and the dream of two brothers, and the story of a company that produces automations for doors and gates, exporting their technology and full Italian production to the rest of the world, were born.

“If you can dream it, you can do it.”
Walt Disney
LIVE THE EXPERIENCE

We have always emphasised the importance of people, partners and employees in the pursuance of our path of success, telling the BENINCA story through their own experiences.

In this way, the desire is created to collaborate by moving the core from the company to the people, changing the viewpoint towards the market, our customers, the product and the service.

To do this, we must rebuild the business around the customer and his customer experience: AUTOMATION VILLAGE is born.

By defining a physical path, the customer enters into true and real village, designed according to his needs as to where to find information relating to the product, training, or marketing.

An experience that allows the customer not only to take with him a clear idea of the company and the group, but also to get to know the people and the world inside BENINCA.

This for us is the true meaning of COMMUNITY: share, with all those who know BENINCA, common values, dreams and goals, opening the company to the market, by speaking with it.

Your journey begins here...
MULTIMEDIA CONFERENCE ROOM
Meeting, recreational and multimedia space, used also for technical and commercial training. Together towards new goals.

SHOW ROOM: THE BUILDING AUTOMATION EXPERIENCE
A path that divides itself between different experiences and worlds, for teaching of technology and functionality in industrial applications contexts. From residential and public, to contemporary retail, buildings. Design, ergonomics, and modernity.

LAB 2.0: COOPERATE, COLLABORATE, COMPETE
Today’s active learning and the new challenge to learn, dedicated to the sales force, but also for installers, architects and designers. The demonstration area becomes headquarters for training and training in the field.

LOUNGE AREA: ITALIAN WAY OF BEING
Empathy and trust strengthen ties, also in business. Benincà has always believed that people should come before everything. For this reason, everyone is invited to listen, and make themselves welcome, but also to enjoy the pleasure of relaxation and the excellencies provided for your palate.
Benincà has always considered it strategic, to have an internal department for mechanical and electronic design. We did this because our main objective was to increase know-how, by developing cutting edge products that can satisfy customers and their demands.

Particularly in recent years, with construction of the Benincà Holding company, the R&D department has been enhanced, today becoming an indisputable company strength.

Teamwork and collaboration are the success elements of the R&D BENINCÀ team. It is in fact due to the continuous exchange of ideas and expertise, that this department is able to design and develop products of excellence, by making the most of each individual component’s contribution.

Today this area is a complete department, made up of mechanical and electronic engineers, who work on projects and products on a daily basis with the main objective of satisfaction of the various requirements of the market, and continuous improvement.

In designs of recent years, particular importance has been given to the theme of energy saving and ecological awareness, with development of a patented technology, and a specific product line.
BENINCÀ products are designed to fulfil the varied requirements of the market, and in order to do this, during the design and test phases, they are subjected to electrical and mechanical life testing, which is aimed at simulating real-world application. We therefore have 2 sites, one internal, and one external.

For test execution, we apply the “worst case analysis” methodology, which allows for testing of the product to the most extreme limits, simulating:

- Fluctuations relating to nominal power and frequency values
- Extreme climatic conditions
- Increase of the usage limits and usage intensity, with respect to declared nominal data

SAFETY AS A VALUE

TESTS
INSPECTIONS

PRE-COMPLIANCE TESTS

These are product tests which are aimed at verifying noise immunity and that emission is within the maximum limits laid down by the European Community, for our devices. These tests also allow us to establish whether the product is ready to obtain “CE” marking.
Correct materials selection, three levels of internal controls, correct selection of supplier companies; these have always been the cornerstones of company quality control.

A department that works with the clear objective of maintaining a high level of quality and reliability in sold products, in line with the mission that the company has always pursued.

**INCOMING CONTROL:** occurs after receipt of the material into the company, via physical and metrological testing.

**PROCESS CONTROL:** This applies to semi-finished products and relates to wiring checks, adjustments or noise; all with detailed operating instructions.

