



Good Morning Cardin

—

Product catalogue 2016

XL
CARDIN
ANNIVERSARY
1974 - 2014


over 40 years
Made in Italy



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.





Every company is a unique world. Welcome to ours.

—

Key values that are a part of us today, have always been part of the Cardin make up.

The simplicity with which we are seen and understood; silence as a method of communication; saving in order to recapture a lifestyle; considering the future as a responsibility towards our children; safety as a reassuring touch. The truth behind our products is all of this.

History lends creed to our choices.

—

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 has allowed us to become part of the Riello Elettronica Group giving further vent to and opening up horizons for our values.

riello
elettronica

Cardin is part of a larger world

The Riello Elettronica Galaxy

—

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.

Being part of a group does not lead to a dilution of one's history,
rather, it reinforces one's ideas.



People, thoughts and words, giving values to an authentic product.

—

Each Cardin appliance passes from hand to hand through successive work and control stages, in a factory where technology finds itself seamlessly integrated between manufacturing machinery and people who think, work and transmit passion for what they do, so much so that when it arrives in your hands it is able to provoke a sensation of welcoming familiarity.



Federico

is always a team player even in his free time.

Lucilla

Hates travel brochures. She prefers to visit the places in person.

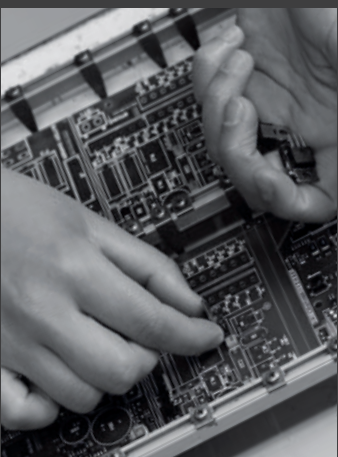


Simone

His return to the fold has been a very welcome step forward.

Mariavittoria

She loves to watch films in the original language.



Laura

Knows that her cats are always waiting for her at home.

Loris

The thought of his bass guitar never leaves him.



Alessandro

Thought that Pietro was a singular event, then Sveva arrived.

Roberto

Is an engineer by conviction and a grape-grower by passion.



Ivano

Prefers to catch the trout rather than shop for it.

Davide

Is Leonardo's father!



Evelyn

Loves circuits and racetracks.

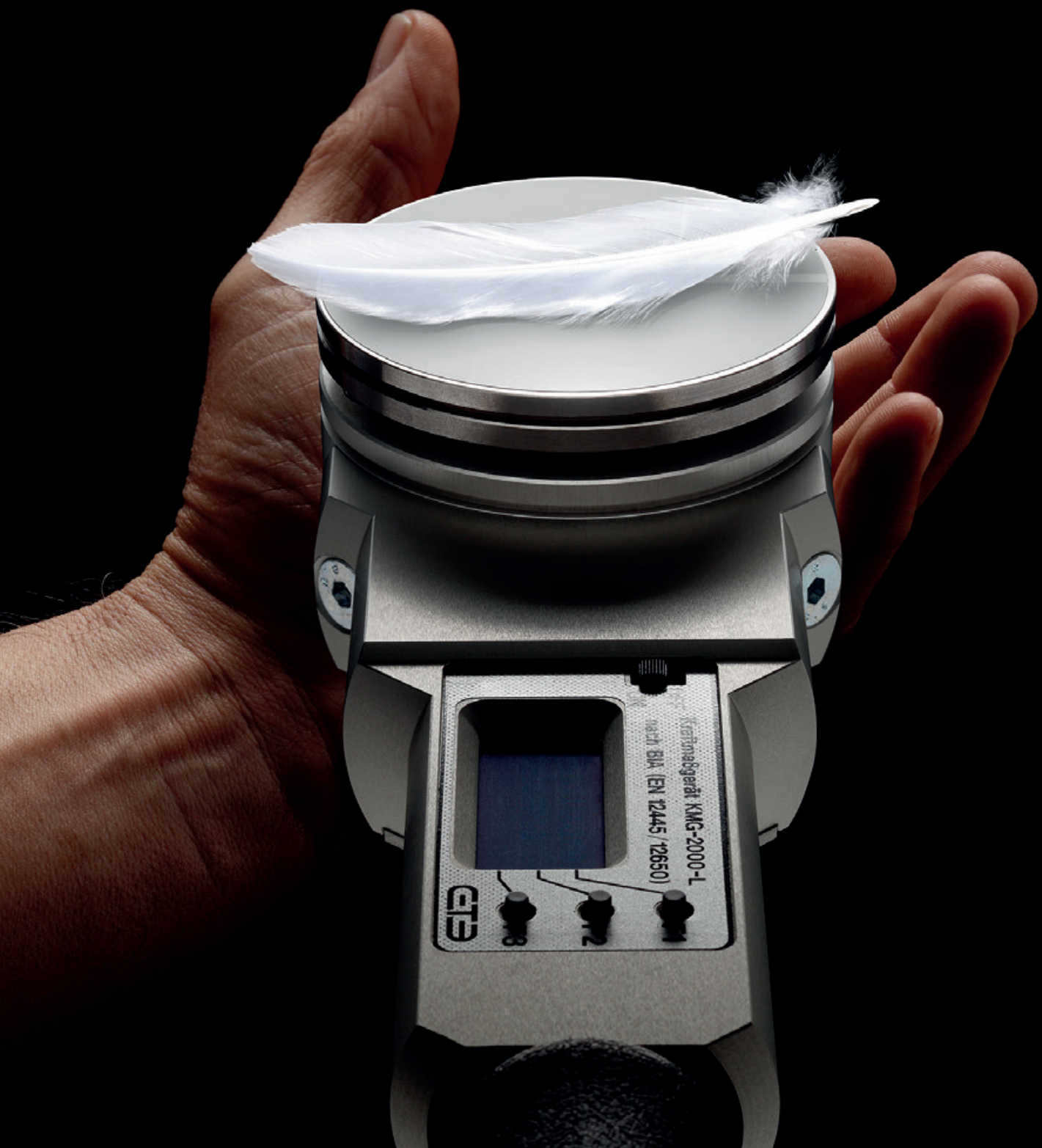
Francesca

Has the hands of a chef.

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	PAGES	12 - 67
ELECTRONICS	PAGES	68 - 127
COMPLETE MANAGEMENT SETS	PAGES	128 - 145
IN-BUILT INSIDE AUTOMATION	PAGES	146 - 157
CARDIN IDENTIFICATION ELEMENTS	PAGES	158 - 161
TABLES OF COMPARISON	PAGES	162 - 169

KEY TO THE SYMBOLS

	Propulsion units powered by 12 Vdc		Propulsion units powered by 230 Vac		Maximum gate weight supported by the automation
	Propulsion units powered by 24 Vdc		Integrated radio receiver card		Graphic LCD display 128 x 128 pixels
	Self-learning programming and manoeuvre count by means of an integrated encoder		Pre-wired connection cable		Real-time clock
	Integrated magnetic encoder control		Integrated buffer batteries		Integrated solar panel
	Opening and closing direction electronic deceleration system		Integrated NiMH batteries managed by a micro controller		Cardin Elettronica guarantee 2-year / 50.000 manoeuvres

AUTOMATION



HINGED-ARM AUTOMATION FOR SWING-TO GATES PAGES 14-29

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 AESTHETICAL ASPECT.



WORM SCREW AUTOMATION FOR SWING-TO GATES PAGES 30-37

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-TO GATES PAGES 38-41

PARTICULARLY SUITED FOR INSTALLATIONS THAT DO NOT ALLOW COLUMN INSTALLATIONS OR WHERE THE AUTOMATION HAS TO BE COMPLETELY HIDDEN.



AUTOMATION FOR SLIDING GATES PAGES 42-47

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.



AUTOMATION FOR COUNTERBALANCED GARAGE DOORS PAGES 48-51

EASILY FITTED TO ALL TYPES OF COUNTERBALANCED GARAGE DOORS THEY MAINTAIN THE AESTHETICAL ASPECT WHILST RETAINING THEIR MECHANICAL PROWESS. A BALANCED CHOICE FOR PERFECT SERVICE.



CHAIN GUIDED AUTOMATION FOR SECTIONAL DOORS PAGES 52-55

TIRELESSLY THEY ACCOMPANY THE DOOR THROUGHOUT ITS ENTIRE COURSE GETTING THE BEST PERFORMANCE AND PROTECTING IT THROUGHOUT TIME. TECHNOLOGICALLY SUPERIOR.



ELECTROMECHANICAL SELF-POWERED PARKING PLACE PROTECTION PAGES 56-57

ROBUST PROTECTION FOR YOUR PARKING PLACE WITH SILENT ELECTRONIC MOVEMENT. THIS DEVICE BLENDS ITSELF SEAMLESSLY INTO ANY ARCHITECTONIC CONTEXT.



AUTOMATION FOR ROAD BARRIERS PAGES 58-63

PURE EFFICIENCY AND COMPLETE PERFORMANCE. THEY ARE IMPECCABLE IN THEIR MOVEMENT AND IT'S A PLEASURE TO OBSERVE THEM EVEN WHEN AT REST.



COMPLEMENTARY EQUIPMENT PAGES 64-67

A CORRECTLY INSTALLED SYSTEM GUARANTEES SAFETY AND RELIABILITY. THE INSTALLATION MUST BE CARRIED OUT IN CONFORMITY WITH THE LOCAL STANDARDS AND REGULATIONS IN FORCE.





SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

Motor power supply 24 Vdc

Maximum gate weight 200 kg

Maximum opening angle 130°

Incorporated electronic programmer with LCD graphics display

CARDIN SERIES BL

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 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 and 200 kg maximum weight.

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 avant-garde electronic programmer (on board the master motor) features encoder-controlled gate positioning.

Programming is self-learning. 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 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, photoelectric cell function setting and electric lock enable etc.

The master appliance is 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.

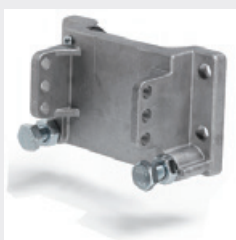
Manual release is carried out using the hexagonal key located inside the side panel.



CARTER IN SHOCKPROOF PLASTIC



MANUAL MANOEUVRING MECHANISM



GATE FASTENING BRACKET



NI MH BATTERIES IN DOTATION



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled integral “master” unit fitted with an electronic programmer, a multi-decoding module **S449-S486-S504-S508**, battery charger and NiMH batteries.

Operator arm to be ordered separately.



SELF-LOCKING MASTER AUTOMATION

200/BL824MCB



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled ‘slave’ automation.

Operator arm to be ordered separately.

SELF-LOCKING SLAVE AUTOMATION

200/BL824S



Operational constraints:

For gates with a maximum length of 2 m (2,5 m with a hinged arm and an electric lock), maximum weight 200 kg.

For the electric locks turn to page 65.





PRODUCT DESCRIPTION

ORDER NR.

HINGED/STRAIGHT ARM

STANDARD HINGED OPERATOR ARM

206/BL824ARM

in spray-painted cast aluminium.



STRAIGHT ARM WITH SLIDING GUIDE

206/BL824DRM

in spray-painted cast aluminium.



1000 mm GUIDE FOR SPECIAL OPENING REQUIREMENTS

206/BL3924GU2

in spray-painted cast aluminium.

Supplied in lots of 2 pieces.



6-WIRE SPECIAL CONNECTING CABLE

10 m CABLE

CABPC10

with end sleeves.



100 m CABLE

CABPC100ST

supplied on a special spool.



KIT BATTERY CHARGER + NiMH BATTERIES

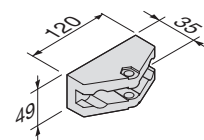
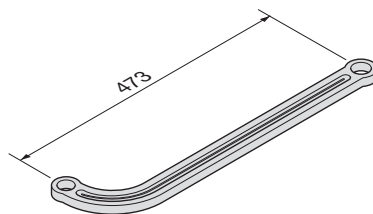
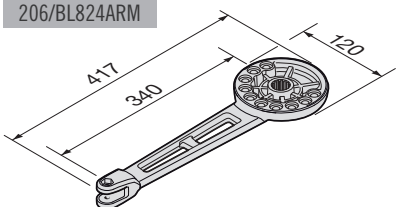
KBNIMH-3

Allows the 200/BL824MCB unit to work during blackouts.

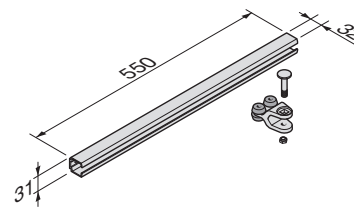
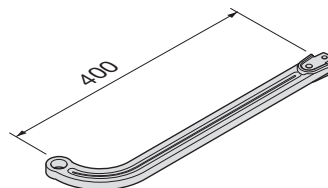
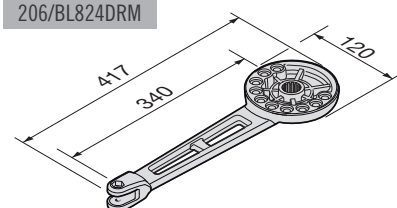


HINGED/STRAIGHT ARM DIMENSIONS

206/BL824ARM



206/BL824DRM



the overall length of the straight arm = 740 mm


TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

Power supply	Vdc	24
Electrical input	A	2
Power input	W	50
Duty cycle	%	70
Opening time 90°	s	14 (12*)
Maximum opening angle	°	130
Maximum torque	Nm	270
Protection grade	IP	44

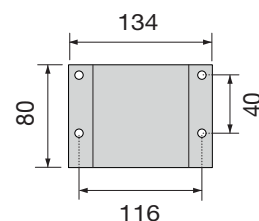
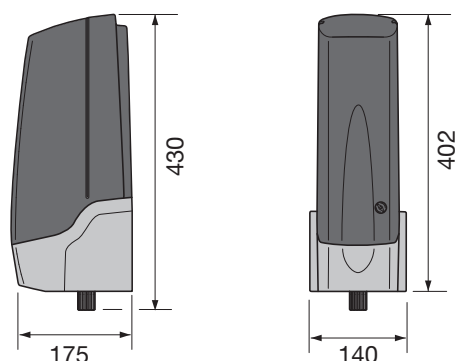
* using a straight operator arm

ELECTRONIC PROGRAMMER TECHNICAL SPECIFICATIONS

Power supply	Vac	230
Electrical input	A	1, 2
Maximum power yield	W	250
Power output for 1 or 2 motors:	W	60 + 60
Class II device	Cl	

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3
Number of channels	Nr.	4
Number of functions	Nr.	6
Number of stored codes	Nr.	300 / 1000

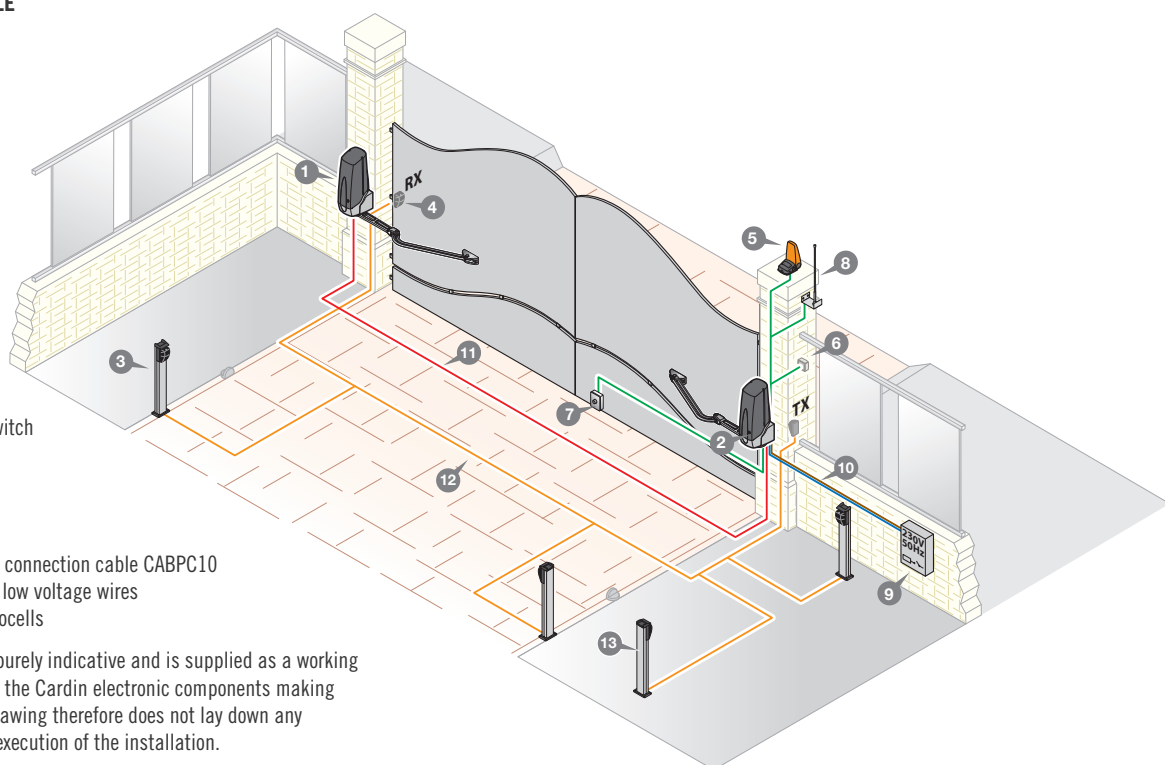


Fastening base BL824

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 locking device
- 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



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



SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

Motor power supply 24 Vdc

Maximum gate weight 400 kg

Maximum opening angle 130°

Incorporated electronic programmer

CARDIN SERIES BL

A complete automatic device for large and medium size 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.

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 and 400 kg maximum weight.

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

The robust fastening bracket allows the automation to be fitted to brick built 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 avant-garde electronic programmer (on board the master motor) features encoder-controlled gate positioning.

Programming is self-learning. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving.

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, photoelectric cell function setting and electric lock enable etc.

The master appliance is 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.

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



FRAME AND BASE IN ALUMINIUM



ALUMINIUM OPERATOR ARMS



MANUAL RELEASE MECHANISM



EMERGENCY BATTERIES



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled integral “master” unit fitted with an electronic programmer, a multi-decoding module **S449-S486-S504-S508**, battery charger and NiMH batteries.

Operator arm to be ordered separately.



SELF-LOCKING MASTER AUTOMATION

200/BL3924CSB

REVERSIBLE MASTER AUTOMATION

200/BL3924CRB



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled ‘slave’ automation

Operator arm to be ordered separately.

SELF-LOCKING SLAVE AUTOMATION

200/BL3924SB

REVERSIBLE SLAVE AUTOMATION

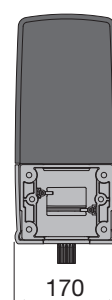
200/BL3924RB



Operational constraints:

For gates with a maximum length of 3,5 m (5 m with a hinged arm and an obligatory electric locking device), maximum weight 400 kg.

For the electric locks turn to page 65.





PRODUCT DESCRIPTION

ORDER NR.

ARTICULATED/STRAIGHT OPERATOR ARM

STANDARD HINGED OPERATOR ARM

206/BL3924ARM

in spray-painted cast aluminium.



HINGED OPERATOR ARM WITH JOINTS

206/BL3924SRM

in spray-painted cast aluminium
for opening systems on slopes.

STRAIGHT ARM WITH SLIDING GUIDE

206/BL3924DRM

in spray-painted cast aluminium.



1000 mm GUIDE FOR SPECIAL OPENING REQUIREMENTS

206/BL3924GU2

in spray-painted cast aluminium.
Supplied in lots of 2 pieces.

6-WIRE SPECIAL CONNECTING CABLE

10 m CABLE

CABPC10

with end sleeves.



100 m CABLE

CABPC100ST

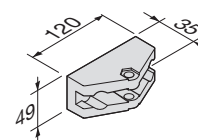
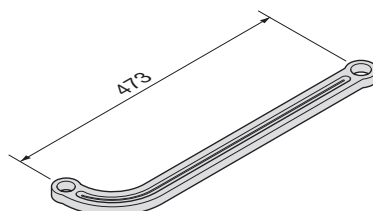
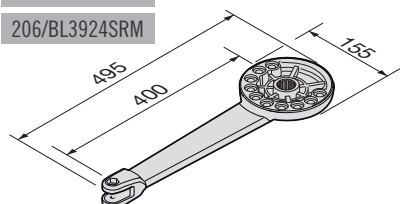
supplied on a special spool.



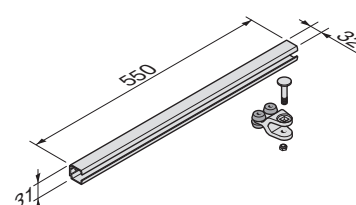
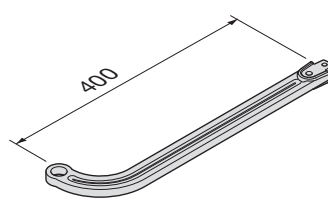
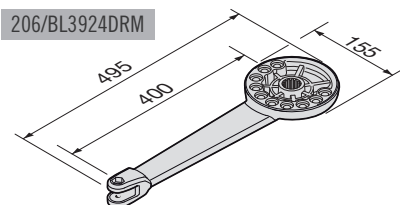
HINGED/STRAIGHT ARM DIMENSIONS

206/BL3924ARM

206/BL3924SRM



206/BL3924DRM



the overall length of the straight arm = 800 mm


TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

Power supply	Vdc	24
Electrical input	A	2
Power input	W	50
Duty cycle	%	70
Opening time 90°	s	20 (16*)
Maximum opening angle	°	130
Maximum torque	Nm	300
Protection grade	IP	44

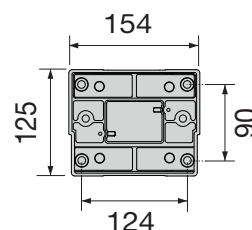
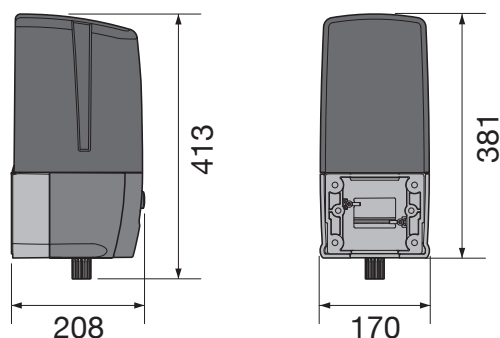
* using a straight operator arm

ELECTRONIC PROGRAMMER TECHNICAL SPECIFICATIONS

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

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3
Number of channels	Nr.	4
Number of functions	Nr.	6
Number of stored codes	Nr.	300 / 1000

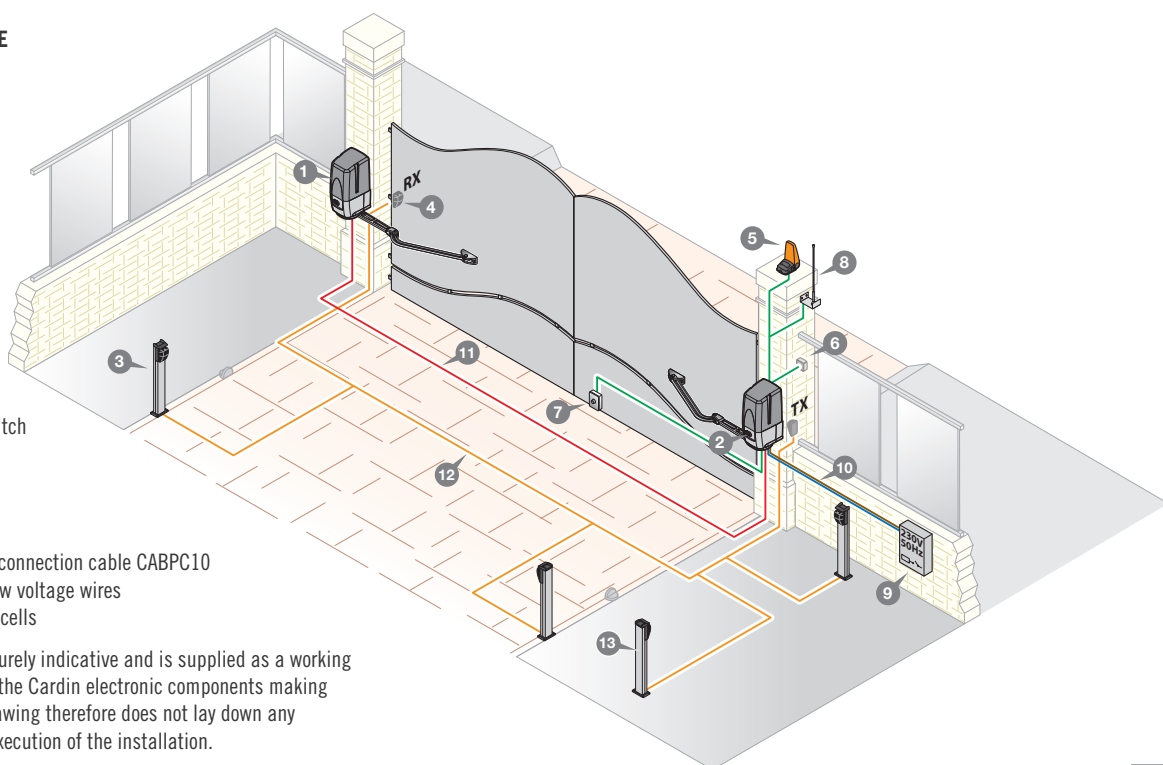


Fastening base BL3924

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 locking device
- 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



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



SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

Motor power supply 24 Vdc

Maximum gate weight 200 kg

Maximum opening angle 120°

Incorporated electronic programmer

CARDIN SERIES BL

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.

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 and 200 kg maximum weight.

Installation is facilitated and the geared motor is well anchored by the special practical cast aluminium wall (or column) bracket.

The compact and robust fastening bracket allows the automation to be fitted to very narrow columns. The cast aluminium operator arms are extremely robust.

The avant-garde electronic programmer (on board the master motor) features encoder-controlled gate positioning.

Programming is self-learning. 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 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, photoelectric cell function setting and electric lock enable etc.

The master appliance is 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, can be ordered apart.

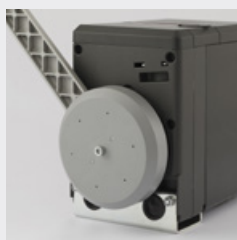
Manual release is carried out using a practical locking - unlocking lever protected by a security key



GATE MOVEMENT SIGNALLING
INDICATED BY LEDS



MANUAL RELEASE
LOCKING -UNLOCKING LEVER



OPERATOR ARM TRANSMISSION
IN ALUMINIUM



EMERGENCY BATTERIES



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled integral "master" unit fitted with an electronic programmer, a multi-decoding module **S449-S486-S504-S508**.

Kit battery charger + batteries to be ordered separately.

Gate movement signalling via led

Operator arm included.



SELF-LOCKING MASTER AUTOMATION

200/BLTOW24M



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Encoder controlled 'slave' automation

Gate movement signalling via led

Operator arm included.



SELF-LOCKING SLAVE AUTOMATION

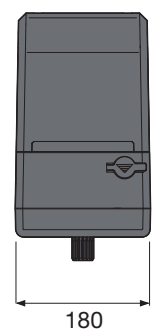
200/BLTOW24S



Operational constraints:

For gates with a maximum length of 2 m (2,5 m with a an electric locking device), maximum weight 200 kg.

For the electric locks turn to page 65.





PRODUCT DESCRIPTION

ORDER NR.

KIT BATTERY CHARGER + NiMH BATTERIES

KBNIMH-1

Allows the operator BLTOW24M to work during blackouts.



6-WIRE SPECIAL CONNECTING CABLE

10 m CABLE

CABPC10

with end sleeves.



100 m CABLE

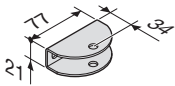
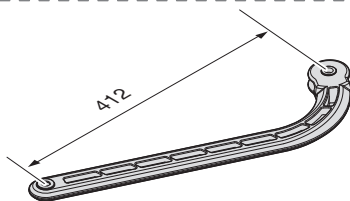
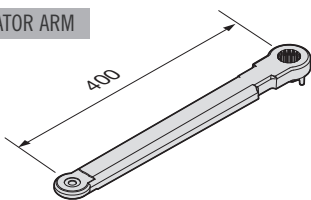
CABPC100ST

supplied on a special spool.



HINGED ARM DIMENSIONS

OPERATOR ARM




TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

Power supply	Vdc	24
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

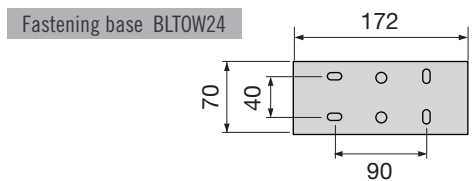
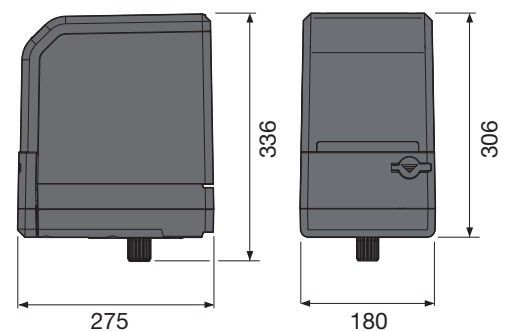
ELECTRONIC PROGRAMMER TECHNICAL SPECIFICATIONS

Power supply	Vac	230
Electrical input	A	1, 2
Maximum power yield	W	250
Power output for 1 or 2 motors:	W	60 + 60
Class II device	ClS	

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3
Number of channels	Nr.	4
Number of functions	Nr.	6
Number of stored codes	Nr.	300 / 1000

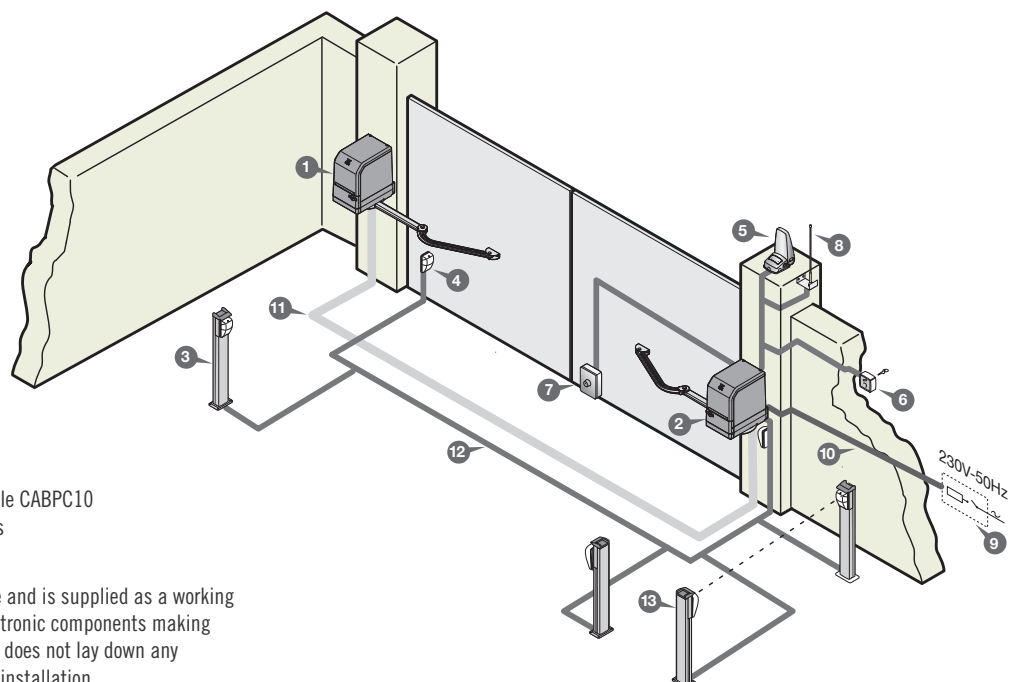
OVERALL DIMENSIONS



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 locking device
- 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



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.



