

# Signo

## For private, public and industrial car parks.

Electromechanical barrier gate operator with encoder.

### Powerful and quick:

electromechanical 24Vdc gear motor, 300W power and up to 250Nm torque. It opens up completely (90°) in just 1.8 seconds (Signo3), 3 seconds (Signo4), 6 seconds (Signo6). Models with a 230Vac or 110Vac power supply.

### Even more sophisticated and well-developed new control unit

The same for all models, it automatically recognises and memorises the Signo model on which it is installed thereby eliminating the first installation procedure. Signals that the power supply is correct when started and that the control unit is functioning correctly.

Automatic diagnosis of faults when operating: this new function, which takes place during the normal operation of the automation, makes an automatic diagnosis of the faults detected by the control unit and signals the various types through a combination of flashes.

**Intelligent:** the manoeuvre will invert automatically if the bar comes into contact with an obstacle.

The control unit automatically corrects any eventual lack of balance linked to variations in the climate or poor installation.

**Safe:** the innovative control unit utilises a revolutionary management system of the force, speed, acceleration and deceleration that can be **programmed at 6 levels**, at the beginning and at the end of the manoeuvre.

Programming is intuitive and completely automatic with the Nice Encoder technology: Simply push a button and Signo will comprehend the limit switch limits.

**Large openings:** a master/slave selection automatically synchronises two barriers set opposite one another. This means that entrances up to 8 and 12m can be automate.

**Convenient:** separate compartments for electronics and mechanics provide the user with easy access without damages to internal parts.

### Exclusive functions:

- The barrier will close immediately after the vehicle has passed through
- It has two types of traffic-light type signals
- There is an automatic safety test at the beginning of each manoeuvre
- Constant resistance STOP input for connecting the latest generation of sensitive edges
- There is a manoeuvre counter and it is possible to programme the maintenance alarm threshold

### Intensive use

The new, 24Vdc gear motor Signo can be used intensively for long periods of time. This characteristic makes it ideal for automating private, public or industrial car-parks which are subjected to the frequent passage of vehicles during the day.

Upper compartment: the electronics can be easily accessed from below the removable section of the cabinet

A large door for access to the lower compartment that contains the mechanical parts

Aluminium Nice release: user-friendly, effortless, sturdy

LED signalling lights

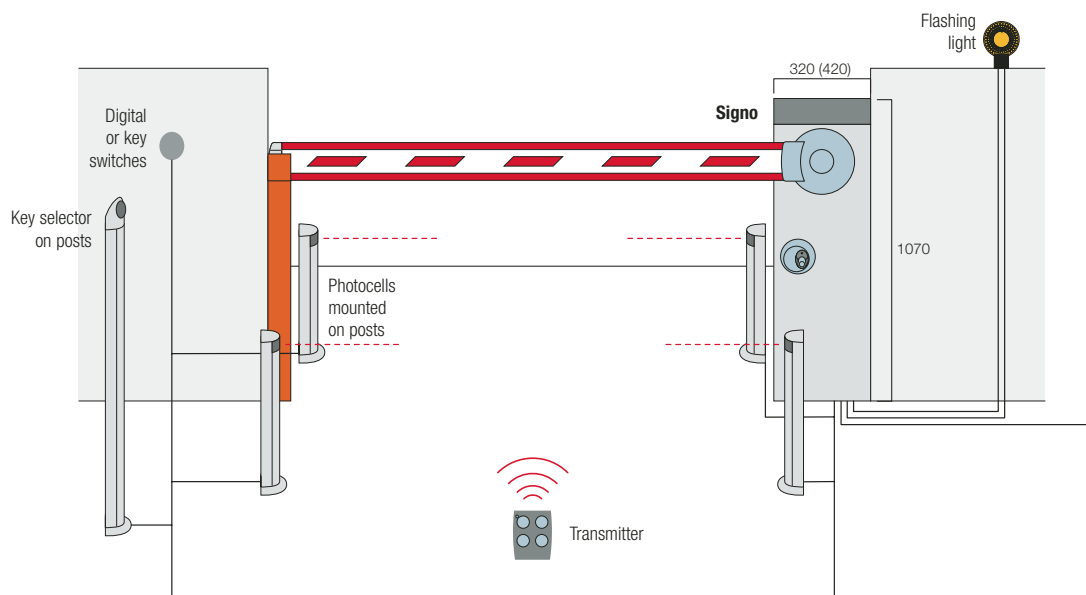


**SIGNO 3/SIGNO 4**



**SIGNO 6**

| Code           | Description  |
|----------------|--|
| <b>SIGNO3</b>  | for bars up to 3m, irreversible 230Vac, 24Vdc motor, with galvanised steel painted case, supplied base plate |
| <b>SIGNO3I</b> | for bars up to 3m, irreversible 230Vac, 24Vdc motor, with satin stainless steel case, supplied base plate    |
| <b>SIGNO4</b>  | for bars up to 4m, irreversible 230Vac, 24Vdc motor, with galvanised steel painted case, supplied base plate |
| <b>SIGNO4I</b> | for bars up to 4m, irreversible 230Vac, 24Vdc motor, with satin stainless steel case, supplied base plate    |
| <b>SIGNO6</b>  | for bars up to 6m, irreversible 230Vac, 24Vdc motor, with galvanised steel painted case, supplied base plate |
| <b>SIGNO6I</b> | for bars up to 6m, irreversible 230Vac, 24Vdc motor, with satin stainless steel case, supplied base plate    |