**PRODUCT AUDIT:** Relates to kits and finished products which are controlled via random sampling in general.

The BENINCA’ quality system, via control of these processes and continuous attention to market requirements, has obtained SGS accreditation. This is indicates a recognised company ability to manage the quality system in its broadest sense and coherently.
In recent years BENINCA has made an undisputed forte from its Italian production, so much so that in 2013 it received its 100% made in Italy product certification.

The BENINCA’ assembly lines are organised by product families, and equipped with a control system via which the product code and relevant quantity being built can be detected at any point.

In order to ensure that the motors are compliant, important functional and electrical end-line tests are carried out directly within the line, which check correct functionality of the motor load, ensuring sufficient electrical insulation and good ground conductor efficiency.

The results obtained are stored uniquely for each machine produced.
The shipping department has undergone considerable changes in recent years, with the main objective being to improve the service offered, by working on process efficacy and efficiency, as well as on reducing the average delivery lead time.

To do this, a barcode system has been adopted, which ensures consistency between picked and ordered materials, by notifying any errors.

In addition to this, to improve the picking speed, an automatic dual bay vertical warehouse has been installed, for electronic materials management.

The new warehouse is located in the recently expanded area of the company, and was opened on the occasion of the third International Meeting of the group.
The goal of making consultation and product understanding quick and easy has led us to not only improve the readability of the content, but also how it is displayed.

From now on, we have decided to encapsulate the product information in a single dossier containing technical information, specific features, kits available, control unit compatibility and focus on technologies and embedded devices.

On the next page you can see in detail the information in both the specific geared motors page, and in that of the control panels.

With regard to built-in technologies and devices, we have decided to show their advantages through icons, with a view to making comprehension and comparison between the various models easier.

The symbols used for built-in devices and functionality are shown below:
# AUTOMATIONS FOR SWINGING GATES

<table>
<thead>
<tr>
<th>Residential Use</th>
<th>Commercial Use</th>
<th>Industrial Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOB21M / BOB3124E</td>
<td>BOB30S / BOB3024E</td>
<td>BOB30M / BOB3024E</td>
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# AUTOMATIONS FOR SLIDING GATES

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<td>BULL1EM</td>
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<tr>
<td>BULL1M</td>
<td>BULL8/24ESA</td>
<td>BULL15M</td>
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<tr>
<td>BULL15M / BULL15JEMSA</td>
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# AUTOMATIONS FOR GARAGE & INDUSTRIAL DOORS

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</table>

# ROAD BARRIERS & CAR PARK SAVER

<table>
<thead>
<tr>
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<td>VE800</td>
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<tr>
<td>VE50M / VE50SRA</td>
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</tbody>
</table>

# EXTERNAL CONTROL PANELS

| Sun System | 110 |
| 230 Vac:   |     |
| Brainy     |     |
| Heady      | 112 |
| Core       | 113 |
| Matrix     | 114 |
| LogicA     | 115 |
| Cell P     | 116 |
| Ker        | 117 |
| Start      | 118 |
| Think      | 119 |
| Wave       | 120 |
| 24 Vac:    | 121 |
| Brainy24   | 122 |
| Heady24    | 123 |
| LogicA24R  | 124 |
| DA.S04     | 125 |

# INTERNAL CONTROL PANELS

| Sun System | 127 |
| 230 - 400 Vac: |     |
| Think      | 128 |
| Wave       | 129 |
| 24 Vac:    | 130 |
| Brainy24   | 131 |
| Heady24    | 132 |
| LogicA24R  | 133 |
| DA.S04     | 134 |

# ELECTRONIC SIGNALS & CONTROLS

## TRANSMITTERS

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## RECEIVERS

| BRAINY24 / P | 158 |
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| CALL | 159 |
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# WARNING DEVICES AND SIGNALS