HINGED-ARM AUTOMATION FOR SWING-TO GATES

Motor power supply:

- 24 Vdc models
- 230 Vac models

Maximum gate weight 150 kg

Maximum opening angle 130°

CARDIN 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.

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

PRODUCT DESCRIPTION

ORDER NR.

RIGHT-HAND ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR

Controlled by encoder.

Operator arm included.

Electronic control unit to be ordered separately.

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



SELF-LOCKING ELECTROMECHANICAL OPERATOR

200/BL1924ASW



RIGHT-HAND ELECTROMECHANICAL OPERATOR WITH A 230 Vac MOTOR

With electronic travel limits.

Operator arm included.

Electronic control unit to be ordered separately.

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



SELF-LOCKING ELECTROMECHANICAL OPERATOR

200/BL1920

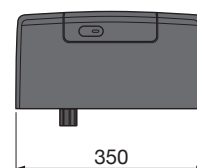


Operational constraints:

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

For the electric locks turn to page 65.

Fastening base BL1920





PRODUCT DESCRIPTION

ORDER NR.

SELF-PROGRAMMING ELECTRONIC PROGRAMMERS FOR BL1924ASW

Programmer for the management of two encoder controlled motors.

Mains power supply 230 Vac.

Motor power supply 24 Vdc.

Maximum motor power yield 250 W.

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

Batteries and a battery charger in the versions CC242ETOPCB and CC242EFAMCB

For more information turn to page 105



CC242ETOP - CC242ETOPCB



CC242EXTOPCB

ELECTRONIC PROGRAMMER**CC242ETOP****ELECTRONIC PROGRAMMER, BATTERY CHARGER AND NiMH BATTERIES****CC242ETOPCB****ELECTRONIC PROGRAMMER, BATTERY CHARGER AND NiMH BATTERIES****CC242EXTOPCB****KIT BATTERY CHARGER + NiMH BATTERIES****KBNIMH-1**

Allows the programmer CC242ETOP to work during blackouts.

**ELECTRONIC PROGRAMMERS FOR BL1920**

Programmer for the control of two motors.

Mains 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.

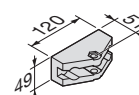
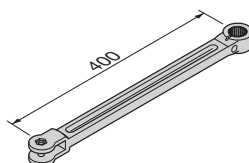
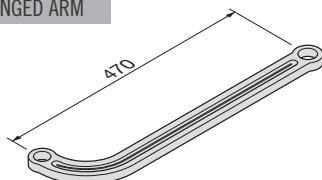
For more information turn to page 107

**PROGRAMMATORE ELETTRONICO****PRG230M2****6-WIRE SPECIAL CONNECTING CABLE FOR BL1924ASW****10 m CABLE****CABPC10**

with end sleeves.

100 m CABLE**CABPC100ST**

supplied on a special spool.

**HINGED ARM DIMENSIONS****HINGED ARM**

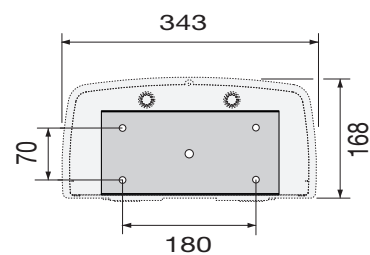
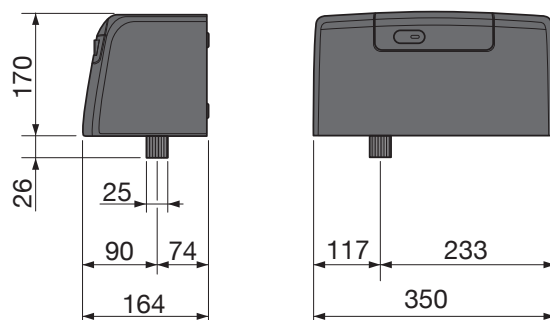
TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS BL1924ASW

Mains power supply	Vac	230
Motor power supply	Vdc	24
Electrical input	A	2
Power input	W	60
Duty cycle	%	70
Opening time 90°	s	12,5
Maximum opening angle	°	130
Torque	Nm	170
Protection grade	IP	44

OPERATOR ARM TECHNICAL SPECIFICATIONS BL1920

Mains power supply	Vac	230
Motor power supply	Vac	230
Electrical input	A	1,3
Power input	W	290
Duty cycle	%	25
Opening time 90°	s	15
Maximum opening angle	°	130
Torque	Nm	270
Protection grade	IP	44

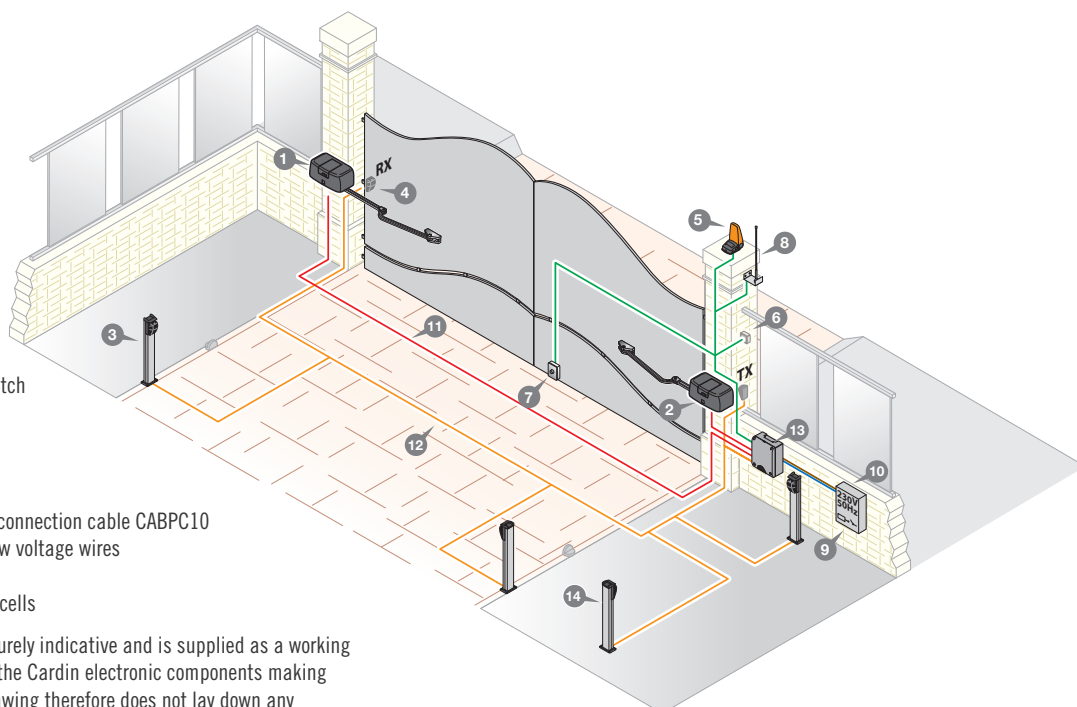


Fastening base BL1920-BL1924

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 locking device
- 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



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



WORM SCREW AUTOMATION FOR SWING-TO GATES

Motor power supply 24 Vdc

Maximum gate weight 300 kg

Maximum opening angle 110°

CARDIN 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.

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.

To be used with Cardin electronic programmers CC242ETOPCB, CC242EXTOPCB and PRG900.

On the BLEGOS / BLESOL / BL224E / BLA24LREV models 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.



STRUCTURE IN CAST ALUMINIUM



GATE MOVEMENT INDICATOR LEDS



WORM SCREW WITH ANTI-DUST PROTECTION



EMERGENCY BATTERIES
BLEGOS / BLESOL / BL224E /
BLA24LREV



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY BLEGOS /
BLESOL / BL224E / BLA24LREV

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL RAM WITH A 24 Vdc MOTOR

Controlled by encoder.

Electronic control unit to be ordered separately CC242ETOPCB / CC242EXTOPB.

SELF-LOCKING ELECTROMECHANICAL RAM STANDARD VERSION

200/BLEGOS

SELF-LOCKING ELECTROMECHANICAL RAM LONG VERSION

200/BLESOL

Operational constraints:

BLEGOS: standard version for gates with a maximum length of 2,0 m, maximum weight. 200 kg.

BLESOL: long version for gates with a maximum length of 3 m (3,5 m with an electric locking device), maximum weight 300 kg



BLEGOS

BLESOL



SELF-LOCKING ELECTROMECHANICAL RAM

200/BL224E

Operational constraints:

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



REVERSIBLE ELECTROMECHANICAL RAM LONG VERSION

200/BLA24LREV

Operational constraints:

For gates with a maximum length of 4 m (5 m with an electric locking device), maximum weight 300 kg.



ELECTROMECHANICAL RAM WITH A 24 Vdc MOTOR

with mechanical opening and closing direction travel limits

Cardin electronic control unit to be ordered separately PRG900.

SELF-LOCKING ELECTROMECHANICAL RAM STANDARD VERSION

200/BLA24S

SELF-LOCKING ELECTROMECHANICAL RAM LONG VERSION

200/BLA24L

Operational constraints:

BLA24S: standard version for gates with a maximum length of 3 m, maximum weight. 250 kg.

BLA24L: long version for gates with a maximum length of 4 m (5 m with an electric locking device), maximum weight 300 kg



BLA24S

BLA24L



For the electric locks turn to page 65.



PRODUCT DESCRIPTION

ORDER NR.

OPTIONAL BRACKETS

STAINLESS STEEL WALL BRACKETS FOR BL224E

206/BL224STAI

WALL BRACKETS FOR BLEGOS - BLESOL

206/BLSTAE

WALL BRACKETS FOR BLA24S - BLA24L - BL224E

206/BLSTA

Front and rear brackets.

ADJUSTABLE WALL BRACKETS FOR BLA24S - BLA24L

206/BLASR

Adjustable front and rear brackets.

SELF-PROGRAMMING ELECTRONIC CONTROL UNIT FOR BLEGOS - BLESOL - BL224E - BLA24LREV

Programmer for the management of two 24V encoder controlled motors.
Fitted with the multi-decoding module S449-S486-S504-S508.
Batteries and a battery charger in the versions CC242ETOPCB and CC242EXTOPCB
For more information turn to page 105



ELECTRONIC CONTROL UNIT

CC242ETOP

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

CC242ETOPCB

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

CC242EXTOPCB

ELECTRONIC PROGRAMMERS FOR BLA24S - BLA24L

Programmer for the control of two 24V motors without encoder.
Fitted with an S449 radio receiver module and predisposed for the insertion of
batteries and a battery charger.

For more information turn to page 105

ELECTRONIC CONTROL UNIT, BASIC VERSION

PRG900

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

PRG900CB

KIT BATTERY CHARGER + NiMH BATTERIES

KBNIMH-1

Allows the programmers PRG900 and CC242ETOP to work during blackouts..

6-WIRE SPECIAL CONNECTING CABLE FOR BLEGOS / BLESOL / BL224E / BLA24LREV

10 m CABLE

CABPC10

with end sleeves.

100 m CABLE

CABPC100ST

supplied on a special spool.



CC242ETOP - CC242ETOPCB



CC242EXTOPCB



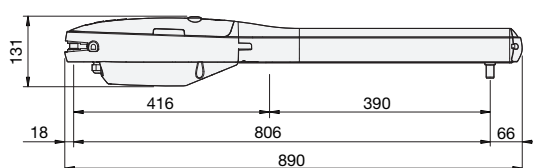
TECHNICAL DATA

RAM TECHNICAL SPECIFICATIONS

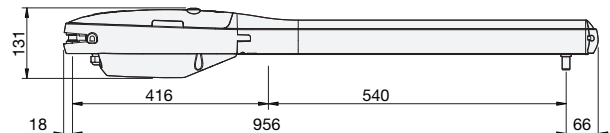
		BLEGOS	BLESOL	BL224E	BLA24S	BLA24L
Mains power supply	Vac	230	230	230	230	230
Motor power supply	Vdc	24	24	24	24	24
Electrical input	A	2	2	2	2	2
Power input	W	60	60	60	60	60
Thrust	N	1500	2000	2200	1900	1900
Travel distance (worm screw)	mm	350	500	450	350	500
Duty cycle	%	70	70	70	70	70
Opening time 90°	s	15	20	25	20	25
Maximum opening angle	°	110	110	110	110	110
Protection grade	IP	44	44	44	44	44

OVERALL DIMENSIONS

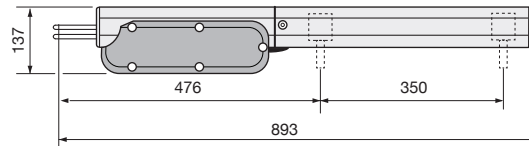
BLEGOS



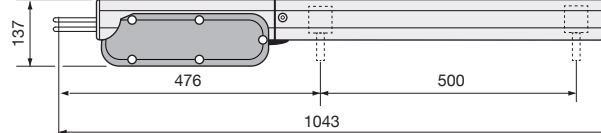
BLESOL



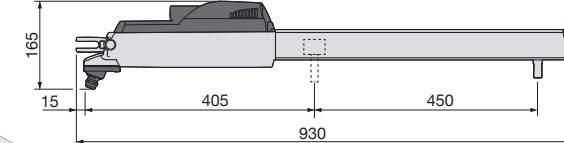
BLA24S



BLA24L



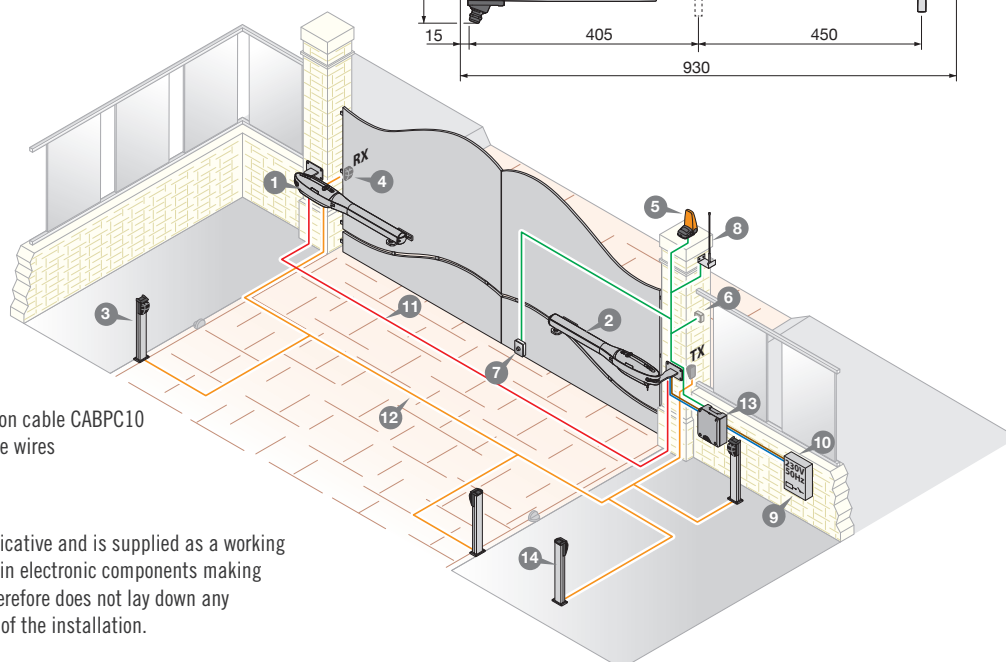
BL224E



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 locking device
- 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



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



WORM SCREW AUTOMATION FOR SWING-TO GATES

Motor power supply 230 Vac

Maximum gate weight 300 kg

Maximum opening angle 110°

CARDIN SERIES BL

These reliable and robust rams guarantee exceptional, safe and maintenance-free service.

Particularly suited for installations with columns of all dimensions. Easy to fit without requiring brickwork the products offer excellent service with regard to the number of manoeuvres.

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 manual release mechanism consists of a button, which is activated by inserting a personalised key, and allows the gate to be opened in case of blackouts.

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



ADJUSTABLE BRACKETS



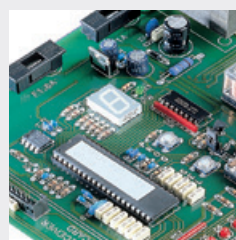
SECURITY KEY



SHOCKPROOF STRUCTURE



WORM SCREW SYSTEM



PROGRAMMER

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL RAM WITH A 230 Vac MOTOR

with mechanical opening and closing direction travel limits

Cardin electronic control unit to be ordered separately.

SELF-LOCKING RAM STANDARD VERSION

200/BLA230S

230V



250kg

Operational constraints:

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



SELF-LOCKING RAM LONG VERSION

200/BLA230L

REVERSIBLE RAM LONG VERSION

200/BLA230LREV

230V



300kg

Operational constraints:

For gates with a maximum length of 4 m (5 m with an electric locking device),
maximum weight 300 kg.



For the electric locks turn to page 65.



PRODUCT DESCRIPTION

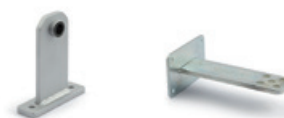
ORDER NR.

OPTIONAL BRACKETS

BRACKETS FOR BLA230S - BLA230L

206/BLSTA

Front and rear brackets.



ADJUSTABLE BRACKETS FOR BLA230S - BLA230L

206/BLASR

Adjustable front and rear brackets.



ELECTRICAL LIMIT SWITCH FOR BLA230S - BLA24S

206/FCAS

Electrical opening and closing limit switch, standard version.



ELECTRICAL LIMIT SWITCH FOR BLA230L - BLA24L

206/FCAL

Electrical opening and closing limit switch, long version.



ELECTRONIC PROGRAMMERS

PRG807001

Programmer for the control of one motor.

Power supply 230 Vac.

Maximum motor power yield 450 W.

The programmer is factory set for the insertion of a Cardin standard receiver card.

For more information turn to page 107



ELECTRONIC PROGRAMMERS

PRG230M2

Programmer for the control of two motors.

Power supply 230 Vac.

Maximum motor power yield 470 + 470 W.

The programmer is factory set for the insertion of a Cardin standard receiver card.

For more information turn to page 107



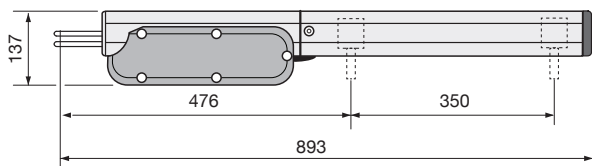
TECHNICAL DATA

OPERATOR ARM TECHNICAL SPECIFICATIONS

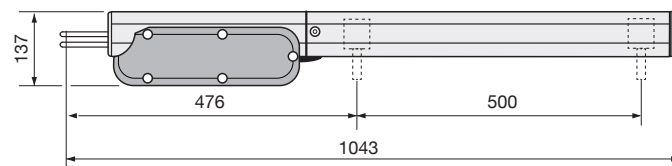
Mains power supply	Vac	230	230
Motor power supply	Vac	230	230
Electrical input	A	1,6	1,6
Power input	W	370	370
Thrust	N	2200	2200
Travel distance (worm screw)	mm	350	500
Duty cycle	%	30	30
Capacitor	μ	8	8
Opening time 90°	s	25	30
Maximum opening angle	°	110	110
Protection grade	IP	44	44

OVERALL DIMENSIONS

BLA230S



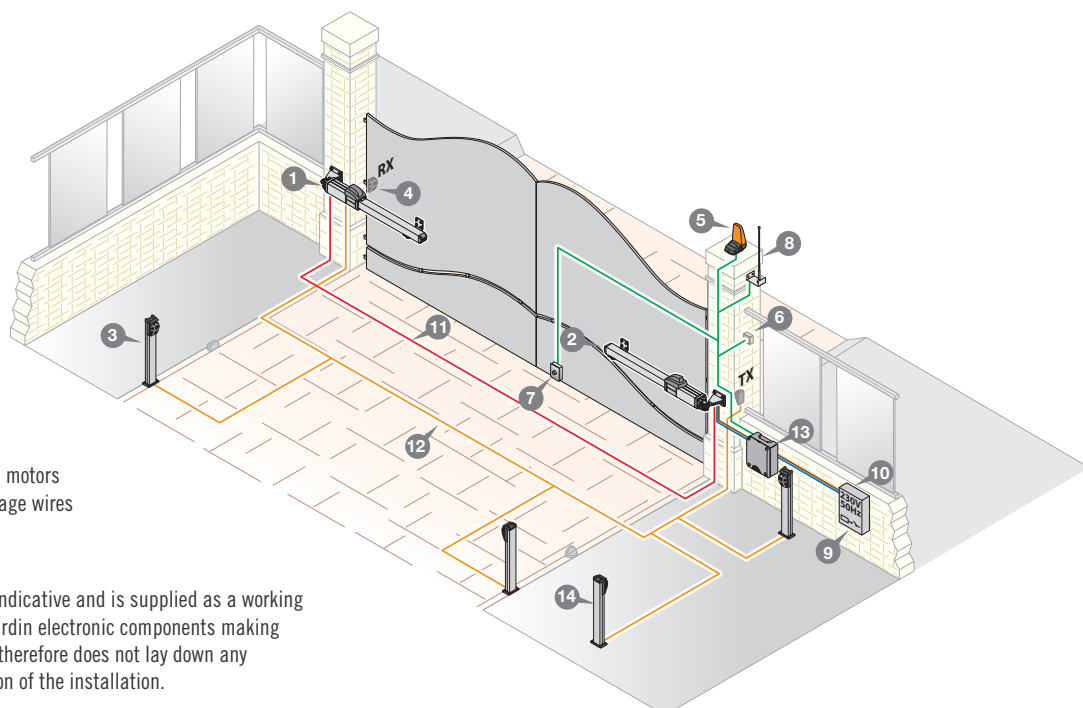
BLA230L / BLA230LREV



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 locking device
- 8 External aerial
- 9 All pole circuit breaker
- 10 Mains cable 230 Vac
- 11 Channelling route for 230 Vac motors
- 12 Channelling route for low voltage wires
- 13 Electronic programmer
- 14 Lateral protective photocells



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-TO GATES

Motor power supply:

- 24 Vdc models
- 230 Vac models

Maximum gate weight 550 kg

Maximum opening angle 360°

CARDIN SERIES HL

The automation is made up of a series of components consisting of an electronic programmer, 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.

Particularly suited for installations that do not allow column installations or where the automation has to be completely hidden. Requires a Cardin electronic programmer.

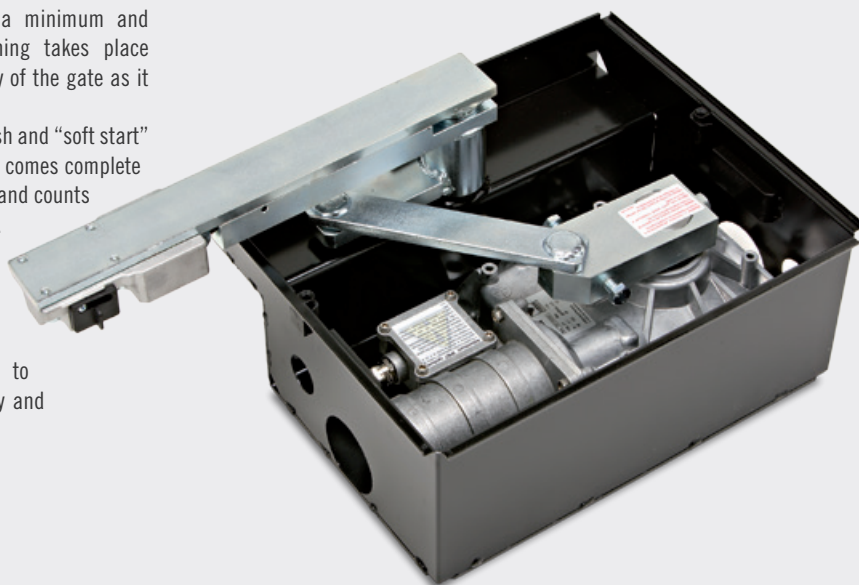
On the ESB model gate position is encoder controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving.

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 operating parameters are set using dip-switches safely located inside the programmer.

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



STEEL EMBEDDING CASE



ROTATION THROUGH 360°



SPHERICAL PIVOTING



SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY
VERSIONS HL2524ESB - HL1824ESB

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR

Controlled by encoder.

Cardin electronic programmer and connection cable to be ordered separately.

GEARED MOTOR WITH A MAXIMUM OPENING ANGLE OF 110°

800/HL2524ESB

Fitted with a crank rod transmission system.

GEARED MOTOR WITH AN OPENING ANGLE OF 180-360°

800/HL1824ESB

Fitted with a chain driven transmission system (chain kit included).



Operational constraints

For gates with a maximum length of 3 m,
maximum weight 350 kg.



ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR

Supplied with a 6 m connection cable.

Electronic control unit to be ordered separately.

GEARED MOTOR WITH A MAXIMUM OPENING ANGLE OF 110°

800/HL2524SB

Fitted with a crank rod transmission system.

GEARED MOTOR WITH AN OPENING ANGLE OF 180-360°

800/HL1824SB

Fitted with a chain driven transmission system (chain kit included).



Operational constraints

For gates with a maximum length of 3 m,
maximum weight 350 kg.



ELECTROMECHANICAL OPERATOR WITH A 24 Vac MOTOR

Supplied with a 6 m connection cable.

Electronic control unit to be ordered separately.

GEARED MOTOR WITH A MAXIMUM OPENING ANGLE OF 110°

800/HL251CL

Fitted with a crank rod transmission system.

GEARED MOTOR WITH AN OPENING ANGLE OF 180-360°

800/HL2518CL

Fitted with a chain driven transmission system (chain kit included).



Operational constraints

For gates with a maximum length of 3 m,
maximum weight 550 kg.



For the electric locks turn to page 65.



PRODUCT DESCRIPTION

ORDER NR.

EMBEDDING CASES

Steel embedding case with cataphoresis finishing. The component has been treated with a special spray painting cycle that increases the level of protection against atmospheric agents and corrosion. The spray painting cycle is not carried out using heavy metals that are considered to cause damage to the environment. 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.

STEEL CASE FOR HL251CL - HL2524SB - HL2524ESB**806/HLCF1**

Opening angle 90 to 110°.

STEEL CASE FOR HL2518CL - HL1824SB - HL1824ESB**806/HLCF18**

Opening angle 180 to 360°.

KIT OF LEVER ACCESSORIES FOR A 140° OPENING ANGLE**806/HLCA140**

Used to increase the opening angle from 110° to 140°.

SELF-PROGRAMMING ELECTRONIC PROGRAMMERS FOR HL2524ESB - HL1824ESB

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

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

Batteries and a battery charger in the versions CC242ETOPCB and CC242EXTOPCB

For more information turn to page 105



CC242ETOP - CC242ETOPCB



CC242EXTOPCB

PROGRAMMATORE ELETTRONICO**CC242ETOP****PROGRAMMATORE ELETTRONICO CARICABATTERIA E BATTERIE NiMH****CC242ETOPCB****PROGRAMMATORE ELETTRONICO CARICABATTERIA E BATTERIE NiMH****CC242EXTOPCB**

SELF-PROGRAMMING ELECTRONIC PROGRAMMERS FOR HL2524SB - HL1824SB

Programmer for the control of two 24V motors without encoder.

Fitted with an S449 radio receiver module and predisposed for the insertion of batteries and a battery charger.

For more information turn to page 105

ELECTRONIC CONTROL UNIT, BASIC VERSION**PRG900****ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES****PRG900CB****KIT BATTERY CHARGER + NiMH BATTERIES****KBNiMH-1**

Allows the programmers PRG900 and CC242ETOP to work during blackouts..

**ELECTRONIC PROGRAMMERS FOR HL251CL - HL2518CL****PRG230M2**

Programmer for the control of two motors.

Power supply 230 Vac.

Maximum motor power yield 470 + 470 W.

The appliance is factory set for the insertion of a Cardin standard receiver card.

For more information turn to page 107

**6-WIRE SPECIAL CONNECTING CABLE (FOR HL2524ESB - HL1824ESB)****10 m CABLE****CABPC10**

with end sleeves.

100 m CABLE**CABPC100ST**

supplied on a special spool.

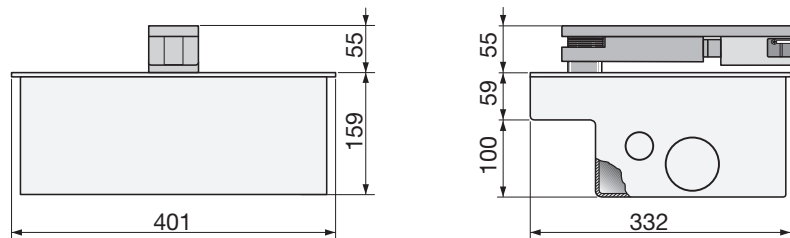


TECHNICAL DATA

GENERAL CHARACTERISTICS

		HL2524ESB HL1824ESB	HL2524SB HL1824SB	HL251CL HL2518CL
Mains power supply	Vac	230	230	230
Motor power supply	Vdc	24	24	(230Vac)
Electrical input	A	2	2	1,9
Power input	W	60	60	470
Duty cycle	%	70	70	20
Geared motor speed	revs/min	1,1	1,1	1,1
Opening time 90°	s	22	22	19,5
Opening time 110°	s	27	27	25
Opening time 140°	s	35	35	30
Opening time 180°	s	44	44	35
Torque	Nm	170	170	290
Protection grade	IP	67	67	67

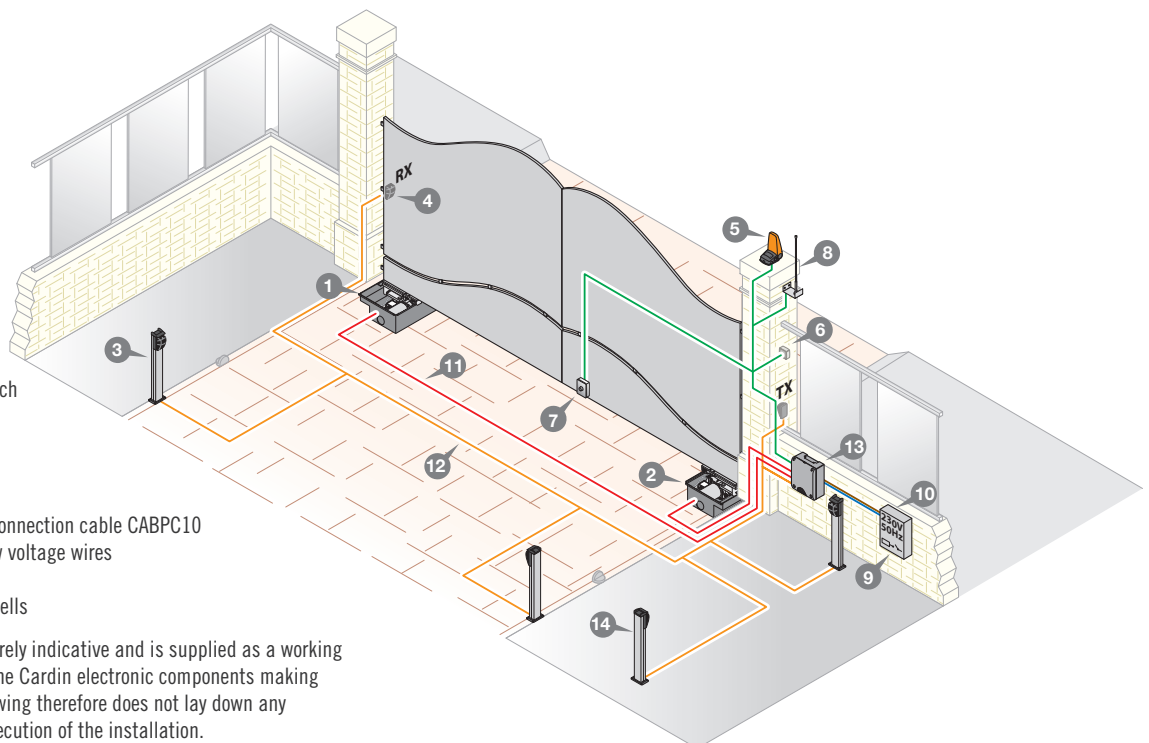
OVERALL DIMENSIONS



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 locking device
- 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



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



SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

Motor power supply 24 Vdc

Maximum gate weight from 400 to 3000 kg

Drag speed from 8 to 9,3 m/min.

