CHANNEL RECEIVER CARD (5 Vdc)

Open collector receiver card for direct insertion into a host appliance designed to receive it.
Overall dimensions 48 x 35 x 10.

2-CHANNEL MINI RECEIVER (12/24 Vac-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.

OUTDOOR RECEIVER (12/24 Vac-dc)

12/24 Vac/dc receiver with four powered outputs (4 A). Self-learning code function and programmable outputs in three different modes. and outdoor box IP44.

PASSOFM400

PASSOR

BLINDO

COP

FM400C2

NOIREOC2

EDGEOC2

FM400RB2

NOIRERB2

EDGERB2

FM400R4P

NOIRER4P

EDGER4P



Dimensions 46 x 133 x 37



Dimensions 110 x 150 x 14





PRODUCT DESCRIPTION

ORDER NUMBER

OUTDOOR RECEIVER (230 Vac)

230V receiver with four powered outputs (max. 5 A 230V). Self-learning code function and programmable outputs in three different modes and outdoor watertight box IP55.

FM400230R4

NOIRE230R4

EDGE230R4



RADIOPROGRAMMERS FOR ROLLING GRILLS (230 Vac)

Control unit for rolling grills and shutters with an in-built receiver. Idea for tube motors, rolling shutter motors or lighting systems with two 230V bulbs. Inputs for controls cable.

T10FM400

T10NOIRE

T10EDGE



1012-CODE MEMORY MODULE (FM 400)

675-CODE MEMORY MODULE (NOIRE - EDGE)

MEM64

MEM16



ELECTRONIC PROGRAMMER FOR FM 400

Programmer for managing single or blocks of codes complete with power supply.

Supplied with archive management software (SOFTFM400).

Allows installation management functions such as memorizing and cancelling transmitters in the receiver memory modules.

PRGFM400



ELECTRONIC PROGRAMMER FOR NOIRE

Programmer for managing single or blocks of codes complete with power supply.

Supplied with archive management software (SOFTNOIRE).

Allows installation management functions such as memorizing and cancelling transmitters in the receiver memory modules.

PRGNOIRE



AERIAL FOR 433 MHz RECEIVERS (FM - NOIRE - EDGE)

COAXIAL CABLE RG58 (per metre)

ANS400

ZVCRG58



LITHIUM BATTERY 3 V (2 X CR2032)

XRP03



LITHIUM BATTERY 3 V CR2430

For 20-channel transmitters series TAXI and WIN3.
Lots of 10 pcs.

B3V2430





COMMAND AND SAFETY DEVICES

PROXIMITY COMMAND SYSTEMS	PAGE 238
SELECTORS AND SENSORS	PAGE 240
METALLIC MASS DETECTORS	PAGE 241
RADIOSHIELD	PAGE 242

PROXIMITY COMMAND SYSTEMS



DKS250T



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)

DKS-250 is an extremely efficient command system via cable, which is easy to install and consists of an anti-tamper numerical key pad and an interface connected by a shielded single wire cable. The DKS-250T keyboard is extremely compact and efficient: the casing is made of Zama, the key cover and sealing gaskets are made of silicon rubber, the flush-fitting and embedding wall fastening bases are both made of Zama and the fastening system uses personalised screws.

A high security system ideal for commanding automatic gates and doors and access control systems that can be inserted into any architectural context with extreme ease. Allows the memorisation of 1000 user codes and has code cancellation and memorisation functions directly on the keyboard. After having inserted a special enabling code it is possible to memorise codes from a remote position without accessing the interface. 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 functions with separate keys using impulsive relays.

DKSTP is an extremely efficient command system via cable, which is easy to install and consists of a transponder reader and an interface, connected by a shielded single wire cable. The transponder reader DKSTPT is compact and reliable and housed in a shockproof polycarbonate container IP57 with an easy to apply wall fastening base.

High security systems suitable for the command of automatic entry systems and access control systems that allow the remote reading of tags (TAGWH and TAGGR) and series S500 transmitters, through the use of the interface DKS1000R, in the memory of which up to 1000 TAGS or Transmitters can be stored.

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.

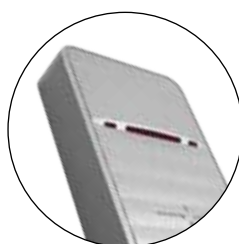
The transponder in the tag is passive and therefore does not require a power supply and is only activated when it finds itself in the transponder reader detection zone.



BUTTONS WITH BACKLIGHTING
DKS250TL



ANTI-TAMPER SYSTEM
DKS250TL



SHOCKPROOF CONTAINER IN
POLYCARBONATE IP57



S500 TRANSMITTERS AND TAGS
DETECTED USING RFID
TECHNOLOGY



MEMORISATION OF UP TO 1000
CODES



PRODUCT DESCRIPTION

ORDER NUMBER

KEYPAD

Surface-mounting IP57.

The keyboard DKS-250T has 12 keys, 10 numerical (0-9), one confirm key (*) and one cancel key (#):

- 1 red indicator led: operation aborted or wrong code inserted;
- 1 green led which together with the buzzer confirms the activation of a key;
- 1 buzzer confirming activation.

KEYPAD

KEYPAD WITH BACKLIGHTING

KIT KEYPAD + INTERFACE

KIT KEYPAD WITH BACKLIGHTING + INTERFACE

TRANSPONDER READER

Surface-mounting IP57.

The DKSTPT transponder reader has the following features:

- 1 red indicator led: TAG or S500 transmitter not memorised;
- 1 green led which confirms the activation of the corresponding output;
- 1 buzzer confirming activation;
- Led lighting the detection zone.

TRANSPONDER READER

KIT TRANSPONDER READER + INTERFACE

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.

KEYPAD WITH TRANSPONDER FUNCTION

KIT KEYPAD TRANSPONDER + INTERFACE

4-CHANNEL INTERFACE

The interface box is easy to install and has the following features:

- power supply 12 or 24 Vac-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).

TRANSPONDER TAG (WHITE)

TRANSPONDER TAG (GREY)

DKS250T



DKS250TL



KIT



Overall dimensions 72 x 104 x 26.

DKS250T

DKS250TL

DKS250

DKS250L

DKSTPT



KIT



Overall dimensions 74 x 130 x 24.

DKSTPT

DKSTP

DKSDUALT



KIT



Overall dimensions 74 x 130 x 20.

DKSDUALT

DKSDUAL

DKS1000R



Overall dimensions 95 x 75 x 25.

TAGWH

TAGGR



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 30 Vac-dc.
Maximum current 2 A.
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 30 Vac-dc.
Maximum current 2 A.
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 30 Vac-dc.
Maximum current 2 A.
Open-close functions.
Overall dimensions 69 x 69 x 78.



EMBEDDING CASE

Wall embedding case for SELCH.

CPM



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 DETECTOR



POWER SUPPLY 24 Vac-dc / 230 Vac
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 100 km/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.

METALDEC



Overall dimensions 101 x 71 x 35.

METALD3



Overall dimensions 146 x 64 x 38.

Technical description

	METALDEC230X	METALDEC024X	METALD3
Power supply:	230 Vac (50-60Hz) 35mA	24 Vac-dc 100 mA	24 Vac-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

SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 24 V)

SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 230V)

SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 24 V)

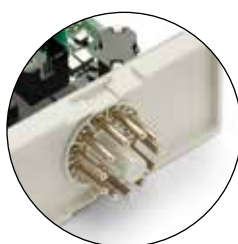
METALDEC024X

METALDEC230X

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

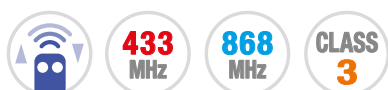


SENSITIVITY SELECTION
DIP-SWITCHES



WIRELESS TRANSCEIVER SAFETY SYSTEM IN "FM"

CONFORMS TO THE SAFETY STANDARD EN12978



RADIOSHIELD

MAXIMUM RADIO SIGNAL RANGE 30 m

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.



