HINGED ARM AUTOMATION FOR SWING GATES
A complete automatic device for swing gates with one or two gate leaves, the system is made up of a Master unit and a Slave unit powering the second hinged gate.

Installation is facilitated and the geared motor is well anchored by the special practical cast aluminium wall (or column) bracket predisposed for any type of fastening.

The compact and robust fastening bracket allows the automation to be fitted to very narrow columns. The extremely robust cast aluminium operator arms are fitted with joints for all applications and are able to drive hinged gates with different constructive characteristics.

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 rapidly set the system parameters including: the sequential button mode, automatic reclosing, warning lamp pre-flashing, intermittent warning lamp activation, indicator light and photoelectric cell function setting etc. The electronics card, thanks to the presence of the real-time clock, allows you to set 10 events (shown on the display) and these events permit you to regulate the opening and closing of the motor at different times during the day within 3 weekly time bands (Mon-Fri, Sat-Sun, Mon-Sun); the events can be enabled or disabled (during holiday periods) either from the menu or by means of a radio channel. Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

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

Multi-decoding:
The product range is factory fitted with a multi-decoding remote control module (system S449 - S486 - S504 - S508).

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
ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking Master unit including:
- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger;
- NiMH batteries.
Particularly suited for installations with narrow columns that require the mounting base to be less than 150mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2.5m with a hinged arm and an electric lock) 200kg maximum weight.
Manual release is carried out using the hexagonal key located inside the side panel.
Operator arm to be ordered separately.

BL824MCB

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking Slave unit.

BL824S

STANDARD HINGED OPERATOR ARM
in spray-painted cast aluminium.

BL824ARM

STRAIGHT ARM WITH SLIDING GUIDE
in spray-painted cast aluminium.

BL824DRM

1000mm GUIDE FOR SPECIAL OPENING REQUIREMENTS
in cast aluminium.
Lots of 2 pcs.

BL3924GU2

KIT BATTERY CHARGER + NIMH BATTERIES
Allows the BL824MCB unit to work during blackouts.

KBNIMH-3

10m CABLE
with end sleeves.

CABPC10

For the electric locks see page 163.
CARDIN PRO
SERIES BL

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking Master unit including:
- electronic programmer;
- 433MHz FM receiver;
- gate movement signalling via led (optional).
Kit battery charger + batteries to be ordered separately.
Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5m with an electric lock), 200kg maximum weight.
Manual release is carried out using a practical locking - unlocking lever protected by a security key.
Operator arm included.

FASTENING BASE
SPARE PARTS NUMBER 999750

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking slave unit with gate movement signalling via led (optional).
Operator arm included.

STRaight arm with sliding guide
in spray painted cast aluminium.

Kit battery charger + Nimh batteries
Allows the BLTOW24M unit to work during blackouts.

10m cable
with end sleeves.

LED lights
Gate movement signalling indicated by leds.

For the electric locks see page 163.
ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking Master unit (reversible in the version BL3924MRCB) including:
- electronic programmer;
- 433MHz FM receiver;
- slot-in battery charger;
- NiMH batteries.
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 3.5 metres in length (up to 5m with a hinged arm and an electric lock) 400kg maximum weight.
Manual release is carried out using the supplied hexagonal key after first unlocking and removing the covering cap.
Operator arm to be ordered separately.

ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Encoder-controlled self-locking slave unit (reversible in the version BL3924SR).

STANDARD HINGED OPERATOR ARM
in spray-painted cast aluminium.

HINGED OPERATOR ARM WITH JOINTS
in spray-painted cast aluminium for opening systems on slopes.

STRAIGHT ARM WITH SLIDING GUIDE
in spray-painted cast aluminium.

1000mm GUIDE FOR SPECIAL OPENING REQUIREMENTS
in spray-painted cast aluminium.
Lots of 2 pcs.

KIT BATTERY CHARGER + NIMH BATTERIES
Allows the BL3924MCB unit to work during blackouts.

