



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 anticorodal modular structure

Incorporated electronic programmer

CARDIN SERIES EL

Automatic devices characterised by high efficiency and complete performance.

They are impeccable in their movement, solidly built and their unique design make it a pleasure to look at them even when at rest.

The automation is 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 motor are mounted on a robust chassis.

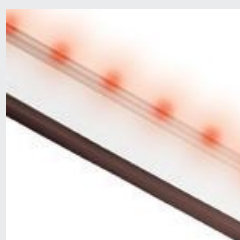
The incorporated electronic programmer is fitted with all the connections needed to carry out an automatic installation and comes complete with boom deceleration at the end of the opening and closing movement, an anti crush safety system and speed regulation (only 24V models).

The self-learning program drastically reduces installation times.

Manual release system protected by a lockable access door. The ELX3000 model also features an external key-activated manual release knob.



LED WARNING LIGHTS



LED BOOM LIGHTS



ALUMINIUM STRUCTURE



LED WARNING LIGHTS
INCORPORATED INTO THE MAIN
TRUNK OF THE ELX3000 BARRIER



SELF-PROGRAMMING

PRODUCT DESCRIPTION

ORDER NR.

ROAD BARRIER AUTOMATION WITH A 24 Vdc MOTOR

and mechanical travel limits.

Integral automation fitted with an electronic programmer.

S449 radio frequency module, battery charger and batteries.

The boom comes complete with a rubber safety edge and in-built warning leds and is available in two versions; 3 m and 4 m.

3 and 4 metre booms to be ordered apart.

AUTOMATION FOR 3/4 m BOOMS, YELLOW COLOURED

710/EL3424

AUTOMATION FOR 3/4 m BOOMS, GREY COLOURED

710/EL3424E



Opening times:

- 1,5 seconds with a three-metre boom;
- 2,5 seconds with a four-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

SELF-PROGRAMMING ROAD BARRIER AUTOMATION 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.





PRODUCT DESCRIPTION

ORDER NR.

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:

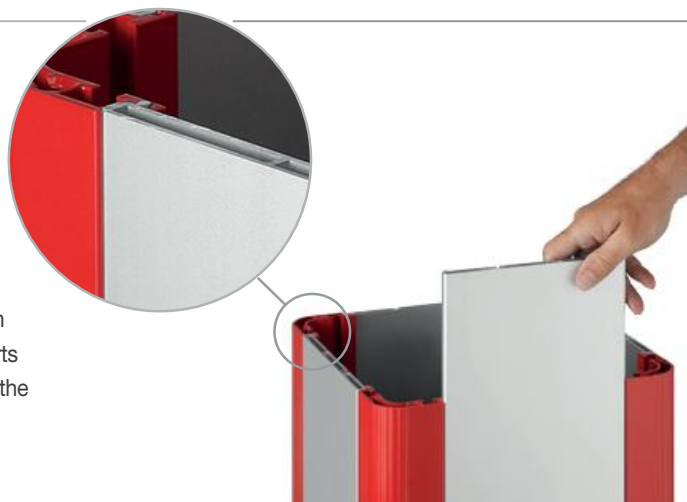
- when the boom is moving;
- when the boom is at rest.

Overall dimensions 109 x 110 x 40

BOOM LIGHT INTERFACE**SELINTLED****MODULAR CABINET
IN CAST ALUMINIUM**

The cabinet in cast aluminium with modular components is resistant to the effects of weathering throughout time even in environments where they are exposed to corrosives such as saline elements or smoke.

The modular nature of the cabinet allows the automation to be rapidly repaired by only replacing the damaged parts in case of impact damage instead of having to replace the entire structure.



PRODUCT DESCRIPTION	ORDER NR.
BOOMS	
Ø60 mm - 3 m BOOM in spray-painted extruded aluminium for ELX3000, complete with boom holder.	716/ELX3000A
Ø60 mm - 3 m MODULAR BOOM DIVIDED IN THREE 1-METRE PIECES in spray-painted extruded aluminium for ELX3000, complete with boom holder.	716/ELX3000A3
Ø60 mm - 3 m BOOM in spray-painted extruded aluminium for ELX3000, without boom holder.	716/ELX3000AT
Ø60 mm - 3 m MODULAR BOOM DIVIDED IN THREE 1-METRE PIECES in spray-painted extruded aluminium for ELX3000, without boom holder.	716/ELX3000AT3
EXTRUDED ALUMINIUM BOOM for EL313C, EL413C, EL3424 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, EL413C, EL3424 and EL613 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 EL3424, 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/EL324ASK1
BOOM HOLDERS	
FIXED ALUMINIUM SUPPORT FORK	716/ELFS1
FIXED ALUMINIUM SUPPORT FORK FOR ELX3000	716/ELXAF
MOBILE SUPPORT POLE 950 mm	716/ELSM
MOBILE SUPPORT POLE 1200 mm	716/ELSM12
FOLD-UP MESH IN ANODISED ALUMINIUM Available in lengths of 2 m.	
FOLD-UP MESH FOR 716/EL601	716/ELSA
FOLD-UP MESH FOR 716/EL420	716/ELSA4



ELFS1



ELXAF



ELSM

ELSM12





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.



ADHESIVE REFLECTIVE TAPE

716/ELSRE

Supplied in lots of 12 pieces.