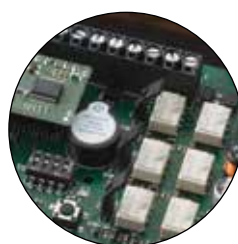
COMBINED OPERATION
BATTERY - SOLAR PANEL



ADJUSTABLE LENS



CABLE GLANDS SUPPLIED WITH
THE APPLIANCE



STATIONARY TRANSCEIVER,
SAFETY OUTPUT MANAGEMENT
(NO/8,2kΩ)



8 RED SAFETY STATUS LEDs
8 GREEN BATTERY CHARGE LEDs



PRODUCT DESCRIPTION

ORDER NUMBER

SAFETY EDGE TRANSCIEVER INTERFACE

3V lithium battery power supply
Safety edge signal input NC/8.2kΩ
Maximum radio signal range 30 m
Shockproof case IP65.

433
MHz

SAFEPRC4

868
MHz

SAFEPRC8



Dimensions 50 x 145 x 26

PAIR OF WIRELESS PHOTOELECTRIC CELLS

3V lithium battery power supply
Maximum radio signal range 30 m
Maximum infrared range 10 m.
Transmitter and receiver housed in shockproof and waterproof cases IP65

433
MHz

SAFECDR4

868
MHz

SAFECDR8



Dimensions 60 x 125 x 41

STATIONARY TRANSCIEVER UNIT

Power supply 12/24Vac-dc
Maximum radio signal range 30 m
8 safety devices
3 safety outputs NC/8.2kΩ
Container in shockproof plastic material IP65.

433
MHz

SAFEDECX4

868
MHz

SAFEDECX8



Dimensions 109 x 110 x 40

KIT SAFETY EDGE INTERFACE + STATIONARY UNIT (433 MHz)

SAFEKIT4

KIT SAFETY EDGE INTERFACE + STATIONARY UNIT (868 MHz)

SAFEKIT8

KIT PAIR OF PHOTOCELLS + STATIONARY UNIT (433 MHz)

SAFEKITCDR4

KIT PAIR OF PHOTOCELLS + STATIONARY UNIT (868 MHz)

SAFEKITCDR8



3V-LITHIUM BATTERY PACK

ZRA3.0-3.8-W



SAFETY EDGE TRANSCIEVER INTERFACE

Power supply 2 alkaline or lithium AA batteries.
Safety edge signal input NC/8.2kΩ
Maximum radio signal range 20 m
Shockproof case IP65.

868
MHz

SRCRX

Dimensions 50 x 145 x 26



STATIONARY TRANSCIEVER UNIT

Power supply 12/24Vac-dc
Maximum radio signal range 20 m
8 safety devices - 2 safety outputs NC/8.2kΩ
Shockproof case IP65.

868
MHz

SRCRX

Dimensions 109 x 110 x 40



INFRARED MODULATED BARRIERS

INFRARED BARRIERS FULL CLASS 3	PAGE 246
INFRARED BARRIERS WITH ADJUSTABLE LENSES	PAGE 248
HYBRID INFRARED BARRIERS WITH ADJUSTABLE LENSES	PAGE 252
INFRARED BARRIERS WITH FIXED POSITION LENSES	PAGE 253
INFRARED BARRIERS WITH MINUTE OPTICAL SENSORS	PAGE 254





INFRARED BARRIERS WITH ADJUSTABLE LENSES FULL CLASS 3



POWER SUPPLY 12/24 Vac-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

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 $\pm 5^\circ$. 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 transmission by means of digital modulation of the carrier signal.

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 8,2 k Ω 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.

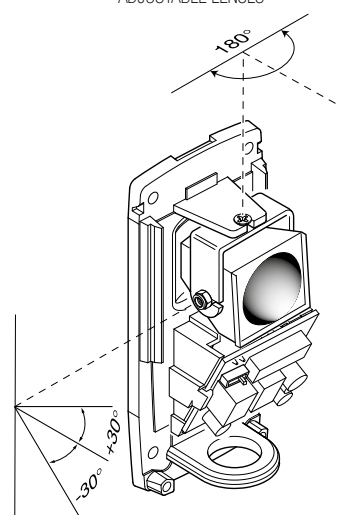
2 indicator LEDs on the receiver:

- 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.

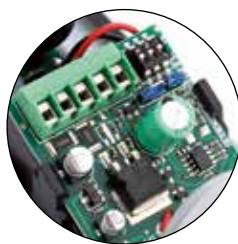
Reinforced power supply tolerating voltages up to 40 Vdc or 28 Vac.



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 15 m

Power supply 12/24 Vac-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 15 m

Power supply 12/24 Vac-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 UNI 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 12/24 Vac-dc

RANGE 15 m - 60 m

SENSITIVITY ADJUSTMENT CDR851 - CDR852A

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 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

Double infrared emission with continuous modulation.

Self locking adjustable lens which can be rotated horizontally through plus or minus 90° ($\pm 45^\circ$ 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 required by the local standards and regulations in force.

2 indicator LEDs:

- red - indicating that the transmitter is receiving power;
- red - (photocells out of alignment or the beam is interrupted) in the receive.

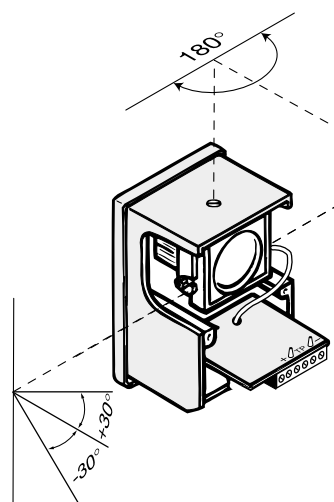
Sensitivity adjustment trimmer on models CDR851 - CDR852A

Anti-tamper function on model CDR851T

Delayed relay - 5 s not adjustable on model CDR851R



ADJUSTABLE LENSES



ADJUSTABLE LENS



SURFACE-MOUNT ALUMINIUM
CASE IP66



SENSITIVITY ADJUSTMENT
TRIMMER



SURFACE-MOUNT VERSION



FLUSH-FITTING VERSION



PRODUCT DESCRIPTION

ORDER NUMBER

PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE IP66

Range 15 m - 60 m
Power supply 12/24 Vac-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 15 m

The kit contains a pair of photoelectric cells with two pipe glands.

CDR842A

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 60 m

The kit contains a pair of photoelectric cells with two pipe glands.

CDR852A

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP55

Maximum range 15 m - 60 m
Power supply 12/24 Vac-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 15 m

The kit contains a pair of flush-fitting photoelectric cells and 2 lens covers for flush-fitting photocells.

CDR841I00



Dimensions 50 x 90 x 60

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 15 m

CDR841E00

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

CDR851

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

Anti-tamper version.

CDR851T

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

Delayed version - 5 s not adjustable

CDR851R



Dimensions 50 x 90 x 60

The kit contains a pair of surface-mount photoelectric cells, 2 lens covers for surface-mount photocells and 2 fast-fitting wall brackets

INFRARED BARRIERS WITH ADJUSTABLE LENSES



PRODUCT DESCRIPTION

ORDER NUMBER

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP55

Maximum range 10 m

Power supply 12/24 Vac-dc

Protection grade IP55

Transmitter and receiver housed in waterproof cases

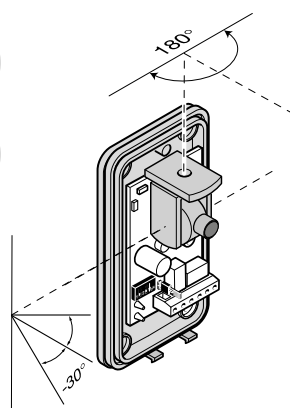
Self locking adjustable lens which can be rotated horizontally through plus or minus 90° ($\pm 45^\circ$ for the CDR841I) and vertically through plus or minus 30° with respect to the standard installation position.