## TRANSPONDER DEVICES

| Digital Keyboard | 169 |
| Key Selector     | 168 |
| Push Buttons     | 170 |
| Flashing Lights  | 171 |
| PhotoCells       | 172 |
| Columns          | 173 |
| RF/SUN / RF / SC.RF | 176 |
| Safety Devices   | 178 |
### Articulated Arm

**Premier leaf up to 4.0 m**

- PR.45EL HEADY / BRAINY

**230 Vac**

### Underwater Installation

**Control Panels**

- DU.350

**230 Vac**

### Linear Worm Screws

- **Bob21**
  - leaf up to 1.1 m
  - 230 Vac
  - 24 Vdc

- **Bob30**
  - leaf up to 1.7 m
  - 230 Vac
  - 24 Vdc

- **Bob50**
  - leaf up to 2.1 m
  - 230 Vac
  - 24 Vdc

### Linear Telescopic Operator

- **Bill30**
  - leaf up to 1.5 m
  - 230 Vac

- **Bill40**
  - leaf up to 1.5 m
  - 230 Vac

- **Bill50**
  - leaf up to 2.0 m
  - 230 Vac

### Control Panels

- **Bill30M**
- **Bill40M**
- **Bill50M**

### Underground Installation

**Control Panels**

- DU.350

**230 Vac**

---

*Built-in control panel*
GUIDE FOR CHOOSING

Choose the weight and the length in the chart and find out the most suitable model.

LINEAR WORM SCREWS

<table>
<thead>
<tr>
<th>LEAF MAX WEIGHT</th>
<th>150 kg</th>
<th>200 kg</th>
<th>250 kg</th>
<th>350 kg</th>
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GATE LENGTH

- 1,8 m
- 2,1 m
- 2,5 m
- 3 m
- 3,5 m
- 4 m
- 4,5 m

LINEAR TELESCOPIC OPERATOR

<table>
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<tr>
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GATE LENGTH

- 1,8 m
- 2,1 m
- 2,5 m
- 3 m
- 3,5 m
- 4 m

ARTICULATED ARM

<table>
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<tr>
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UNDERGROUND INSTALLATION

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<td>BILL30M</td>
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NOTES

With BOB SL accessory

We recommend the use of an electric lock

In the event of wind and a solid door the operating limits may vary
AUTOMATIONS FOR SWINGING GATES
LINEAR WORM SCREWS
patented FACE gears
up to 2.1 m

DESCRIPTION
Reliable, quiet, and quick-to-install geared motor, thanks to its 2 adjustable mechanical stops for opening and closing. Available in the 230 Vac and 24 Vdc versions. Rolled ball screws Ø 20 mm. Easy access release from above.

230 Vac
- Irreversible 230 Vac electromechanical geared motor

24 Vdc
- Irreversible 24 Vdc electromechanical geared motor for intensive use, equipped with encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- Amperometric sensor obstacle detection system to prevent crushing
- Optional battery powered operation

COMPLETE KITS
K8OB21M
1 BOB21M 230 Vac Operators
1 HEADY 230 Vac control unit with integrated receiver
1 PUPILLA Pair of photocells
1 LAMPLED 230 Vac LED flashing light
1 TOKEY Metal key selector

K8OB2124E
2 BOB2124E 24 Vdc Operators equipped with encoder device
1 HEADY 24 Vdc control unit with integrated receiver
1 PUPILLA Pair of photocells
1 LAMPLED 24 Vdc LED flashing light
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA BOB21M BOB2124E
Code 9591534 9691351
Power supply 230 Vac (50-60Hz) 230 Vac (50-60Hz)
Motor supply 230 Vac 24 Vdc
Max absorbed current 1.5 A 5.5 A
Max Thrust 1800 N 1800 N
Opening time 18" 9" - 21"
Operation cycle 30% intensive use
Standard stroke 270 mm 325 mm
Max stroke 325 mm 325 mm
Protection level IP44 IP44
Encoder NO YES
Operating temperature -20°C +50°C -30°C +50°C
Leaf max dimension 2.1 m 2.1 m
Weight 8.2 kg 8.2 kg
Items no. per pallet 54 54
Kits no. per pallet 18 18

