



SELF-PROGRAMMING AUTOMATION FOR SLIDING GATES

WITH A 24 Vdc MOTOR



Mains power supply / Motor power supply
230 Vac / 24 Vdc

Electronic programmer
incorporated

Receiver card
incorporated

Buffer batteries
incorporated

Electronic travel limits
magnetic encoder

1500 kg

SL
CARDIN



SAFETY

AUTO PROG

ENCODER

SOFT

REMOTE

BATTERY

GOLD GUARANTEE

SL1524

SL1524

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, SL1524 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.

The automation is furnished both with buffer batteries, which allow the gate to be moved during blackouts, and with a safe and reliable manual manoeuvring system with a personalised key. An internal framework houses the completely integrated electronics and keeps them separated: electronics card with an incorporated battery charger and radio receiver card, toroidal transformer and buffer batteries.

The electronic and mechanical components are protected by a robust shock-proof carter which makes the automation system rust free and safe from the build up of soil and mud.

USE

USE

Electromechanical self-locking unit driven by a low voltage motor which is suitable for sliding gates of up to 1500 kg. The unit may be fitted both to the right as well as to the left of the passageway.

Installation is possible on any structure and is simplified by the motor alignment system and the spacious access area for wiring up the electrical components and adjusting the mechanical parts. Encoder controlled gate positioning with self-learning programming reduces installation times to a minimum.

Repositioning intervenes automatically whenever obstacles get in the way of the gate's course. The control carried out by the programmer is completed by the anticrush security device and the "soft stop" and "soft start" functions. The Electronic controller also features real time display of the programming stages as well as counting the number of manoeuvres carried out by the motor. Parameter setting is carried out via dip-switches.

framework in AL

manual release mechanism

integrated electronics

programming

buffer batteries



TECHNICAL DESCRIPTION

- 100/SL1524 Low voltage motor complete with an electronic programmer containing an S449 quartz receiver in "FM", buffer batteries with a battery charger and electronic encoder controlled travel limits.
- Mains power supply 230 Vac.
- Motor powered with a maximum voltage of 37 Vdc.
- Upper and lower cover in highly resistant shock-proof plastic.
- The reduction unit stator is made of die cast aluminium and contains a never ending screw and double reduction lubricated with permanently fluid grease.
- Irreversible reduction system with a key operated manual release mechanism.
- The incorporated electronic programmer contains the power stage, the logic control, battery charger and the radio receiver decoding module. The power supply is routed to the electronics card via a separate transformer which is housed in the same container and is connected to the card by Faston clips.
- The system is fitted with electronic deceleration control which reduces the stress caused by the gate inertia when it stops.

ACCESSORIES

- 106/SLOPC Toothed rack in glass fibre 20 mm x 30 mm with upper fastening slits (1 m)
- 106/SLOPC1 Toothed rack in glass fibre 20 mm x 30 mm with lower fastening slits (1 m)
- 106/SLOAC Toothed rack in galvanised steel 22 mm x 22 mm, (2 m pieces) to be welded.
- 106/SLOAC2 Toothed rack in galvanised steel 12 mm x 30 mm, (1 m pieces) with fastening slits.
- 950/XLBS Mechanical safety edge, from 1,5 to 3,0 m long x 70 mm high.

TECHNICAL SPECIFICATIONS

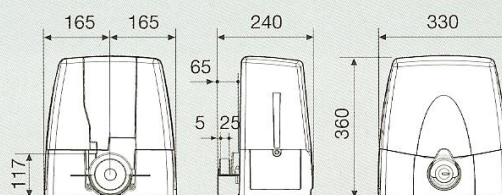
| | | |
|-----------------------------|-------|------------|
| Power supply | Vac | 230 |
| Frequency | Hz | 50 |
| Current input | A | 0,9 |
| Power input | W | 200 |
| Duty cycle | % | 70 |
| Drag speed | m/min | 9,3 |
| Maximum torque | Nm | 74 |
| Operating temperature range | °C | -20°...+55 |
| Protection grade | IP | 44 |

Motor data

| | | |
|-----------------------|-----|-----|
| Motor power supply | Vdc | 24 |
| Maximum power input | W | 130 |
| Nominal current input | A | 3,5 |

Incorporated receiver card

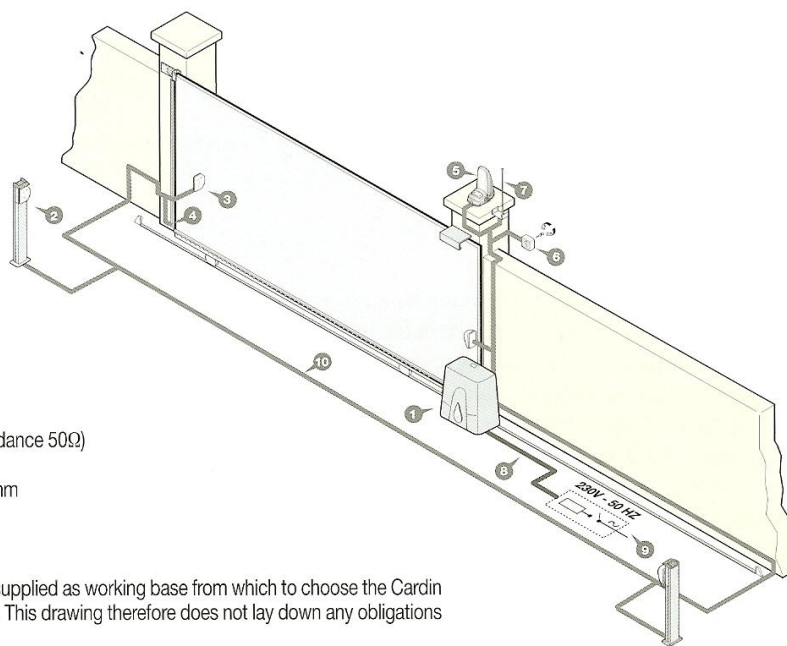
| | | |
|-----------------------------|-----|--------|
| Reception frequency | MHz | 433.92 |
| Number of channels | Nr. | 4 |
| Number of functions | Nr. | 2 |
| Number of memorisable codes | Nr. | 300 |



INSTALLATION EXAMPLE

LEGEND

- 1 Geared motor
- 2 Internal photocells
- 3 External photocells
- 4 Contact safety edge
- 5 Warning lights
- 6 Mechanical selector switch
- 7 External antenna (RG58 coaxial cable - impedance 50Ω)
- 8 Mains cable 230 Vac
- 9 All pole circuit breaker with a minimum of 3 mm between the contacts
- 10 Channelling route for low voltage wires



Attention: The drawing is purely indicative and is supplied as 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.