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, 2 k Ω contacts).

CLASS
3

SYNCHRO



Dimensions 50x 90 x 40

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 10 m

CDR999

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44

Maximum range 25 m

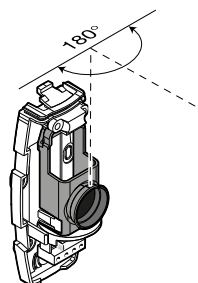
Power supply 12/24 Vac-dc

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 25 m

VED0180

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44

Maximum range 25 m

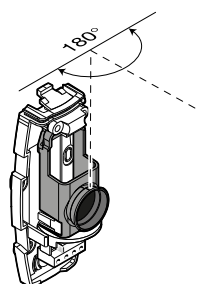
Power supply 24 Vac-dc

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.

SYNCHRO



Dimensions 43 x 102 x 34

SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 25 m

VED0180PRO



PRODUCT DESCRIPTION

ORDER NUMBER

PROTECTIVE SUPPORT

Protective support in cast aluminium for the VEDO photoelectric cells.

Lots of 2 pcs.

FASTENING BASE

Wall fastening base for the VEDO photoelectric cells. Cover when installing over pre-existing holes. Lots of 2 pcs.

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44

Maximum range 25 m

Power supply 12/24 Vac/dc

Protection grade IP44

The internal part of the FT201 photocells can be inclined through $\pm 5^\circ$ 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.

BLINDO

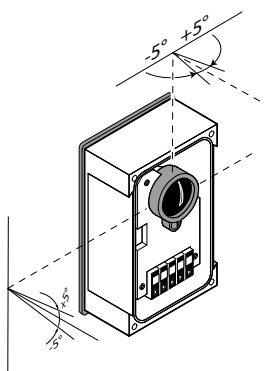


Dimensions 46 x 133 x 37

COP



Dimensions 110 x 150 x 14



Dimensions 59 x 87 x 40

SURFACE-MOUNT PHOTOELECTRIC CELL, RANGE 25 m

FT201SINCRO

PHOTOELECTRIC CELLS IN A SHOCKPROOF CASE IP44

Maximum range 25 m

Power supply 12/24 Vac/dc

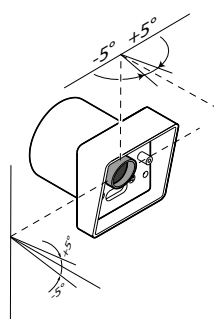
Protection grade IP44

The ILB SINCRO are flush-fitting photoelectric cells that allows the internal part of the to be inclined through $\pm 5^\circ$ 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 25 m

ILBSINCRO

EMBEDDING CASE

Wall embedding case for ILBSINCRO.

CPM



HYBRID INFRARED BARRIERS WITH ADJUSTABLE LENSES



CLASS
3

RECEIVER POWER SUPPLY 12/24 Vac-dc

PROJECTOR POWER SUPPLY 3V WITH A LITHIUM BATTERY

MAXIMUM RANGE 10 m

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, 2 kΩ 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.

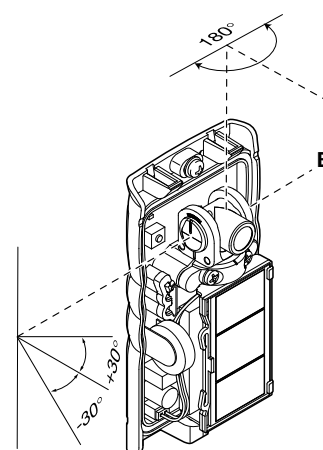
Reinforced power supply allowing voltages up to 40 Vdc or 28 Vac.

Overall dimensions 60 x 125 x 41

Maximum range 10 m.



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 12/24 Vac-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, shock-proof 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 10 m

HOLE COVERING BASE Ø60 mm

CDR861

CDR861SUP



INFRARED BEAM GUIDE



POWER SUPPLY 0-12-24 Vac-dc



EXCHANGE CONTACT NC-NO-C



RUBBER WALL-MOUNTING BASE



SHOCK-PROOF CONTAINER

INFRARED BARRIERS WITH MINUTE OPTICAL SENSORS



POWER SUPPLY 12/24 Vac-dc

RANGE FROM 1 TO 15 METRES

PROTECTION GRADE (SENSORS) IP55

CONFORMS TO THE SAFETY DIRECTIVES 12978 IN CATEGORY 3 DELLA
EN13849-1 AND TYPE 2 OF THE EN61496-2

CDR 892C3 Dual-beam multiplex infrared barrier.

FTR 893C3 Single-beam 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 UNI 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, 2 k Ω contacts).

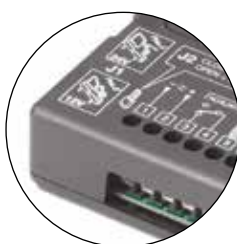
Jumper for selecting the number of active beams (only in the dual beam model).



SENSOR PROTECTION
GRADE IP55



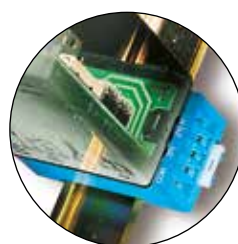
ANTI-TEMPER SENSORS



POWER SUPPLY 12/24 Vac-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 12/24 Vac-dc.

Range: 15 m indoors - 10 m outdoors.

Transmitter cable 5 metres - Receiver cable 3 metres.

CLASS
3

CDR892C3

DOUBLE-RELAY PHOTOELECTRIC CELLS

Power supply 12/24 Vac-dc.

Range: 15 m indoors - 10 m outdoors.

Transmitter cable 10 metres - Receiver cable 7 metres.

CLASS
3

CDR892C3-1

DOUBLE-RELAY PHOTOELECTRIC CELLS

Power supply 12/24 Vac-dc.

Range: 15 m indoors - 10 m outdoors.

Transmitter cable 15 metres - Receiver cable 10 metres.

CLASS
3

CDR892C3-2

SINGLE BEAM DOUBLE-RELAY PHOTOELECTRIC CELLS

Overall dimensions 90 x 50 x 20.

Power supply 12/24 Vac-dc.

Range: 2,5 m indoors.

Transmitter cable 4 metres - Receiver cable 4 metres.

CLASS
3

FTR893C3

SINGLE BEAM SINGLE-RELAY PHOTOELECTRIC CELLS

with a socket for mounting on a rail guide DIN46277.

Overall dimensions 60 x 45 x 117.

Power supply 10...24 Vac-dc.

Range: 4 m indoors - 2 m outdoors.

Transmitter cable 3 metres - Receiver cable 3 metres.

CDR893



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 UNI 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).



ELECTRONIC WARNING LIGHTS WITH LED TECHNOLOGY

ELECTRONIC WARNING LIGHTS WITH LED TECHNOLOGY



POWER SUPPLY 24 Vac-dc / 230 Vac

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:

- MOLLIGHT - 24 Vac/dc double led;
- MOLLIGHT - 230 Vac double led;
- LACOLED - 24 Vac/dc - 230 Vac on-board selectable power supply, multi-led;
- XLAMP - 24 Vac/dc - 230 Vac on-board selectable power supply, multi-led;
- WALL - 24 Vdc strip of led lighting;
- WALL + AL2VA - 230 Vac output 24 Vdc 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.

