

AUTOMATION FOR GARAGE DOORS



GARAGE AUTOMATION FOR COUNTERBALANCED DOORS



CARDIN PRO SERIES GL

A complete automatic device suitable for moving all types of counterbalanced garage doors. The compact and solid form makes this product a versatile machine that may be used safely and efficiently on all types of counterbalanced garage doors.

The automation consists of a compact single-piece geared reduction unit (with an incorporated encoder and bilateral manual release system) and is fitted with a reduction system made from materials that allow maximum efficiency and minimum noise. All the components making up the device: geared motor, transformer, electronic programmer and batteries (optional) are mounted on a robust chassis made of shockproof plastic and are separated and protected by a double carter that completely covers all the moving parts and safely houses all the cables and wiring. The second removable cover allows access to all the setting and program functions in complete safety.

Internally, the carter contains the mechanism required to activate the manual release system and this allows the manoeuvre to be fluid and manageable under all working conditions whilst at the same time covering all possible manual release mechanisms installed by the door manufacturers: a handle directly installed on the geared motor, an external release cord or via a hexagonal key operated mechanism that is accessed through the door panel both to the right and to the left of the motor. The door position is encoder controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure. Repositioning takes place automatically whenever foreign objects get in the way of the door as it is moving.

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

Multi-decoding:

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

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



MANUAL RELEASE GLB249



REMOTE RELEASE RIGHT/LEFT



PROGRAMMER PROTECTION



SELF-PROGRAMMING



OPTIONAL NIMH BATTERIES

CARDIN PRO SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

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

Self-locking encoder-controlled Master automation with an in-built electronic programmer.

Operator arms are to be ordered separately.

Kit battery charger + batteries to be ordered separately.



GLB249M



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

Self-locking encoder-controlled Master automation with an in-built electronic programmer.

Operator arms are to be ordered separately.

Kit battery charger + batteries to be ordered separately.



GLB248M



ELECTROMECHANICAL UNIT WITH A 24V MOTOR

Self-locking slave automation.

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

Operator arm to be ordered separately.



GLB249S



CARDIN PRO SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

AXLE SHAFTS

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

GL0TG

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

GL0TG20



JOINTS FOR LATERAL MOTOR POSITIONING

GLOCGL



TELESCOPIC ARMS

Right curved telescopic arm.

GL03A

Left curved telescopic arm.

GL04A

Straight telescopic arm, 700mm.

GL02AD

Straight telescopic arm, 700mm (2 pcs.).

GL02AD2

Straight telescopic arm, 1000mm.

GL06A

Straight telescopic arm, 1000mm (2 pcs.).

GL06A2



SUPPORT BRACKET

Motor support extension bracket, 2000mm.

GL0PS2



EXTERNAL RELEASE CORD

Length 2000mm.

GL24SB



KIT BATTERY CHARGER + NIMH BATTERIES

Allows the GLB249M unit to work during blackouts.

KBNIMH-2



CABLE GLANDS Ø16mm

GLB24PC



CARDIN PRO SERIES GL



TECHNICAL DATA

MOTOR SPECIFICATIONS

		GLB249M-GLB248M
Motor power supply	Vdc	24
Nominal electrical input	A	2
Power input	W	100
Duty cycle	%	70
Gearred motor speed	revs/min	1,7
Maximum torque	Nm	170
Operating temperature range	°C	-20°...+55
Protection grade	IP	54