Dimensions 250 x 45



TECHNICAL DATA

GENERAL CHARACTERISTICS

		EL3424 3m	EL3424 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	14	10	3,2
Opening time (90°)	s	1,5	2,5	5
Torque max.	Nm	157	109	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	3,2	3,2	1,5

INCORPORATED RECEIVER CARD

Reception frequency	MHz	433.92	433.92	433.92
Number of user codes	Nr.	300	300	300
Number of channels	Nr.	4	4	4
Number of functions	Nr.	1	1	5

BATTERY TYPE

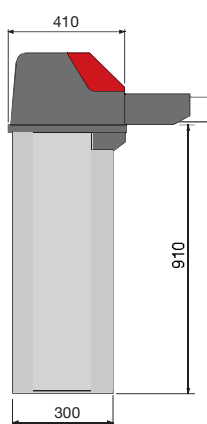
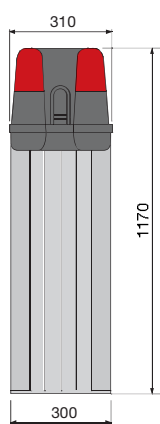
Model		Pb	Pb	NiMH
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GENERAL CHARACTERISTICS

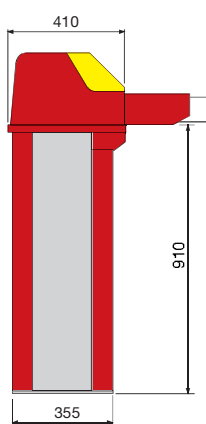
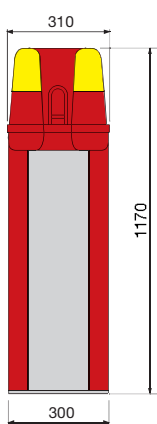
		710/EL313C	710/EL413C	710/EL613
Power supply	V	230	230	230
Frequency	Hz	50	50	50
Electrical input	A	2,7	2,7	2,7
Power input	W	600	600	600
Duty cycle	%	70	70	70
Torque max.	Nm	110	200	400
Shaft rotation speed	revs/min	10	5,5	2
Opening time (90°)	s	2	4	10
Capacitor	µF	20	20	20
Protection grade	IP	54	54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

OVERALL DIMENSIONS

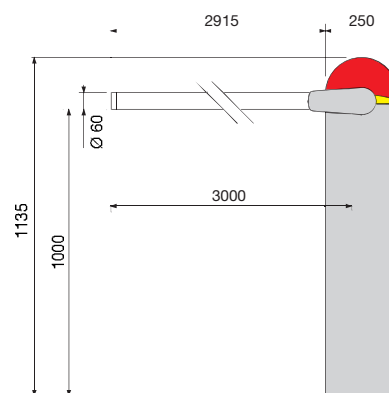
EL3424 - EL313C - EL413C



EL613



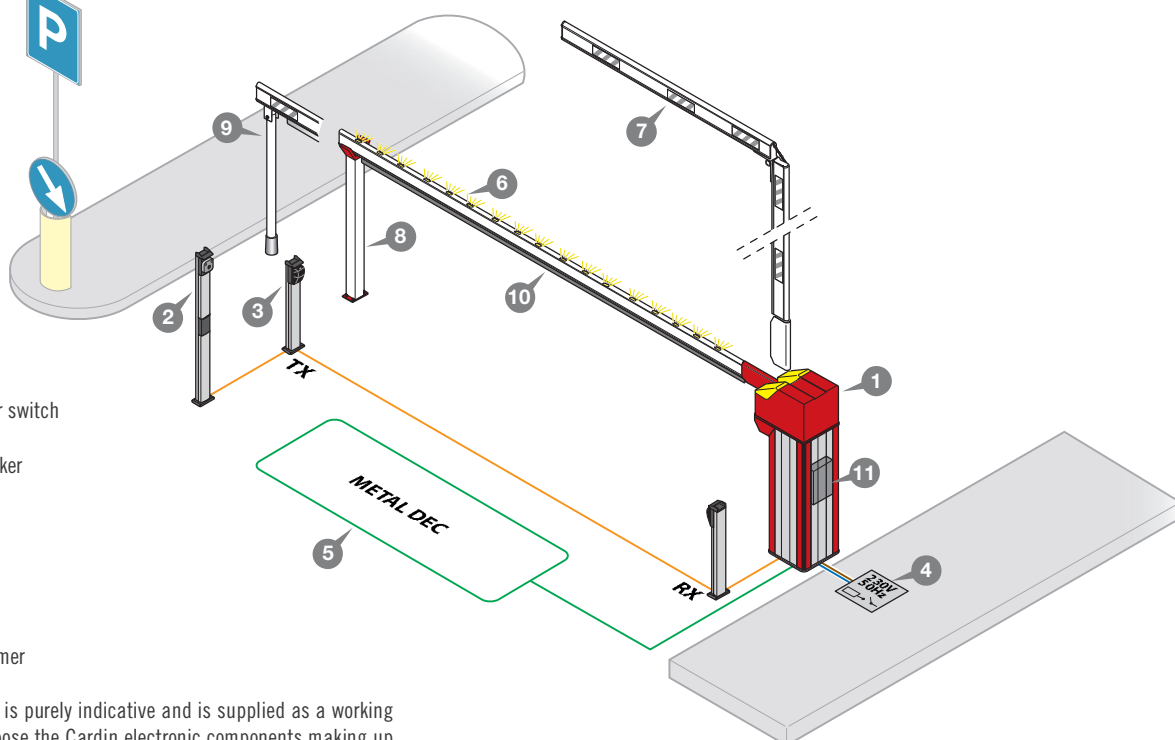
ELX3000



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 Articulated boom
- 8 Fixed support fork
- 9 Mobile support fork
- 10 Rubber profile
- 11 Electronic programmer



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.