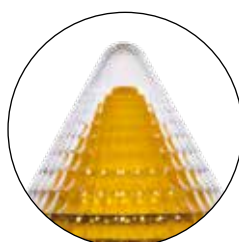
All in all this is a unique and unmistakable appliance, an effective warning system both before and during the activation of the automatic opening device whilst at the same time underlining the quality and service given by a Cardin System.



WALL MOUNTING
MOLLIGHT



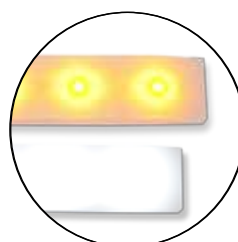
COLUMN MOUNTING
MOLLIGHT



TRANSPARENT PROTECTIVE
SHELL LACOLED



ADJUSTABLE LAMP COVER
XLAMP



WARNING LIGHTS FOR GARAGE
DOORS WALL AND LITE



PRODUCT DESCRIPTION

ORDER NUMBER

LED WARNING LIGHT

Warning light made up of two highly efficient leds and a special optical guide designed by Cardin.

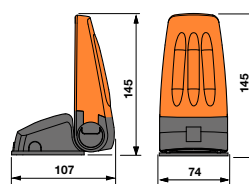
The lighting system is housed in a shockproof, opaque, polycarbonate container that accentuates the lighting effect.

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.

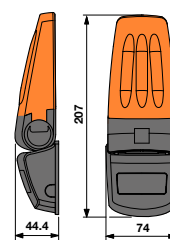
The shockproof plastic base is factory set to take a special aerial with a pre-wired BNC connection and at the same time it perfectly protects the power supply connection of the appliance.

Protection grade IP54.

OVERALL DIMENSIONS



COLUMN MOUNTING



WALL MOUNTING

24 V DOUBLE-LED WARNING LIGHT

230V DOUBLE-LED WARNING LIGHT

MOLLIGHT3

MOLLIGHT3X



ANS400-MOL



LED WARNING LIGHT

Warning light with an in-built 433 MHz aerial.

On-board selectable power supply:

24 Vac-dc - 230 Vac.

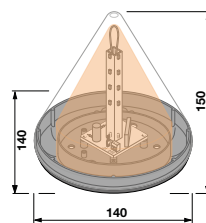
Work cycle 70%.

Fixed light - flashing light selection jumper.

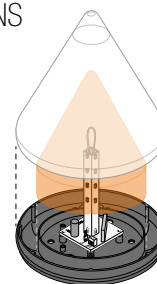
Protection grade IP54.

Supplied with relative support.

OVERALL DIMENSIONS



COLUMN MOUNTING



WALL MOUNTING

LED WARNING LIGHT 24-230V WITH IN-BUILT AERIAL

LACOLED24-230





PRODUCT DESCRIPTION

ORDER NUMBER

LED WARNING LIGHT

Suitable for fitting to all types of system, its compact size and simplicity of installation makes it ideal for residential systems. The lamp cover can be adjusted in height, thus allowing horizontal installations with a minimum outcrop.

On-board selectable power supply: 24 Vac-dc - 230 Vac.

Work cycle 70%.

Fixed light - flashing light selection jumper.

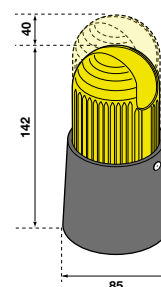
Adjustable light cover.

Overall dimensions Ø85 x H142-H182 mm.

Protection grade IP55.



OVERALL DIMENSIONS



WALL MOUNTING AND COLUMN MOUNTING

24-230V ELECTRONIC LED WARNING LIGHT, YELLOW

24-230V ELECTRONIC LED WARNING LIGHT, ORANGE

24-230V ELECTRONIC LED WARNING LIGHT, WHITE

LPXLAMP

LPXLAMP-OR

LPXLAMP-WH

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.

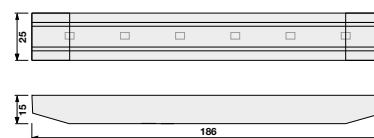
Supplied with a 3500 mm cable and grub type fastening screws.

Available with a 24V power supply.

Power supply 230V with the accessory AL2VA.

Protection grade IP54.

OVERALL DIMENSIONS



APPLICATION

ELECTRONIC YELLOW LED WARNING LIGHT STRIP

ELECTRONIC WHITE LED WARNING LIGHT STRIP

WALL

LITE



FLASHING LIGHT CIRCUIT BOARD FOR WALL

Circuit board for WALL with a 24 Vac/dc power supply and output 24 Vdc (max. 300 mA). 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 24 Vdc (max. 80mA).

AL2VA



PRODUCT DESCRIPTION

ORDER NUMBER

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





PIERCE

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 230 mm

 **PR001**

CARDIN ADHESIVE STICKERS 150 X 70 mm


 **PR002**



CARDIN ADHESIVE STICKERS 500 X 110 mm

 **PR003**

CARDIN ADHESIVE STICKERS 150 X 35 mm

 **PR004**



CARDIN SERVICE ADHESIVE STICKERS 500 X 500 mm

 **PR005**



CARDIN SERVICE ADHESIVE STICKERS 150 X 150 mm

 **PR008**



DISPLAY UNITS


Free-standing modular 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 1800 x 620 x 100

HONEYCOMB DISPLAY UNITS

 **PR009**



PRODUCT DESCRIPTION

ORDER NUMBER

PANELS

Structure in vertical K-mount with differing product images.

PANEL 500 X 700 mm

ESPK001

PANEL 700 X 1000 mm

ESPK002

PANEL 1000 X 1400 mm

ESPK003

PANEL 1000 X 2400 mm

ESPK004



PANELS

Structure in horizontal K-mount with differing product images.