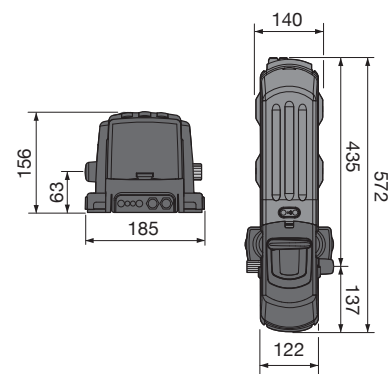
PROGRAMMER SPECIFICATIONS

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

BUILT-IN RECEIVER CARD

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

OVERALL DIMENSIONS

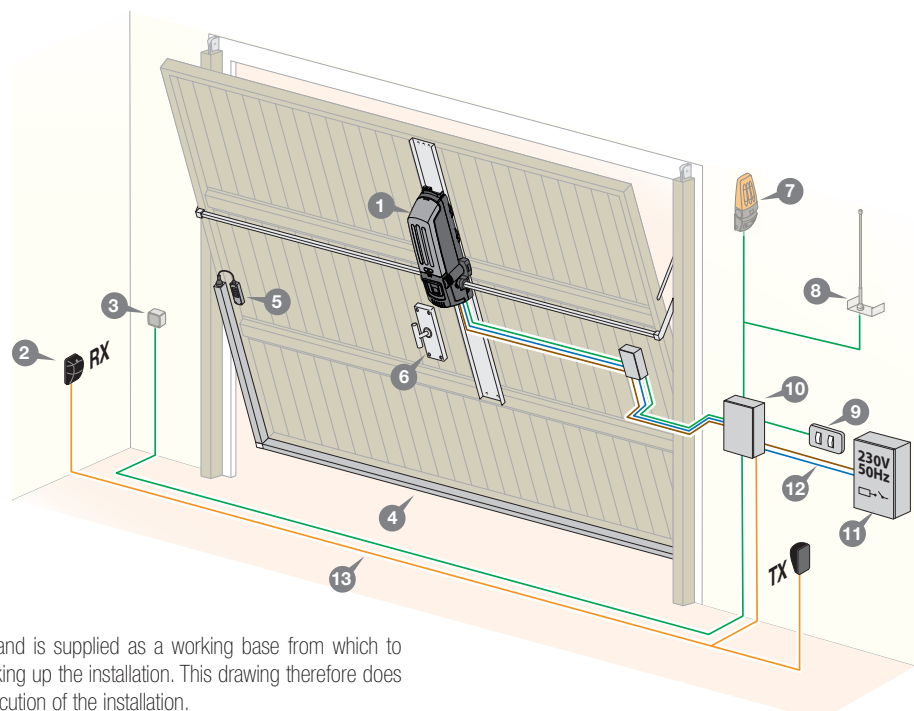


GLB249M - GLB248M

INSTALLATION EXAMPLE

LEGEND

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



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

GARAGE AUTOMATION FOR COUNTERBALANCED DOORS



CARDIN TRADE SERIES GL STAR

230V automatic device suitable for counterbalanced garage doors up to 10 m². For garage doors larger than 4 metres and for garage doors with an in-built pedestrian door (mounted laterally) a second slave motor is required.

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

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

The manual release system allows the manoeuvre to be fluid and manageable under all working conditions whilst at the same time covering all possible manual release mechanisms installed by the door manufacturers whether it be a handle fitted directly to the door or an external cord release system.

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

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

Open collector:

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



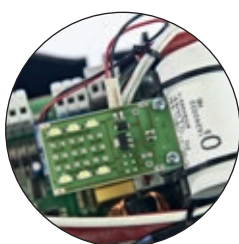
ADJUSTABLE SEQUENTIAL
COMMAND



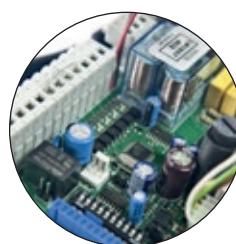
MANUAL RELEASE MECHANISM



LOW SPEED SHAFT PROTECTION



LED COURTESY LIGHTS



MASTER MOTOR
IN-BUILT ELECTRONICS

CARDIN TRADE SERIES GL



PRODUCT DESCRIPTION

ORDER NUMBER

SELF-LOCKING GARAGE DOOR MOTOR

with a 230V slave motor



GL STAR1E



SELF-LOCKING GARAGE DOOR MOTOR

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



GL STAR2E



SELF-LOCKING GARAGE DOOR MOTOR

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



GL STAR2AE



CARDIN TRADE SERIES GL



ACCESSORY DESCRIPTION

ORDER NUMBER

SUPPORT BRACKETS

in zinc-plated metal, 60cm.

