INSIDE AUTOMATION FOR SWING GATES
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CARDIN INSIDE
SERIES BLi

Cardin inside identifies a line of products dedicated to the manufacturers of mass produced industrial gates and doors.

The Cardin inside devices are designed to be easily integrated into specially made structures. Integrating the automation device into the structure of the gate or door allows you to complete the automatic door while still in the factory, thus allowing the manufacturer to supply a complete product that has already been tested and complies with the machine directive.

This device has been created to be integrated into the structure of specially made hinged gates, either into the gate’s upright (direct transmission) or into the gate support column (transmission to the gate leaf via a pinion or pulley).

The geared motor is self-locking and is fitted with a direct action hexagonal Allen key system.

The geared motor components are enclosed in a robust structure in spray painted pressed aluminium with a high performance, robust, permanently lubricated two-stage epicyclic reduction unit connected to an efficient low voltage motor that allows silent running.

The operator is suitable for driving hinged gates up to 2.0 m in length and 200 kg in weight per gate leaf. For gates longer than 2.5 m an electric lock must be fitted.

The geared motor is made self-locking (on both gate leaves) by the use on an integrated electromagnetic lock which blocks the gate in the closed position.
SELF-LOCKING BUILD-IN OPERATOR
with a 24Vdc encoder controlled motor.
For gates max. 200kg.

ELECTRONIC PROGRAMMER FOR TWO MOTORS
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 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 TWO MOTORS
Version with a battery charger and batteries.

ELECTRONIC PROGRAMMER FOR TWO MOTORS
Version without a battery charger and batteries.

KIT BATTERY CHARGER + NIMH BATTERIES
Allows the programmer CC242EFAM to work during blackouts.

6-WIRE SPECIAL CONNECTING CABLE
100m (supplied on a special spool).

For the electric locks see page 163.
**MOTOR SPECIFICATIONS**

- **Motor power supply**: Vdc 24
- **Nominal electrical input**: A 2
- **Power input**: W 50
- **Duty cycle**: % 70
- **Opening time 90°**: s 16
- **Maximum opening angle**: ° 180
- **Maximum gate weight**: kg 200
- **Maximum gate length**: m 2
- **Operating temperature range**: °C -20°...+55
- **Protection grade**: IP 55

**PROGRAMMER SPECIFICATIONS**

- **Power supply**: Vac 230
- **Nominal electrical input**: A 1.2
- **Maximum power yield**: W 250
- **Power output for 1 or 2 motors**: W 60 + 60

**BUILT-IN RECEIVER CARD**

- **Reception frequency**: MHz 433.92 / 868.3
- **Number of channels**: No 4
- **Number of functions**: No 8
- **Number of stored codes**: No 300 / 1000

**INSTALLATION EXAMPLE**

**LEGEND**

1. Geared motor (left)
2. Geared motor (right)
3. Internal photocells
4. External photocells
5. Warning lights
6. Mechanical selector switch
7. Electric lock
8. External aerial
9. All pole circuit breaker
10. Mains cable 230Vac
11. Channeling for Cardin connection cable CABPC10
12. Channeling route for low voltage wires
13. Electronic programmer
14. Lateral protective photocells
15. Opening direction stop buffers

**Attention:** The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.
The inside kit for swing gates with a maximum weight of 200kg contains two geared motors and an electronic control unit.

Special connection cable in a spool to be ordered separately.

The automation is encoder controlled by an external ECU factory fitted with a graphic LCD display (128 x 128 pixels) with backlighting in six different languages. The geared motors are connected to the electronics card by means of a six-wire, fast-fitting cable.

The electronic components are housed in a shockproof plastic container IP55 and the appliance is factory fitted with a multi-decoding module (system S449 - S486 - S504 - S508), a battery charger and NiMH 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.

2 SELF-LOCKING BUILD-IN OPERATORS
with an encoder-controlled 24Vdc motor for gates:
- maximum length 2m (2.5m with an electric lock);
- maximum weight 200kg.

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