CONTROL PANELS:
BOB21M BRAINY p.112 p.113
HEADY p.113
BOB2124E BRAINY24 p.112 p.113
HEADY24 p.113

MADE IN ITALY
AUTOMATIONS FOR SWINGING GATES
LINEAR WORM SCREWS
patented FACE gears
gear and female screw in bronze
personalised release key
up to 3.0 m

DESCRIPTION
Reliable, quiet, and quick-to-install geared motor, thanks to its 2 adjustable mechanical stops for opening and closing. Available in the 230 Vac and 24 Vdc versions. Rolled ball screws Ø 20 mm. Easy access release from above.

230 Vac
- Irreversible 230 Vac electromechanical geared motor
- The encoder device in the BOB30M/ME version ensures crush prevention and precision in the gate moving phases

24 Vdc
- Irreversible 24 Vdc electromechanical geared motor for intensive use, equipped with encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- Amperometric sensor obstacle detection system to prevent crushing
- Optional battery powered operation

TECHNICAL DATA

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<thead>
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<th>Code</th>
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<td>Max absorbed current</td>
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<td>1.8 A</td>
<td>5.5 A</td>
</tr>
<tr>
<td>Max Thrust</td>
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<td>-20°C to +50°C</td>
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<td>3.0 m</td>
<td>3.0 m</td>
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<tr>
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<td>8.6 kg</td>
<td>8.6 kg</td>
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<tr>
<td>Items no. per pallet</td>
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</tr>
<tr>
<td>Kits no. per pallet</td>
<td>18</td>
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<td>18</td>
</tr>
</tbody>
</table>

COMPLETE KITS

BOB30M / BOB3024E AUTOMATIONS FOR SWINGING GATES
AUTOMATIONS FOR SWINGING GATES
LINEAR WORM SCREWS

patented FACE gears
gear and female screw in bronze
personalised release key
up to 5.0 m

230 Vac
• Irreversible 230 Vac electromechanical geared motor
• Available in two versions: one with an easily adjustable limit switch (BOB50M) the other with encoder (BOB50ME)
• The encoder device in the BOB50ME version ensures crush prevention and precision in the gate moving phases

24 Vdc intensive use
• Irreversible 24 Vdc electromechanical geared motor for intensive use, equipped with encoder
• The encoder device ensures maximum safety and precision in the gate moving phases
• Amperometric sensor obstacle detection system to prevent crushing
• Optional battery powered operation

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Item</th>
<th>BOB50M</th>
<th>BOB50ME</th>
<th>BOB5024E</th>
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<td>9591023</td>
<td>9591328</td>
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<td>230 Vac (50-60 Hz)</td>
<td>230 Vac (50-60 Hz)</td>
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<td>Motor supply</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>24 Vdc</td>
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<tr>
<td>Max absorbed current</td>
<td>1.4 A</td>
<td>1.4 A</td>
<td>6.7 A</td>
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<tr>
<td>Max Thrust</td>
<td>3500 N</td>
<td>3500 N</td>
<td>2200 N</td>
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<tr>
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<tr>
<td>Operation cycle</td>
<td>30%</td>
<td>30%</td>
<td>intensive use</td>
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<tr>
<td>Standard stroke</td>
<td>455 mm</td>
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<td>455 mm</td>
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<td>Max stroke</td>
<td>520 mm</td>
<td>520 mm</td>
<td>520 mm</td>
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<td>IP44</td>
<td>IP44</td>
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<tr>
<td>Encoder</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
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<td>Operating temperature</td>
<td>-20°C to +50°C</td>
<td>-20°C to +50°C</td>
<td>-20°C to +50°C</td>
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<td>Leaf max dimension</td>
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<td>5.0 m</td>
<td>5.0 m</td>
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<td>Items no. per pallet</td>
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AUTOMATIONS FOR SWINGING GATES
LINEAR TELESCOPIC OPERATOR

personalised release key
up to 2.5 m

230 Vac

- Irreversible 230 Vac electromechanical geared motor with easy access release from above
- Neat design and size; particularly suited to forged iron gates
- Easy and quick to install due to compact size and installation dimensions
- Warm protected by a scraper ring and stainless steel stem, suitable for use in dusty and sandy environments or where there are aggressive atmospheric agents.
- Available in right or left version