Programmer with LCD graphics display and real time clock

CARDIN 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.

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 master appliance is 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.



MANUAL RELEASE SLX324



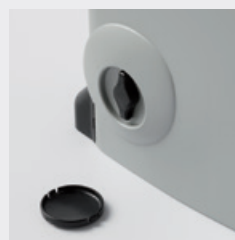
SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY



MANUAL RELEASE SLX1524



ELECTRONIC PROGRAMMER SL524



MANUAL RELEASE SL524

PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

100/SLX324

MAXIMUM WEIGHT 3000 kg
CONTROLLED BY MAGNETIC ENCODER

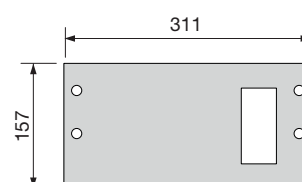
The automation is made up of an electromechanical unit 100/SLX324 with an in-built:

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

Gate positioning control is carried out by an encoder with self-learning programming that reduces installation times to a minimum and optimizes programming.

The integrated programmer is fitted with an LCD display that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows rapid function parameter event setting thanks to the presence of the real-time clock.

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



FASTENING BASE SLX324
SPARE PARTS ORDER NR. 999393



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

100/SLX1524

MAXIMUM WEIGHT 1500 kg
CONTROLLED BY MAGNETIC ENCODER

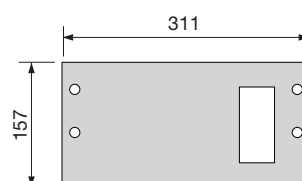
The automation is made up of an electromechanical unit 100/SLX1524 with an in-built:

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

Gate positioning control is carried out by an encoder with self-learning programming that reduces installation times to a minimum and optimizes programming.

The integrated programmer is fitted with an LCD display that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows rapid function parameter event setting thanks to the presence of the real-time clock.

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



FASTENING BASE SLX1524
SPARE PARTS ORDER NR. 999393





PRODUCT DESCRIPTION

ORDER NR.

ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

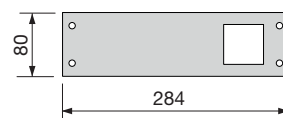
100/SL524CB

**MAXIMUM WEIGHT 500 kg - (PINION H100)
CONTROLLED BY MAGNETIC ENCODER**

The automation is made up of an electromechanical unit 100/SL524 with an in-built:

- electronic programmer
- 433 MHz "FM" receiver
- removable battery charger
- NiMH batteries.

Gate positioning control is carried out by an encoder with self-learning programming that reduces installation times to a minimum and optimizes programming. The electronic controller features real time display of the programming stages (shown in six different languages) as well as counting the number of manoeuvres carried out by the appliance, parameter setting and transmitter control management. The appliance is fitted with a safe and secure manual release system with a personalised knob (supplied with the appliance).



FASTENING BASE SL524
SPARE PARTS ORDER NR. 999423

ELECTROMECHANICAL UNIT WITHOUT A BATTERY CHARGER AND BATTERIES

100/SL524



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

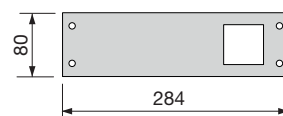
101/SL4024M9

**MAXIMUM WEIGHT 400 kg - (PINION H100)
WITH MECHANICAL TRAVEL LIMITS.**

The automation is made up of an electromechanical unit 100/SL4024M9 with an in-built:

- electronic programmer
- 433 MHz "FM" receiver

The electronic controller features real time display of the programming stages. The function parameters are set by protected binary dip-switches directly on the ECU card. The appliance is fitted with a safe and secure manual release system with a personalised knob (supplied with the appliance). Appliance with mechanical travel limits not predisposed for battery powered operation.



FASTENING BASE SL4024M9
SPARE PARTS ORDER NR. 999423



PRODUCT DESCRIPTION

ORDER NR.

TOOTHED RACK

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

VERSION TO BE SOLDERED

106/SLOAC

2 m - 22 mm x 22 mm, M4.

VERSION WITH FASTENING SLITS

106/SLOAC2

1 m - 30 mm x 12 mm, M4.



TOOTHED RACK

in nylon reinforced with glass fibre
with a steel core for sliding gates.

VERSION WITH UPPER FASTENING SLITS

106/CRENY

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

VERSION WITH LOWER FASTENING SLITS

106/CRENY1

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



SPEED CONTROLLER FOR SLIDING GATES

106/RVS

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



KIT BATTERY CHARGER + NiMH BATTERIES

KBNIMH-1

Allows the 100/SL524 unit to work during blackouts.





TECHNICAL DATA

GENERAL CHARACTERISTICS

		SLX324	SLX1524	SL524CB SL524	SL4024M9
Power supply	Vac	230	230	230	230
Frequency	Hz	50	50	50	50
Electrical input	A	1,1	0,9	0,75	0,6
Power input	W	250	200	170	120
Duty cycle	%	70	70	70	70
Drag speed	m/min	8	9,3	9,2	8,5
Torque max.	Nm	90	74	42	32
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 input	W	160	130	38	38
Electrical input	A	4,5	3,5	1,8	1,8

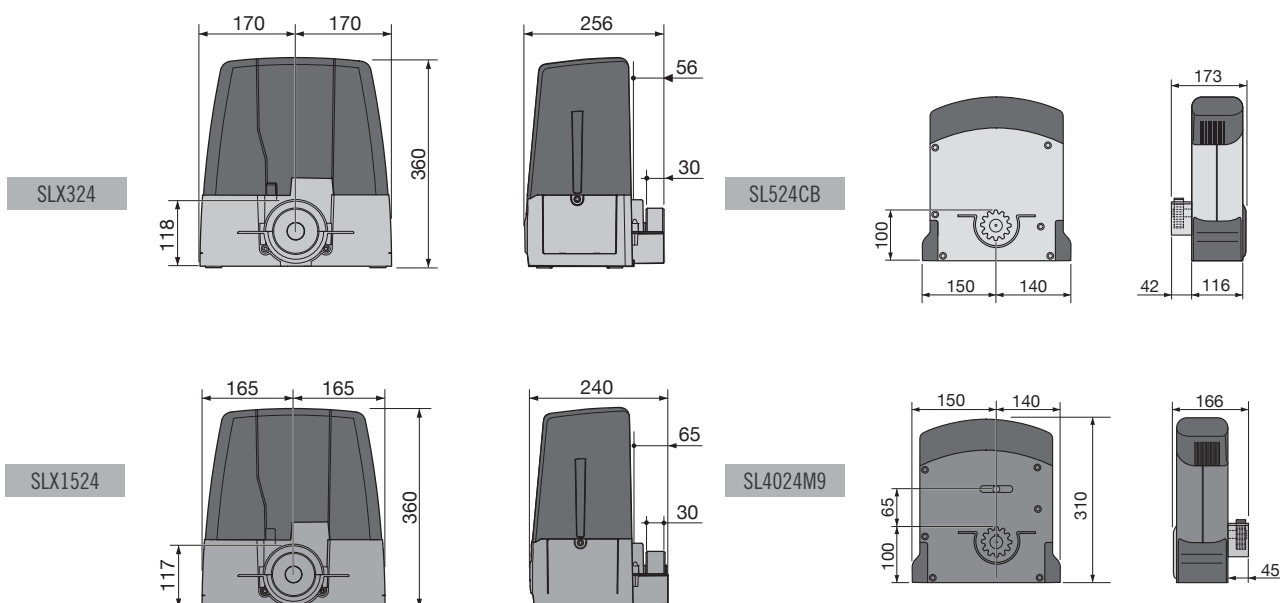
INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92 / 868,3	433.92
Number of channels	Nr.	4	4	4	4
Number of functions	Nr.	7	7	5	2
Number of stored codes	Nr.	300 / 1000	300 / 1000	300 / 1000	300

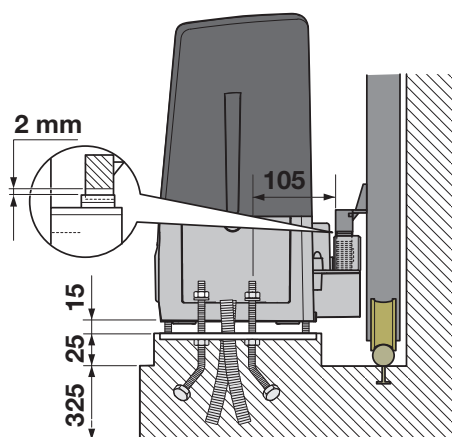
BATTERY TYPE

Model	NiMH	NiMH	NiMH	-
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OVERALL DIMENSIONS

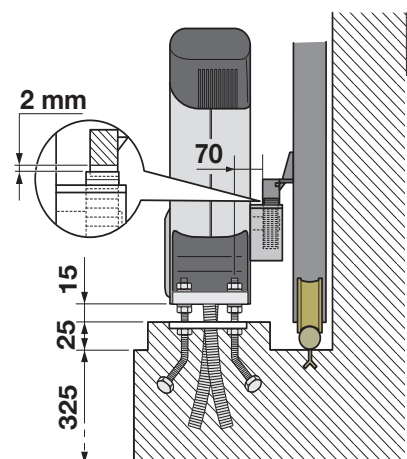


POSITIONING THE UNIT



SLX1524

SLX324



SL524CB

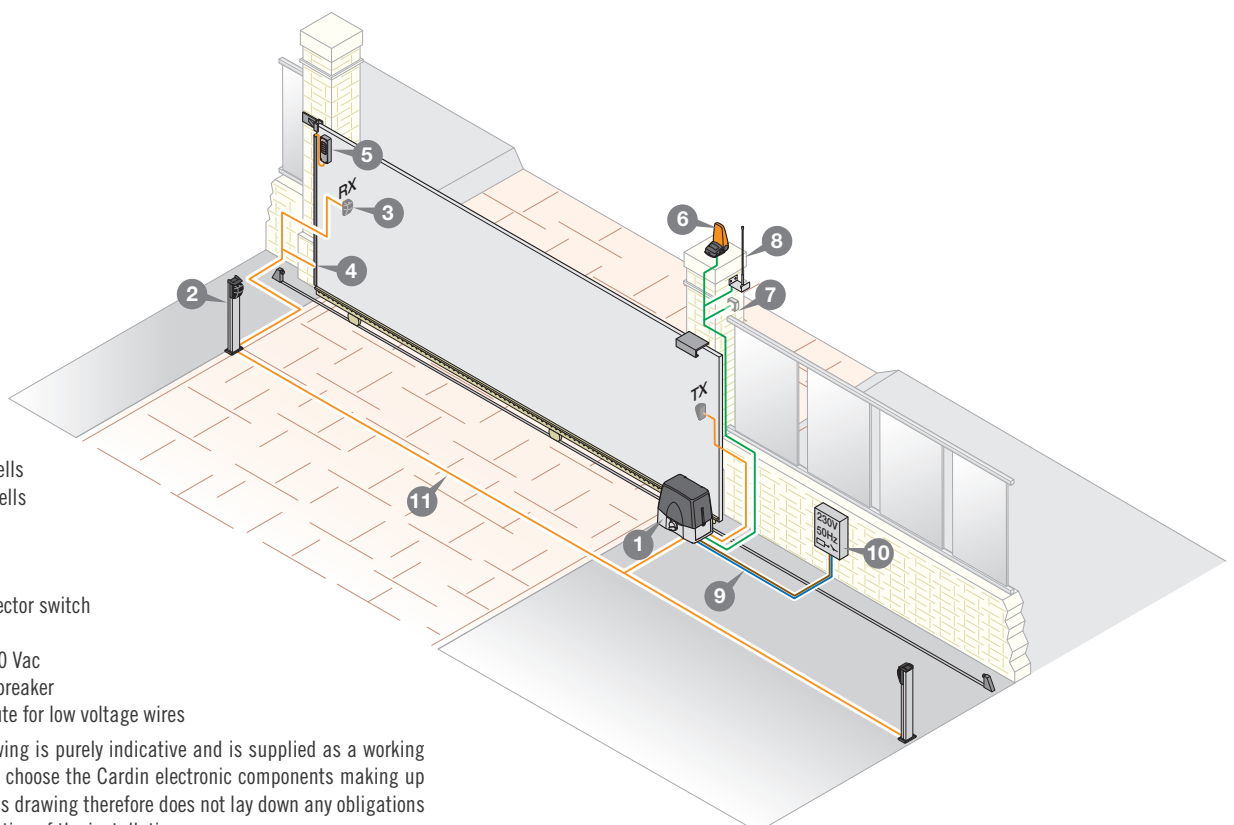
SL4024M9

INSTALLATION EXAMPLE

LEGEND

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

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AUTOMATION FOR COUNTERBALANCED GARAGE DOORS

Motor power supply:

- 24 Vdc models
- 230 Vac models

Maximum height of garage door 2,7 m

Master automation with an integrated electronic control unit

CARDIN SERIES GL

Is a next generation, complete automatic device suitable for moving spring-loaded and counterbalanced garage doors. A line that is rigorous in form, compact and solid makes this product a versatile machine that may be used safely and efficiently on all types of overhead 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. The low voltage powered motor (Cardin project) guarantees high efficiency and reliability throughout time. All the various components that make up the automatic 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.

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.

For the model GL20 door positioning control is carried out by mechanical travel limits.



MANUAL RELEASE MECHANISM
GLB249



REMOTE RELEASE RIGHT/LEFT



PROGRAMMER PROTECTION



SELF-PROGRAMMING



OPTIONAL NiMH BATTERIES

PRODUCT DESCRIPTION

ORDER NR.

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

Controlled by encoder.
Encoder controlled integral "master" unit
fitted with an electronic programmer.
Operator arm to be ordered separately.
Kit battery charger + batteries to be ordered separately

SELF-LOCKING MASTER AUTOMATION (433 MHz) 310/GLB249M

SELF-LOCKING MASTER AUTOMATION (868 MHz) 310/GLB248M



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

'Slave' unit that is used to integrate the unit 310/GLB249M/ 310/GLB248M
for particular installations that require two motors.
Operator arms are to be ordered separately

SELF-LOCKING SLAVE AUTOMATION 310/GLB249S

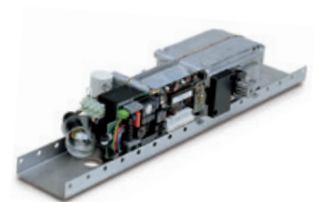


ELECTROMECHANICAL UNIT WITH A 230 Vac MOTOR

Self-locking automation with mechanical travel limits
'Master' unit with an incorporated electronic programmer.
Operator arms are to be ordered separately.

MASTER UNIT WITH RADIO FREQUENCY DECODER S449 - 433 MHz "FM" 310/GL20AP09

MASTER UNIT WITH RADIO FREQUENCY DECODER S486 - 868 MHz "FM" 310/GL20AP08



ELECTROMECHANICAL UNIT WITH A 230 Vac MOTOR

Self-locking automation with mechanical travel limit
'Slave'; unit that is used to integrate the unit 310/GL20AP08/09
for particular installations that require two motors.
Operator arms are to be ordered separately

SLAVE UNIT WITHOUT ON-BOARD ELECTRONICS 310/GL20A





PRODUCT DESCRIPTION	ORDER NR.	
AXLE SHAFTS		
PAIR OF AXLE SHAFTS FOR CENTRAL MOTOR POSITIONING 1500 mm	316/GL0TG	
PAIR OF AXLE SHAFTS FOR CENTRAL MOTOR POSITIONING 2200 mm	316/GL0TG20	
JOINTS		
JOINTS FOR LATERAL MOTOR POSITIONING	316/GL0CGL	
TELESCOPIC ARMS		
RIGHT CURVED TELESCOPIC ARM	316/GL03A	
LEFT CURVED TELESCOPIC ARM	316/GL04A	
STRAIGHT TELESCOPIC ARM 700 mm	316/GL02AD	
STRAIGHT TELESCOPIC ARM 700 mm (2 pieces)	316/GL02AD2	
STRAIGHT TELESCOPIC ARM 1000 mm	316/GL06A	
STRAIGHT TELESCOPIC ARM 1000 mm (2 pieces)	316/GL06A2	
SUPPORT BRACKET		
MOTOR SUPPORT EXTENSION BRACKET 2000 mm	316/GL0PS2	
MOTOR SUPPORT EXTENSION BRACKET 720 mm (ONLY GL20A)	316/GL0PS	
EXTERNAL RELEASE CORDS		
EXTERNAL RELEASE CORD 2000 mm (ONLY GLB249)	316/GL24SB	
EXTERNAL RELEASE CORD 2000 mm	316/GL20SB	
EXTERNAL RELEASE CORD 4000 mm	316/GL20SB4	
KIT BATTERY CHARGER + BATTERIES		
BATTERY CHARGER + NiMH BATTERIES FOR GLB249M	KBNIMH-2	
KIT CABLE GLANDS		
CABLE GLANDS Ø16 mm	316/GLB24PC	

TECHNICAL DATA

GENERAL CHARACTERISTICS

		GLB249M-8M (GLB249S)	GL20AP09/08 GL20A
Power supply	Vac	230Vac (24Vdc)	230
Frequency	Hz	50	50
Electrical input	A	0,5	1,6
Power input	W	100	350
Duty cycle	%	70	25
Geared motor speed	revs/min	1,7	1,7
Torque	Nm	170	290
Operating temperature range	°C	-20°...+55	-20°...+55
Protection grade	IP	54	20

MOTOR DATA

Motor power supply	Vdc	24Vdc	230Vac
Maximum power input	W	120	350
Electrical input	A	2	1,6

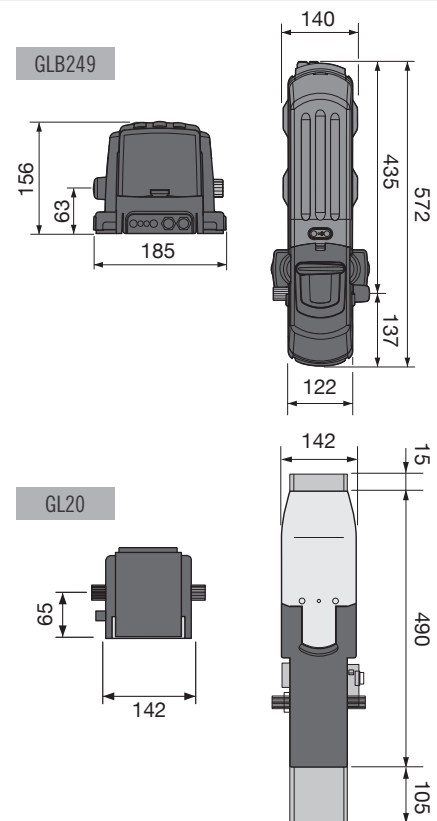
INCORPORATED RECEIVER CARD

		GLB249M-8M	GL20AP09/08
Reception frequency	MHz	433/868	433/868
Number of channels	Nr.	4	4
Number of functions	Nr.	2	2
Number of stored codes	Nr.	300	300

BATTERY TYPE

Model	NiMH	-
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OVERALL DIMENSIONS

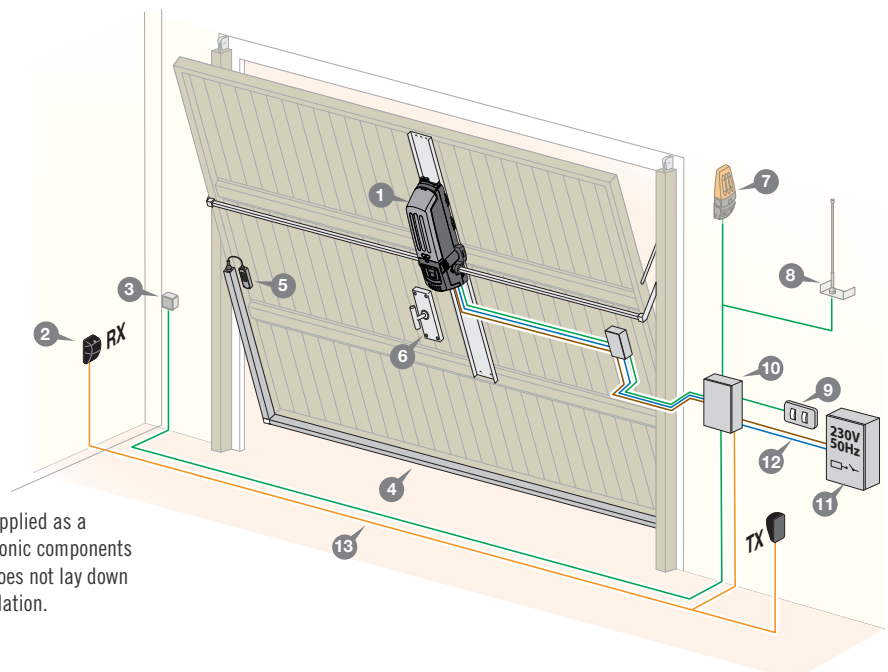


INSTALLATION EXAMPLE

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

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CHAIN GUIDED AUTOMATION FOR SECTIONAL DOORS

Motor power supply 24 Vdc

Maximum duty cycle 70%

Chain guide in aluminium

Maximum door height 5,7 m

Incorporated electronic programmer

CARDIN SERIES GL

The fruit of an innovative project 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 buffer 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. A well-ordered and functional wiring system connects the electronics card, along with its integrated battery charger and radio reception parts, to the toroidal transformer and the motor. 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.

The model GL124EBSS is also fitted with a battery charger and NiMH buffer batteries. In the same 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 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.

Models with mechanical travel limits are available.



COURTESY LIGHT



ALUMINIUM CHAIN GUIDE



INTEGRATED ELECTRONICS



DIP-SWITCH SETTING



SELF-PROGRAMMING

PRODUCT DESCRIPTION

ORDER NR.

SELF-PROGRAMMING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

311/GL124EBSS

Encoder controlled integral automation fitted with an electronic programmer, a 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 kΩ).
Chain guide to be ordered apart.



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

YPR124SCL00

Functions:

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



ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR

311/GL112409

Automation with mechanical travel limits

Integrated automation fitted with a microprocessor controlled programmer (complete with an S449 "FM" radio frequency decoder) featuring intelligent time control functions, which control the position of the gate with extreme precision. Monitoring the current consumption allows the control of a sophisticated anti-crush safety system and with the "soft start" and "soft stop" functions reduce the stress on the mechanical components

Thrust/drag chain guide to be ordered apart.



For sectional doors with a maximum height of 3 m.





PRODUCT DESCRIPTION	ORDER NR.	
CHAIN GUIDE FOR GL124		
3000 mm CHAIN GUIDE	320/GL124S30	
3500 mm CHAIN GUIDE	320/GL124S35	
4500 mm CHAIN GUIDE	320/GL124S45	
6000 mm CHAIN GUIDE	320/GL124S60	
ADAPTER		
316/GL1024AC		
Allows the chain guided automation to be used on counterbalanced garage doors.		
CHAIN GUIDE FOR GL1124		
320/GL1124S		
Kit for spring loaded/sectional doors with a 3150 mm carriage guide, curved lever and pair of drilled support blades.		
ADAPTER KIT + GUIDE FOR GL1124		
Adapter kit for counterbalanced garage doors.		
2100 mm carriage guide	320/GL1124B	
3150 mm carriage guide	320/GL1124BB	
EXTERNAL RELEASE CORD		
2000 mm EXTERNAL RELEASE CORD	316/GL20SB	
4000 mm EXTERNAL RELEASE CORD	316/GL20SB4	

SERIES GL

TECHNICAL DATA

GENERAL CHARACTERISTICS

		GL124	GL1124
Mains power supply	Vac	230	230
Frequency	Hz	50	50
Electrical input	A	0,9	1,28
Power input	W	190	170
Duty cycle	%	70	40
Drag speed	m/min	7	5,4
Max. travel distance	mm	5700	3000
Operating temperature range	°C	-20°...+55	-20°...+55
Protection grade	IP	40	40

MOTOR DATA

Motor power supply	Vdc	24	24
Maximum power input	W	130	110
Electrical input	A	3	3

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92	433.92
Number of channels	Nr.	4	4
Number of functions	Nr.	2	1
Number of stored codes	Nr.	300	300

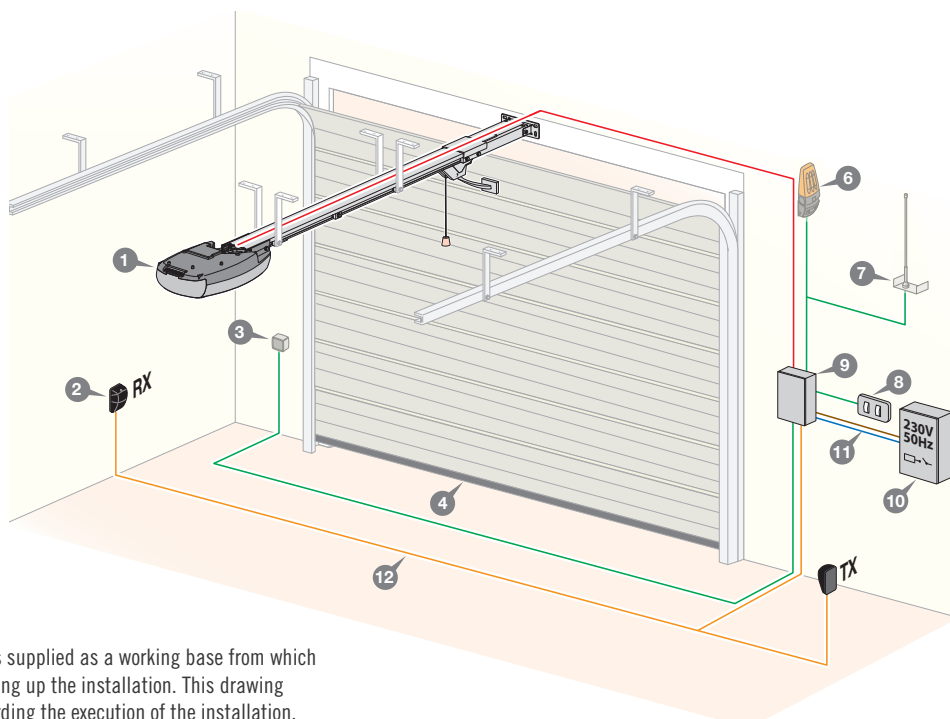
BATTERY TYPE

Model	NiMH	-
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INSTALLATION EXAMPLE

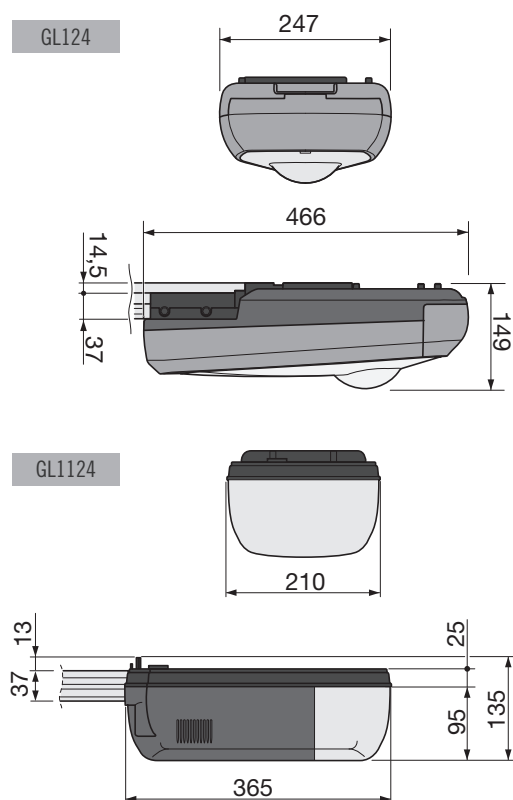
LEGEND

- 1 Geared motor + integrated 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



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OVERALL DIMENSIONS





SELF-POWERED ELECTROMECHANICAL PARKING SPACE PROTECTION

Motor power supply 12 Vdc

Opening / closing time 8 sec

Solar panel (Parksun version)

Built-in S504 receiver "433 MHz" "FM" "ROLLING CODE"

CARDIN 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.

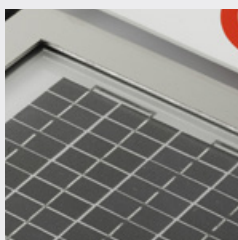
Both models are powered by heavy duty, long-life buffer batteries. The PARKSUN model does not require connection to external power sources as the batteries are recharged by an in-built solar panel, while the PARKLINE model requires an external battery charger powered by the mains. The control panel has 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

SERIES PL

PARKING SPACE PROTECTION WITH A 12 Vdc MOTOR

600/PARKSUN

The automation system consists of the 600/PARKSUN parking space saver plus:

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

The parking space saver, 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.



PARKING SPACE PROTECTION WITH A 12 Vdc MOTOR

600/PARKLINE

The automation system consists of the 600/PARKLINE parking space saver plus:

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

Parking space saver 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.



TECHNICAL DATA

OVERALL DIMENSIONS

GENERAL CHARACTERISTICS

Power supply	Vdc
Battery power supply	Vdc
Electrical input	Ah
Solar panel power	W
Power consumption in standby	mA
Motor electrical input	A
Opening / closing time	s
Operating temperature range	°C
Protection grade	IP
Weight	Kg

PARKSUN

12
12
7
5
1
1
8
-20°...+55
54
23

PARKLINE

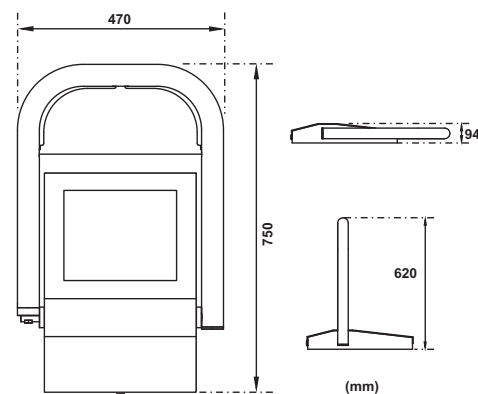
12
12
7
-
1
1
8
-20°...+55
54
23

INCORPORATED RECEIVER CARD (S504)

Reception frequency	MHz	433.92	433.92
Number of channels	Nr.	4	4
Number of functions	Nr.	1	1
Number of stored codes	Nr.	1000	1000

OVERALL DIMENSIONS

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





AUTOMATION FOR ROAD BARRIERS WITH 3, 4 AND 6 M BOOMS

Motor power supply:

- 24 Vdc models
- 230 Vac models

Duty cycle max. 90%

Anodized aluminium anticorrosion modular structure and spray-painted metal cabinet

Incorporated electronic programmer

CARDIN EL SERIES

Automatic devices characterised by high efficiency and complete performance that are impeccable in their movement and solidly built with a unique design make it a pleasure to look at them even when at rest. These automatic devices are suitable for 24V and 230V installations in all environments and its robust aluminium framework gives maximum protection against the elements.

The mechanical movement parts are fitted with a low voltage and 230V motors and are mounted on a robust chassis.