PANEL 400 X 1400 mm

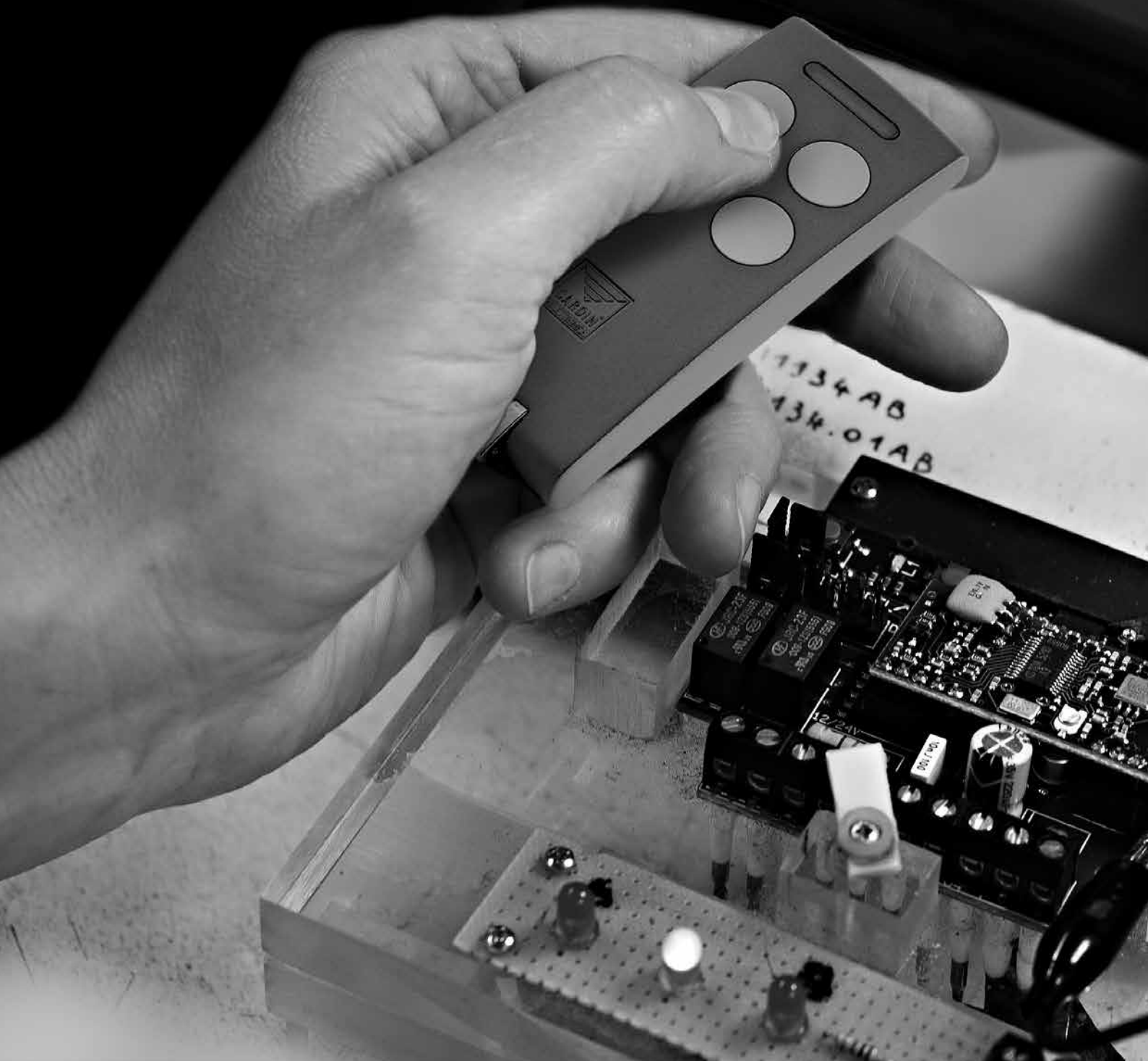
ESPK005



ESTIMATES FOR PANELS WITH PERSONALISED IMAGES AND DIMENSIONS WILL BE SUPPLIED 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	24 V - 160W	8 m/min	3000 kg
SLX1524CB	24 V - 130W	9,5 m/min	1500 kg
SLX824CB	24 V - 110W	14 m/min	800 kg
SL524-SL524CB	24 V - 38W	9,2 m/min	500 kg
SL ACEFAST	24 V - 100W	10 m/min	300 kg 16 m/min with gate weigh 100 kg
SL ACE 601	24 V - 250W	10 m/min	600 kg 16 m/min with gate weigh 100 kg
SL EVO 600	230 V - 800W	10 m/min	600 kg
SL EVO 800	230 V - 800W	10 m/min	800 kg
SL EVO 1200	230 V - 1100W	10 m/min	1200 kg
SL EVO 2000	230 V - 1000W	10 m/min	2000 kg
SLi324	24 V - 150W	10,5 m/min	300 kg
SLi724	24 V - 160W	11 m/min	700 kg
SLi1024	24 V - 200W	11 m/min	1000 kg

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°		maximum gate length (m)		maximum gate length with an electric lock (m)
		Curved arm	Straight arm			
BL824MCB	130°	14 s	12 s	2 m	2,5 m	
BL3924CSB	130°	20 s	16 s		3,5 m	5 m
BL1924ASW	130°	12,5 s	-	2 m		
BL1920	130°	15 s	-	2 m		
BLTOW24	120°	13 s	-	2 m	2,5 m	
BLTEN1	100°	-	5 s	1,2 m		
BLTEN2	100°	-	8 s	1,5 m		
BLSTEALTH	120°	13 s	-	2 m	2,5 m	
BLEGOS	110°	15 s			2,5 m	
BLESOL	110°	20 s			3,5 m	4m
BLASY324	110°	20 s			3 m	
BLASY524 -BLASY524REV	110°	25 s				5 m
BLASY3 - BLASY3REV	110°	25 s			3 m	
BLASY5 - BLASY5REV	110°	30 s				5 m
BLTAGDX - BLTAGSX	100°	20 s		2 m		
BLBLUES3 - BLBLUES3R	105°	22 s			2,5 m	
BLBLUES5 - BLBLUES5R	105°	30 s				4,5 m
BLi1000	180°	16 s			2,5 m	
HL2524ESB	110°	22 s			3 m	
HL1824ESB	360°	22 s			3 m	
HL251CL	110°	19,5 s			3 m	
HL2518CL	360°	19,5 s			3 m	
HLMOLE24	115°	19 s				3,5 m
HLMOLE230	115°	19 s				3,5 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)
BL824MCB	24 V - 50W	200 kg
BL3924CSB	24 V - 50W	400 kg
BL1924ASW	24 V - 60W	150 kg
BL1920	230 V - 290W	150 kg
BLTOW24	24 V - 50W	200 kg
BLTEN1	12V - 60W	100 kg
BLTEN2	12V - 60W	170 kg
BLSTEALTH	24 V - 60W	200 kg
BLEGOS	24 V - 60W	200 kg
BLESOL	24 V - 60W	300 kg
BLASY324	24 V - 60W	250 kg
BLASY524 - BLASY524REV	24 V - 60W	300 kg
BLASY3 - BLASY3REV	230 V - 370W	250 kg
BLASY5 - BLASY5REV	230 V - 330W	300 kg
BLTAGDX - BLTAGSX	24 V - 70W	150 kg
BLBLUES3 - BLBLUES3R	230 V - 280W	350 kg
BLBLUES5 - BLBLUES5R	230 V - 280W	500 kg
BLi1000	230 V - 50W	200 kg
HL2524ESB - HL1824ESB	24 V - 60W	350 kg
HL251CL - HL2518CL	230 V - 470W	550 kg
HLMOLE24	24 V - 60W	350 kg
HLMOLE230	230 V - 370W	450 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
GLB248M - GLB249M	24 V - 120W	2,7 m	11 m ²	13 m ²
GLB249S	24 V - 120W	2,7 m	11 m ²	
GL STAR1E	230 V - 360W	2,5 m	8 m ²	
GL STAR2E - GL STAR2AE	230 V - 360W	2,5 m	8 m ²	10 m ²



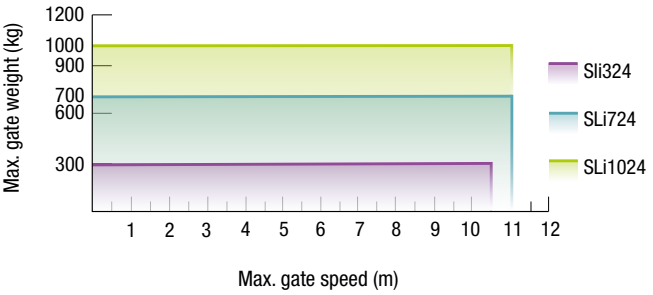
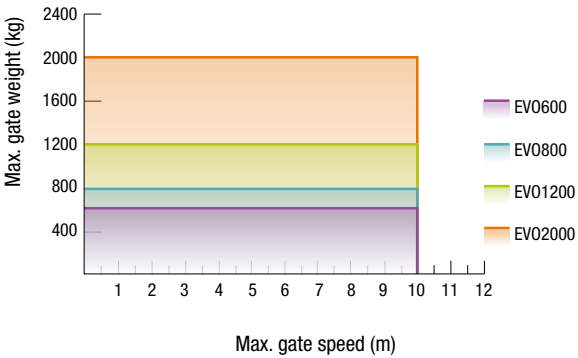
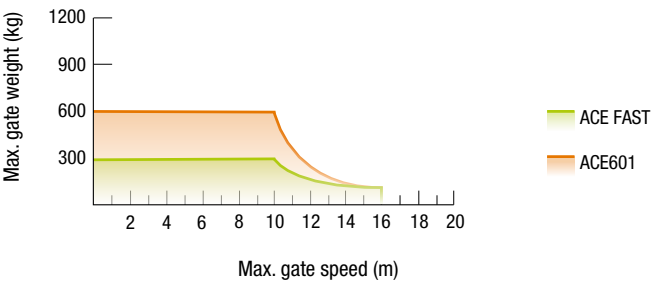
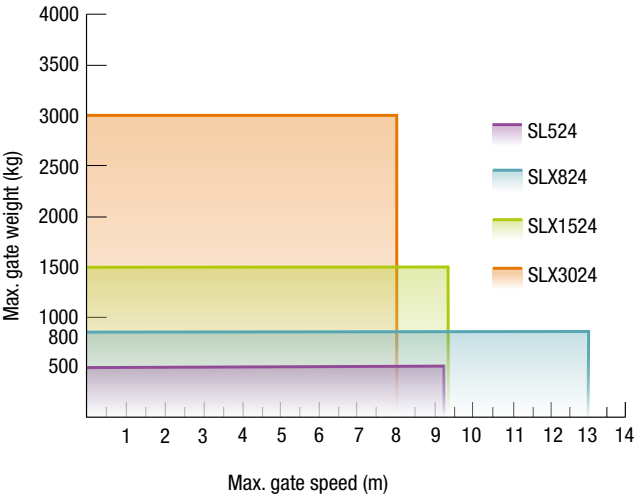
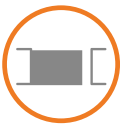
Automation for sectional doors series GL