10m CABLE
with end sleeves.
For the electric locks see page 163.
CARDO PRO

SERIES BL

LIMITS OF USE

BL824 + HINGED ARM BL824ARM

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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<th>α</th>
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</tbody>
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BL824ARM

BL824 + STRAIGHT ARM BL824DRM

the overall length of the straight arm = 740mm

<table>
<thead>
<tr>
<th>L</th>
<th>A</th>
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<td>75</td>
<td>80..250</td>
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<td>146</td>
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BL824DRM
CARDIN PRO
SERIES BL

LIMITS OF USE

BL3924 + HINGED ARM BL3924ARM - BL3924SRM

BL3924 + STRAIGHT ARM BL3924DRM

the overall length of the straight arm = 800mm
CARDIN PRO
SERIES BL

LIMITS OF USE

BLTOW24 + HINGED ARM

the overall length of the straight arm = 740mm

BLTOW24 + STRAIGHT ARM BLTS24DRM

the overall length of the straight arm = 740mm

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<th>C</th>
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<td>75</td>
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<td>1225</td>
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**OPERATOR ARM TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>BL824MCB</th>
<th>BLTOW24M</th>
<th>BL3924MCB/MRCB</th>
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<td>Vdc 24</td>
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<td>3</td>
<td>2</td>
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<tr>
<td>Power input</td>
<td>W 50</td>
<td>50</td>
<td>50</td>
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<tr>
<td>Duty cycle</td>
<td>% 70</td>
<td>70</td>
<td>70</td>
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<td>Opening time 90°</td>
<td>s 14 (12°)</td>
<td>13 (12°)</td>
<td>20 (16°)</td>
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<td>Maximum opening angle</td>
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<td>120</td>
<td>130</td>
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<tr>
<td>Maximum torque</td>
<td>Nm 270</td>
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* using a straight operator arm

**ELECTRONIC PROGRAMMER TECHNICAL DATA**

<table>
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<tr>
<th>Parameter</th>
<th>Vac 230</th>
<th>230</th>
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<tr>
<td>Maximum power yield</td>
<td>W 250</td>
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<td>Power output for 1 or 2 motors</td>
<td>W 60 + 60</td>
<td>60 + 60</td>
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<tr>
<td>Class II device</td>
<td>Cls</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BUILT IN RECEIVER CARD**

- Reception frequency: MHz 433.92 / 868,3 433.92 / 868,3 433.92 / 868,3
- Number of channels / number of functions: No 4 / 8 4 / 8 4 / 8
- Number of stored codes: No 300 / 1000 300 / 1000 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. Channelling for Cardin connection cable CABPC10
12. Channelling route for low voltage wires
13. Lateral protective photocells
14. 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.
HINGED ARM AUTOMATION FOR SWING GATES

CARDIN PRO SERIES BL

Self-locking electromechanical operators with 24V and 230V models suitable for fitting to single or double hinged gates with opening to the left or to the right of the passageway. Compact, robust and carefully designed, these appliances are the ideal solution for domestic automated gates with ultra wide columns even where the opening direction of the gate is contrary to the position of the motor. The finishing and high quality materials used guarantee one hundred percent resistance to atmospheric agents and the technical and design solutions characterises and heighten the quality standard.

The system is made up of one or two operator arms managed by an external Cardin electronic programmer housed in a shockproof and waterproof container.

The units do not feature on board electronics and we advise you to use a Cardin electronic programmer.

- PRG230M2 for 1 or 2 230V motors;
- CC242ETOPCB - CC242EXTOPCB for 1 or 2 24V motors;

On the 24V BL1924ASW model gate position is encoder-controlled and self-programming thus reducing installation times to a minimum and optimising the programming procedure.

Gate repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

On the 230V - BL1920 model gate positioning is controlled with mechanical travel limits.

Both versions are fitted with a key-operated manual release mechanism.

A powerful unit that blends into all backgrounds and gives your gate regular and silent movement.
RIGHT-HAND OPERATOR UNIT WITH A 24V MOTOR
LEFT-HAND OPERATOR UNIT WITH A 24V MOTOR
Self-locking encoder-controlled operator:
- operator arm included;
- ECU to be ordered separately.