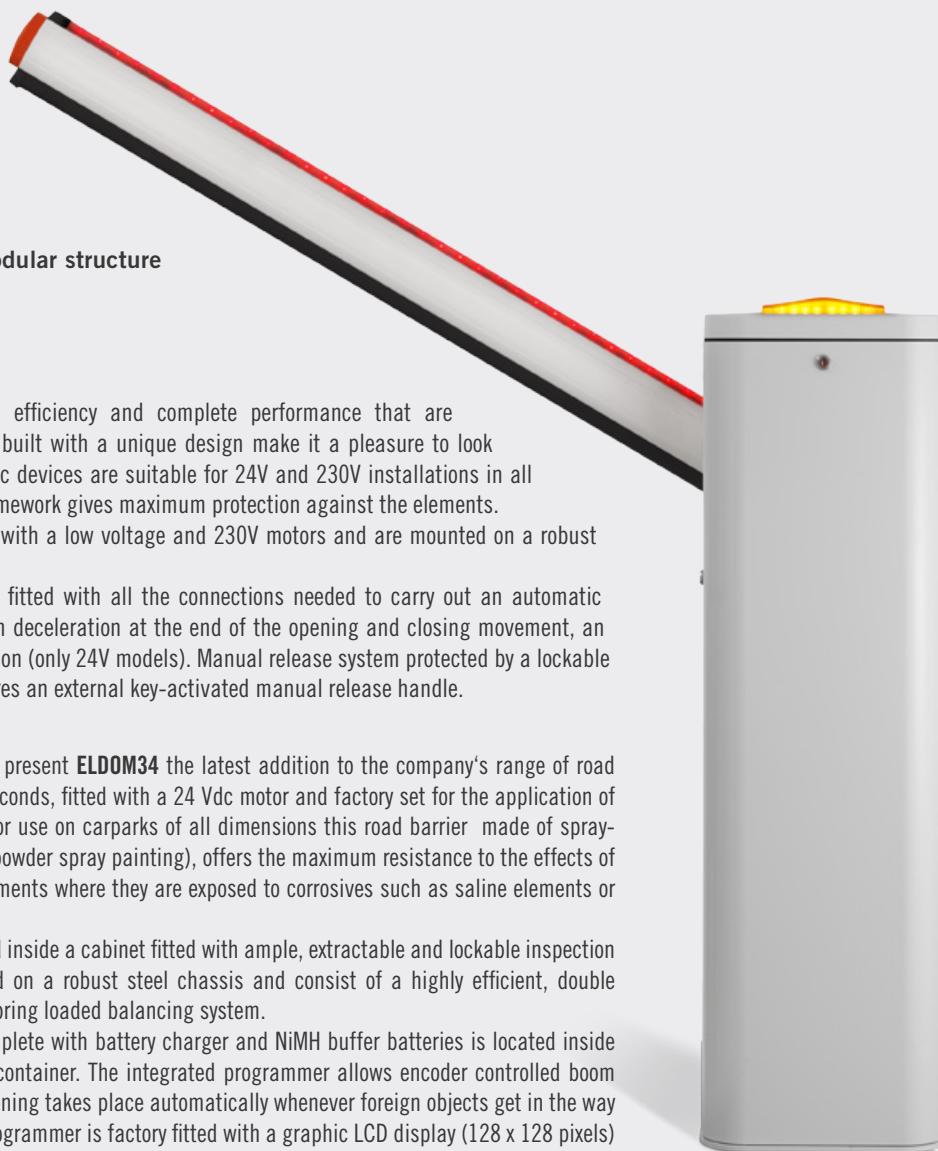
The incorporated electronic programmer is fitted with all the connections needed to carry out an automatic installation and comes complete with boom deceleration at the end of the opening and closing movement, an anti crush safety system and speed regulation (only 24V models). Manual release system protected by a lockable access door. The ELX3000 model also features an external key-activated manual release handle.

NEWS2016

Cardin is pleased to present **ELDOM34** the latest addition to the company's range of road barriers with opening times less than 3/4 seconds, fitted with a 24 Vdc motor and factory set for the application of 3 and 4 metre booms. 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.

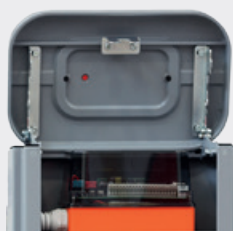
The in-built command and control unit, complete with battery charger and NiMH buffer batteries is located inside the cabinet and protected by a waterproof container. The integrated programmer allows encoder controlled boom positioning and self-programming. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. 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.



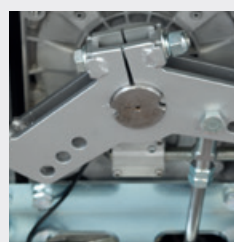
EXTERNAL MANUAL RELEASE HANDLE ELX3000



LED WARNING LIGHTS BUILT INTO THE HEAD OF ELX3000



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

SERIES EL

PRODUCT DESCRIPTION

ORDER NR.

SELF-PROGRAMMING ROAD BARRIER WITH A 24 Vdc MOTOR

Encoder-controlled movement.

Lockable barrier trunk complete with boom holder and LED warning lights built into the barrier's flip-back hood.

Automation with an in-built electronic programmer featuring an LCD graphics display, multi-decoding 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 spray-painted metal (cataphoresis passivation + powder spray painting) is available in two colours light Tele grey RAL7047 and dark Slate grey RAL7015

3 m and 4 m booms to be ordered apart.

AUTOMATION FOR 3/4 m BOOMS (LIGHT GREY CABINET)

710/ELDOM34LG

AUTOMATION FOR 3/4 m BOOMS (DARK GREY CABINET)

710/ELDOM34DG



Opening times:

- from 2 to 4 seconds adjustable with 3/4 metre booms.

GROUND FASTENING BASE PLATE

716/BASEDOM34

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.

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

716/D0M3

3 m BOOM with LEDs

716/D0M3L

4 m BOOM

716/D0M4

4 m BOOM with LEDs

716/D0M4L

SPRING FOR CUSTOM BOOMS (LENGTHS LESS THAN 3 m)

716/D0MSP2

ACCESSORY BOX

716/BOXDOM

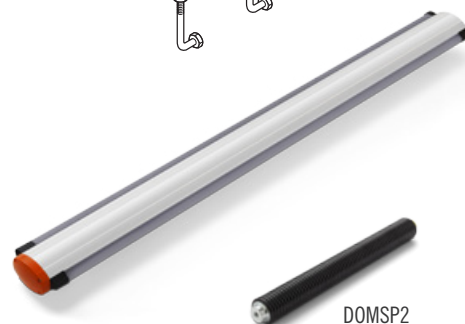
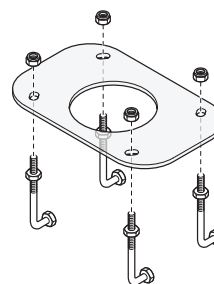
Accessory box with DIN rails and fastening plates



Slate grey RAL7015



Tele grey RAL7047



DOMSP2





PRODUCT DESCRIPTION

ORDER NR.

SELF-PROGRAMMING ROAD BARRIER WITH A 24 Vdc MOTOR

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 kΩ).

3-metre long boom with a diameter of Ø60 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.

AUTOMATION FOR 3 m BOOMS**710/ELX3000**

Opening time:

- 5 seconds with a three metre-boom.

KIT BATTERY CHARGER + NiMH BATTERIES**KBNIMH-1**

Allows the ELX3000 barrier to work during blackouts.

ROAD BARRIER AUTOMATION WITH A 230 Vac MOTOR

and mechanical travel limits.

Automation complete with warning lights and an on-board programmer with automatic, semiautomatic and manual functions. The programmer is factory set for the insertion of a Cardin standard receiver card and is fitted with all the connections needed to carry out an automatic installation.

3 m, 4 m and 6 m booms to be ordered apart.

AUTOMATION FOR 3 m BOOMS**710/EL313C****AUTOMATION FOR 4 m BOOMS****710/EL413C****AUTOMATION FOR 6 m BOOMS****710/EL613**

Opening times:

- 2 seconds with a three-metre boom;
- 4 seconds with a four-metre boom;
- 10 seconds with a six-metre boom.

BOOM LIGHT INTERFACE

The interface allows led lighting to be used on the 3 and 4 metre booms.

Electronic circuit with binding post connections in an outdoor box IP65.

Power supply 24 Vac-dc

Double flash mode: when the boom is moving - when the boom is at rest.

Overall dimensions 109 x 110 x 40

BOOM LIGHT INTERFACE**SELINTLED**

PRODUCT DESCRIPTION	ORDER NR.
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BOOMS

Ø60 mm - 3 m BOOM	716/ELX3000A
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in spray-painted extruded aluminium for ELX3000, complete with boom holder.

Ø60 mm - 3 m MODULAR BOOM DIVIDED IN THREE 1-METRE PIECES	716/ELX3000A3
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in spray-painted extruded aluminium for ELX3000, complete with boom holder.

Ø60 mm - 3 m BOOM	716/ELX3000AT
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in spray-painted extruded aluminium for ELX3000, without boom holder.

Ø60 mm - 3 m MODULAR BOOM DIVIDED IN THREE 1-METRE PIECES	716/ELX3000AT3
--	-----------------------

in spray-painted extruded aluminium for ELX3000, without boom holder.

EXTRUDED ALUMINIUM BOOM

for EL313C, EL413C and EL613 complete with a rubber profile.

3 m BOOM	716/EL320
-----------------	------------------

4 m BOOM	716/EL420
-----------------	------------------

6 m BOOM FOR EL613	716/EL601
---------------------------	------------------

EXTRUDED ALUMINIUM BOOM

for EL313C and EL413C complete with boom lights and rubber profile. A highly efficient LED light flashing system has been incorporated into the upper part (requires SELINTLED).

3 m BOOM	716/EL324K2
-----------------	--------------------

4 m BOOM	716/EL424K2
-----------------	--------------------

ARTICULATED BOOM

for EL313C, EL413C, complete with a rubber profile. A special device inside the boom allows it to fold backwards when the boom is opening.

3 m ARTICULATED BOOM	716/EL324ASK2
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BOOM HOLDERS

FIXED ALUMINIUM SUPPORT FORK FOR ELDOM / SERIES 230V - H 910	716/ELUFS1
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FIXED ALUMINIUM SUPPORT FORK FOR ELX3000	716/ELXAF
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MOBILE SUPPORT POLE 1200 mm	716/ELUMS1
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FOLD-UP MESH IN ANODISED ALUMINIUM

Available in lengths of 2 m.

FOLD-UP MESH FOR 716/EL601	716/ELSA
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FOLD-UP MESH FOR 716/EL420	716/ELSA4
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FOLD-UP MESH FOR ELDOM	716/ELSA DOM
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ELUFS1



ELXAF



ELUMS1





PRODUCT DESCRIPTION

ORDER NR.

ACCESSORIES

WARNING LIGHTS

716/ELLAMP

The kit contains 2 transparent yellow polycarbonate lamp covers, 1 light/programmer interface card and 2 bulbs E14 - 230 Vac - 40 W.



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

716/ELREF3

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

716/ELREF4



ADHESIVE REFLECTIVE TAPE

716/ELSRE

Supplied in lots of 12 pieces.

Dimensions 250 x 45



TECHNICAL DATA

GENERAL CHARACTERISTICS

		ELDOM34 (3m)	ELDOM34 (4m)	ELX3000
Mains power supply	Vac	230	230	230
Electrical input	A	0,9	0,9	1
Power input	W	250	250	220
Duty cycle	%	90	90	70
Geared motor speed	revs/min	6	6	3,2
Opening time (90°)	s	3 ÷ 4	3 ÷ 4	6
Passageway opening time (75°)	s	2	2	5
Torque max.	Nm	180	180	80
Operating temperature range	°C	-20... +55	-20... +55	-20... +55
Protection grade	IP	54	54	54

MOTOR DATA

Motor power supply	Vdc	24	24	24
Power input	W	120	120	60
Electrical input	A	3	3	1,5

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868,3	433.92 / 868,3	433.92
Number of user codes	Nr.	300 / 1000	300 / 1000	300
Number of channels	Nr.	4	4	4
Number of functions	Nr.	6	6	5

BATTERY TYPE

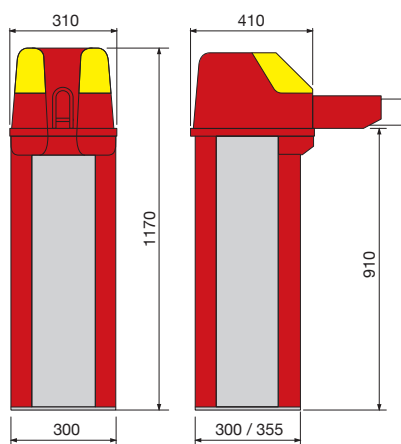
Model	NiMH	NiMH	NiMH
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GENERAL CHARACTERISTICS

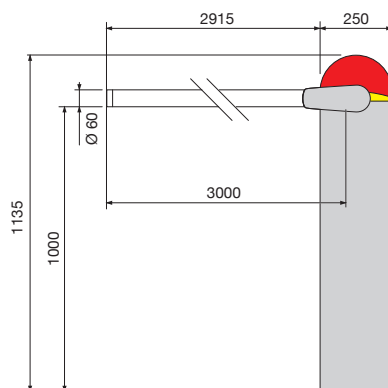
		710/EL313C	710/EL413C	710/EL613
Power supply	V	230	230	230
Frequency	Hz	50	50	50
Electrical input	A	2,7	2,7	2,7
Power input	W	600	600	600
Duty cycle	%	70	70	70
Torque max.	Nm	110	200	400
Geared motor speed	revs/min	10	5,5	2
Opening time (90°)	s	2,5	4,5	11
Passageway opening time (75°)	s	2	3,5	9
Capacitor	µF	20	20	20
Protection grade	IP	54	54	54
Maximum boom length	m	3	4	6

OVERALL DIMENSIONS

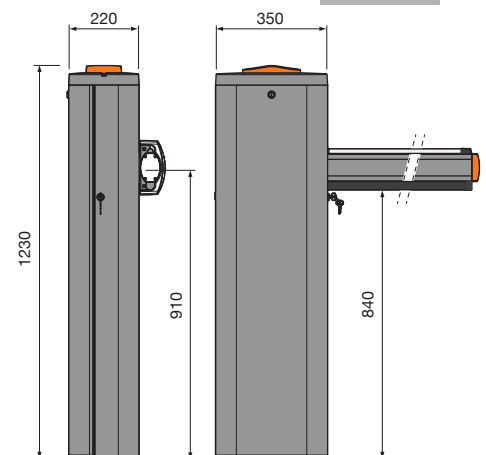
EL313C - EL413C - EL613



ELX3000



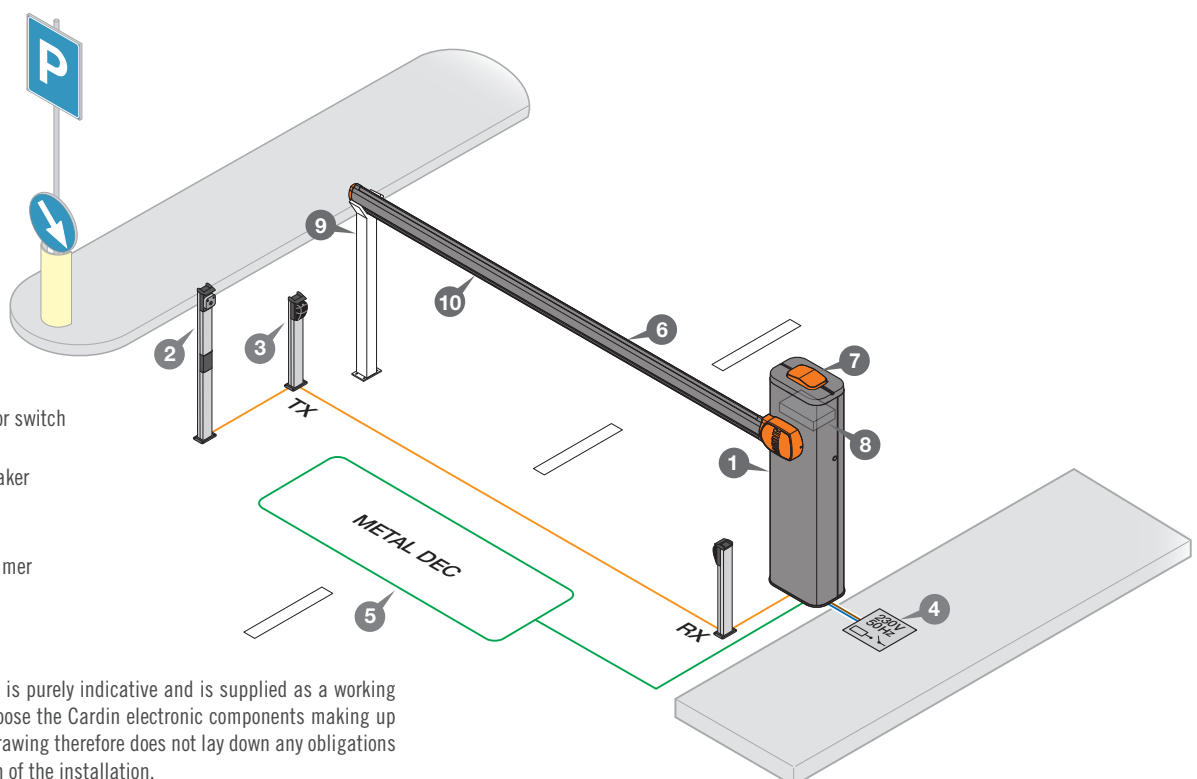
ELDOM34



INSTALLATION EXAMPLE

LEGEND

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



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.



COMPLIMENTARY EQUIPMENT

KEY OPERATED SELECTOR SWITCH
MODULAR COLUMNS
WARNING SIGNS
ELECTRIC LOCKING DEVICES

CARDIN SERIES SEL

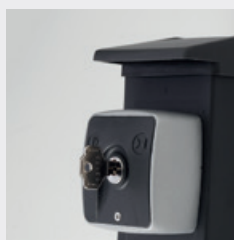
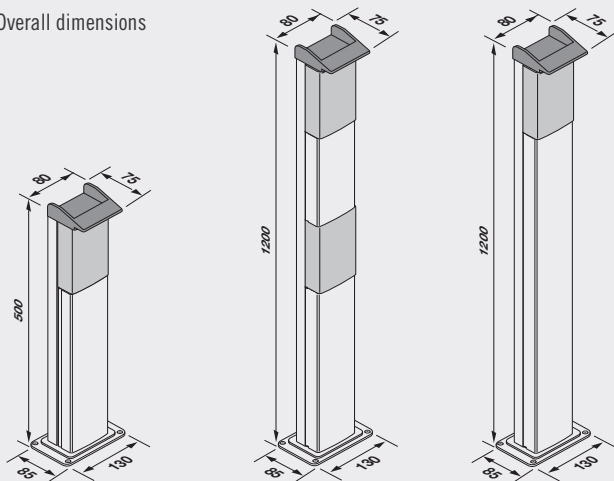
A correctly installed system guarantees safety and reliability. The installation must be carried out in conformity with the local standards and regulations in force and it therefore follows that all the components which make up the installation must be of high quality and also conform to these requirements. 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 aesthetical 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.

Overall dimensions



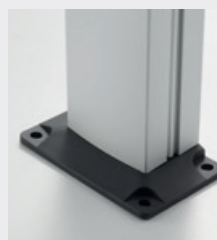
SELMEC/E1 MOUNTED ON A
 SELCT01 COLUMN



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

PRODUCT DESCRIPTION

ORDER NR.

INTERNATIONAL WARNING SIGN

/17000010

It is good practise to fit warning signs to your automatic installations and these should be placed where they can be easily seen by the public, in the area of the system of automatic operation. One inside the property and one on the public side of the installation.

KEY OPERATED SELECTOR SWITCH

SELMEC/E1

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

TECHNICAL DATA

Maximum voltage 30 Vac-dc.
Maximum current 100 mA.
Open-close functions.
Overall dimensions 35 x 70 x 70

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 in the most manageable positions within an automatic installation. Easy to install and weather resistant. The aluminium sectional structure of the columns makes them easy to reinstate after accidental knocks and bangs.

500 mm COLUMN

SELCT01

for 1 surface-mounted or embedded photoelectric cell.

1200 mm COLUMN

SELCL01

for 2 surface-mounted or embedded photoelectric cells.

1200 mm COLUMN

SELCLS1

for a selector switch or keypad.

METAL FASTENING BASE

XACF1R

Fastening base for columns SELCT01, SELCL01 and SELCLS1.

ELECTRIC LOCK 12 Vac (complete with accessories) for the series BL - HL)

ELECTRIC LOCKING DEVICE RIGHT

980/XLSE10DX

with internal/external cylinder.

ELECTRIC LOCKING DEVICE LEFT

980/XLSE10SX

with internal/external cylinder.

VERTICAL ELECTRIC LOCKING DEVICE

980/XLSE11

only external cylinder.

VERTICAL ELECTRIC LOCKING DEVICE

980/XLSE11C

with internal/external cylinder.

LATCH PLATE FOR XLSE10DX

980/XLSE10BB

LATCH PLATE FOR XLSE10SX

980/XLSE10BBS

GROUND EMBEDDING PLATE FOR XLSE11

980/XLSE11V

RAIN PROTECTION COVER FOR XLSE11

980/XLSE11TT

HORIZONTAL PROTECTION COVER FOR XLSE10DX

980/XLSE10TT

HORIZONTAL PROTECTION COVER FOR XLSE10SX

980/XLSE10TTS

ELECTRIC LOCK 12 Vac

980/XLSE12

rotating locking system without cylinder (European profile).





AUXILIARY AND SAFETY DEVICES FOR SWING-TO GATES, SLIDING GATES AND OVERHEAD GARAGE DOORS

MECHANICAL SAFETY EDGE N.C. CONTACT

SAFETY EDGE FOR GARAGE DOORS N.C. CONTACT

LOW / HIGH PROFILE PASSIVE EDGE

CONDUCTIVE SAFETY EDGE 8,2 KΩ CONTACT

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 / hinged 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 KΩ 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.

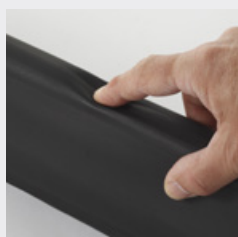
MECHANICAL / CONDUCTIVE
SAFETY EDGE



SAFETY EDGE FOR GARAGE DOORS
N.C. CONTACT



TOTAL PROTECTION



HIGH PROFILE PASSIVE EDGE



LOW PROFILE PASSIVE EDGE



CONDUCTIVE SAFETY EDGE
8,2 KΩ CONTACT

PRODUCT DESCRIPTION

ORDER NR.

MECHANICAL AUXILIARY DEVICES FOR SWING-TO / SLIDING GATES

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

1.6-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 61 mm)	950/NC8K2L16N
2-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 61 mm)	950/NC8K2L20N
2.5-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 61 mm)	950/NC8K2L25N
3-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 61 mm)	950/NC8K2L30N

MECHANICAL AUXILIARY DEVICES FOR OVERHEAD GARAGE DOORS

Profile low 26 mm - contact output N.C. - colour black

0.7-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 26 mm)	950/BBASL07N
1-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 26 mm)	950/BBASL10N
1.2-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 26 mm)	950/BBASL12N
1.8-METER MECHANICAL EDGE CONTACT N.C. (PROFILE 26 mm)	950/BBASL18N
GARAGE DOOR EDGE RIGHT/LEFT END CAPS	950/BBASDSTAP
GARAGE DOOR EDGE RIGHT/LEFT CORNER PIECES	950/BBASDSANG

PASSIVE AUXILIARY DEVICES FOR SWING-TO AND SLIDING GATES

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

1.5-METER PASSIVE IMPACT EDGE (PROFILE 70 mm)	950/BP15BL
1.7-METER PASSIVE IMPACT EDGE (PROFILE 70 mm)	950/BP17BL
2-METER PASSIVE IMPACT EDGE (PROFILE 70 mm)	950/BP20BL
3-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)	950/CPS30BL
4-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)	950/CPS40BL
5-METER PASSIVE IMPACT EDGE (PROFILE 30 mm)	950/CPS50BL

SAFETY DEVICES 8,2 KΩ FOR SWING-TO AND SLIDING GATES

Profile high 95 mm / low 52 mm - contact 8,2 KΩ with maximum detection speed 12 m/min - colour black

1.6-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)	950/BSH95L16
2-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)	950/BSH95L20
2.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 95 mm)	950/BSH95L25
1.5-METER CONDUCTIVE SAFETY EDGE (PROFILE 52 mm)	950/B1NC15BL
1.7-METER CONDUCTIVE SAFETY EDGE (PROFILE 52 mm)	950/B1NC17BL
2-METER CONDUCTIVE SAFETY EDGE (PROFILE 52 mm)	950/B1NC20BL
3-METER CONDUCTIVE SAFETY EDGE (PROFILE 52 mm)	950/B1NC30BL



ELECTRONICS



RADIO CONTROLS PAGES 70-99

THE IDEAL SYSTEM TO COMMAND AND CONTROL AUTOMATIC ACCESS SYSTEMS. EXTREMELY EFFICIENT, HIGH QUALITY DEVICES DESIGNED NOT TO DISTURB AND NOT TO BE DISTURBED.



INDUSTRIAL RADIO CONTROLS PAGES 100-101

HIGH-POWERED RADIO CONTROLS SUITED FOR THE INDUSTRIAL SECTOR IDEAL FOR THE COMMAND OF GENERIC SYSTEMS THAT REQUIRE REMOTE CONTROL.



CONTROL VIA CABLE PAGES 102-103

AN IDEAL SYSTEM FOR THE COMMAND AND CONTROL OF ACCESS SYSTEMS FROM A FIXED POSITION USING SECRET CODES.



ELECTRONIC PROGRAMMERS PAGES 104-109

THE IDEAL CONTROL DEVICES FOR EFFICIENT MACHINES, EASY TO PROGRAM AND FITTED WITH THE CORRECT ANSWER FOR ALL POSSIBLE SITUATIONS.



INFRARED BARRIERS PAGES 110-119

ALWAYS READY IN ALL SITUATIONS, DISCREET CONTROL DEVICES THAT INCREASE SAFETY.



WIRELESS SAFETY DEVICES RADIOSHIELD PAGES 120-121

SENSITIVE, RELIABLE IN TRANSMISSION AND RAPID IN ACTIVATION.



WARNING LIGHTS PAGES 122-124

THE EFFICIENT SIGNAL. DISTINGUISHABLE IN ALL SITUATIONS EVEN WHEN THEY ARE SWITCHED OFF.



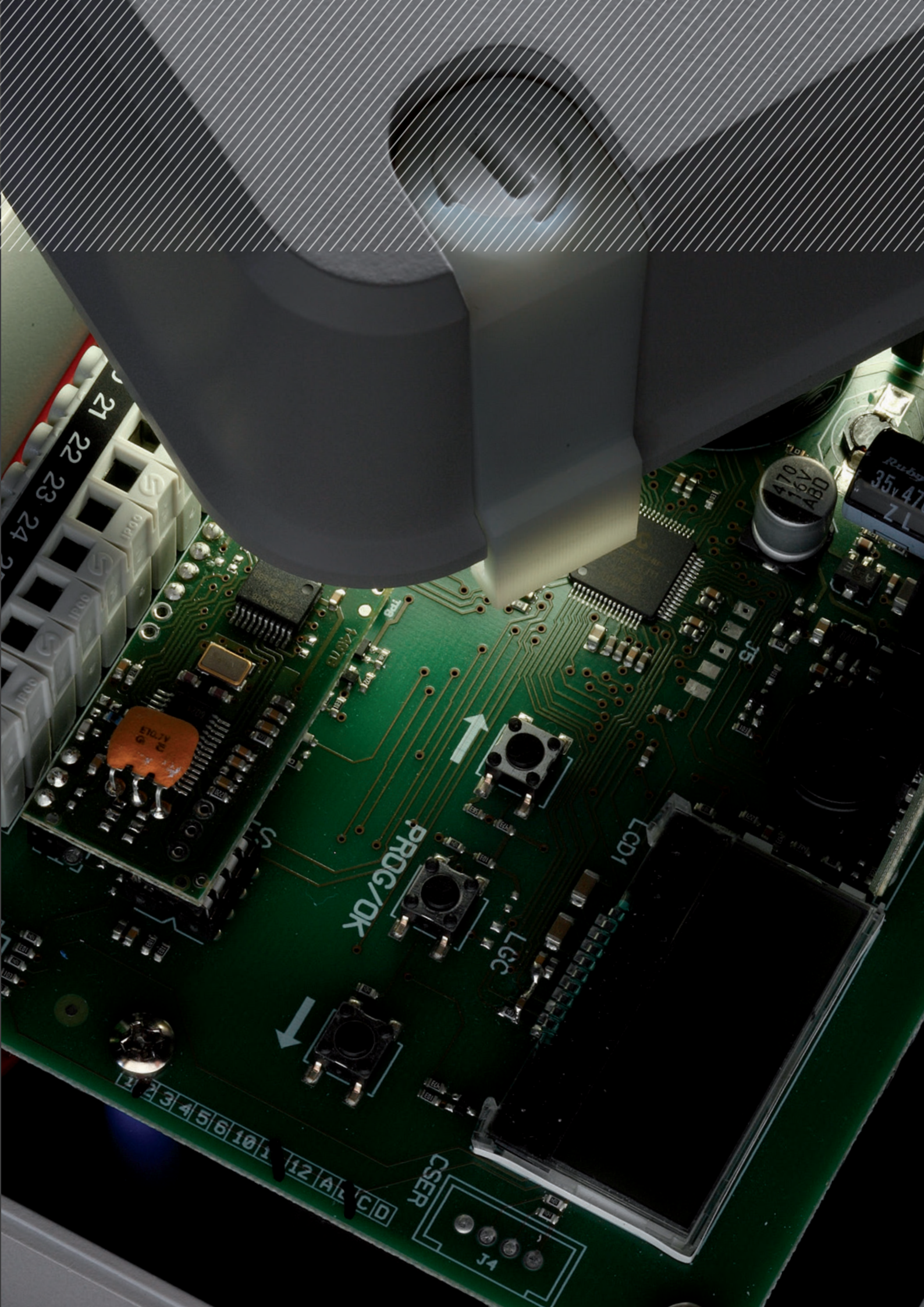
ELECTRONIC DETECTION PAGES 125

DEVICE FOR DETECTING THE PRESENCE OF METALLIC MASSES IN A MAGNETIC FIELD GENERATED BY A SPECIAL EXTERNAL CIRCUIT (SENSITIVE COIL) CONNECTED TO IT.



ACCESSORIES PAGES 126-127

NO COMPONENTS WITHIN THE SYSTEM SHOULD EVER BE UNDERESTIMATED, SAFETY IS IGNORANT TO DETAILS, EVERYTHING MUST ALWAYS BE UP TO STANDARD. ORIGINAL CARDIN ELECTRONIC APPLIANCES, THE SAME NAME AND THE SAME RELIABILITY.





DIGITAL RADIO CONTROL TRANSCIVER WITH ROLLING CODES

(WITH SIGNAL RECEPTION CONFIRMATION)

433 MHz "FM" "ROLLING CODE"

2^{128} CODE COMBINATIONS

RECHARGEABLE Li-Poly BATTERY

AERIAL ANS400

MORPH433T4A

AVAILABLE CHANNELS 1-4

RANGE 100 - 200 m

MOBILE TRANSCIVER + 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.



OPERATION INDICATOR



BATTERY CHARGER CONNECTION



AERIAL RANGE 700 m



BATTERY CHARGE STATUS LED



BATTERY CHARGER VIA USB

PRODUCT DESCRIPTION

ORDER NR.

MOBILE TRANSCIVER

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 TRANSCIVER

MORPH433T1

2-CHANNEL MOBILE TRANSCIVER

MORPH433T2

3-CHANNEL MOBILE TRANSCIVER

MORPH433T3

4-CHANNEL MOBILE TRANSCIVER

MORPH433T4

4-CHANNEL MOBILE TRANSCIVER + AERIAL

MORPH433T4A



BATTERY CHARGER KEY

MORPHKEY

The battery can be recharged by connecting the transmitter to a suitable power pack by means of the battery charger key or to a PC via USB.