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			
GL ZEN60E	9 m/min	9 m ²	2,4 m	3,1 m		
GL ZEN100E	9 m/min	9 m ²	2,4 m	3,1 m		

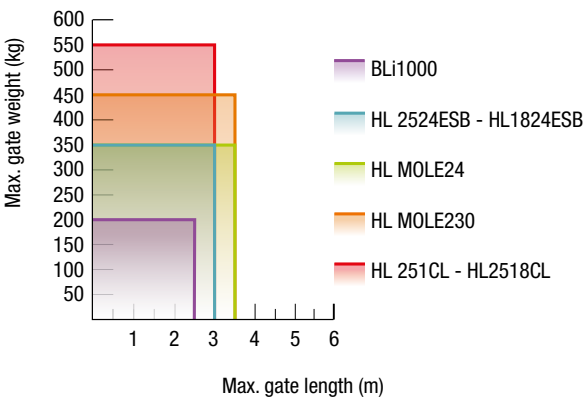
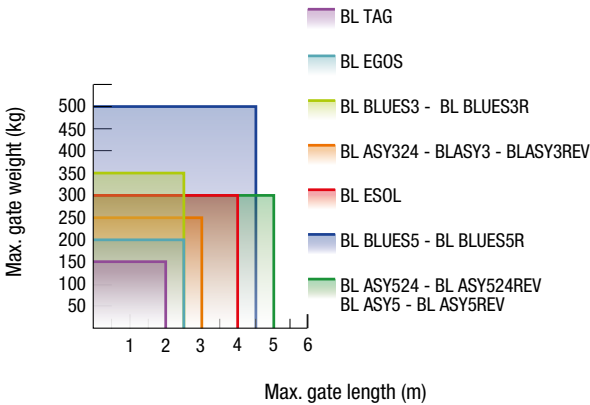
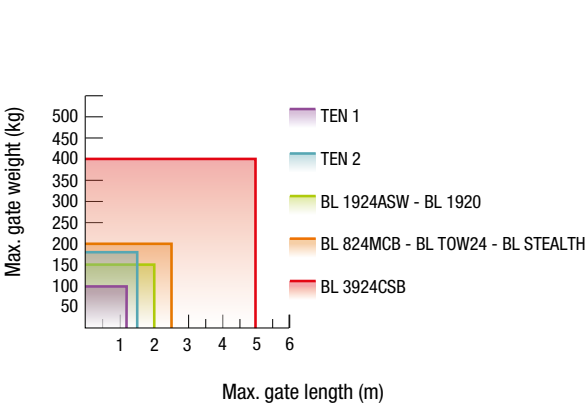
TABLES OF COMPARISON

Automation for sliding gates series SL - SLi



TABLES OF COMPARISON

Automation for swing gates series BL - HL



TABLES OF COMPARISON

CARDIN PRO

Automation with integrated electronics

MOTOR CONTROL	BL824	BL3924	BLTOW24	SLX3024	SLX1524	SLX824	SL524	GLB249
For 1 motor								
For 2 motors								in parallel
Motor power supply 24 Vdc								
Torque limitation (electronic selection)								
Current sensor setting								
Deceleration setting								
Battery powered operation incorporated							SL524CB	
Optional battery powered operation							KBNIMH-1	KBNIMH-2

INPUTS	BL824	BL3924	BLTOW24	SLX3024	SLX1524	SLX824	SL524	GLB249
Inverting photocells (FI)	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./8.2 kΩ	N.C./8.2 kΩ
Stop photocells (FS)	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./8.2 kΩ	
Stop button (TB)	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./8.2 kΩ	N.C./8.2 kΩ
Safety edge (CSP)	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./8.2 kΩ	N.C./8.2 kΩ
Opening button (TA)								
Limited opening button (TAL)								
Closing button (TC)								
Sequential command (TD)								
Electronic travel limits (encoder)								

OUTPUTS	BL824	BL3924	BLTOW24	SLX3024	SLX1524	SLX824	SL524	GLB249
Electric locking device	12 Vdc	12 Vdc	12 Vdc					selectable
Warning lights (programmable)								
Low power supply warning lights	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vac	24 Vdc
Indicator led (programmable)								
Power supply controlled external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Power supply external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Second radio channel	selectable	selectable	selectable	selectable	selectable	selectable		

RADIOCONTROL FUNCTIONS	BL824	BL3924	BLTOW24	SLX3024	SLX1524	SLX824	SL524	GLB249
Multi-decoding S504-S508-S449-S486								
Buzzer								
Sequential function via radio								
Radio control function: programmable								

SPECIAL FUNCTIONS	BL824	BL3924	BLTOW24	SLX3024	SLX1524	SLX824	SL524	GLB249
6-digit display								
Display LCD (16 characters x 2 lines)								
Display a LCD (128x128 pixels)								
Manoeuvre count display								
External control buttons								
Master/Slave function				MODCA	MODCA	MODCA	MODCA	
Function setting using dip-switches								
Function setting using menus								
Automatic safety device test								
Warning light pre-flashing (set to 3 seconds)								
Courtesy light	selectable	selectable	selectable	selectable	selectable	selectable		24 Vdc-230 Vac
Real time clock								
Clock mode (on the TA input)								

TABLES OF COMPARISON

CARDIN PRO

Automation with integrated electronics

MOTOR CONTROL	GL124EBSS	ELDOM34	ELDOM6	ELX3000	PARKSUN	PARKLINE
For 1 motor						
Motor power supply 24 Vdc						
Current sensor setting						
Deceleration setting						
Battery powered operation incorporated						
Optional battery powered operation				KBNIMH-1		

INPUTS	GL124EBSS	ELDOM34	ELDOM6	ELX3000	PARKSUN	PARKLINE
Inverting photocells (FI)		N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ		
Stop photocells (FS)	selectable	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ		
Stop button (TB)		N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ		
Safety edge (CP)	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ	N.C./8.2 kΩ		
Opening button (TA)		TA1 - TA2	TA1 - TA2			
Limited opening button (TAL)						
Closing button (TC)		TC1 - TC2	TC1 - TC2			
Sequential command (TD)					selectable	selectable
Electronic travel limits (encoder)						

OUTPUTS	GL124EBSS	ELDOM34	ELDOM6	ELX3000	PARKSUN	PARKLINE
Warning lights (programmable)		led	led			
Low power supply warning lights	24 Vdc	24 Vdc	24 Vdc	24 Vdc		
Indicator led (programmable)						
Travel limit / photocell status information						
Power supply controlled external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc		
Power supply external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc		
Second radio channel		selectable	selectable	selectable		

