INSIDE AUTOMATION
FOR SLIDING GATES
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CARDIN INSIDE SERIES SLi

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

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

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

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

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

The electronic components are housed in a shockproof plastic container IP55 and the appliance is factory fitted with a multi-decoding module (system S449 - S486 - SS04 - SS08), a battery charger and NiMH batteries which allow the gate to be manoeuvred even during blackouts.

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

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

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

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

See section 24V ECU INTERFACE DEVICES on page 186
SELF-LOCKING ELECTROMECHANICAL INSIDE OPERATOR
with a 24Vdc encoder controlled motor.
For gates up to 300kg.
Drag speed max. 10.5 m/min.

ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.
The electronic programmer is factory fitted with a graphic LCD display (16 digits x 2 lines) in six different languages that monitors the programming stages, counts and displays the number of manoeuvres carried out by the machine and allows you to rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, flashing warning lamp activation, indicator light and photoelectric cell function setting and transmitter code management etc.

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

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

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

ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508;
- battery charger and NiMH batteries.
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to counts and display the number of manoeuvres carried out by the machine and to rapidly set the system parameters. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). The events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.

ELECTRONIC PROGRAMMER FOR SLi724
Version with batteries and a battery charger.
ELECTRONIC PROGRAMMER FOR SLi724
Version without batteries or a battery charger.
ELECTRONIC PROGRAMMER FOR SLi1024
Version with batteries and a battery charger.
ELECTRONIC PROGRAMMER FOR SLi1024
Version without batteries or a battery charger.
SELF-LOCKING ELECTROMECHANICAL RAPID-ACTION INSIDE OPERATOR
with a 24Vdc encoder-controlled motor.
For gates up to 1000kg.
Adjustable drag speed up to 30 m/min.

ELECTRONIC PROGRAMMER FOR ONE MOTOR
including:
- 433MHz FM receiver;
- multi-decoding module S449-S486-S504-S508.
Enhanced programmer (400W) with thermal protection and cooling fan.
The electronic programmer is factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The menu allows you to count and display the number of manoeuvres carried out by the machine and to rapidly set the system parameters. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display). The events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel.

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

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

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

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

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

BLUETOOTH MODULE
The module allows the exchange of information between the motor’s electronic control unit and the Cardin 3GW interface via Bluetooth or directly between the control units and the apps CRD ONE and CRD TWO.
## Motor Specifications

<table>
<thead>
<tr>
<th></th>
<th>SLi324</th>
<th>SLi724</th>
<th>SLi1024</th>
<th>SLi24Draco</th>
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<tbody>
<tr>
<td>Motor power supply Vdc</td>
<td>24</td>
<td>24</td>
<td>24</td>
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<tr>
<td>Electrical input A</td>
<td>6,5</td>
<td>6,5</td>
<td>8,5</td>
<td>16</td>
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<tr>
<td>Power input W</td>
<td>150</td>
<td>160</td>
<td>200</td>
<td>380</td>
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<tr>
<td>Duty cycle %</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>50</td>
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<tr>
<td>Drag speed m/min</td>
<td>10,5</td>
<td>11</td>
<td>11</td>
<td>30</td>
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<tr>
<td>Maximum gate weight kg</td>
<td>300</td>
<td>700</td>
<td>1000</td>
<td>1000</td>
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<tr>
<td>Operating temperature range °C</td>
<td>-20°...+55</td>
<td>-20°...+55</td>
<td>-20°...+55</td>
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<tr>
<td>Protection grade IP</td>
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## ECU Characteristics

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<th>Vac 230</th>
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<tr>
<td>Nominal electrical input A</td>
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<tr>
<td>Maximum power yield W</td>
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<td>250</td>
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<tr>
<td>Protection grade IP</td>
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<td>55</td>
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<td>55</td>
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<td>Class II device</td>
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## Built-in Receiver Card

<table>
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<tr>
<th></th>
<th>MHz 433.92 / 868,3</th>
<th>433.92 / 868,3</th>
<th>433.92 / 868,3</th>
<th>433.92 / 868,3</th>
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</thead>
<tbody>
<tr>
<td>Number of channels / number of functions No</td>
<td>4 / 6</td>
<td>4 / 8</td>
<td>4 / 8</td>
<td>4 / 8</td>
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<tr>
<td>Number of stored codes No</td>
<td>300 / 1000</td>
<td>300 / 1000</td>
<td>300 / 1000</td>
<td>300 / 1000</td>
</tr>
</tbody>
</table>

## 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 230Vac

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

**KT-SLi324CB**

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

**SLi324**

300 kg

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

**CC824EINTCB**

**CABPC2**

**KT-SLi724CB**

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

**SLi724**

700 kg

(drag speed max. 11 m/min)

**CC924EFAMCBS**

**CABPC2**

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

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

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

**7-WIRE SPECIAL CONNECTING CABLE (2m)**
INSIDE KITS FOR SLIDING GATES

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

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

7-WIRE SPECIAL CONNECTING CABLE (2m)

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KT-SLi1024CB

SLi1024

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

1000 kg
(drag speed max. 11 m/min)

CC924EFAMCB

128 PIX

CABPC2

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KT-SLi24DRACO

SLi24DRACO

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

1000 kg
(adjustable drag speed up to 30 m/min)

CCDRAC024E

128 PIX

CABPC2D

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

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

7-WIRE SPECIAL CONNECTING CABLE (2m)