The key also allows the different functions available in the mobile units to be managed via PC through the use of the software MORPHKEYSW, which can be downloaded free of charge from the website web www.cardin.it.

KIT BATTERY CHARGER + BATTERIES

MORPHKEYCB

The charger kit consists of:

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



KEYPAD COVERS

10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX200

10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX400





DIGITAL RADIO CONTROL TRANSCIVER WITH ROLLING CODES

(WITH SIGNAL RECEPTION CONFIRMATION)

STATIONARY TRANSCIVER

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 TRANSCIVER 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

All weather box in
ABS - IP44

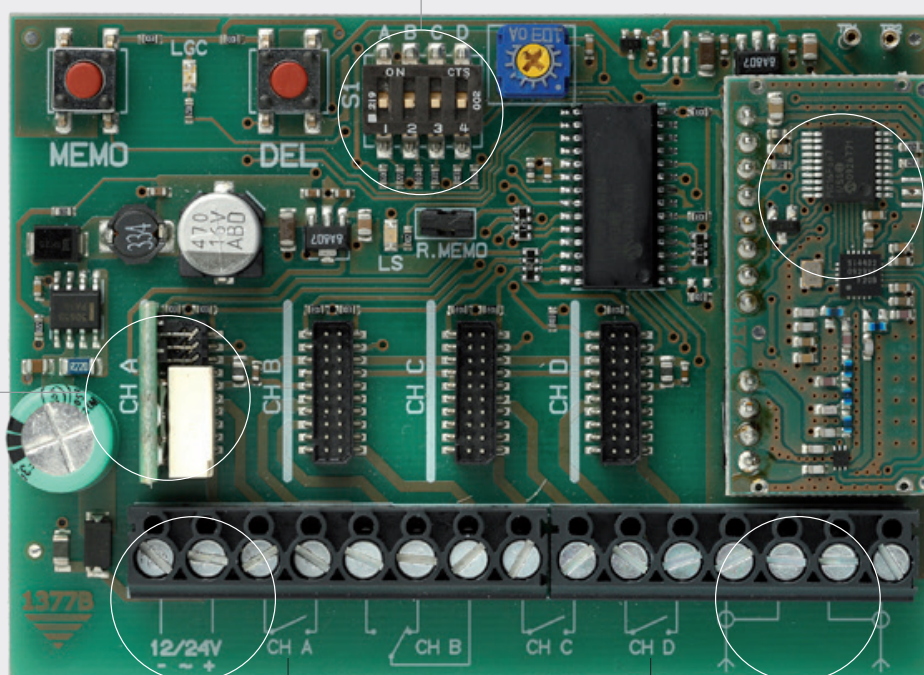
Overall dimensions 110 x 110 x 33



Relay module

Impulsive/ON-OFF selection

433 MHz, FM RF module



Power supply 12/24 Vac/dc

4 outputs with impulsive/ON-OFF selection

Connection for two aerials ANS400

PRODUCT DESCRIPTION

ORDER NR.

OUTDOOR STATIONARY TRANSCEIVER (12/24 Vac-dc)

MORPH433RC

All weather box in ABS - IP44
4-channel transceiver with ON/OFF-impulsive relay settings
1 relay inserted.
Possibility of memorising up to 1000 codes.
Overall dimensions 110 x 110 x 33



OUTDOOR STATIONARY TRANSCEIVER WITH SIGNAL INPUTS (12/24 Vac-dc) MORPH433AL

All weather box in ABS - IP44
The transceiver unit is fitted with four soldered relays
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.
Possibility of memorising up to 1000 codes.
Overall dimensions 110 x 110 x 33



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

MORPH433RM

Electronic circuit with a 10-way terminal block; Indoor box IP20.
ON/OFF-impulsive relay settings.
Possibility of memorising up to 1000 codes.
Overall dimensions 95 x 75 x 25



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

MORPH433RS

Transceiver card for direct insertion into a host appliance designed to receive it.
ON/OFF-impulsive relay settings.
Possibility of memorising up to 1000 codes.
Overall dimensions 70 x 52 x 20



RF MODULE FOR STATIONARY TRANSCEIVERS 433 MHz

JRFMORPH43300

Superheterodyne in FM with a digital filter.
RF module without decoder suitable for receiving and transmitting digital signals.
Voltage: 3 Vdc - Electrical input: 15 mA
Overall dimensions 40 x 20 x 13



MULTIPROTOCOL INTERFACE

MORPH433W00

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.

TECHNICAL DATA

Carrier frequency	433,92 MHz
Power supply	12/24 Vac-dc
Electrical input	20 mA
Overall dimensions	120 x 85 x 20 mm





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

433 MHz "FM" "ROLLING CODE"

2^{128} CODE COMBINATIONS

REMOTE TRANSMITTER MEMORISATION

RFID: MEMORIA WIRELESS

AERIAL ANS400

AVAILABLE CHANNELS 1-4

RANGE 100 - 150 m

MORE THAN 4 BILLION PRE-CODED TRANSMITTER CODES

An extremely secure state-of-the-art radio control system with 128 bit cryptography. The system has gathered together a series of specific appliances under a single working protocol aimed at the remote control of automatic and security installations. Solutions for all possible uses: control of automatic installations for gates and doors, the command and control of automatic rolling shutters and sun blinds, the activation of alarm and access control systems as well as the activation of all ON-OFF or timer-controlled systems. Adopting the S504 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 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.

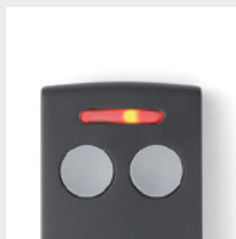
Quartz receivers with the possibility of memorising up to 1000 user codes

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



REMOTE ENABLING USING A
TRANSMITTER ALREADY MEMORI-
SED 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 NR.

TRANSMITTERS

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

2-CHANNEL PRECODED TRANSMITTER

TXQ504C2

4-CHANNEL PRECODED TRANSMITTER

TXQ504C4

KEYPAD COVERS / TRANSMITTER ACCESSORIES

5 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX5002

5 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX5004

TRANSMITTER WALL / CAR SUPPORT

XACSUPTX500

PROGRAMMING BASE

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.

CODE AND MEMORY PROGRAMMING BASE VIA USB

PGBASE500

NUMERICAL CODE KEYPAD VIA RADIO

SSB-504

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 1000 user codes.
Manages up to 4 distinct functions and communicates with all S504 standard receivers.
Overall dimensions 74 x 130 x 20

3V LITHIUM BATTERY PACK (SSB-504)

ZRA3.0-3.8-W



FUNCTIONALITY DRESSES SIMPLY

TECHNICAL DATA

FREQUENCY: 433 MHz
RANGE: 100 - 150 M
PROTOCOL: 128 BIT
RFID: WIRELESS MEMORY
BATTERY: LITHIUM 3V (1 X CR2032)
FUNCTIONS: 2/4 CHANNELS



KEY BLOCK

WHEN SELECTED THE KEY BLOCK FUNCTION PROTECTS THE APPLIANCE FROM ANY ACCIDENTAL ACTIVATION.

REMOTE MEMORISATION

THE TRANSMITTERS 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.

PRE-CODED

THE TRANSMITTER IS PRE-CODED IN THE FACTORY WITH A UNIQUE IDENTIFICATION NUMBER PRINTED ON THE REAR SO AS TO ALLOW MEMORISATION IN LOTS ON THE RECEIVER.



NETWORK CONNECTIVITY

THE S504 RANGE INTERACTS WITH AN EVOLVED SYSTEM CONSISTING OF A CARDIN SERVER DEDICATED TO THE 3G/WF CONNECTION BY MEANS OF APPLIANCES AND SOFTWARE FOR COMPUTERS AND SMARTPHONES.



DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

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,
- outdoor receivers standard and with display,
- outdoor radio programmers,
- 2-channel mini receivers, slot-in receiver cards.

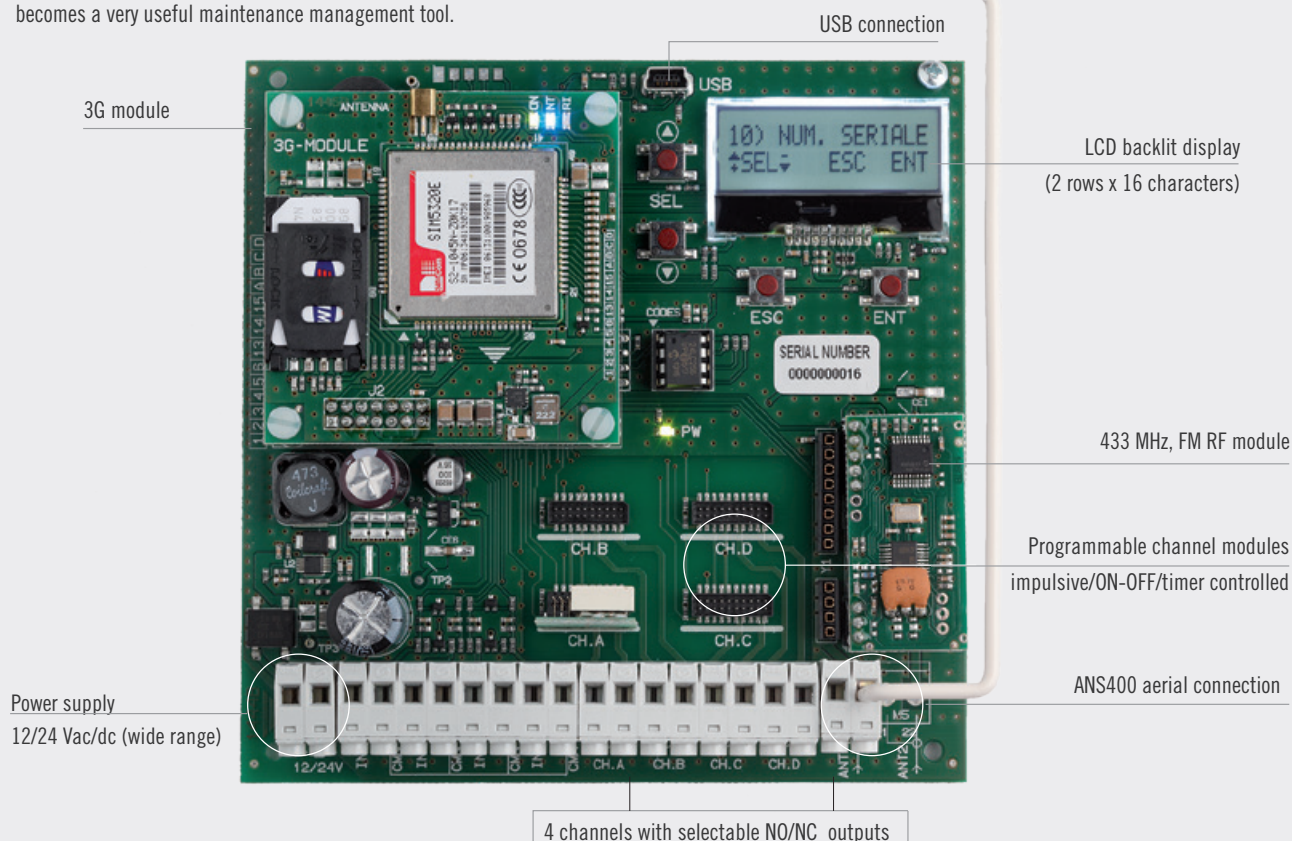
RICEVITORE WITH LCD DISPLAY AND 3G/WiFi FUNCTIONS

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.

RCQ504-3G

All weather box
in ABS IP55

Overall dimensions 135 x 175 x 85



PRODUCT DESCRIPTION	ORDER NR.
2G/3G RECEIVER WITH LCD DISPLAY + VODAFONE SIM (12/24 Vac-dc)	RCQ504-3G10
2G/3G RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ504-3G
WiFi RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ504-WF

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 (impulsive, ON-OFF or timer controlled). 1 relay inserted.
 Possibility of memorising up to 3000 codes
 USB connection and 3G-WIFI module for remote user and activation of the output relays.
 The RCQ504-3G10 receiver include a 10 year subscription with our partner Vodafone.

MODEM FOR 2G-3G RECEIVER WITH DISPLAY	MGSMGL6110USB
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The modem allows the installation to be remotely connected via the software CARDINTX_ SW supplied with the receiver or downloadable free of charge from the Cardin website.

OUTDOOR RECEIVER (12/24 Vac-dc)	RCQ504C1
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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 MCCMORPHM0, 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)	RCQ504D1
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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 MCCMORPHM0, 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)	RQM504C2
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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.
 Possibilità di memorizzare fino a 1000 codici.

2-CHANNEL SLOT-IN RECEIVER CARD (24 Vac-dc)	RSQ504C2
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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. Possibilità di memorizzare fino a 1000 codici.

RADIOPROGRAMMERS FOR ROLLING GRILLS (230V 600W)	RPQ504
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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 (230V 2000W)	RPQ504ITO
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All weather box in ABS - IP55. Overall dimensions 139 x 115 x 44
 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	JRF433QFMDG1
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Superheterodyne in FM with a digital filter. Overall dimensions 40 x 20 x 13
 RF module without decoder. Voltage: 3 Vdc - Electrical input: 15 mA





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

868 MHz "FM" "ROLLING CODE"

2^{128} CODE COMBINATIONS

REMOTE TRANSMITTER MEMORISATION

RFID: MEMORIA WIRELESS

AERIAL ANQ800-1

AVAILABLE CHANNELS 1-4

RANGE 100 - 150 m

MORE THAN 4 BILLION PRE-CODED TRANSMITTER CODES

An extremely secure state-of-the-art radio control system with 128 bit cryptography. The system has gathered together a series of specific appliances under a single working protocol aimed at the remote control of automatic and security installations. Solutions for all possible uses: control of automatic installations for gates and doors, the command and control of automatic rolling shutters and sun blinds, the activation of alarm and access control systems as well as the activation of all ON-OFF or timer-controlled systems. Adopting the 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 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.

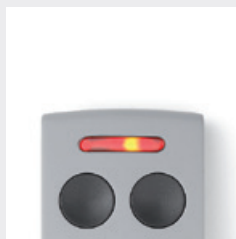
Quartz receivers with the possibility of memorising up to 1000 user codes

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.

TXQ508C4



REMOTE ENABLING USING A
TRANSMITTER ALREADY MEMORI-
SED 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 NR.

TRANSMITTERS

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

2-CHANNEL PRECODED TRANSMITTER

TXQ508C2

4-CHANNEL PRECODED TRANSMITTER

TXQ508C4

KEYPAD COVERS / TRANSMITTER ACCESSORIES

5 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX5002

5 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX5004

TRANSMITTER WALL / CAR SUPPORT

XACSUPTX500

PROGRAMMING BASE

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 S508 transmitters and in the management software CARDINTX_SW.

CODE AND MEMORY PROGRAMMING BASE VIA USB

PGBASE500

NUMERICAL CODE KEYPAD VIA RADIO

SSB-508

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 1000 user codes.
Manages up to 4 distinct functions and communicates with all S508 standard receivers.
Overall dimensions 74 x 130 x 20

3V LITHIUM BATTERY PACK (SSB-508)

ZRA3.0-3.8-W



FUNCTIONALITY DRESSES SIMPLY

TECHNICAL DATA

FREQUENCY: 868 MHz
RANGE: 100 - 150 m
PROTOCOL: 128 BIT
RFID: WIRELESS MEMORY
BATTERY: LITHIUM 3V (1 X CR2032)
FUNCTIONS: 2/4 CHANNELS



KEY BLOCK

WHEN SELECTED THE KEY BLOCK FUNCTION PROTECTS THE APPLIANCE FROM ANY ACCIDENTAL ACTIVATION.

REMOTE MEMORISATION

THE TRANSMITTERS 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.

PRE-CODED

THE TRANSMITTER IS PRE-CODED IN THE FACTORY WITH A UNIQUE IDENTIFICATION NUMBER PRINTED ON THE REAR SO AS TO ALLOW MEMORISATION IN LOTS ON THE RECEIVER.



NETWORK CONNECTIVITY

THE S508 RANGE INTERACTS WITH AN EVOLVED SYSTEM CONSISTING OF A CARDIN SERVER DEDICATED TO THE 3G/WF CONNECTION BY MEANS OF APPLIANCES AND SOFTWARE FOR COMPUTERS AND SMARTPHONES.



DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

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,
- outdoor receivers,
- outdoor receiver with display,
- outdoor radio programmers,
- 2-channel mini receiver,
- 2-channel slot-in receiver cards.

OUTDOOR RECEIVER WITH DISPLAY

The outdoor receiver (ABS IP55) is fitted with a 12-way terminal board and has a 12/24V ac-dc electrical connection between binding posts 11 and 12. Sul ricevitore in cassetta and it is possible to fit an external antenna ANQ800-1 to improve the signal.

The outdoor receiver is fitted directly to the wall using four self-tapping screws M4,8.

The unit can memorise and cancel each single user individually and can manage up to 1000 user codes in the special memory module which is protected by a plastic case.

The unit can be fitted with up to 4 interchangeable relays strips - MCCMORPHMO

The relay modules can be set on the display to the following functions:

- Impulsive channel mode
- ON/OFF channel mode
- Timer controlled channel mode

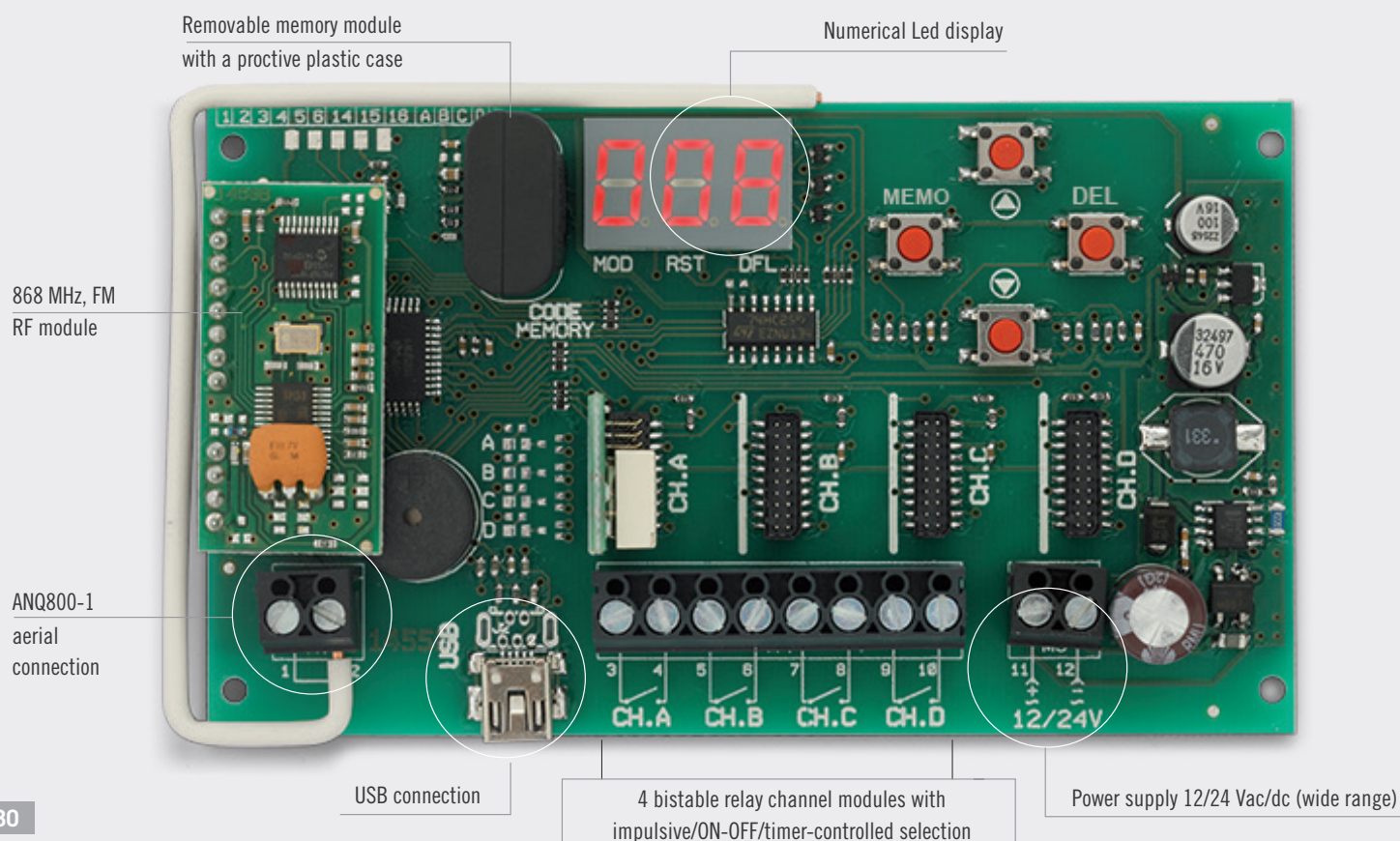
The receiver can keep track of the events through a USB connection

RCQ508D1

All weather box
in ABS IP55



Overall dimensions
148 x 118 x 40



PRODUCT DESCRIPTION	ORDER NR.
2G/3G RECEIVER WITH LCD DISPLAY + VODAFONE SIM (12/24 Vac-dc)	RCQ508-3G10
2G/3G RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ508-3G
WiFi RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ508-WF

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 (impulsive, ON-OFF or timer controlled). 1 relay inserted.
 Possibility of memorising up to 3000 codes
 USB connection and 3G-WIFI module for remote user and activation of the output relays.
 The RCQ508-3G10 receiver include a 10 year subscription with our partner Vodafone.

MODEM FOR 2G-3G RECEIVER WITH DISPLAY	MGSMGL6110USB
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The modem allows the installation to be remotely connected via the software CARDINTX_ SW supplied with the receiver or downloadable free of charge from the Cardin website.

OUTDOOR RECEIVER (12/24 Vac-dc)	RCQ508C1
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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 MCCMORPHM0, 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)	RCQ508D1
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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 MCCMORPHM0, 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)	RQM508C2
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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.
 Possibilità di memorizzare fino a 1000 codici.

2-CHANNEL SLOT-IN RECEIVER CARD (24 Vac-dc)	RSQ508C2
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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. Possibilità di memorizzare fino a 1000 codici.

RADIOPROGRAMMERS FOR ROLLING GRILLS (230V 600W)	RPQ508
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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 (230V 2000W)	RPQ508ITO
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All weather box in ABS - IP55. Overall dimensions 139 x 115 x 44
 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 868 MHz	JRF868QFMDG1
---------------------------------------	---------------------

Superheterodyne in FM with a digital filter. Overall dimensions 40 x 20 x 13
 RF module without decoder. Voltage: 3 Vdc - Electrical input: 15 mA





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

433 MHz "FM" "ROLLING CODE"

2^{66} CODE COMBINATIONS

MEMORISATION VIA RADIO

AERIAL ANS400

AVAILABLE CHANNELS 1-4

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 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.

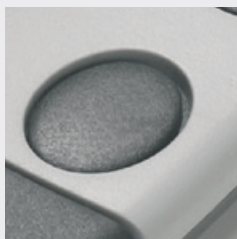
TXQ449400



SELF-LEARNING



MEMO RADIO - KEY LOCK



ERGONOMIC BUTTONS



COMPACT CASE



LITHIUM BATTERY

PRODUCT DESCRIPTION

ORDER NR.

TRANSMITTERS

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

1-CHANNEL TRANSMITTER

TXQ449100

2-CHANNEL TRANSMITTER

TXQ449200

3-CHANNEL TRANSMITTER

TXQ449300

4-CHANNEL TRANSMITTER

TXQ449400



2-CHANNEL PRECODED TRANSMITTER *

TXQ4492P0

4-CHANNEL PRECODED TRANSMITTER *

TXQ4494P0

* Minimum lots of 500 pieces.

4-CHANNEL TRANSMITTER

TXQ44940M

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Wall mounting.

Overall dimensions 72 x 72 x 15



NUMERICAL CODE KEYPAD VIA RADIO

SSB-T9K4

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.
Possibility of memorising up to 250 user codes.
Manages up to 4 distinct functions and communicates with all S449 standard receivers.

Overall dimensions 72 x 115 x 28





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

RECEIVERS

The receivers are available in all the classic Cardin versions: outdoor receivers 12-24V. with display, with LCD display and 3G-WIFI functions, 230V radio programmers in watertight cases with flip up access covers, multiprotocol interface decoding in indoor boxes, mini receiver units to be installed in appliances which already have a protective casing and slot-in receiver cards for direct insertion into host appliances designed to receive them.

- outdoor receiver with LCD display and 3G-WIFI functions,
- outdoor receivers,
- outdoor receiver with display,
- outdoor radio programmer,
- 2-channel mini receiver,
- 2-channel slot-in receiver cards.

RQM449200



Box in ABS for internal use IP20

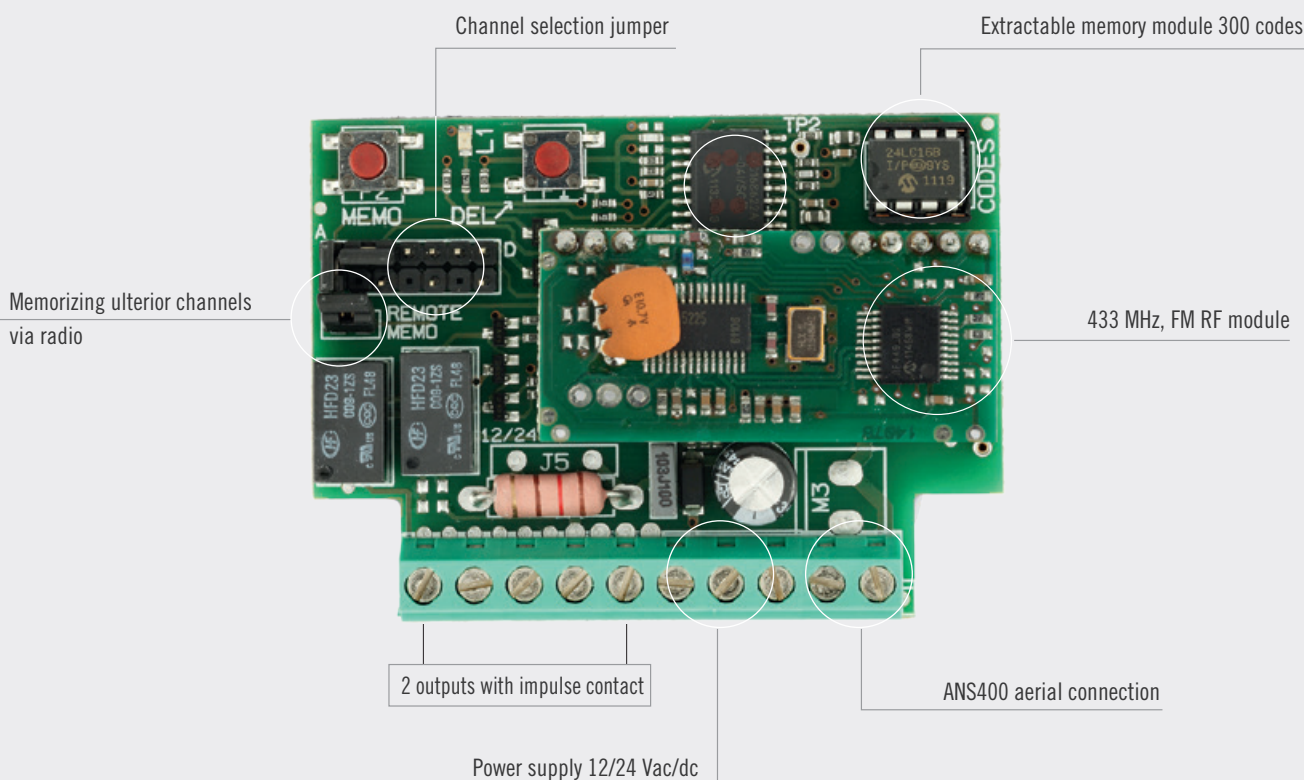
Overall dimensions 95 x 75 x 25

MINI TWO-CHANNEL RECEIVER

The mini receiver housed in an indoor container and is fitted with an 10-way terminal board.

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

The memorization via radio function allows extra transmitters to be added to the system without having to access the circuit board but instead by using the MEMO Radio button in a previously memorised transmitter in the vicinity of the receiver.



PRODUCT DESCRIPTION	ORDER NR.
2G/3G RECEIVER WITH LCD DISPLAY + VODAFONE SIM (12/24 Vac-dc)	RCQ449-3G10
2G/3G RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ449-3G
WiFi RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ449-WF

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 (impulsive, ON-OFF or timer controlled). 1 relay inserted.
 Possibility of memorising up to 3000 codes
 USB connection and 3G-WIFI module for remote user and activation of the output relays.
 The RCQ449-3G10 receiver include a 10 year subscription with our partner Vodafone.



MODEM FOR 2G-3G RECEIVER WITH DISPLAY	MGSMGL6110USB
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The modem allows the installation to be remotely connected via the software CARDINTX_SW supplied with the receiver or downloadable free of charge from the Cardin website.



OUTDOOR RECEIVER (12/24 Vac-dc)	RCQ449100
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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)	RCQ449D00
---	------------------

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)	RQM449200
---	------------------

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)	RSQ449200
--	------------------

Receiver card for direct insertion into a host appliance designed to receive it.
 Supplied with 2 impulsive relays.
 Possibility of memorising up to 300 codes.
 Overall dimensions 70 x 52 x 20



QUARTZ RECEIVER MODULE 433 MHz	JRF433QFMDG0
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Superheterodyne in FM with a digital filter.
 RF module without decoder suitable for receiving and transmitting digital signals.
 Voltage: 5 Vdc - Electrical input: 15 mA
 Overall dimensions 40 x 20 x 13





S449

PRODUCT DESCRIPTION

ORDER NR.

RADIOPROGRAMMERS

All weather box in ABS - IP55
Power supply 230 Vac.
Overall dimensions 139 x 115 x 44

RADIOPROGRAMMERS FOR ROLLING GRILLS (600 W)

RPQ449

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.

RADIOPROGRAMMER ON/OFF + TIMER (2000 W)

RPQ449ITO

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 9 hrs. 59 min.



RADIOPROGRAMMERS FOR ROLLING SHUTTERS (400 W)

RP449RNAO

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

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.



RADIOPROGRAMMERS FOR SUN BLINDS AND AWNINGS (450 W)

RP449BNAO

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

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.



ANEMOMETER

SW01

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



PRODUCT DESCRIPTION

ORDER NR.

HAND-HELD PDA PROGRAMMER

PGM449

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.

TECHNICAL DATA

Carrier frequency	433,92 MHz
Internal power supply (battery)	9 Vdc
External power supply	12 Vac-dc
Illuminated background display	16 characters x 4 lines
Maximum number of reserved KEY449 codes	2000



RESERVED CODE PROGRAMMING KEY

KEY449

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.



MULTIPROTOCOL INTERFACE

RCQ449W00

The interface is able to decode a radio frequency signal coming from a Cardin S449 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.



TECHNICAL DATA

Carrier frequency	433,92 MHz
Power supply	12/24 Vac-dc
Electrical input	20 mA
Overall dimensions	120 x 85 x 20

TRANSPONDER CLIP

10 TRANSPONDER CLIPS (LIGHT GREY)

COVERTP-LG

10 TRANSPONDER CLIPS (DARK GREY)

COVERTP-DG



KEYPAD COVERS

10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX200

10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX400





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

868 MHz "FM" "ROLLING CODE"

2⁶⁶ CODE COMBINATIONS

MEMORISATION VIA RADIO

ANTENNA ANQ800-1

AVAILABLE CHANNELS 1-4

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 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.