RADIOCONTROL FUNCTIONS	GL124EBSS	ELDOM34	ELDOM6	ELX3000	PARKSUN	PARKLINE
Standard slot-in radio card						
Incorporated S449 receiver (300 Codes)						
Only S500 decoding						
Multi-decoding S504-S508-S449-S486						
Buzzer						
Sequential function via radio						
Radio control function: programmable						
Stop function via radio						

SPECIAL FUNCTIONS	GL124EBSS	ELDOM34	ELDOM6	ELX3000	PARKSUN	PARKLINE
6-digit display						
LCD display						
Manoeuvre count display						
Master/Slave function		MODCA	MODCA			
Function setting using dip-switches						
Function setting using menus						
Automatic safety device test						
Warning light pre-flashing (set to 3 seconds)						
Courtesy light	24 Vdc	selectable	selectable	selectable		
Clock mode (on the TA input)						
Clock mode (On the TC input)						

TABLES OF COMPARISON

CARDIN PRO

Automation with an external programmer

MOTOR CONTROL	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE
For 1 motor						
For 2 motors						
Power supply 230 Vac						
Power supply 400 V3~						
Motor power supply 24 Vdc						
Torque limitation (mechanical selection)						
Torque limitation (electronic selection)						
Current sensor setting						
Deceleration setting						

INPUTS	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE
Inverting photocells (FI)				N.C./8.2 kΩ		
Stop photocells (FS)				N.C./8.2 kΩ		
Stop button (TB)				N.C./8.2 kΩ		
Safety edge (CSP)		N.C./8.2 kΩ		N.C./8.2 kΩ		
Opening button (TA)						
Limited opening button (TAL)						
Closing button (TC)						
Sequential command (TD)						
Mechanical travel limits						
Electronic travel limits (encoder)						

OUTPUTS	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE
Electric locking device			12 Vac	12 Vac		
Warning lights (not flashing)						
Warning lights (programmable)						
Low power supply warning lights	24 Vac	24 Vac	24 Vac		24 Vac	24 Vac
Power supply warning lights 230 Vac						
Indicator light (only fixed)						
Indicator led (programmable)						
Travel limit / photocell status information	optional					
Power supply external devices	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac
Power supply controlled external devices				24 Vac		
Second radio channel			2-ch receiver	2-ch receiver		

RADIOCONTROL FUNCTIONS	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE
Standard slot-in radio card						
Integrated S449 receiver (20 codes)						
Buzzer						
Sequential function via radio						
Limited opening function via radio						
Stop function via radio	2-ch receiver				2-ch receiver	2-ch receiver

SPECIAL FUNCTIONS	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE
1-digit display						
6-digit display						
External control buttons		optional			PRG3830TCE	PRG3840TCE
Sequential function setting						
Function setting using dip-switches						
Warning light pre-flashing (set to 3 seconds)						
Hinged gate opening delay (fixed)						
Hinged gate closing delay (programmable)						
Gate jolt (frees the electric lock)						
Courtesy light		230 Vac	230 Vac	230 Vac		
Clock mode (on the TA input)						

TABLES OF COMPARISON

CARDIN PRO - INSIDE

Automation with an external programmer

MOTOR CONTROL	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
For 1 motor						
For 2 motors						
Power supply 230 Vac						
Power supply 400 V3~						
Motor power supply 24 Vdc						
Current sensor setting						
Deceleration setting						
Battery powered operation incorporated						
Optional battery powered operation	PRG900	CC242ETOP		CC924EFAM	CC824EINT	CC242EFAM

INPUTS	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Inverting photocells (FI)	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 (FS)	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 button (TB)	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 (CSP)	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
Opening button (TA)						
Limited opening button (TAL)						
Closing button (TC)						
Sequential command (TD)						
Mechanical travel limits						
Electronic travel limits (encoder)						

OUTPUTS	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Electric locking device	12 Vdc	12 Vdc	12 Vdc			12 Vdc
Warning lights (not flashing)						
Warning lights (programmable)						
Low power supply warning lights	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Power supply warning lights 230 Vac						
Indicator light (only fixed)						
Indicator led (programmable)						
Travel limit / photocell status information						
Power supply external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Power supply controlled external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Second radio channel selectable						

RADIOCONTROL FUNCTIONS	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
Incorporated S449 receiver (300 codes)						
Multi-decoding S504-S508-S449-S486						
Buzzer						
Sequential function via radio						
Radio control function: programmable						

SPECIAL FUNCTIONS	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB/S	CC824EINTCB	CC242EFAMCB
6-digit display						
LCD display						
Manoeuvre count display						
Function setting using dip-switches						
Function setting using menus						
Automatic safety device test						
Warning light pre-flashing (set to 3 seconds)						
Hinged gate opening delay (fixed)						
Hinged gate closing delay (programmable)						
Courtesy light selectable						
Clock mode: (on the TA input)						

TABLES OF COMPARISON

CARDIN TRADE

Automation with integrated electronics

MOTOR CONTROL	EV0600	EV0800	EV01200	EV02000	ACEFAST	ACE601	ZEN60E	ZEN100E	STAR2E	STAR2AE
PRG LINK										
Master Slave										
Encoder controlled gate positioning										
Timer controlled gate positioning										
Power supply 230 Vac										
Motor power supply 24 Vdc										
Torque limitation (electronic selection)										
Speed regulation										
Obstacle detection										
Encoder										
Soft start deceleration management										
Optional battery powered operation										

INPUTS	EV0600	EV0800	EV01200	EV02000	ACEFAST	ACE601	ZEN60E	ZEN100E	STAR2E	STAR2AE
Inverting photocells (FT1)										
Stop photocells (FT2)	J	J	J	J	J	J+LINK			J	J
Inverting photocells during opening (FT3)										
Stop button (STP)										
Safety edge (C.F.)	J	J	J	J					J	J
Safety edge active during opening (BSA/CA)					J(NC)	8K2				
Safety edge active during closing (BSC/CC)						8K2	8K2/NC	8K2/NC		
Clock input	J	J	J	J		J			J	J
Pedestrian function gate clock input						J+LINK				
Jolly input 1 (J1/JOL)										
Opening button (PA)					PP/PA	PP/PA				
Closing button (PC)					J (PP --> PA)	J (PP --> PA)				
Limited opening button (PED)	J	J	J	J	J					
Sequential command step by step (PP)										
Travel limit inputs (FCA/FCC)										

OUTPUTS	EV0600	EV0800	EV01200	EV02000	ACEFAST	ACE601	ZEN60E	ZEN100E	STAR2E	STAR2AE
Electric locking device						(US1+LINK)				
Warning lights (not flashing)										
Warning lights (ECU flashing)							(US1-230 Vac)			
Low power supply warning lights							24Vdc - 100mA, US1 func			
Jolly output (US1)							230V			
Indicator light (only fixed)						(24 V FT)				
Indicator light (only flashing)						US1	(US1-230 Vac)			
Dry contact output						US1				
Courtesy light						US1	(US1-230 Vac)			
Power supply external devices	24 Vac	24 Vac	24 Vac	24 Vac	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vac	24 Vac
Second radio channel						US1				

RADIOCONTROL FUNCTIONS	EV0600	EV0800	EV01200	EV02000	ACEFAST	ACE601	ZEN60E	ZEN100E	STAR2E	STAR2AE
OC2 card compatible										
Sequential command PP										
Sequential command PED										