Approximate draft

| Technical specifications     | SIGN03<br>SIGN03I | SIGN04<br>SIGN04I | SIGN06<br>SIGN06I |
|------------------------------|-------------------|-------------------|-------------------|
| Power (Vac 50/60Hz)          |                   | 230               |                   |
| Emergency power supply       |                   | PS224             |                   |
| Power absorbed (W)           | 250               |                   | 300               |
| Current absorbed (line) (A)  | 1.1               |                   | 1.3               |
| Current absorbed (motor) (A) | 10                |                   | 12                |
| Protection level (IP)        |                   | 44                |                   |
| Reduction ratio              | 1/123             |                   | 1/241             |
| Torque (Nm)                  | 130               | 200               | 250               |
| Min. - max. opening time (s) | 1.8÷4             | 3÷6               | 6÷10              |
| Working temp. (°C Min/Max)   |                   | -20 ÷ +50         |                   |
| Work cycle (%)               |                   | 80                |                   |
| Dimensions (mm)              | 320x1070x320      |                   | 420x1070x340      |
| Weight (kg)                  | 50                |                   | 58                |
| Insulation class             |                   | 1                 |                   |

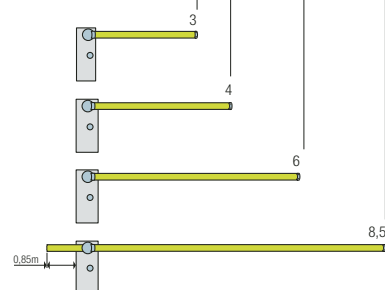
Utilisation limits

**SIGN06 / SIGN06I up to 8.5m**  
with WA24 (bar) without accessories, equipped with mobile stand, with limits to speed

**SIGN06 / SIGN06I up to 6m**  
bar with complete set of accessories with limits to speed

**SIGN04 / SIGN04I up to 4m**  
fully accessoried bar up to 3.75m

**SIGN03 / SIGN03I up to 3m**  
fully accessoried bar without rack and mobile stands, with limits to speed



Bar length (m)

*N.B. tubular aluminium bars don't need the use of accessories (only WA11).*

Nice recommends customers order products in pallets in order to facilitate storage and delivery, and ensure packs are uniform. The number of packs per single pallet has been specified for this reason.

# Signo accessories

## Accessories for SIGN03 / SIGN03I



**SIA1**  
anchorage base with clamps

Pc/pack 1



**SIA3**  
aluminium bar, painted white  
36x73x3250mm

Pc/pack 1



**WA2**  
8m pack of red shockproof  
rubber strip with caps  
to close SIA3 bar

Pc/pack 1



**WA25**  
pivoting connection for  
rectangular bars up to 4m

Pc/pack 1

## Accessories for SIGN04 / SIGN04I



**WA1**  
aluminium bar, painted white  
36x73x4250mm

Pc/pack 1



**WA2**  
8m pack of red shockproof  
rubber strip with caps  
to close WA1 bar

Pc/pack 1



**WA3**  
tubular aluminium bar,  
painted white Ø70x4250mm,  
suitable where there are  
strong winds. Only with WA11

Pc/pack 1



**WA4**  
connection for the WA3 bar

Pc/pack 1



**WA13**  
aluminium rack (2m)  
for WA1, WA21, WA22 bars

Pc/pack 1



**WA14**  
joint for rods WA1  
(from 1850mm to 2400mm)

Pc/pack 1



**SIA1**  
anchorage base with clamps

Pc/pack 1



**WA25**  
pivoting connection for  
rectangular bars up to 4m

Pc/pack 1

## Accessories for SIGN06 / SIGN06I



**WA21**  
aluminium bar, painted white  
36x94x6250mm

Pc/pack 1



**WA22**  
modular bar, plus joint  
painted white, 2 sections  
36x94x3125mm

Pc/pack 2



**WA6**  
pack 12m of red shockproof  
rubber strip with caps to  
close the bars WA21, WA22

Pc/pack 1



**WA24**  
tubular telescopic bar in  
white painted aluminium,  
max. length 8.5m, complete  
with mobile support WA12,  
counterweight and connector.  
6 meters overall length  
for transportation.  
See draft page 57

Pc/pack 1



**WA7**  
tubular aluminium bar,  
painted white Ø90x6250mm  
suitable where there are strong  
winds, only with WA11

Pc/pack 1

## Accessories for SIGN06 / SIGN06I



**WA8**  
connection for the WA7 bar

Pc/pack 1



**WA13**  
aluminium rack (2m)  
for WA1, WA21, WA22 bars

Pc/pack 1



**SIA2**  
anchorage base with clamps

Pc/pack 1

## Common accessories



**WA9**  
pack of 6 flashing signals,  
wired for WA1, WA21,  
WA22 bars

Pc/pack 6



**WA10**  
red adhesive reflector strips

Pc/pack 24



**WA11**  
adjustable stand for bars

Pc/pack 1



**WA12**  
mobile stand for bars

Pc/pack 1



**PS224**  
24Vdc buffer battery

Pc/pack 1



**SIA20**  
spare control unit

(see spare parts price-list)



**P0**  
support bracket

Pc/pack 4