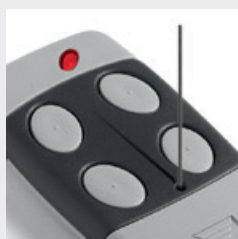
The "key" to the system is the "simply unique" set of transmitters, made of anti-scratch, shockproof materials that are compact and easy to use. They are available in the following versions: pocket size with 1-2-3-4 channels and wall mounted with four available functions working from a fixed position. 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.

TXQ486400



SELF-LEARNING



MEMO RADIO - KEY LOCK



ERGONOMIC BUTTONS



COMPACT CASE



LITHIUM BATTERY

PRODUCT DESCRIPTION

ORDER NR.

TRANSMITTERS

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

1-CHANNEL TRANSMITTER

TXQ486100

2-CHANNEL TRANSMITTER

TXQ486200

3-CHANNEL TRANSMITTER

TXQ486300

4-CHANNEL TRANSMITTER

TXQ486400



2-CHANNEL PRECODED TRANSMITTER *

TXQ4862P0

4-CHANNEL PRECODED TRANSMITTER *

TXQ4864P0

* Minimum lots of 500 pieces.

4-CHANNEL TRANSMITTER

TXQ48640M

Container in shockproof plastic material.
3V lithium battery power supply CR2032.
Wall mounting.

Overall dimensions 72 x 72 x 15



NUMERICAL CODE KEYPAD VIA RADIO

SSB-T8K4

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.
Possibility of memorising up to 250 user codes.
Manages up to 4 distinct functions and communicates with all
S486 standard receivers.

Overall dimensions 72 x 115 x 28





DIGITAL QUARTZ SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODES

PRODUCT DESCRIPTION

ORDER NR.

2G/3G RECEIVER WITH LCD DISPLAY + VODAFONE SIM (12/24 Vac-dc)	RCQ486-3G10
2G/3G RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ486-3G
WiFi RECEIVER WITH LCD DISPLAY (12/24 Vac-dc)	RCQ486-WF

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 (impulsive, ON-OFF or timer controlled). 1 relay inserted.

Possibility of memorising up to 3000 codes

USB connection and 3G-WIFI module for remote user and activation of the output relays.

The RCQ486-3G10 receiver include a 10 year subscription with our partner Vodafone.

MODEM FOR 2G-3G RECEIVER WITH DISPLAY	MGSMGL6110USB
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The modem allows the installation to be remotely connected via the software CARDINTX_SW supplied with the receiver or downloadable free of charge from the Cardin website.

OUTDOOR RECEIVER (12/24 Vac-dc)	RCQ486100
--	------------------

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)	RCQ486D00
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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)	RQM486200
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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)	RSQ486200
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Receiver card for direct insertion into a host appliance designed to receive it.

Supplied with 2 impulsive relays.

Possibility of memorising up to 300 codes.

Overall dimensions 70 x 52 x 20

QUARTZ RECEIVER MODULE 868 MHZ	JRF868QFMDGO
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Superheterodyne in FM with a digital filter.

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

Voltage: 5 Vdc - Electrical input: 15 mA

Overall dimensions 40 x 20 x 13



PRODUCT DESCRIPTION

ORDER NR.

RADIOPROGRAMMERS FOR ROLLING GRILLS (600 W)

RPQ486

All weather box in ABS - IP55
Power supply 230 Vac.
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.



HAND-HELD PDA PROGRAMMER

PGM486

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.

TECHNICAL DATA

Carrier frequency	868 MHz
Internal power supply (battery)	9 Vdc
External power supply	12 Vac-dc
Illuminated background display	16 characters x 4 lines
Maximum number of reserved KEY449 codes	2000



RESERVED CODE PROGRAMMING KEY

KEY449

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.



MULTIPROTOCOL INTERFACE

RCQ486W00

The interface is able to decode a radio frequency signal coming from a Cardin S486 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.



TECHNICAL DATA

Carrier frequency	868 MHz
Power supply	12/24 Vac-dc
Electrical input	20 mA
Overall dimensions	120 x 85 x 20 mm

TRANSPONDER CLIP

10 TRANSPONDER CLIPS (LIGHT GREY)

COVERTP-LG

10 TRANSPONDER CLIPS (DARK GREY)

COVERTP-DG



KEYPAD COVERS

10 2-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX200

10 4-CHANNEL KEYPAD COVERS WITH 5 DIFFERENT COLOURS

COVERMIX400





DIGITAL SUPERHETERODYNE RADIO CONTROLS WITH ROLLING CODE

433 MHz "AM" "ROLLING CODE"

2^{48} CODE COMBINATIONS

MEMORISATION VIA RADIO

AERIAL ANS400

AVAILABLE CHANNELS 1-12

MAXIMUM TRANSMITTERS STORED IN THE RECEIVER 512

TRANSMITTER RANGE 100 - 150 m

TRS435400

Highly reliable radio controls for the remote activation of electric and electronic devices. The great range of available models allow you to solve all possible installation problems whilst simultaneously ensuring maximum security for the user. The employment of up to date technology, the scrupulous attention paid to the selection of the materials and a design which is aimed at maximum efficiency and functionality, even under adverse conditions, have led to the realization of a high product quality level.

Electronic reliability is matched by the ergonomic design of the casing of these transmitters that now accompany the user in every moment of the day.

The S435 radio control allows the remote activation of electrical and electronic appliances with its best use in the following areas: automatic opening systems, alarm installations and in all systems which require remote control activation (without wires) using secret codes. The radio control system consists of one or more transmitters and one or more receivers and using a transmitter it is possible to command up to 12 functions (depending on the model).

A complete and secure system, which has been designed and realised with the quality and attention to detail that only CARDIN products can provide.



ROLLING CODE

The system uses a highly reliable and secure encoding system guaranteed by the use of dynamic codes. The code is changed for each transmission through the use of an encoding algorithm, which only the receiver is able to recognise and therefore decide whether or not the transmitted code corresponds to the original code. The code is generated for each channel in the transmitter using the random arbitrary method with 2^{36} possible combinations.



ROLLING CODE



SHOCK-PROOF CONTAINER



ERGONOMIC BUTTONS



RECEIVER DISPLAY



RADIOPROGRAMMER

PRODUCT DESCRIPTION	ORDER NR.
2-CHANNEL TRANSMITTER	TRS435200
4-CHANNEL TRANSMITTER	TRS435400
12-CHANNEL TRANSMITTER, 4 BUTTONS WITH A 3-WAY SWITCH	TRS435120

Container in shockproof plastic material.
12 V battery power supply type "23A".
Overall dimensions 39 x 80 x 12

TRANSMITTER HOLDER KIT	KIT435CLP
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Consists of a holder + key ring.

4-CHANNEL TRANSMITTER	TRS43540M
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Container in shockproof plastic material. Wall mounting.
12 V battery power supply type "23A".
Overall dimensions 82 x 82 x 20

4-CHANNEL RECEIVER (12/24 Vac-dc)	RCS435128
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4-CHANNEL RECEIVER (230 Vac)	RVS435128
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1 relay inserted.
All weather box in ABS - IP55.
Possibility of memorising up to 128 codes.
Overall dimensions 139 x 115 x 44

OUTDOOR RECEIVER WITH DISPLAY (12/24 Vac-dc)	RCS435D00
---	------------------

1 relay inserted
All weather box in ABS - IP55
Possibility of memorising up to 512 codes.
Fitted with a code memory access key.
Overall dimensions 139 x 115 x 44

OUTDOOR RADIOPROGRAMMER (230 Vac 400W)	RPS435000
---	------------------

All weather box in ABS - IP55
Possibility of memorising up to 24 codes.
Electronic radio programmer with integrated logic functions on the receiver and an output controlling one motor.
Overall dimensions 139 x 115 x 44

2-CHANNEL MINI RECEIVER (12/24 Vac-dc)	RMS435200
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Indoor box IP20.
Electronic circuit with a 10-way terminal block.
Possibility of memorising up to 128 codes.
Overall dimensions 90 x 60 x 20

2-CHANNEL SLOT-IN RECEIVER CARD (12/24 Vac-dc)	RSS435200
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Receiver card for direct insertion into a host appliance designed to receive it.
Possibility of memorising up to 128 codes.
Overall dimensions 83 x 60 x 18





QUARTZ DIGITAL SUPERHETERODYNE RADIO CONTROLS

27,195 MHz "AM"

16.384 PROGRAMMABLE CODES

VIA A 14-WAY BINARY DIP-SWITCH

AVAILABLE CHANNELS 2-8

NUMBER OF AVAILABLE CODE COMBINATIONS 16.384

TRANSMITTER RANGE 100 - 700 m

Highly reliable radio controls for the remote activation of electric and electronic devices. The great range of models offered by Cardin allows you to solve all possible installation problems whilst simultaneously ensuring maximum security for the user. The employment of up to date technology, the scrupulous attention paid to the selection of the materials and a design which is aimed at maximum efficiency and functionality, even under adverse conditions, have led to the realization of a high product quality level. Electronic reliability is matched by the ergonomic design of the casing of these transmitters that now accompany the user in every moment of the day.

The S38 radio control allows the remote activation of electrical and electronic appliances with its best use in the following areas: automatic opening systems and in all systems which require remote control activation (without wires) using secret codes. The radio control system consists of one or more transmitters and one or more receivers which can be combined to meet the specific needs of the client.

The use of miniaturised transmitters guarantees a range of 150-200 m while the use of pocket transmitters will increase the range to 300-700 m using a tuned Cardin aerial (the range values are calculated in free space with no radio-electric interference). A complete and secure system built using the severity and quality inherent in all Cardin products.

TRQ738200.EUR - TRQ738400.EUR



PROGRAMMABLE CODE

The S38 series uses a programming system based on a 14-way binary dip-switch. For 1 to 4 channel receivers, code programming is carried out using a 14-way dip-switch which permits 16.384 combinations. The use of 8-channel transmitters allows you to program 4 and 8-channel receivers by setting the first 13 dips on the dip-switch for a total of 8192 combinations. Programming can be carried out numerous times even after the installation consequently allowing you to guarantee the code secrecy.



QUARTZ CONTROL



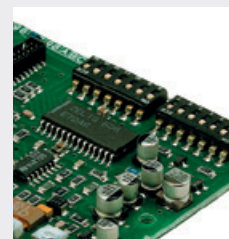
SHOCK-PROOF CONTAINER



SECURITY CODE VIA DIP-SWITCH



8-CHANNEL TRANSMITTERS



MODULAR RECEIVER

PRODUCT DESCRIPTION

ORDER NR.

TRANSMITTERS

Container in shockproof plastic material.
9 V dry battery power supply (type "GLF22")
Overall dimensions 54 x 108 x 22

2-CHANNEL TRANSMITTER	TRQ038200.EUR
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4-CHANNEL TRANSMITTER	TRQ038400.EUR
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8-CHANNEL TRANSMITTER	TRQ038800.EUR
------------------------------	----------------------

TRANSMITTERS

Container in shockproof plastic material.
12 V battery power supply type "23A".
Overall dimensions 35 x 66 x 18

2-CHANNEL TRANSMITTER	TRQ738200.EUR
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4-CHANNEL TRANSMITTER	TRQ738400.EUR
------------------------------	----------------------

OUTDOOR RECEIVER 12/24 Vac-dc

All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44

4-CHANNEL OUTDOOR RECEIVER	RCQ03810C.EUR
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1 relay inserted.

8-CHANNEL OUTDOOR RECEIVER	RDQ03880C.EUR
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Relays to be ordered apart.

STRIP WITH 2 IMPULSIVE RELAYS, FOR S38 8-CHANNEL RECEIVERS	MDC038200
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The relay remains active while the channel button is kept pressed down.

OUTDOOR RECEIVERS 230 Vac

All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44

4-CHANNEL OUTDOOR RECEIVER	RVQ038100.EUR
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1 relay inserted.

Particularly indicated for the control of alarm systems and for all installations requiring remote control powered by 230Vac.

OUTDOOR RADIOPROGRAMMER (350W)	RPQ038000.EUR
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Radioprogrammer with logic integrated into the receiver and output for the control of one motor.

Particularly indicated for the control of rolling shutters etc.

2-CHANNEL MINI RECEIVER (24 Vac-dc)	RQM03820C.EUR
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Indoor box IP20.

Electronic circuit with an 8-way terminal block.

Overall dimensions 90 x 60 x 20

2-CHANNEL SLOT-IN RECEIVER CARD (12/24 Vac-dc)	RSQ03820C.EUR
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Transceiver card for direct insertion into a host appliance designed to receive it.

Overall dimensions 90 x 80 x 20





DIGITAL SUPERHETERODYNE RADIO CONTROLS

433 MHz "AM"

19.683 PROGRAMMABLE CODES

VIA A 9-WAY TERNARY DIP-SWITCH

AVAILABLE CHANNELS 2-4

NUMBER OF AVAILABLE CODE COMBINATIONS 19.683

TRANSMITTER RANGE 100 m

Highly reliable radio controls for the remote activation of electric and electronic devices. The great range of models offered by Cardin allows you to solve all possible installation problems whilst simultaneously ensuring maximum security for the user. The employment of up to date technology, the scrupulous attention paid to the selection of the materials and a design which is aimed at maximum efficiency and functionality, even under adverse conditions, have led to the realization of a high product quality level. Electronic reliability is matched by the ergonomic design of the casing of these transmitters that now accompany the user in every moment of the day.

The S476 radio control allows the remote activation of electrical and electronic appliances with its best use in the following areas: automatic opening systems and in all systems which require remote control activation (without wires) using secret codes. The radio control system consists of one or more transmitters and one or more receivers which can be combined to meet the specific needs of the client.

Using a transmitter you can control up to four functions in a receiver, that has the same code, even from different locations (multiple receivers).

A complete and secure system, which has been designed and realised with the quality and attention to detail that only Cardin products can provide.

TRS476400



PROGRAMMABLE CODE

The S476 series (with up to 4 channels) uses a programming system based on a 9-way ternary dip-switch, which permits 19.683 code combinations. You need only set the identical code in the transmitter and in the receiver using all 9 of the available dips. Programming can be carried out numerous times even after the installation consequently allowing you to guarantee the code secrecy.

The two button transmitter allows single channel function ("A+A").



INTERCHANGEABLE BUTTONS



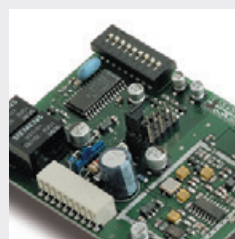
SHOCK-PROOF CONTAINER



TRANSMITTER HOLDER KIT



SECURITY CODE VIA DIP-SWITCH



SLOT-IN RECEIVER CARD

PRODUCT DESCRIPTION

ORDER NR.

TRANSMITTERS

Container in shockproof plastic material.
12 V battery power supply type "23A".
Overall dimensions 40 x 75 x 19

2-CHANNEL TRANSMITTER

TRS476200

4-CHANNEL TRANSMITTER

TRS476400



OUTDOOR RECEIVER (12/24 Vac-dc)

RCS476100

4-channel receiver with 1 relay inserted.
All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44



2-CHANNEL MINI RECEIVER (24 Vac-dc)

RMS476200

Indoor box IP20.
Electronic circuit with a 10-way terminal block.
Overall dimensions 90 x 60 x 20



2-CHANNEL SLOT-IN RECEIVER CARD (12/24 Vac-dc)

RSS476200

Transceiver card for direct insertion into a host appliance designed to receive it.
Overall dimensions 83 x 60 x 18





DIGITAL SUPERHETERODYNE RADIO CONTROLS

27,195 MHz "AM"

19.683 PROGRAMMABLE CODES

VIA A 9-WAY TERNARY DIP-SWITCH

AVAILABLE CHANNELS 2-4

NUMBER OF AVAILABLE CODE COMBINATIONS 19.683

TRANSMITTER RANGE 200-300 m

Highly reliable radio controls for the remote activation of electric and electronic devices. The great range of models offered by Cardin allows you to solve all possible installation problems whilst simultaneously ensuring maximum security for the user. The employment of up to date technology, the scrupulous attention paid to the selection of the materials and a design which is aimed at maximum efficiency and functionality, even under adverse conditions, have led to the realization of a high product quality level. Electronic reliability is matched by the ergonomic design of the casing of these transmitters that now accompany the user in every moment of the day.

The S46 radio control allows the remote activation of electrical and electronic appliances with its best use in the following areas: automatic opening systems and in all systems which require remote control activation (without wires) using secret codes. The radio control system consists of one or more transmitters and one or more receivers which can be combined to meet the specific needs of the client.

Using a transmitter you can control up to four functions in a receiver, that has the same code, even from different locations (multiple receivers).

A complete and secure system, which has been designed and realised with the quality and attention to detail that only Cardin products can provide.

PROGRAMMABLE CODES

The S46 series (with up to 4 channels) uses a programming system based on a 9-way ternary dip-switch, which permits 19.683 code combinations. You need only set the identical code in the transmitter and in the receiver using all 9 of the available dips. Programming can be carried out numerous times even after the installation consequently allowing you to guarantee the code secrecy.

The two button transmitter allows single channel function ("A+A").

TRQ466400.EUR



INTERCHANGEABLE BUTTONS



SHOCK-PROOF CONTAINER



TRANSMITTER HOLDER KIT



SECURITY CODE VIA DIP-SWITCH



RADIOPROGRAMMER

PRODUCT DESCRIPTION

ORDER NR.

TRANSMITTERS

Container in shockproof plastic material.
12 V battery power supply type "23A".
Overall dimensions 40 x 75 x 19

2-CHANNEL TRANSMITTER

TRQ466200.EUR

4-CHANNEL TRANSMITTER

TRQ466400.EUR

**OUTDOOR RECEIVER**

All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44

4-CHANNEL RECEIVER (12/24 Vac-dc)

RCQ04610C.EUR

1 relay inserted.

4-CHANNEL RECEIVER (230 Vac)

RVQ04610C.EUR

1 relay inserted.

**OUTDOOR RADIOPROGRAMMER**

All weather box in ABS - IP55.
Overall dimensions 139 x 115 x 44

OUTDOOR RADIOPROGRAMMER (230 Vac - 350W)

RPQ046000.EUR

Radioprogrammer with logic integrated into the receiver and output for the control of one motor.
Particularly indicated for the control of rolling shutters etc.

**2-CHANNEL MINI RECEIVER (24 Vac-dc)**

RQM04620C.EUR

Indoor box IP20.
Electronic circuit with an 8-way terminal block.
Overall dimensions 90 x 60 x 20

**2-CHANNEL SLOT-IN RECEIVER CARD (12/24 Vac-dc)**

RSQ04620C.EUR

Transceiver card for direct insertion into a host appliance designed to receive it.
Overall dimensions 83 x 60 x 18





TXQPRO

INDUSTRIAL DIGITAL TRANSMITTERS/ TRANSCIVERS ROLLING CODE

TXQPROMRF

433 MHz "FM" "ROLLING CODE"

2¹²⁸ CODE COMBINATIONS

TXQPRO449 - TXQPRO486

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

2⁶⁶ CODE COMBINATIONS

TXQPRO504 - TXQPRO508

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

2¹²⁸ CODE COMBINATIONS

AVAILABLE CHANNELS 4

RANGE 200 (700 m WITH 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



INDICATOR LED



ERGONOMIC BUTTONS



EXTERNAL SCREW-IN AERIAL



WATERPROOF CONTAINER IP65



6V LONG LIFE BATTERIES

PRODUCT DESCRIPTION

ORDER NR.

MOBILE INDUSTRIAL TRANSCEIVER MORPHEUS, 433 MHZ "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

TXQPROMRF-4

with an internal ceramic aerial.

4-CHANNEL MOBILE TRANSCEIVER

TXQPROMRF-4A

with an external aerial.

INDUSTRIAL TRANSMITTERS S449, 433 MHZ "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

TXQPR0449-4

with an internal ceramic aerial.

4-CHANNEL TRANSMITTER

TXQPR0449-4A

with an external aerial.

INDUSTRIAL TRANSMITTERS S486, 868 MHZ "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

TXQPR0486-4

with an internal ceramic aerial.

4-CHANNEL TRANSMITTER

TXQPR0486-4A

with an external aerial.

INDUSTRIAL TRANSMITTERS S504, 433 MHZ "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

TXQPR0504-4

with an internal ceramic aerial.

4-CHANNEL TRANSMITTER

TXQPR0504-4A

with an external aerial.

INDUSTRIAL TRANSMITTERS S508, 868 MHZ "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

TXQPR0508-4

with an internal ceramic aerial.

4-CHANNEL TRANSMITTER

TXQPR0508-4A

with an external aerial.

6V-LITHIUM BATTERY PACK

ZRL7.2-1.6





PROXIMITY COMMAND SYSTEMS

DIGITAL TRANSMISSION VIA CABLE

SURFACE-MOUNT INSTALLATION IP57

NUMBER OF USER CODES THAT CAN BE STORED: 1000

NUMBER OF AVAILABLE CODE COMBINATIONS: 1 MILLION

SEPARATE COMMAND FUNCTIONS: 4

MANAGES UP TO 3 PERIPHERAL DEVICES (KEYPADS / READERS)

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.

DKS250T



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 NR.

KEYPAD

Surface-mounting IP57.

The keyboard DKS-250T has the following features:

- 12 keys, 10 of which are 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.

Overall dimensions 72 x 104 x 26

KEYPAD

DKS250T

KEYPAD WITH BACKLIGHTING

DKS250TL

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.

Overall dimensions 74 x 130 x 24

TRANSPONDER READER

DKSTPT

TRANSPONDER TAG (WHITE)

TAGWH

TRANSPONDER TAG (GREY)

TAGGR

INTERFACE

The interface DKS-250R is housed in a compact plastic box which 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).

Overall dimensions 95 x 75 x 25

4-CHANNEL INTERFACE

DKS1000R

KIT

KEYPAD + INTERFACE

DKS250

KEYPAD WITH BACKLIGHTING + INTERFACE

DKS250L

TRANSPONDER READER + INTERFACE

DKSTP





MICROPROCESSOR CONTROLLED ELECTRONIC PROGRAMMERS FOR 24 Vdc MOTORS

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: sliding gates, hinged 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



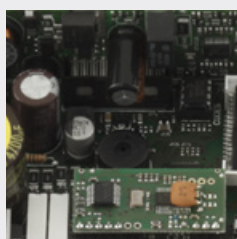
CC242EXTOPCB



READY TO FIT RIGID TUBE ENTRY POINTS



Ø21 AND Ø16 CABLE GLANDS SUPPLIED WITH CC242EXTOPCB



433 MHz or 868 MHz INTEGRATED RECEIVER CARDS



EMERGENCY NIMHBATTERIES IN THE CC242ETOPCB AND CC242EXTOPCB VERSIONS



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

PRODUCT DESCRIPTION

ORDER NR.

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.



CC242ETOP - CC242ETOPCB
Overall dimensions
210 x 300 x 120



CC242EXTOPCB
Overall dimensions
150 x 450 x 125

ELECTRONIC CONTROL UNIT

CC242ETOP

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

CC242ETOPCB

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

CC242EXTOPCB

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 CONTROL UNIT, BASIC VERSION

PRG900

ELECTRONIC CONTROL UNIT + BATTERY CHARGER AND NiMH BATTERIES

PRG900CB

VOLTAGE REGULATOR STABILIZED AT 24 Vdc (SERIE PRG900)

SELINTCV

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

KBNiMH-1

Allows the programmers PRG900 and CC242ETOP to work during blackouts.





MICROPROCESSOR CONTROLLED ELECTRONIC PROGRAMMERS FOR 230 Vac MOTORS

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.

PRG304E

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.

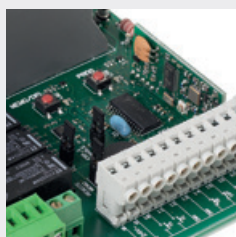
The complete range of programmers simplifies and solves all possible installation problems. The high product-quality level together with accurate design and a selective choice of materials allows trouble free operation and maximum reliability under all kinds of working conditions.



AUTOMATIC CLOSING



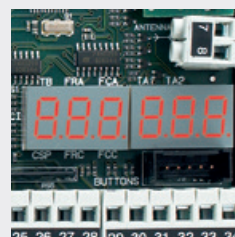
WATERPROOF CONTAINER IP55



EXTRACTABLE TERMINAL BOARD



READY TO FIT CABLE GLAND ENTRY POINTS



LED DISPLAY

PRODUCT DESCRIPTION

ORDER NR.

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 kΩ), 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.

Use

Suitable for the control of automatic rolling shutters .

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 Ø 2 x Ø9 mm + Ø 2 x Ø16 mm)

Use

Suitable for the control of automatic road barriers.

ELECTRONIC PROGRAMMER

PRG302E

SLOT-IN CARD

YPR302SR2

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).

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.

Use

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

ELECTRONIC PROGRAMMER

PRG807001

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.

Use

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

ELECTRONIC PROGRAMMER

PRG230M2

ADDITIONAL FUNCTION CARD

SESLC

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 kΩ safety edge management.

CABLE GLANDS KIT

XSL4DIE09960

Cable glands 4 x Ø16 mm.

PRG302 - PRG304



Overall dimensions
135 x 175 x 85



Overall dimensions
210 x 300 x 105





SINGLE PHASE - THREE PHASE ELECTRONIC PROGRAMMERS FOR INDUSTRIAL INSTALLATIONS

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.

PRG383TCE

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.



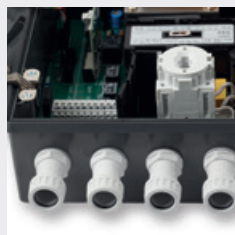
DOOR SECURITY SWITCH



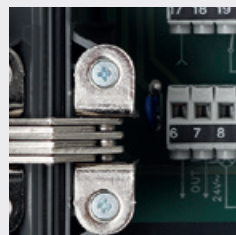
EMERGENCY BUTTON



EXTERNAL COMMAND BUTTONS



FITTED WITH PIPE GLANDS



STAINLESS STEEL HINGES

PRODUCT DESCRIPTION

ORDER NR.

**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.

Use

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

PRG383TCE

**ELECTRONIC CONTROL UNIT, BASIC VERSION****PRG383OCE****ELECTRONIC PROGRAMMERS WITH EXTERNAL CONTROL BUTTONS****PRG383TCE**

Overall dimensions
175 x 265 x 105

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.

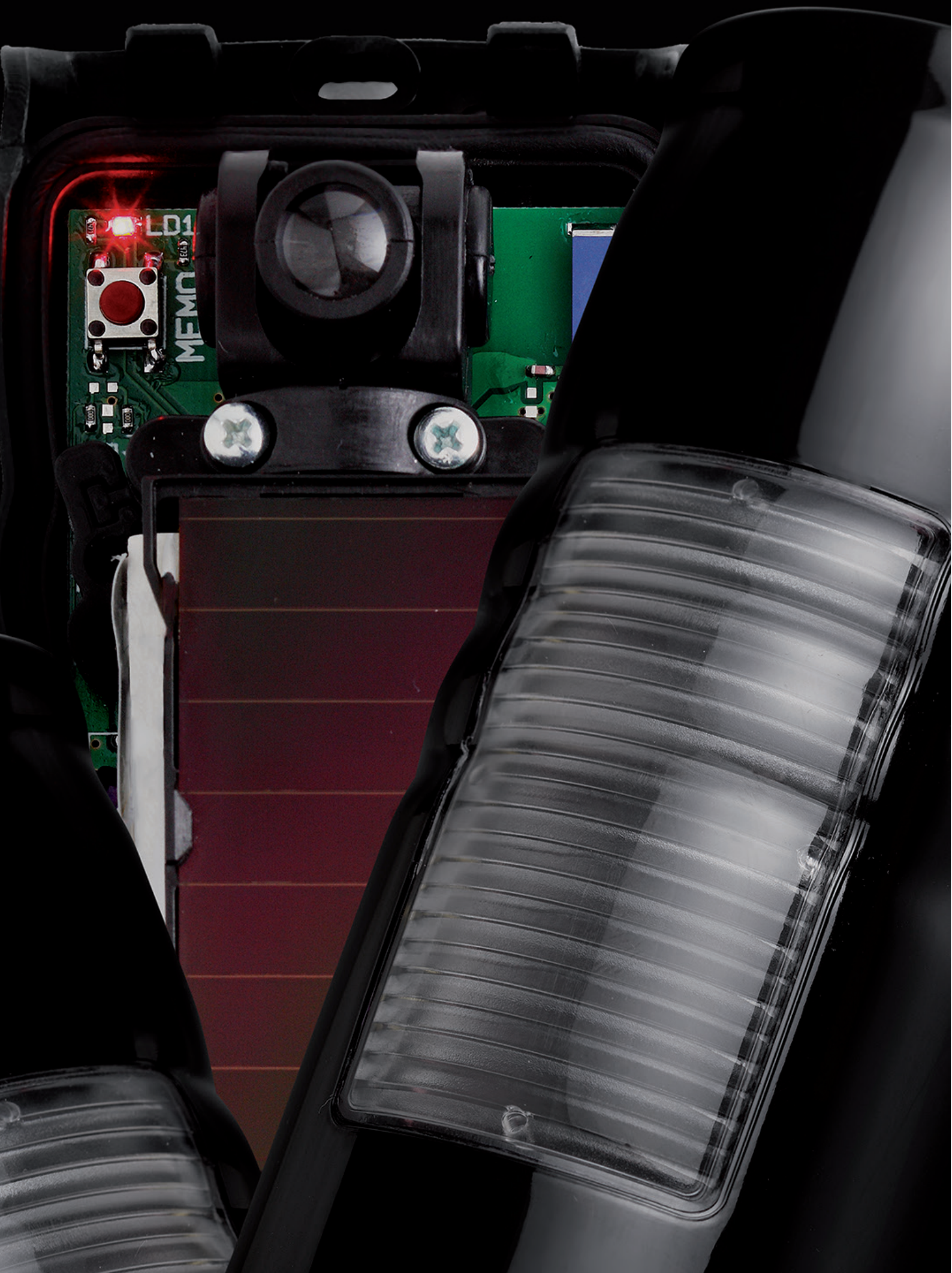
Use

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

PRG384OCE

**ELECTRONIC CONTROL UNIT, BASIC VERSION****PRG384OCE****ELECTRONIC PROGRAMMERS WITH EXTERNAL CONTROL BUTTONS****PRG384TCE**

Overall dimensions
175 x 265 x 105





INFRARED MODULATED BARRIERS WITH ADJUSTABLE LENSES

CLASS 3

RECEIVER POWER SUPPLY 12/24 Vac-dc

PROJECTOR POWER SUPPLY 3V WITH A LITHIUM BATTERY.

MAXIMUM RANGE 10 METRES

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 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.

Range:

12 m for internal installations;

10 m for external installations under all weather conditions such as thick fog, rain and dust etc.



Overall dimensions
60 x 125 x 41

PAIR OF SURFACE MOUNT PHOTOELECTRIC CELLS

CDRX12

The kit contains:

- 1 projector + battery pack;
- 1 receiver;
- 1 cable gland;
- assorted screws.



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 MODULATED BARRIERS WITH ADJUSTABLE LENSES

CLASS 3

POWER SUPPLY 12/24 Vac-dc

MAXIMUM RANGE 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 AX anti-tamper aluminium box IP66.

CDR 973 EX shock-proof in a plastic box.

CDR 973 IX shock-proof plastic embedding case.

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: it is an extremely valid safety system that respects the requirements of the standard EN 12978. The appliance is fitted with a new optical transmission system (conforms to the specifications indicated by part 2 of the European law IEC 61496-2) 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 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 (multiplex system) 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 contact 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.

Pre-amplified receiver lens.

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

CDR973AX



ADJUSTABLE LENS



MULTIPLEX SYSTEM



ALUMINIUM CASING



CONTAINER IP66



CABLE PROTECTION

PRODUCT DESCRIPTION

ORDER NR.