SPECIAL FUNCTIONS	EV0600	EV0800	EV01200	EV02000	ACEFAST	ACE601	ZEN60E	ZEN100E	STAR2E	STAR2AE
Manoeuvre count display						LINK				
Maintenance alarm (US1)						LINK				
Command buttons on the ECU										
Dip-switch for excluding safety devices										
Function setting using dip-switches										
Optional pre-flashing (set at 5 seconds)										
Anticipated automatic closing on FT1 cut in										

J = Function only available on the Jolly input binding post

Automation with integrated electronics

MOTOR CONTROL	SNAP3	SNAP4	SNAP6	RAP4E	BLSTEALTH
PRG LINK					
Master Slave					
Encoder controlled gate positioning					
Timer controlled gate positioning					
Power supply 230 Vac					
Motor power supply 24 Vdc					
Torque limitation (electronic selection)					
Speed regulation					LINK
Obstacle detection					
Encoder					
Soft start deceleration management					
Optional battery powered operation					

INPUTS	SNAP3	SNAP4	SNAP6	RAP4E	BLSTEALTH
Inverting photocells (FT1)					
Stop photocells (FT2)				J	
Inverting photocells during opening (FT3)					
Stop button (STP)					
Safety edge (C.F.)					
Safety edge active during opening (BSA/CA)				J(NC)	8K2
Safety edge active during closing (BSC/CC)	8K2/NC	8K2/NC	8K2/NC		8K2
Jolly input 1 (J1/JOL)					
Opening button (TA)				PP/PA	
Closing button (PC)				J (PP --> PA)	
Limited opening button (PED)					
Sequential command step by step (PP)					
Travel limit inputs (FCA/FCC)					

OUTPUTS	SNAP3	SNAP4	SNAP6	RAP4E	BLSTEALTH
Electric locking device					
Boom light control (road barriers only)					
Warning lights (not flashing)					
Warning lights (ECU flashing)	(integrated/US1)	(integrated/US1)	(integrated/US1)		
Low power supply warning lights					
Jolly output (US1)					
Dry contact output	US1	US1	US1		US1
Courtesy light	US1	US1	US1		(US1+LINK)
Power supply external devices	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Second radio channel					US1

RADIOCONTROL FUNCTIONS	SNAP3	SNAP4	SNAP6	RAP4E	BLSTEALTH
OC2 card compatible					
Sequential command PP					
Sequential command PED					
Open command PA					
Closing command PC					

SPECIAL FUNCTIONS	SNAP3	SNAP4	SNAP6	RAP4E	BLSTEALTH
Manoeuvre count display					LINK
Maintenance alarm (US1)	LINK	LINK	LINK		LINK
Command buttons on the ECU					
Dip-switch for excluding safety devices					
Function setting using dip-switches					
Optional pre-flashing (set at 5 seconds)					
Anticipated automatic closing on FT1 cut in					

J = Function only available on the Jolly input binding post

Automation with an external programmer

MOTOR CONTROL	E124*	E224*	T101	T124	T400	T600	T624
PRG LINK							
Master Slave							
Encoder / timer gate positioning control	encoder	encoder	encoder / timer	encoder / timer	encoder / timer	encoder / timer	encoder / timer
For 1 motor							
For 2 motors							
Power supply 230 Vac					230V - 400 V		
Motor power supply 24 Vdc							
Torque limitation (electronic selection)							
Speed regulation							LINK
Obstacle detection							
Soft start deceleration management							
Optional battery powered operation							

INPUTS	E124*	E224*	T101	T124	T400	T600	T624
Inverting photocells (FT1)							
Stop photocells (FT2)			J	J	J		
Inverting photocells during opening (FT3)		J3				J2	J2
Stop button (STP)							
Safety edge (C.F.)			J				
Safety edge active during opening (BSA/CA)		NC		J(NC)	8K2/NC	8K2	8K2
Safety edge active during closing (BSC/CC)	8K2/NC	J4-NC			8K2/NC	8K2	8K2
Clock input		J1	J		J	J1	J1
Pedestrian function gate clock input					J	LINK	LINK
Jolly input 1-2-3-4		4	1	1	1	2	2
Opening button (PA)		J1-J3		(PP/PA)	(AP)		
Closing button (PC)		J2-J4		J (PP --> PA)	(CH)		
Limited opening button (PED)			J	J			
Sequential command step by step (PP)							
Travel limit inputs (FCA/FCC)		J1-J2-J3-J4				J1-J2 (PA-PC)	J1-J2 (PA-PC)

OUTPUTS	E124*	E224*	T101	T124	T400	T600	T624
Electric locking device			con modulo MES		US1		
Warning lights (not flashing)							
Warning lights (ECU flashing)	US1				US1		
Low power supply warning lights	24 Vdc - 100 mA						
Jolly output (US1)							
Indicator light (only fixed)						US1	US1
Indicator light (only flashing)	US1						
Indicator light 2							
Dry contact output						US1	US1
Courtesy light	US1				US1		LINK
Power supply external devices	24 Vdc	24 Vdc	24 Vac	24 Vdc	24 Vac	24 Vac	24 Vdc
Second radio channel						US1	US1

RADIOCONTROL FUNCTIONS	E124 *	E224 *	T101	T124	T400	T600	T624
OC2 card compatible							
Sequential command PP / PED	solo PP						
Open command PA / PC							

SPECIAL FUNCTIONS	E124*	E224*	T101	T124	T400	T600	T624
Manoeuvre count display						LINK	LINK
Maintenance alarm (US1)						LINK	LINK
Command buttons on the ECU							
Dip-switch for excluding safety devices							
Function setting using dip-switches							
Optional pre-flashing (set at 5 seconds)							
Anticipated automatic closing on FT1 cut in							

J = Function only available on the Jolly input binding post

* Only for use with TEN automation

Automation with an external programmer

MOTOR CONTROL	T31	T21	T1	S101B
PRG LINK				
Master Slave				
Encoder / timer gate positioning control	timer	timer	only dead-man function	encoder or timer
For 1 motor				
For 2 motors				
Power supply 230 Vac				
Motor power supply 24 Vdc				
Torque limitation (electronic selection)				
Speed regulation				
Obstacle detection				
Soft start deceleration management				
Optional battery powered operation				

INPUTS	T31	T21	T1	S101B
Inverting photocells (FT1)				
Stop photocells (FT2)				J
Inverting photocells during opening (FT3)				
Stop button (STP)				
Safety edge (C.F.)				J
Safety edge active during closing (BSC/CC)	8K2	8K2		
Clock input				J
Pedestrian function gate clock input				
Jolly input 1-2-3-4				1
Opening button (PA)	(option PP/PED)	(option PP/PED)	UP	
Closing button (PC)	(option PP/PED)	(option PP/PED)	UP	
Limited opening button (PED)				
Sequential command step by step (PP)				
Travel limit inputs (FCA/FCC)				

OUTPUTS	T31	T21	T1	S101B
Electric locking device				
Warning lights (not flashing)				
Warning lights (ECU flashing)				
Jolly output (US1)				
Indicator light (only flashing)				
Indicator light 2				
Dry contact output				
Courtesy light				
Power supply external devices	24 Vac	24 Vac		24 Vac
Second radio channel				

RADIOCONTROL FUNCTIONS	T31	T21	T1	S101B
OC2 card compatible				
Sequential command PP				
Sequential command PED				
Open command PA	(PA+PC = PP+PED)	(PA+PC = PP+PED)		
Closing command PC	(PA+PC = PP+PED)	(PA+PC = PP+PED)		

SPECIAL FUNCTIONS	T31	T21	T1	S101B
Manoeuvre count display				
Maintenance alarm (US1)				
Command buttons on the ECU				
Dip-switch for excluding safety devices				
Function setting using dip-switches				
Optional pre-flashing (set at 5 seconds)				
Anticipated automatic closing on FT1 cut in				

J = Function only available on the Jolly input binding post

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