SS60STARA

in zinc-plated metal, 200cm.

SS200STARA



ADJUSTABLE BRACKETS

Axle shaft supports.

SRSTAR



TRANSMISSION SHAFTS

20cm including support bracket.

AT20

150cm including support bracket.

AT150

200cm including support bracket.

AT200



TRANSMISSION ARMS

Two straight arms with round bushing for AT shafts.

BDB

One straight arm with grooved bushing for motor drive shaft.

BDBUS

Two curved arms with round bushing for AT shafts.

BCB



EXTERNAL RELEASE CORD KIT

with a personalised key for counterbalanced or sectional garage doors.

KSZEN



EXTERNAL RELEASE CORD KIT

to connect to the door handle.

KSE



LOCK

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

NOS



ELECTRONIC PROGRAMMER

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

S101B



TRAVEL LIMIT KIT

Travel limit switch kit and encoder for GL STAR1E.

FCGL STAR1E



CARDIN TRADE SERIES GL



TECHNICAL DATA

MOTOR SPECIFICATIONS

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

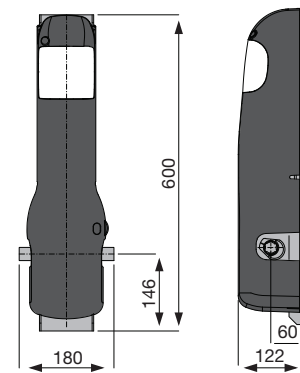
PROGRAMMER SPECIFICATIONS

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

OPTIONAL RECEIVER CARD

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

OVERALL DIMENSIONS

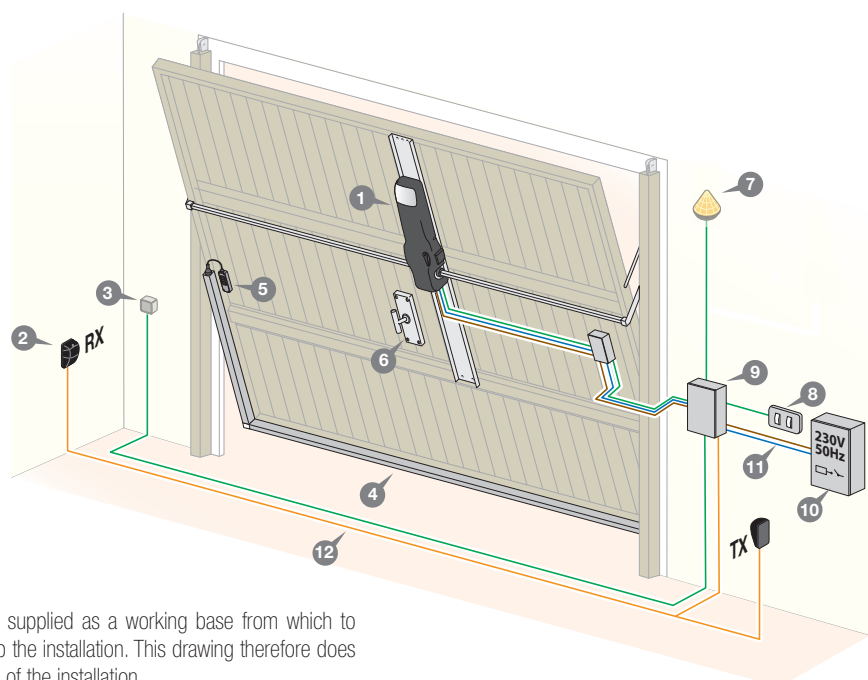


GL STAR1E - GL STAR2E - GL STAR2AE

INSTALLATION EXAMPLE

LEGEND

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



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