PAIR OF CLASS 3 PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE

Maximum range 15 m
Power supply 12/24 Vac-dc
Protection grade IP66

Transmitter and receiver housed in a compact waterproof aluminium case. Self locking adjustable lens which can be rotated horizontally through 90° and vertically through plus or minus 30° with respect to the standard installation position. Double-relay with serial exchange.

It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).

The kit contains:

- 1 projector in an aluminium case;
- 1 receiver in an aluminium case;
- 2 pipe glands;
- assorted screws.



Overall dimensions
56 x 142 x 63

PAIR OF PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE, RANGE 15 m

CDR973AX

PAIR OF CLASS 3 PHOTOELECTRIC CELLS

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 90° and vertically through plus or minus 30° with respect to the standard installation position. Double-relay with serial exchange.

It is possible to connect up to 3 pairs of photocells and synchronize the transmission (multiplex system).



PAIR OF FLUSH-FITTING PHOTOELECTRIC CELLS, RANGE 15 m

CDR973IX

The kit contains:

- 1 projector;
- 1 receiver;
- 2 embedding cases;
- 2 lens covers for flush-fitting photoelectric cells;
- assorted screws and gaskets.



Overall dimensions
50 x 90 x 60

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 15 m

CDR973EX

The kit contains:

- 1 projector;
- 1 receiver;
- 2 lens covers for surface-mount photoelectric cells;
- 2 fast-fitting wall brackets;
- assorted screws and gaskets.



Overall dimensions
50 x 90 x 60

CLASS 3

The CDR973 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 MODULATED BARRIERS WITH ADJUSTABLE LENSES

POWER SUPPLY 12/24 Vac-dc

MAXIMUM RANGE 60 METRES

OPERATING TEMPERATURE RANGE -10..+55 °C

CDR 841 shock-proof, plastic case IP55 for flush-fitting and surface mounting. Maximum range 15 m.

CDR 851 shock-proof, plastic case IP55 for surface mounting. Maximum range 60 m.

CDR 842A anti-tamper aluminium case IP66. Maximum range 15 m.

CDR 852A anti-tamper aluminium case IP66. Maximum range 60 m.

CDR851

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.

Self-locking adjustable lens which can be rotated horizontally through 90° 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 as required by the local standards and regulations in force.

The device is extremely easy to install both for the surface-mounting version as well as for the embedding version.

The vast range of available models meets all possible system requirements:



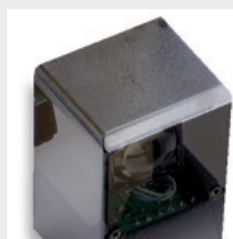
ADJUSTABLE LENS



SENSITIVITY ADJUSTMENT
TRIMMER



SURFACE-MOUNT ALUMINIUM
CASE IP66



SURFACE-MOUNT VERSION



FLUSH-FITTING VERSION

PRODUCT DESCRIPTION

ORDER NR.

PAIR OF PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE CDR842A-852A

Range 15 m - 60 m

Power supply 12/24 Vac-dc

Protection grade IP66

Transmitter and receiver housed in a waterproof plastic case.

Self locking adjustable lens which can be rotated horizontally through 90° and vertically through plus or minus 30° with respect to the standard installation position.

Double-relay with serial exchange.

Sensitivity adjustment trimmer located on the receiver (only CDR852A).

The kit contains:

- 1 projector in an aluminium box;
- 1 receiver in an aluminium box;
- 2 pipe glands;
- assorted screws.



Overall dimensions
56 x 142 x 63

PAIR OF PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE, RANGE 15 m

CDR842A

PAIR OF PHOTOELECTRIC CELLS IN AN ALUMINIUM CASE, RANGE 60 m

CDR852A

PAIR OF PHOTOELECTRIC CELLS CDR841-851

Range 15 m - 60 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 90° and vertically through plus or minus 30° with respect to the standard installation position.

Double-relay with serial exchange.

Sensitivity adjustment trimmer located on the receiver (only CDR851).



PAIR OF FLUSH-FITTING PHOTOELECTRIC CELLS, RANGE MAX. 15 m

CDR841I00

The kit contains:

- 1 projector;
- 1 receiver;
- 2 embedding cases;
- 2 lens covers for flush-fitting photoelectric cells;
- assorted screws and gaskets.



Overall dimensions
50 x 90 x 60

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 15 m

CDR841E00

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

CDR851

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

CDR851T

Anti-tamper version.

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE MAX. 60 m

CDR851R

Delayed version - 5 s not adjustable

The kits contain:

- 1 projector;
- 1 receiver;
- 2 lens covers for surface-mount photoelectric cells;
- 2 fast-fitting wall brackets;
- assorted screws and gaskets.



Overall dimensions
50 x 90 x 60



INFRARED MODULATED BARRIERS WITH ADJUSTABLE LENSES

CLASS 3
POWER SUPPLY 12/24 Vac-dc
MAXIMUM RANGE 10 METRES
PROTECTION GRADE IP55
OPERATING TEMPERATURE RANGE -10..+55 °C

CDR999 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 management of both the transmitter part as well as the receiver part is carried out by means of a microcontroller, 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

Reception via demodulation and decoding of the protocol allowing the transmitter to be identified.

The possibility of connecting 3 devices in an array therefore multiplexing the transmission without interference. The selection is made by means of a two-way dip-switch located on both the transmitter and the receiver that allows you to connect the transmitters together via a two-way cable (synchronism); no ulterior connection is required for the receiver.

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 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: 50 x 90 x 40.

CDR999


PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS, RANGE 10 m
CDR999

The kit contains:

- 1 projector;
- 1 receiver;
- assorted gaskets;
- assorted screws.



ADJUSTABLE LENS



MULTIPLEX CONNECTION

POTENTIAL FREE OR 8,2 KΩ
CONTACT SELECTION

SHOCK-PROOF CONTAINER



RUBBER WALL-MOUNTING BASE



INFRARED MODULATED BARRIERS WITH FIXED 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

CDR861

The kit contains:

- 1 projector;
- 1 receiver;
- assorted gaskets;
- assorted screws.

HOLE COVERING BASE Ø60 mm

CDR861SUP



INFRARED BEAM GUIDE



POWER SUPPLY 0-12-24 Vac-dc



EXCHANGE CONTACT NC-NO-C



RUBBER WALL-MOUNTING BASE



SHOCK-PROOF CONTAINER



INFRARED MODULATED BARRIER WITH MINUTE OPTICAL SENSORS

CLASS 3
POWER SUPPLY 12/24 Vac-dc
RANGE FROM 1 TO 15 METRES
PROTECTION GRADE (SENSORS) IP55
**CONFORMS TO THE SAFETY DIRECTIVES EN12978 IN CATEGORY 3
OF THE EN ISO 13849-1 AND CATEGORY 2 OF THE EN61496-2**
CDR 892C3 Dual-beam multiplex infrared barrier.
FTR 893C3 Single-beam infrared barrier.
CDR 891 Single-beam infrared barrier mounted on a rail guide DIN 46277.

CDR892C3

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 microcontroller, 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

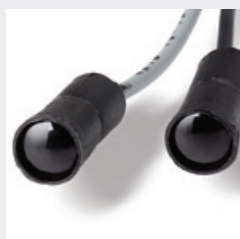
Infrared transmission by means of digital modulation of the carrier signal.

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 kΩ contacts).

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



SENSOR PROTECTION
GRADE IP55



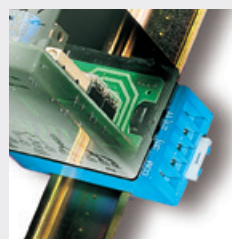
ANTI-TEMPER SENSORS



POWER SUPPLY 12/24 Vac-dc



MULTIPLEX SYSTEM



RAIL GUIDE SOCKET DIN 46277

PRODUCT DESCRIPTION
ORDER NR.
DUAL-BEAM MULTIPLEX INFRARED BARRIER IN CLASS 3

Overall dimensions 90 x 50 x 20

DOUBLE-RELAY PHOTOELECTRIC CELLS
CDR892C3

Power supply 12/24 Vac-dc

Range: 15 m indoors - 10 m outdoors

Transmitter cable 5 m - Receiver cable 3 m

DOUBLE-RELAY PHOTOELECTRIC CELLS
CDR892C3-1

Power supply 12/24 Vac-dc

Range: 15 m indoors - 10 m outdoors

Transmitter cable 10 m - Receiver cable 7 m

DOUBLE-RELAY PHOTOELECTRIC CELLS
CDR892C3-2

Power supply 12/24 Vac-dc

Range: 15 m indoors - 10 m outdoors

Transmitter cable 15 m - Receiver cable 10 m

SINGLE-BEAM INFRARED BARRIER CLASS 3

Overall dimensions 90 x 50 x 20

DOUBLE-RELAY PHOTOELECTRIC CELLS
FTR893C3

Power supply 12/24 Vac-dc

Range: 2,5 m indoors

Transmitter cable 4 m - Receiver cable 4 m

SINGLE-BEAM INFRARED BARRIER (APPLIANCE NOT IN CLASS 3)

with a socket for mounting on a rail guide DIN 46277.

Overall dimensions 60 x 45 x 117

DOUBLE-RELAY PHOTOELECTRIC CELLS
CDR891

Power supply 12/24 Vac-dc

Range: 8 m indoors - 6 m outdoors

Transmitter cable 5 m - Receiver cable 3 m

DOUBLE-RELAY PHOTOELECTRIC CELLS
CDR891-2

Power supply 12/24 Vac-dc

Range: 8 m indoors - 6 m outdoors

Transmitter cable 15 m - Receiver cable 10 m

SINGLE-RELAY PHOTOELECTRIC CELLS
CDR893

Power supply 10..24 Vac-dc

Range: 4 m indoors - 2 m outdoors

Transmitter cable 3 m - Receiver cable 3 m





WIRELESS SAFETY SYSTEM “ROLLING CODE”

CONFORMS TO THE SAFETY STANDARD EN12978

STATIONARY WIRELESS TRANSCEIVER SAFETY SYSTEM

SAFEDECX4 - 433 MHz “FM”

SAFEDECX8 - 868 MHz “FM”

TRANSCEIVER INTERFACE FOR SAFETY EDGES

SAFEPRC4 - 433 MHz “FM”

SAFEPRC8 - 868 MHz “FM”

PAIR OF WIRELESS PHOTOELECTRIC CELLS

SAFECDR4 - 433 MHz “FM”

SAFECDR8 - 868 MHz “FM”

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.

Note: The choice of operating frequency for the Radioshield system should be made after taking into consideration the operating frequency of the other appliances in the installation. **e.g.** If the command appliances work at a frequency of 433 MHz it is good practise to use safety devices that work at a frequency of 868 MHz and vice-versa.

RADIOSHIELD SYSTEM



COMBINED OPERATION
BATTERY - SOLAR PANEL



ADJUSTABLE LENS



CABLE GLANDS SUPPLIED WITH
THE APPLIANCE



STATIONARY TRANSCEIVER,
SAFETY OUTPUT MANAGEMENT
(NC/8,2kΩ)



8 RED SAFETY STATUS LEDS
8 GREEN BATTERY CHARGE LEDS

PRODUCT DESCRIPTION

ORDER NR.

WIRELESS SAFETY SYSTEM FOR SAFETY EDGES

3V lithium battery power supply.
Safety edge signal input NC/8.2kΩ
Maximum radio signal range 30 m
Container in shockproof plastic material IP65.

SAFETY EDGE TRANSCIEVER INTERFACE 433 MHZ

SAFEPRC4

SAFETY EDGE TRANSCIEVER INTERFACE 868 MHZ

SAFEPRC8

WIRELESS SAFETY SYSTEM WITH PHOTOELECTRIC CELLS

3V lithium battery power supply.
Maximum radio signal range 30 m
Infrared range:
12 m for internal installations;
10 m for external installations under all weather conditions such as thick fog, rain and dust etc.
Self-locking adjustable lens which can be rotated horizontally through 90° 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.

PAIR OF WIRELESS PHOTOELECTRIC CELLS 433 MHZ

SAFECDR4

PAIR OF WIRELESS PHOTOELECTRIC CELLS 868 MHZ

SAFECDR8

STATIONARY TRANSCIEVER UNIT FOR WIRELESS SAFETY SYSTEMS "ROLLING CODE"

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.

STATIONARY TRANSCIEVER UNIT 433 MHZ

SAFEDECX4

STATIONARY TRANSCIEVER UNIT 868 MHZ

SAFEDECX8

KIT SAFETY EDGE INTERFACE + STATIONARY UNIT 433 MHZ

SAFEKIT4

KIT SAFETY EDGE INTERFACE + STATIONARY UNIT 868 MHZ

SAFEKIT8

KIT PAIR OF PHOTOELECTRIC CELLS + STATIONARY UNIT 433 MHZ

SAFEKITCDR4

KIT PAIR OF PHOTOELECTRIC CELLS + STATIONARY UNIT 868 MHZ

SAFEKITCDR8

3V-LITHIUM BATTERY PACK

ZRA3.0-3.8-W



Overall dimensions
50 x 145 x 26



Overall dimensions
60 x 125 x 41



Overall dimensions
109 x 110 x 40





ELECTRONIC WARNING LIGHTS AND TRAFFIC LIGHT COMBINATIONS WITH LED TECHNOLOGY

SELECTABLE POWER SUPPLY 24 Vac-dc - 230 Vac
FIXED OR FLASHING LIGHT SELECTION JUMPER
PROTECTION GRADE IP55

LPBAR-YE Led warning light, yellow

LPBAR-OR Led warning light, orange

LPBAR-RE Led warning light, red

LPBAR-GR Led warning light, green

XLAMP Led warning light, yellow

LPBAR-YE

The electronic warning lights LPBAR and XLAMP are valid visual warning systems for the movement of automatic devices, built according to the safety standards in force and using LED technology. Both of them allow the on-board selection of the power supply 24Vdc or 230Vac via binding posts.

WARNING LIGHTS LPBAR

Suitable for fitting to all types of system, whether industrial or domestic, the principal characteristics of the LPBAR series are visibility, ease of installation, extremely reliable electronics and a pleasing design.

Visual warning system, flashing or not flashing, with one, two or three lights (traffic lights) suitable for use on automatic systems where it is necessary to communicate stop, wait and go signals.

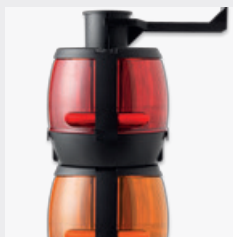
WARNING LIGHTS XLAMP

Suitable for fitting to all types of system, its compact size (see external dimensions) 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.

The printed circuit is housed in a watertight container (protection grade IP55), fitted with a fast-fitting base for both wall and column mounted installations.



MODULAR STRUCTURE



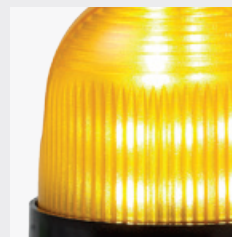
TRAFFIC LIGHT COMBINATIONS



LED FLASHING



WALL OR COLUMN MOUNTED



LED VISIBILITY

PRODUCT DESCRIPTION

ORDER NR.

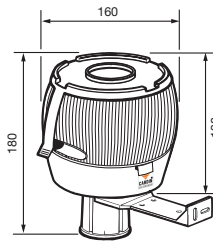
ELECTRONIC WARNING LIGHTS WITH LEDS

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

Duty cycle 70%

Fixed or flashing light selection jumper

Overall dimensions Ø160 x H180 mm



LED WARNING LIGHT, YELLOW

LPBAR-YE

LED WARNING LIGHT, ORANGE

LPBAR-OR

LED WARNING LIGHT, RED

LPBAR-RE

LED WARNING LIGHT, GREEN

LPBAR-GR



ELECTRONIC WARNING LIGHTS WITH LEDS

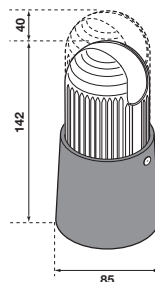
On-board selectable power supply 24 Vac-dc - 230 Vac

Duty cycle 70%

Fixed or flashing light selection jumper

Adjustable lamp cover

Overall dimensions Ø85 x H142-H182 mm



ELECTRONIC WARNING LIGHT WITH LEDS, YELLOW

LPXLAMP

ELECTRONIC WARNING LIGHT WITH LEDS, ORANGE

LPXLAMP-OR



TIMER-CONTROLLED ELECTRONIC WARNING LIGHT WITH LEDS

POWER SUPPLY 24Vac-dc / 230Vac

DOUBLE-LED ILLUMINATION

FLASH FREQUENCY 1 HzAerial

POWER INPUT 5W

PROTECTION GRADE IP54

MOLLIGHT is a highly efficient warning light, designed and manufactured by Cardin Elettronica that can be adapted to suit all possible situations. The luminous element is the heart of the appliance, well balanced electronics driving a lighting system made up of a highly efficient led and a special optical guide designed by Cardin.

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

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.

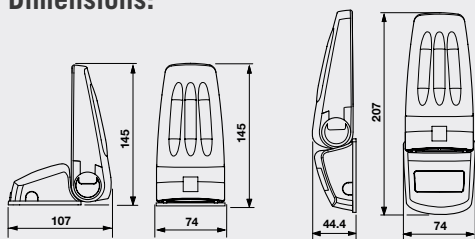
A solid base with its contact part in rubber allows the warning light to be installed on any structure and in any position and at the same time (thanks to the simple rotation between the body and the base) it may be fitted to a column or directly on a wall.

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.

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.

MOLLIGHT the warning light with LED technology “designed to be seen”.

Dimensions:



Wall mounting

Column mounting

MOLLIGHT



24V DOUBLE-LED WARNING LIGHT

MOLLIGHT3

230V DOUBLE-LED WARNING LIGHT

MOLLIGHT3X

DEDICATED AERIAL 433 MHZ

ANS400-MOL



from wall...



to ...



... column



SINGLE COIL METAL DETECTOR

POWER SUPPLY 24 Vac-dc / 230 Vac

8 SENSITIVITY SETTINGS

2 RELAYS IN OUTPUT:

- 1 impulsive
- 1 ON/OFF activation

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. Supplied with a din 46277 socket for rail or panel fitting.

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;
- a sensitive element (not supplied by us) that should be made up of a multipolar cable with one or more wires and must respect the measurements as specified in the drawings;
- a bipolar cable (not supplied by us) with which to connect the sensitive element to the detecting device. If you use two single-wire cables these should be loosely wound together.

Technical description

Version METALDEC230X - Power supply 230 Vac (50 - 60 Hz) 35 mA

Version METALDEC024X - Power supply 24 Vac/dc 100 mA

8 sensitivity settings

2 function modes:

- normal passage mode;
- rapid passage mode up to 100 km/h.

2 relays in output:

- the first is impulsive, with a N.O. contact
- the second is continuous, with an exchange contact N.O-N.C.

Contacts: 60VA/24W-30Vac/dc

Operating temperature range: -20°...+55 °C

Protection grade IP40

METALDEC



SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 24V)

METALDEC024X

SELF-CALIBRATING METAL DETECTOR (POWER SUPPLY 230V)

METALDEC230X



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



RELAY AND MEMORY MODULES, AERIALS AND BATTERIES

PRODUCT DESCRIPTION	ORDER NR.	
RELAY STRIPS		
STRIP (MORPHEUS - S504 - S508) WITH 1 PROGRAMMABLE RELAY	MCCMORPHMO	
The relay can be set on the receiver to one of the functions.		
STRIP WITH 1 IMPULSIVE RELAY (N.O. CONTACT)	MCC4491RO	
STRIP WITH 1 IMPULSIVE RELAY (N.C. CONTACT)	MCC4491RC	
The relay remains active while the channel button is kept pressed down.		
STRIP WITH 2 IMPULSIVE RELAYS (FOR S38 8-CHANNEL RECEIVERS)	MDC038200	
The relay remains active while the channel button is kept pressed down.		
STRIP WITH 1 ON-OFF RELAY (NOT COMPATIBLE WITH S449 AND S486)	MCC0381MO	
The relay is activated the first time the button is pressed and deactivated when the same button is pressed again.		
STRIP WITH 1 TIMER RELAY (NOT COMPATIBLE WITH S449 AND S486)	MCC0381TO	
The relay is activated for a pre-set time period from 1 to 120 seconds.		
NON VOLATILE MEMORY MODULES		
Extractable and furnished with non volatile memory, this EEPROM contains the system code.		
1000-CODE MEMORY MODULE (RECEIVERS S504D1-S508D1) - VERTICAL -	MCC24LC64	
32-CODE MEMORY MODULE (S435) - HORIZONTAL -	YMCC46320/0	
128-CODE MEMORY MODULE (S435) - HORIZONTAL -	YMCC66128/0	
128-CODE MEMORY MODULE (S435) - VERTICAL -	YMCC66128	
512-CODE MEMORY MODULE (S435 DISPLAY)	YMC24C16512-1	
300-CODE MEMORY MODULE (S449 - S486)	ZGB24LC16-I/P	
1000-TRANSMITTER MEMORY MODULE (MORPHEUS-S449D-S486D-S500)	ZGB24LC64-I/P	
3000-CODE MEMORY MODULE FOR 2G-3G-WIFI RECEIVER	ZGB24LC256-I/P	
SLOT-IN RECEIVER ADAPTOR	RSQSPP	
Allows you to use the AMP 10-way receiver card connector as a standard terminal block.		

ACCESSORIES

PRODUCT DESCRIPTION	ORDER NR.
AERIALS	
STYLUS AERIAL (FOR 27 MHz RECEIVERS)	ANQ727
AERIAL (FOR 433 MHz RECEIVERS)	ANS400
AERIAL (FOR 868 MHz RECEIVERS)	ANQ800-1
COAXIAL CABLE RG58 (PER METRE)	ZVCRG58
MOLLIGHT DEDICATED AERIAL (433 MHz)	ANS400-MOL
KIT AERIAL EXTENSION GSM WIFI 10 m SMA-M	ANSKITGSMWF10
KIT AERIAL EXTENSION GSM WIFI 5 m SMA-M	ANSKITGSMWF5
BATTERIES	
PENCIL BATTERY 12 V (MOD. "23 A")	XRP12
DRY BATTERY 9 V (MOD. "GLF22")	ZRP09
LITHIUM BATTERY 3 V (2 X CR2032)	XRP03
LITHIUM BATTERY KIT FOR SSB-T9K4 3V (2 X CR2032)	KITSSB-T9K4-1



COMPLETE MANAGEMENT SETS



SET PLUS PAGES 130-137

COMPACT AND ROBUST MECHANICAL OPERATORS FITTED WITH A 24V MOTOR. 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. MAXIMUM PERFORMANCE IS GAINED FROM THESE OPERATORS BY AN ELECTRONIC PROGRAMMER THAT IS FITTED WITH ALL THE COMPONENTS FOR A PERFECT INSTALLATION (RADIO RECEIVER CARD, BATTERY CHARGER AND BUFFER BATTERIES). THANKS TO AN ENCODER BASED SYSTEM IN-BUILT INTO THE OPERATOR THE POSITION OF THE GATE IS ACCURATELY CONTROLLED. THE MADE TO MEASURE WIRING BETWEEN THE PROGRAMMER AND THE OPERATORS IS SUPPLIED WITH THE KIT. RAPID INSTALLATION AND SET UP TIMES, MAXIMUM EFFICIENCY AND RELIABILITY FOR A TOP OF THE LINE "AUTOMATION SOLUTION".



SET INTEGRA PAGES 138-141

COMPACT AND ROBUST MECHANICAL OPERATORS FITTED WITH 24 VDC AND 230 VAC MOTORS. MADE FROM CAST ALUMINIUM AND SHOCKPROOF PLASTIC, THEY ARE PROTECTED BY WEATHERPROOF FINISHINGS THAT HAVE BEEN CARED FOR IN THE SMALLEST OF DETAILS. THE OPERATORS ARE MANAGED AND EXPLOITED TO THE MAXIMUM BY AN ELECTRONIC PROGRAMMER THAT IS FITTED WITH ALL THE EQUIPMENT REQUIRED TO INTERFACE THE ENTIRE RANGE OF CARDIN COMMAND AND CONTROL DEVICES.



ELETTRIO SET PAGES 142-144

ADVANTAGEOUS COMMERCIAL STRATEGY FOR THE USE OF HIGH QUALITY PROFESSIONAL PERIPHERAL APPLIANCES IN AUTOMATION INSTALLATIONS IN THE RESIDENTIAL SECTOR.





SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

A complete 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** (including a battery charger and NiMH batteries) and a slave unit powering the second hinged gate.

Use

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.

For gates with a maximum length of 2 m (2,5 m with a hinged arm and an electric lock), max. weight 200 kg.



SET 205/BL824ACB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL824MCB	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	200/BL824S	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	206/BL824ARM	STANDARD HINGED OPERATOR ARM in spray-painted cast aluminium	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	

SET 205/BL824DCB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL824MCB	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	200/BL824S	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	206/BL824DRM	STRAIGHT ARM WITH SLIDING GUIDE in spray-painted cast aluminium	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	



SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

A complete 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** and a slave unit powering the second hinged gate.

Use







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.

For gates with a maximum length of 2 m (2,5 m with a hinged arm and an electric lock), maximum weight 200 kg.









SET 205/BL824A



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL824M	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver.	
1	200/BL824S	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	206/BL824ARM	STANDARD HINGED OPERATOR ARM in spray-painted cast aluminium	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	

SET 205/BL824D



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL824M	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver	
1	200/BL824S	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	206/BL824DRM	STRAIGHT ARM WITH SLIDING GUIDE in spray-painted cast aluminium	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	



SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

A complete automatic device for large and medium size 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** (including a battery charger and NiMH batteries) and a slave unit powering the second hinged gate.







Use

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









SET 205/BL3924CSB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL3924CSB	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	200/BL3924SB	SELF-LOCKING SLAVE AUTOMATION driving the second gate.	
2	206/BL3924ARM	STANDARD HINGED OPERATOR ARM in spray-painted cast aluminium.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	

SET 205/BL3924CSD



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BL3924CSB	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	200/BL3924SB	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	206/BL3924DRM	STRAIGHT ARM WITH SLIDING GUIDE in spray-painted cast aluminium	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	



SELF-PROGRAMMING HINGED-ARM AUTOMATION FOR SWING-TO GATES

A complete 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** and a slave unit powering the second hinged gate.

Use







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.

For gates with a maximum length of 2 m (2,5 m with a hinged arm and an electric lock), max. weight 200 kg.



SET 205/BLTOW



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	200/BLTOW24M	SELF-LOCKING MASTER AUTOMATION WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver.	 
1	200/BLTOW24S	SELF-LOCKING SLAVE AUTOMATION driving the second gate	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE"	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	

A complete automatic device for large and medium size swing-to gates with one or 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** including a battery charger and NiMH batteries.

Use







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.



SET 205/BL1924PSW



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BL1924ASW	SELF-LOCKING HINGED-ARM OPERATOR WITH A 24 Vdc MOTOR controlled by encoder with die cast aluminium operator arms and self-lubricating joints.	
1	CC242ETOPCB	ELECTRONIC PROGRAMMER with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	 
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



SELF-PROGRAMMING WORM SCREW AUTOMATION FOR SWING-TO GATES

A complete automatic device 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** including a battery charger and NiMH batteries.

Use

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.

BLEGOS: for gates: maximum length 2 m, maximum weight 200 kg.

BL224E: for gates: maximum length 2,2 m, maximum weight 200 kg.



SET 205/BLEGOS



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BLEGOS	SELF-LOCKING ELECTROMECHANICAL RAM WITH A 24 Vdc MOTOR controlled by encoder.	
1	CC242EXTOPCB	ELECTRONIC PROGRAMMER with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	

SET 205/BL224EPSB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BL224E	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder.	
1	CC242EXTOPCB	ELECTRONIC PROGRAMMER with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



SELF-PROGRAMMING UNDERGROUND AUTOMATION FOR SWING-TO GATES

A complete automatic device 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** including a battery charger and NiMH batteries.

Use

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

For gates: maximum opening angle 110° - maximum length 3 m - maximum weight 350 kg.



SET 805/HL2524PSB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	800/HL2524ESB	ELECTROMECHANICAL SELF-LOCKING 24 Vdc GEARED MOTOR controlled by encoder.	
2	806/HLCF1	STEEL EMBEDDING CASE FOR 110° OPENING with a stainless steel cover.	
1	CC242EXTOPCB	ELECTRONIC PROGRAMMER with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CABPC10	10-METRE WIRING CABLE with end sleeves.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



SELF-PROGRAMMING CHAIN-GUIDED AUTOMATION FOR SECTIONAL DOORS

A complete automatic device for sectional doors, the system is made up of a propulsion unit with an incorporated electronic programmer and a chain driven guide.





Use

Suitable for large and medium size sectional doors.







SET 315/GL124EK9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	311/GL124EBSS	ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	320/GL124S30	CHAIN RETURN GUIDE length 3000 m.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE."	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	

SET 315/GL124EKE9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	311/GL124EBSS	ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	
1	320/GL124S35	CHAIN RETURN GUIDE length 3500 m.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE."	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



SELF-PROGRAMMING AUTOMATION (PINION H100) FOR SLIDING GATES

A complete automatic device for medium to small size sliding gates with an incorporated electronic programmer with a multi-decoding module **S449-S486-S504-S508** including a battery charger and NiMH batteries.

Use

Ideal for sliding gates in residential installations.
For gates: maximum weight 500 kg.



SET 105/SL524CBX



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	100/SL524CB	SELF-LOCKING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR controlled by encoder. Incorporated electronic programmer with a 433 MHz "FM" receiver, battery charger and NiMH batteries.	 
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	MOLLIGHT3	24V DOUBLE-LED TIMER-CONTROLLED WARNING LIGHT.	
1	ANS400-MOL	DEDICATED AERIAL 433 MHz.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



24V WORM SCREW AUTOMATION FOR SWING-TO GATES

A complete automatic device for swing-to gates with two gate leaves, the system is made up of two linear rams controlled by a separate programmer.

Use

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: maximum length 3 m, maximum weight 250 kg.



SET 205/BLA24SX9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BLA24S	24V SELF-LOCKING ELECTROMECHANICAL RAM, STANDARD VERSION with mechanical travel limits.	
1	PRG900CB	ELECTRONIC PROGRAMMER with travel management functions, complete with a 433 MHz "FM" receiver card, battery charger and NiMH batteries.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	

230V WORM SCREW AUTOMATION FOR SWING-TO GATES

A complete automatic device for swing-to gates with two gate leaves, the system is made up of two linear rams controlled by a separate programmer.

Use

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: maximum length 3 m, maximum weight 250 kg.



SET 205/BLA230SX9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BLA230S	230V SELF-LOCKING ELECTROMECHANICAL OPERATOR ARM, STANDARD VERSION with mechanical travel limits.	
1	PRG230M2	ELECTRONIC PROGRAMMER for two 230V motors with an interface for a standard slot-in radio receiver card Cardin.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	RSQ449200	2-CHANNEL SLOT-IN RECEIVER CARD 433 MHz "FM".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



230V HINGED ARM AUTOMATION FOR SWING-TO GATES

A complete automatic device for large and medium size swing-to gates with one or two gate leaves, the system is made up of two operator arms and a separate programmer.

Use

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.







SET 205/BL1920KS9

230V



150kg

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BL1920	SELF-LOCKING HINGED-ARM OPERATOR WITH A 230 Vac MOTOR controlled by encoder with die cast aluminium operator arms and self-lubricating joints.	
1	PRG230M2	ELECTRONIC PROGRAMMER for two 230V motors with an interface for a standard slot-in radio receiver card Cardin.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	RSQ449200	2-CHANNEL SLOT-IN RECEIVER CARD 433 MHz "FM".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



24V UNDERGROUND AUTOMATION FOR SWING-TO GATES

A complete automatic device 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.

Use

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

For gates: maximum opening angle 110° - maximum length 3 m - maximum weight 350 kg.