RIGHT-HAND OPERATOR UNIT WITH A 230V MOTOR
LEFT-HAND OPERATOR UNIT WITH A 230V MOTOR
Self-locking operator with magnetic travel limits:
- operator arm included;
- ECU to be ordered separately.

Operational constraints:
for gates with a maximum length of 2m
maximum weight 150kg.

For the electric locks see page 163.
SELF-PROGRAMMING ELECTRONIC CONTROL UNIT
FOR BL1924ASW-BL1924LSW
Programmer for the management of two encoder-controlled motors.
Mains power supply 230Vac.
Motor power supply 24Vdc.
Maximum power yield 250W.
Fitted with a multi-decoding module S449-S486-S504-S508.
Compatible with the INTPRG-3G/WF system that allows the monitoring and
programming of system parameters from remote positions.
Batteries and a battery charger in the CC242ETOPCB and CC242EXTOPCB versions
For more information turn to page 172.

ELECTRONIC CONTROL UNIT
CC242ETOP

ECU, BATTERY CHARGER AND NiMH BATTERIES
CC242ETOPCB

ECU, BATTERY CHARGER AND NiMH BATTERIES
CC242EXTOPCB

KIT BATTERY CHARGER + NiMH BATTERIES
KBNIMH-1
Allows the CC242ETOP unit to work during blackouts.

10m CABLE
with end sleeves for BL1924ASW-BL1924LSW.
CABPC10

SELF-PROGRAMMING ECU FOR BL1920-BL1920L
Programmer for the control of two motors.
Power supply 230Vac.
Motor power supply 230Vac.
Maximum power yield for two motors 470 + 470 W.
The programmer is factory set for the insertion of a Cardin standard receiver
card.
For more information turn to page 174.
OPERATOR ARM TECHNICAL SPECIFICATIONS

Motor power supply  V  24Vdc  230Vac
Electrical input  A  2  1.3
Power input  W  60  290
Duty cycle  %  70  25
Opening time 90°  s  12.5  15
Maximum opening angle  °  130  130
Maximum torque  Nm  170  270
Protection grade  IP  44  44

LIMITS OF USE

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. Channelling for Cardin connection cable CABPC10
12. Channelling 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.
SELF-PROGRAMMING AUTOMATION FOR SWING GATES

CARDIN TRADE
SERIES BL STEALTH

A complete automatic device for swing-to gates with one or two gate leaves, the system is made up of a Master unit and a slave unit powering the second swing-to gate.

Installation is facilitated and the geared motor is well anchored by the special practical cast aluminium wall (or column) bracket which allows all types of fitting.

The compact and robust fastening bracket allows the automation to be fitted to very narrow columns. The extremely robust cast aluminium operator arms are fitted with joints for all applications and are able to drive hinged gates with different constructive characteristics.

The use of direct current motors increase the performance, guarantee high efficiency, long life and silent running.

The integrated programmer employs mechanical travel limit controlled gate positioning.

Repositioning takes place automatically whenever foreign objects get in the way of the gate as it is moving. The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

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

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.
ELECTROMECHANICAL UNIT WITH A 24V MOTOR
Self-locking Master unit controlled by mechanical travel limits with an in-built electronic programmer.
Kit battery charger + batteries to be ordered separately.
Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5m with an electric lock), 200kg maximum weight.
Manual release is carried out using a practical locking - unlocking lever protected by a security key.
Operator arm included.

SELF-LOCKING SLAVE UNIT
Driving the second gate.
Operator arm included.

STRAIGHT ARM WITH SLIDING GUIDE
In spray-painted cast aluminium.

BATTERY CHARGER
For use with 24V programmers.
EXTERNAL BOX
With 2 batteries 12V 7Ah.

POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.