SET 805/HL2524KX9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	800/HL2524SB	ELECTROMECHANICAL SELF-LOCKING 24 Vdc GEARED MOTOR supplied with a 6 m connection cable.	
2	806/HLCF1	STEEL EMBEDDING CASE FOR 110° OPENING with a stainless steel cover.	
1	PRG900CB	ELECTRONIC PROGRAMMER with travel management functions, complete with a 433 MHz "FM" receiver card, battery charger and NiMH batteries.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	

230V UNDERGROUND AUTOMATION FOR SWING-TO GATES

A complete automatic device 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.

Use

Particularly suited for installations that do not allow column installations or where the automation has to be completely hidden. For gates: maximum opening angle 110° - maximum length 3 m - maximum weight 550 kg.



SET 805/HL251KS9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	800/HL251CL	ELECTROMECHANICAL SELF-LOCKING 230 Vac GEARED MOTOR supplied with a 6 m connection cable.	
2	806/HLCF1	STEEL EMBEDDING CASE FOR 110° OPENING with a stainless steel cover.	
1	PRG230M2	ELECTRONIC PROGRAMMER for two 230V motors with an interface for a standard slot-in radio receiver card Cardin.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	RSQ449200	2-CHANNEL SLOT-IN RECEIVER CARD 433 MHz "FM".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



24V CHAIN-GUIDED AUTOMATION FOR SECTIONAL DOORS

A complete automatic device for sectional doors, the system is made up of a propulsion unit with an incorporated electronic programmer and a thrust/drag chain guide.

Use

Suitable for medium size sectional doors with a maximum height of 3 m.



SET 315/GL1124K09



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	311/GL112409	ELECTROMECHANICAL UNIT WITH A 24 Vdc motor with electronic travel limits. Incorporated electronic programmer with a 433 MHz "FM" receiver card.	
1	320/GL1124S	ALUMINIUM CHAIN GUIDE length 3150 mm.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages	

24V AUTOMATION (PINION H100) FOR SLIDING GATES

A complete automatic device for medium to small size sliding gates with an incorporated electronic programmer.

Use

Ideal for sliding gates in residential installations.

For gates: maximum weight 400 kg.



SET 105/SL4024KM9



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	101/SL4024M9	SELF-LOCKING ELECTROMECHANICAL UNIT WITH A 24 Vdc MOTOR mechanical travel limits and an incorporated electronic programmer with a 433 MHz "FM" receiver.	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	SELMEC/E1	MECHANICAL SELECTOR SWITCH with open-close functions.	
1	LPXLAMP	24V LED WARNING LIGHT with an adjustable carter.	
1	/17000010	INTERNATIONAL WARNING SIGN in five languages.	



Advantageous commercial strategy for the use of high quality professional peripheral appliances in automation installations in the residential sector.

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S1



SET ELECRD-S1

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	LPXLAMP	24V LED WARNING LIGHT with an adjustable carter.	
1	ANS400	AERIAL FOR 433 MHz RECEIVERS.	

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S2



SET ELECRD-S2

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	LPXLAMP	24V LED WARNING LIGHT with an adjustable carter.	
1	SELMEC/E1	MECHANICAL SELECTOR SWITCH	
1	ANS400	AERIAL FOR 433 MHz RECEIVERS.	



Advantageous commercial strategy for the use of high quality professional peripheral appliances in automation installations in the residential sector.

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S3

SET ELECRD-S3



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	MOLLIGHT3	24V DOUBLE-LED TIMER-CONTROLLED WARNING LIGHT.	
1	ANS400-MOL	DEDICATED AERIAL 433 MHz.	

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S4

SET ELECRD-S4



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ449400	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	MOLLIGHT3	24V DOUBLE-LED TIMER-CONTROLLED WARNING LIGHT.	
1	SSB-T9K4	NUMERICAL CODE KEYPAD VIA RADIO	
1	ANS400-MOL	DEDICATED AERIAL 433 MHz.	



Advantageous commercial strategy for the use of high quality professional peripheral appliances in automation installations in the residential sector.

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S5



SET ELECRD-S5

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ504C4	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	MOLLIGHT3	24V DOUBLE-LED TIMER-CONTROLLED WARNING LIGHT.	
1	ANS400-MOL	DEDICATED AERIAL 433 MHz.	

PROFESSIONAL ELECTRONIC APPLIANCES ELECRD-S6



SET ELECRD-S6

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	TXQ504C4	4-CHANNEL TRANSMITTER 433 MHz "FM" "ROLLING CODE".	
1	CDR999	PAIR OF PHOTOELECTRIC CELLS IN CLASS 3.	
1	MOLLIGHT3	24V DOUBLE-LED TIMER-CONTROLLED WARNING LIGHT.	
1	SSB-504	NUMERICAL CODE KEYPAD VIA RADIO	
1	ANS400-MOL	DEDICATED AERIAL 433 MHz.	

Stand out
among
the waves



IN-BUILT AUTOMATION



BUILT-IN PRODUCTS FOR AUTOMATION

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.



BUILT-IN AUTOMATION FOR SWING-TO GATES

PAGES 148 - 151



BUILT-IN AUTOMATION FOR SLIDING GATES

PAGES 152 - 157





BUILT-IN AUTOMATION FOR SWING-TO GATES WITH A 24 Vdc ENCODER CONTROLLED MOTOR

Motor power supply 24 Vdc

Maximum gate weight 200 kg

Maximum opening angle 180°

The system consists of two geared motors with an incorporated encoder, an external, self-programming, electronic control unit, complete with batteries, battery charger and an incorporated radio receiver card. The geared motor is connected to the electronic programmer by means of a 6-wire cable.

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 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.

Above all it is the care taken over all the mechanical parts and the use of a perfectly dimensioned structure that give this product excellent performance characteristics under all weather conditions.

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.

Use

The gate leaf 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 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.

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 and electric lock enable etc.

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. The release system frees the gate by releasing the gears. This lets you obtain maximum mechanical efficiency during the automatic operating stages as well as permitting the activation of the manual release mechanism during emergencies.



CARTER IN SPRAY-PAINTED ALUMINIUM



DIAMETER Ø105



ROTATION ON BEARINGS







PROTECTION



SELF-PROGRAMMING MONITORED BY AN LCD GRAPHICS DISPLAY

INSIDE












BLi1000

ORDER NR.	PRODUCT DESCRIPTION	
200/BLi1000	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum length 2,5 m (2,5 m with an electric locking device), - maximum weight 200 kg.	
CC242EFAM	ELECTRONIC PROGRAMMER FOR TWO MOTORS + multi-decoding module S449 - S486 - S504 - S508	 
CC242EFAMCB	ELECTRONIC PROGRAMMER FOR TWO MOTORS + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
CABPC100ST	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 100 M supplied on a special spool.	

SET INSIDE



205/BLi1000

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
2	200/BLi1000	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 VDC MOTOR controlled by encoder. For gates: - maximum length 2,5 m (2,5 m with an electric locking device), - maximum weight 200 kg.	
1	CC242EFAMCB	ELECTRONIC PROGRAMMER FOR TWO MOTORS + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	 
<div>         </div> <div>SET 205/BLi1000</div>			

TECHNICAL DATA

OPERATOR ARM TECHNICAL DATA

Motor power supply	Vdc	24
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
Protection grade	IP	55
Operating temperature range	C°	-20 +55

ELECTRONIC PROGRAMMER TECHNICAL DATA

Power supply	Vac	230
Electrical input	A	1,2
Maximum power yield	W	250
Power output for 1 or 2 motors:	W	60 + 60

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868.3
Number of channels	Nr.	4
Number of functions	Nr.	7
Number of stored codes	Nr.	300 / 1000

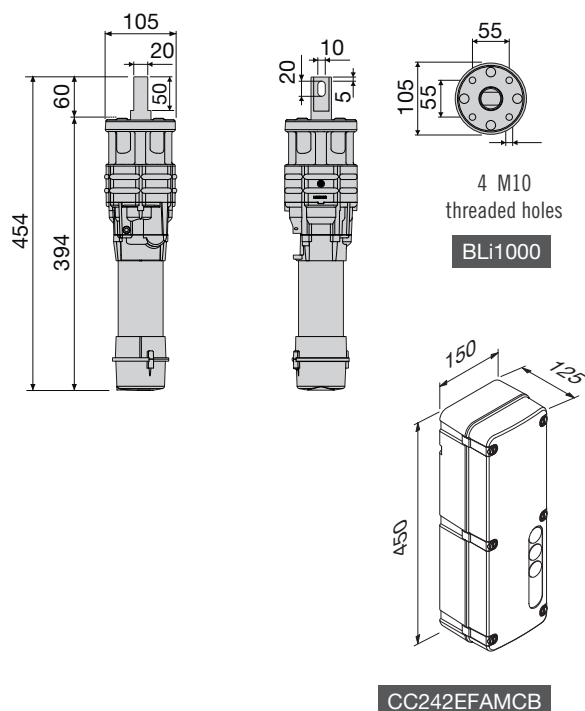
INSTALLATION EXAMPLE

LEGEND

- 1 Geared motor (left)
- 2 Geared motor (right)
- 3 Internal photocells
- 4 External photocells
- 5 Warning lights
- 6 Mechanical selector switch
- 7 Electric locking device
- 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

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.

OVERALL DIMENSIONS



INTEGRATED AUTOMATION

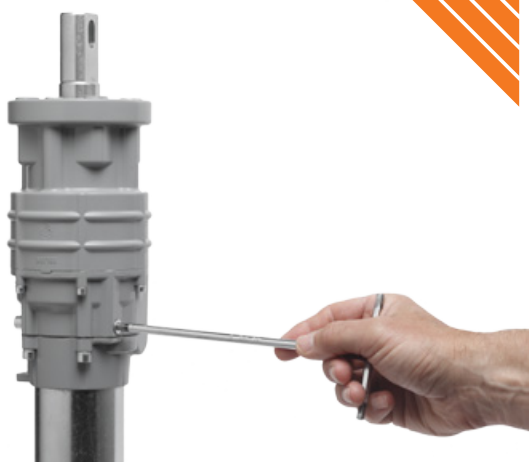
360° ROTATION ON BEARINGS



CARTER IN SPRAY-PAINTED ALUMINIUM

WATERTIGHT WIRING BOX

200/BLi1000



MANUAL RELEASE MECHANISM



CC242EFAMCB ELECTRONIC PROGRAMMER IP55 FOR 2 MOTORS
RF MODULE FOR REMOTE CONTROL (SYSTEM S449 - S486 - S504 - S508)
INTEGRATED RECEIVER CARD + BATTERY CHARGER + NIMH BATTERIES

DISCREET AND RELIABLE



BUILT-IN AUTOMATION FOR SLIDING GATES WITH A 24 Vdc ENCODER CONTROLLED MOTOR

Motor power supply 24 Vdc

Maximum gate weight 1000 kg

Drag speed 10,8 m/min.

The automation is made up of a robust encoder-controlled geared motor and an electronic control unit complete with emergency batteries, battery charger and incorporated radio control. The geared motor is connected to the electronics card by means of a six-wire, fast-fitting cable. 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 geared motor guarantees that the gate is locked in the closed position. 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 two versions with different motor power levels automation is suitable for driving sliding gates with up to a maximum weight of 1000 kg.

Use

The gate position is encoder controlled and self-programming allowing precision positioning and reducing installation times to a minimum.

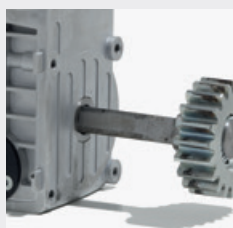
Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. If the motor release system has been activated a sensor positioned on the mechanical components will force the programmer to carry out automatic repositioning the next time a command is given.

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.

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 care that has been taken in the design and realisation of the mechanical parts, the select choice of materials and the use of high quality components has allowed us to offer two models with differing power outputs both of which give exceptional performance on traditional sliding gate systems as well as on-board sliding gate systems.



EXTRACTABLE PINION



MANUAL RELEASE








ENCODER CONTROL



BATTERY CHARGER AND
NiMH BATTERIES















SELF-PROGRAMMING MONITORED
BY AN LCD GRAPHICS DISPLAY






ORDER NR.	PRODUCT DESCRIPTION	
100/SLi924ELB	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 1000 kg.	
CC924EFAM	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508	
CC924EFAMCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
KBNIMH-1	KIT BATTERY CHARGER + NiMH BATTERIES Allows the programmer CC924EFAM to work during blackouts.	
CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	
CABPC100ST	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 100 m supplied on a special spool.	

SET INSIDE



105/SLi924ELB



PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	100/SLi924ELB	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 1000 kg.	
1	CC924EFAMCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
1	CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>			
SET 105/SLi924ELB			










ORDER NR.	PRODUCT DESCRIPTION	
100/SLi924ESB	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 700 kg.	
CC924EFAM	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508	
CC924EFAMCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
KBNIMH-1	KIT BATTERY CHARGER + NiMH BATTERIES Allows the programmer CC924EFAM to work during blackouts.	
CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	
CABPC100ST	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 100 m supplied on a special spool.	

SET INSIDE







105/SLi924ESB

PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	100/SLi924ESB	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 700 kg.	
1	CC924EFAMCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
1	CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	


SET 105/SLi924ESB

ORDER NR.	PRODUCT DESCRIPTION	
100/SLi824	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 300 kg.	
CC824EINT	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508	
CC824EINTCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
KBNiMH-1	KIT BATTERY CHARGER + NiMH BATTERIES Allows the programmer CC824EINT to work during blackouts.	
CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	
CABPC100ST	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 100 m supplied on a special spool.	

SET INSIDE



105/SLi824CB




PIECES	ORDER NR.	PRODUCT DESCRIPTION	
1	100/SLi824	SELF-LOCKING ELECTROMECHANICAL OPERATOR WITH A 24 Vdc MOTOR controlled by encoder. For gates: - maximum weight 300 kg.	
1	CC824EINTCB	ELECTRONIC PROGRAMMER FOR ONE MOTOR + multi-decoding module S449 - S486 - S504 - S508 + battery charger + NiMH batteries	
1	CABPC2	6-WIRE SPECIAL CONNECTING CABLE - LENGTH 2 m	
<div><div>24V</div><div></div><div>START STOP</div><div></div><div></div><div>NiMH + -</div><div>PIXEL 128 x 128</div><div></div><div>300kg</div><div>SET 105/SLi824CB</div></div>			

TECHNICAL DATA

MOTOR TECHNICAL DATA

		SLi924ELB	SLi924ESB	SLi824
Motor power supply	Vdc	24	24	24
Electrical input	A	8,5	6,5	6,5
Power input	W	200	160	150
Duty cycle	%	70	70	70
Drag speed	m/min	10,8	10,8	10,3
Maximum gate weight	kg	1000	700	300
Protection grade	IP	44	44	44
Operating temperature range	C°	-20 +55	-20 +55	-20 +55

ELECTRONIC PROGRAMMER TECHNICAL DATA

Power supply	Vac	230	230	230
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			

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92 / 868.3	433.92 / 868.3	433.92 / 868.3
Number of channels	Nr.	4	4	4
Number of functions	Nr.	6	6	6
Number of stored codes	Nr.	300 / 1000	300 / 1000	300 / 1000

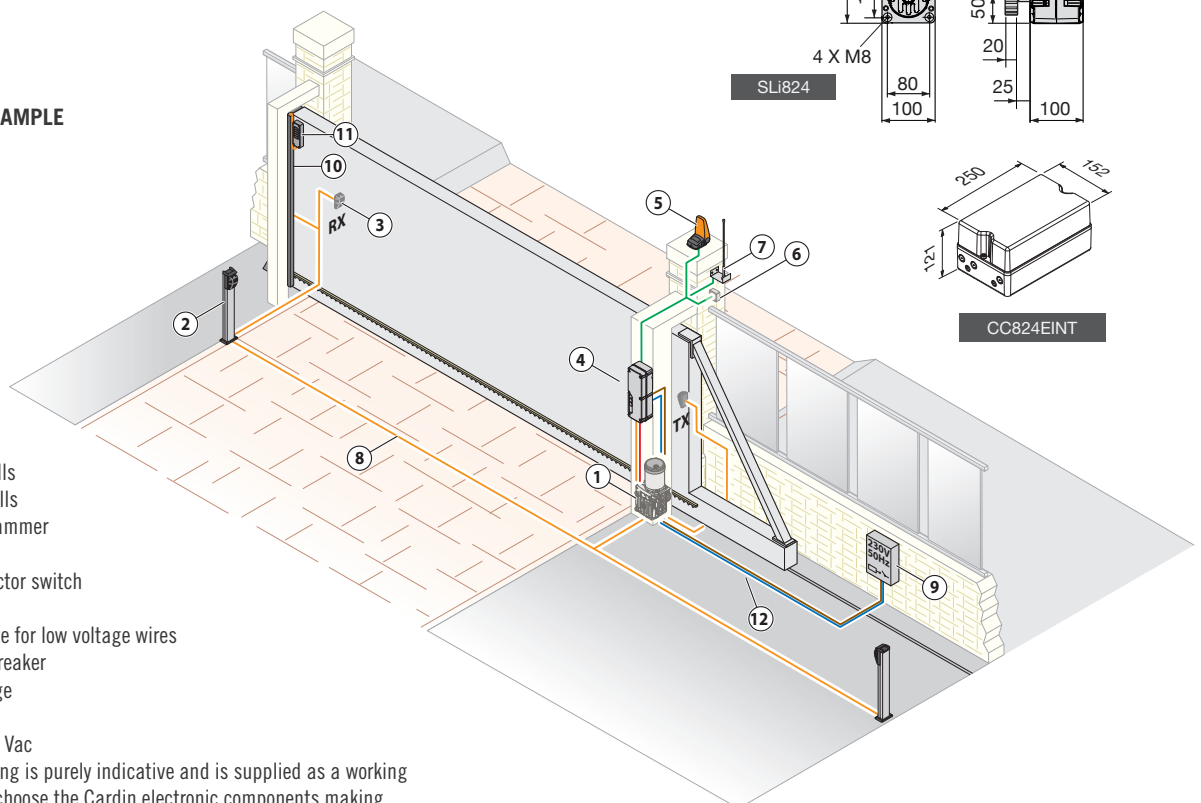
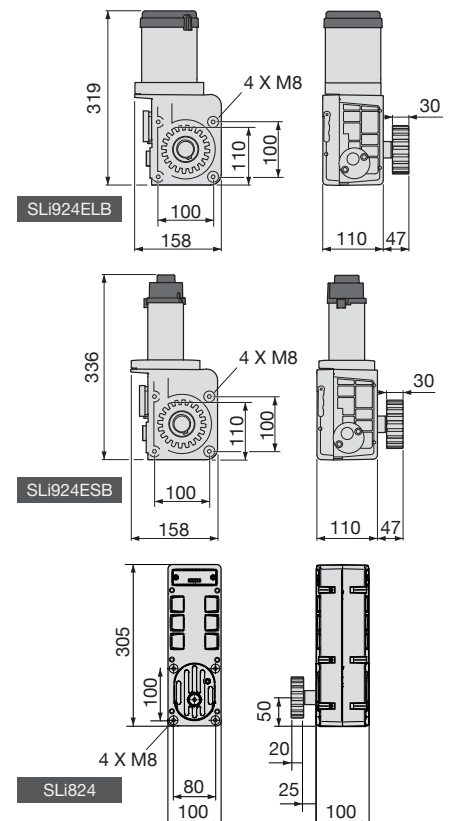
INSTALLATION EXAMPLE

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.

OVERALL DIMENSIONS



INTEGRATED AUTOMATION



DISCREET AND RELIABLE

CARDIN IDENTIFICATION ARTICLES



THE COMPANY TELLS ITS TALE.
FROM TIME TO TIME WE LIKE
TO TELL OUR STORY. WE DO IT
WITHOUT THRILLS, SAYING ONLY
WHAT IS NECESSARY.
OUR AMBITION IS FOR THE
PACKING TO ALREADY SAY
SOMETHING ABOUT THE
CONTENTS.
OUR ITALIAN TASTE ASKS US
TO SEDUCE THOSE WHO LOOK
AT US WITHOUT FORCING
THE SITUATION, WITHOUT
PROCLAMATION
WITHOUT STRONG WORDS. WE
WOULD LIKE TO PLACE OUR
CUSTOMER AT THE CENTRE OF
OUR WORLD JUST AS WE'D LIKE
HIM TO PLACE OUR PRODUCTS
AT THE CENTRE OF HIS.

IN EVERY PLACE AND IN EVERY
SITUATION WE PRESENT
OURSELVES COHERENTLY,
AND WE LIKE IT LIKE THAT:
ALWAYS BEING OURSELVES. THE
MATERIALS THAT HELP US TO TELL
OUR TALE ARE FEW AND HAVE THE
SAME AIRS.
WHEN WE MEET SOMEBODY WHO
WE HAVEN'T SEEN FOR SOME TIME
WE LIKE TO HERE "TIME GOES BY
BUT YOU NEVER LET US DOWN".
THROUGHOUT TIME THE COMPANY
HAS STAYED FAITHFUL TO THE
VALUES WITH WHICH IT WAS
FOUNDED,
TO THE SOLID THINGS TO WHICH
WE ASPIRE.



DESIGN & GRAPHICS - MADE IN CARDIN TEXT - PERSONALISED

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" NEON SIGNS

Dimensions: 40 x 40 x 10

TWO-FACED CEILING MOUNTED

PR001



TWO-FACED WALL MOUNTED

PR002



"CARDIN - SERVICE" ADHESIVE STICKERS

CARDIN ADHESIVE STICKERS 500 X 500 mm

PR003



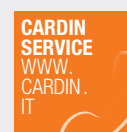
CARDIN ADHESIVE STICKERS 150 X 150 mm

PR004



CARDIN SERVICE ADHESIVE STICKERS 500 X 500 mm

PR005



CARDIN SERVICE ADHESIVE STICKERS 150 X 150 mm

PR008



PRODUCT DESCRIPTION

ORDER NR.

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



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



TABLES OF COMPARISON



AUTOMATION FOR SWING-TO GATES SERIES BL - HL

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AUTOMATION FOR SLIDING GATES SERIES SL

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AUTOMATION FOR COUNTERBALANCED DOORS SERIES GL

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AUTOMATION FOR SECTIONAL DOORS SERIES GL

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AUTOMATION WITH INTEGRATED ELECTRONICS

PAGES

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AUTOMATION WITH AN EXTERNAL PROGRAMMER

PAGE

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SELF-PROGRAMMING AUTOMATION WITH AN EXTERNAL PROGRAMMER

PAGE

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VENICE 2016

I CHOOSE CARDIN BECAUSE THEY ARE SUPERIOR
MARCO D'ANDREA - STEEL DESIGNER



Automation for swing-to gates series BL - HL

Table 1

A summary of the series and models with constraints based on gate length.

Automation Order nr.	Maximum opening angle (°)	maximum gate length (m)	maximum gate length with an electric lock (m)
200/BL824MCB	130°	2 m	2,5 m
200/BL3924CSB	130°	3,5 m	5 m
200/BL1924ASW	130°	2 m	
200/BL1920	130°	2 m	
200/BLTOW24	120°	2 m	2,5 m
200/BL224E	110°	2,2 m	
200/BLEGOS	110°	2 m	
200/BLESOL	110°	3 m	3,5 m
200/BLA24S	110°	3 m	
200/BLA24L	110°	4 m	5 m
200/BLA230S	110°	3 m	
200/BLA230L	110°	4,0 m	5 m
800/HL2524ESB	110°	3 m	
800/HL1824ESB	180°-360°	3 m	
800/HL2524SB	110°	3 m	
800/HL1824SB	180°-360°	3 m	
800/HL251CL	110°	3 m	
800/HL2518CL	180°-360°	3 m	

Table 2

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)
200/BL824MCB	24V - 50W	200 kg
200/BL3924CSB	24V - 50W	400 kg
200/BL1924ASW	24V - 60W	150 kg
200/BL1920	230V - 290W	150 kg
200/BLTOW24	24V - 50W	200 kg
200/BL224E	24V - 50W	200 kg
200/BLEGOS	24V - 60W	200 kg
200/BLESOL	24V - 60W	300 kg
200/BLA24S	24V - 60W	250 kg
200/BLA24L	24V - 60W	300 kg
200/BLA230S	230V - 370W	250 kg
200/BLA230L	230V - 370W	300 kg
800/HL2524ESB	24V - 60W	350 kg
800/HL1824ESB	24V - 60W	350 kg
800/HL2524SB	24V - 60W	350 kg
800/HL1824SB	24V - 60W	350 kg
800/HL251CL	230V - 470W	550 kg
800/HL2518CL	230V - 470W	550 kg

Automation for sliding gates series SL



Table 3

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)
100/SLX324	24V - 160W	8 m/min	3000 kg
100/SLX1524	24V - 130W	9,3 m/min	1500 kg
100/SL524CB	24V - 38W	9,2 m/min	500 kg
101/SL4024M9	24V - 38W	8,5 m/min	400 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	Maximum height of garage door	max. door surface area Master motor	max. door surface area Master + Slave motor
310/GLB249M	24V - 120W	2,7 m	11 m ²	13 m ²
310/GLB249S	24V - 120W	2,7 m	11 m ²	13 m ²
310/GL20AP09	230V - 350W	2,7 m	11 m ²	15 m ²
310/GL20AP08	230V - 50W	2,7 m	11 m ²	15 m ²
311/GL112409	24V - 110W	2,7 m	11 m ²	

Automation for sectional doors series GL



Table 5

A summary of the models with constraints based on the maximum height of the door.

Automation Order nr.	Chain guide Order nr.	Drag speed	maximum sectional door height (m)
311/GL124EBSS	+ 320/GL124S30	7 m/min	2,7 m
311/GL124EBSS	+ 320/GL124S35	7 m/min	3,2 m
311/GL124EBSS	+ 320/GL124S40	7 m/min	4,2 m
311/GL124EBSS	+ 320/GL124S60	7 m/min	5,7 m
311/GL112409	+ 320/GL1124S	5,4 m/min	3 m

AUTOMATION WITH INTEGRATED ELECTRONICS

MOTOR CONTROL	BL824	BL3924	BLTOW24	SLX324	SLX1524	SL524	SL4024M9	GLB249	GL20AP
For 1 motor									
For 2 motors								in parallel	in parallel
Motor power supply 230 Vac									
Motor power supply 24 Vdc									
Torque limitation (mechanical selection)									
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	SLX324	SLX1524	SL524	SL4024M9	GLB249	GL20AP
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	
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		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	
Opening button (TA)									
Limited opening button (TAL)									
Closing button (TC)									
Sequential command (TD)									
Mechanical travel limits									
Electronic travel limits (encoder)									

OUTPUTS	BL824	BL3924	BLTOW24	SLX324	SLX1524	SL524	SL4024M9	GLB249	GL20AP
Electric locking device	12 Vdc	12 Vdc	12 Vdc					selectable	12 Vac
Warning lights (not flashing)									
Warning lights (programmable)									
Low power supply warning lights	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vac	24 Vac	24 Vdc	24 Vac
Indicator led (not flashing)									
Indicator led (programmable)									
Travel limit status / photocells information									
Power supply controlled external devices	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	24 Vdc
Second radio channel	selectable	selectable	selectable	selectable	selectable				

RADIOCONTROL FUNCTIONS	BL824	BL3924	BLTOW24	SLX324	SLX1524	SL524	SL4024M9	GLB249	GL20AP
Incorporated S486 receiver (300 Codes)								GLB248	GL20AP08
Incorporated S449 receiver (300 Codes)								GLB249	GL20AP09
Multi-decoding S504-S508-S449-S486									
Buzzer									
Sequential function via radio									
Radio control function: programmable									

SPECIAL FUNCTIONS	BL824	BL3924	BLTOW24	SLX324	SLX1524	SL524	SL4024M9	GLB249	GL20A
1-digit display									
6-digit display									
LCD display									
Manoeuvre count display									
External control buttons									
Sequential function setting									
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		230 Vac	24 Vdc - 230 Vac	230 Vac
Real time clock									
Clock mode (On the TA input)									

AUTOMATION WITH INTEGRATED ELECTRONICS

MOTOR CONTROL	GL124EBSS	GL112409	ELDOM34	ELX3000	EL313C	EL413C	EL613	
For 1 motor								
For 2 motors								
Motor power supply 230 Vac								
Motor power supply 24 Vdc								
Torque limitation (mechanical selection)								
Torque limitation (electronic selection)								
Current-Sensor setting								
Deceleration setting								
Battery powered operation incorporated								
Optional battery powered operation				KBNIMH-1				

INPUTS	GL124EBSS	GL112409	ELDOM34	ELX3000	EL313C	EL413C	EL413C	
Inverting photocells (FI)			N.C./8.2 kΩ	N.C./8.2 kΩ				
Stop photocells (FS)	selectable		N.C./8.2 kΩ	N.C./8.2 kΩ				
Stop button (TB)			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				
Opening button (TA)			TA1 - TA2					
Limited opening button (TAL)								
Closing button (TC)			TC1 - TC2					
Sequential command (TD)								
Mechanical travel limits								
Electronic travel limits (encoder)								

OUTPUTS	GL124EBSS	GL112409	ELDOM34	ELX3000	EL313C	EL413C	EL413C	
Warning lights (not flashing)								
Warning lights (programmable)			via led					
Low power supply warning lights	24 Vdc	24 Vac	24 Vdc	24 Vdc	24Vac/230Vac	24Vac/230Vac	24Vac/230Vac	
Indicator led (not flashing)								
Indicator led (programmable)								
Info. travel limit status / photocells					optional with the card YPR302SR2			
Power supply controlled external devices	24 Vdc		24 Vdc	24 Vdc				
Power supply external devices	24 Vdc	24 Vac	24 Vdc	24 Vdc	24 Vac	24 Vac	24 Vac	
Second radio channel			selectable	selectable				

RADIOCONTROL FUNCTIONS	GL124EBSS	GL112409	ELDOM34	ELX3000	EL313C	EL413C	EL413C	
Slot-in radio card								
Incorporated S449 receiver (300 Codes)								
Multi-decoding S504-S508-S449-S486								
Buzzer								
Sequential function via radio								
Radio control function: programmable								
Stop function via radio					2-ch receiver	2-ch receiver	2-ch receiver	

SPECIAL FUNCTIONS	GL124EBSS	GL112409	ELDOM34	ELX3000	EL313C	EL413C	EL413C	
1-digit display								
6-digit display								
LCD display								
Manoeuvre count display								
External control buttons								
Sequential function setting								
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	230 Vac	selectable	selectable				
Clock mode (On the TA input)								

AUTOMATION WITH AN EXTERNAL PROGRAMMER

MOTOR CONTROL	PRG302E	PRG304E	PRG807001	PRG230M2	PRG3830CE	PRG3840CE	
For 1 motor							
For 2 motors							
Motor power supply 230 Vac							
Motor power supply 400 V3~							
Motor power supply 24 Vdc							
Torque limitation (mechanical selection)							
Torque limitation (electronic selection)							
Current-Sensor setting							
Deceleration setting							
Battery powered operation incorporated							
Optional battery powered operation							

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 led (not flashing)							
Indicator led (programmable)							
Info. travel limit status / photocells	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	
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	PRG384TCE	
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)							

SELF-PROGRAMMING AUTOMATION WITH AN EXTERNAL PROGRAMMER

MOTOR CONTROL	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB	CC824EINTCB	CC242EFAMCB
For 1 motor						
For 2 motors						
Motor power supply 230 Vac						
Motor power supply 400 V3~						
Motor power supply 24 Vdc						
Torque limitation (mechanical selection)						
Torque limitation (electronic)						
Current-Sensor setting						
Deceleration setting						
Battery powered operation incorporated						
Optional battery powered operation	PRG900	CC242ETOP		CC924EFAM	CC824EINT	CC242EFAM

INPUTS	PRG900CB	CC242ETOPCB	CC242EXTOPCB	CC924EFAMCB	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	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 led (not flashing)						
Indicator led (programmable)						
Info. travel limit status / photocells						
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	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	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)						

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