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

For the electric locks see page 163.
CARDIN TRADE

SERIES BL

LIMITS OF USE

BL STEALTH + HINGED ARM

The overall length of the straight arm = 740mm

BL STEALTH + STRAIGHT ARM BLTS24DRM

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<td>80, 250</td>
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OPERATOR ARM TECHNICAL SPECIFICATIONS

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<tr>
<td>Duty cycle</td>
<td>%</td>
</tr>
<tr>
<td>Opening time 90°</td>
<td>s</td>
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<td>Maximum opening angle</td>
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<tr>
<td>Maximum torque</td>
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ELECTRONIC PROGRAMMER TECHNICAL DATA

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<td>Nominal electrical input</td>
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<td>Maximum power yield</td>
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<td>Power output for 1 or 2 motors</td>
<td>W</td>
</tr>
<tr>
<td>Class II device</td>
<td>Cls</td>
</tr>
</tbody>
</table>

OPTIONAL RECEIVER CARD

The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

INSTALLATION EXAMPLE

LEGEND

1. Geared motor (left)
2. Geared motor (right)
3. Internal photocells
4. External photocells
5. Warning lights with aerial
6. Mechanical selector switch
7. Electric lock
8. Sun Power
9. Mains cable 230Vac
10. Channelling for Cardin connection cable CABPC10
11. Channelling route for low voltage wires
12. Lateral protective photocells
13. All pole circuit breaker
14. Solar panels
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.
USE
Particularly suited for installations with narrow columns that require the mounting base to be less than 150mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2,5m with an electric lock) 200kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS
in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE Wiring CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.
COMPLETE KIT FOR SWING GATES

USE
Particularly suited for installations with narrow columns that require the mounting base to be less than 150mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length, 200kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 STRAIGHT ARMS WITH A SLIDING GUIDE
in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE WIRING CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.

PACKING
DIMENSIONS: 480 x 575 x 210
GROSS WEIGHT: 22.3 kg
ITEMS PER PALLET: 10 pcs
COMPLETE KIT FOR SWING GATES

USE
Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2.5m with an electric lock) 200kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE WIRING CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.
COMPLETE KIT FOR SWING GATES

USE
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 5m with an electric lock, 400kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS
in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE WIRING CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.
COMPLETE KIT FOR SWING GATES

USE
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 3.5m, 400kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS
in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE WIRING CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.

KT-BL3924MCD
PACKING
DIMENSIONS: 530 x 235 x 510
GROSS WEIGHT: 33 kg
ITEMS PER PALLET: 14 pcs

USE
Particularly suited for installations with large size columns where the hinges are not aligned to the edge of the column and with gate leaves of up to 3.5m, 400kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V encoder-controlled motor, electronic programmer, 433MHz FM receiver, battery charger and NiMH batteries.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2 STANDARD HINGED OPERATOR ARMS
in spray-painted cast aluminium.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF PHOTOCELLS
in class 3 with adjustable lens, range 10m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

10-METRE WIRING CABLE
with end sleeves.

INTERNATIONAL WARNING SIGN
in PP, multi-language.
COMPLETE KIT FOR SWING GATES

USE
Particularly suited for installations with narrow columns that require the mounting base to be less than 180mm in width and also for gates where the hinges are not aligned to the edge of the column and with gate leaves of up to 2 metres in length (2.5m with an electric lock) 200kg maximum weight.

SELF-LOCKING MASTER UNIT
with a 24V motor. In-built electronic programmer with an incorporated open collector receiver card.

SELF-LOCKING SLAVE UNIT
driving the second gate.

2-CHANNEL RECEIVER CARD
433MHz open collector, slot-in card.
S508 - S449 - S486 - FM - EDGE and NOIRE versions are available on request.

2 4-CHANNEL TRANSMITTERS
433MHz FM ROLLING CODE.

PAIR OF SURFACE-MOUNT PHOTOELECTRIC CELLS
with adjustable lens, range 25m.

LED WARNING LIGHT
24V - 230V with an in-built aerial

INTERNATIONAL WARNING SIGN
in PP, multi-language.

PACKING
DIMENSIONS: 920 x 190 x 280
GROSS WEIGHT: 20 kg
ITEMS PER PALLET: 12 pcs