COMPLETE KITS

BILL30M + ELOCKSE
2 BILL30M 230 Vac Operators
1 HEADY 230 Vac control unit with integrated receiver
1 PUPILLA 2 Photocells
1 LAMPI.LED 230 Vac Led flashing light with built-in aerial
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

MEASURES

BILL30M

<table>
<thead>
<tr>
<th>COMPLETE KITS</th>
<th>BILL30M</th>
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</thead>
<tbody>
<tr>
<td>KBILL30M</td>
<td>BILL30M</td>
</tr>
<tr>
<td>2 BILL30M 230 Vac Operators</td>
<td>230 Vac (50-60 Hz)</td>
</tr>
<tr>
<td>1 HEADY 230 Vac control unit with integrated receiver</td>
<td>230 Vac</td>
</tr>
<tr>
<td>1 PUPILLA 2 Photocells</td>
<td>Max absorbed current: 1.5 A</td>
</tr>
<tr>
<td>1 LAMPI.LED 230 Vac Led flashing light with built-in aerial</td>
<td>Max Thrust: 2800 N</td>
</tr>
<tr>
<td>1 TOKEY Metal key selector</td>
<td>Opening time: 16&quot;</td>
</tr>
<tr>
<td>1 TO.GO2WV 433.92 MHz Transmitter</td>
<td>Operation cycle: 30%</td>
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TECHNICAL DATA

BILL30M

<table>
<thead>
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<th>TECHNICAL DATA</th>
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<tbody>
<tr>
<td>Code</td>
<td>9592100 (R) / 9592101 (L)</td>
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<td>Power supply</td>
<td>230 Vac (50-60 Hz)</td>
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<tr>
<td>Motor supply</td>
<td>230 Vac</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Max Thrust</td>
<td>2800 N</td>
</tr>
<tr>
<td>Opening time</td>
<td>16&quot;</td>
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<tr>
<td>Operation cycle</td>
<td>30%</td>
</tr>
<tr>
<td>Standard stroke</td>
<td>300 mm</td>
</tr>
<tr>
<td>Max stroke</td>
<td>500 mm</td>
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<td>Protection level</td>
<td>IP54</td>
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<tr>
<td>Operating temperature</td>
<td>-20°C x +50°C</td>
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<td>Leaf max dimension</td>
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<tr>
<td>Weight</td>
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<td>Items no. per pallet</td>
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<tr>
<td>Kits no. per pallet</td>
<td>32</td>
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</table>
AUTOMATIONS FOR SWINGING GATES
LINEAR TELESCOPIC OPERATOR

personalised release key
up to 3.5 m

230 Vac
• Invertible 230 Vac electromechanical geared motor with easy access release from above
• Neat design and size, particularly suited to forged iron gates
• Easy and quick to install due to compact size and installation dimensions
• Worm protected by a scraper ring and stainless steel stem, suitable for use in dusty and sandy environments or where there are aggressive atmospheric agents.
• Available in right or left version

TECHNICAL DATA BILL40M
Code 9692124 (R) / 9692125 (L)
Power supply 230 Vac (50-60Hz)
Motor supply 230 Vac
Max absorbed current 1.1 A
Max Thrust 2800 N
Opening time 18"
Operation cycle 30%
Standard stroke 400 mm
Max stroke 420 mm
Protection level IP54
Operating temperature -20°C /+50°C
Leaf max dimension 3.5 m
Weight 6.0 kg
Items no. per pallet 60
Kits no. per pallet 21

COMPLETE KITS
KBILL40M package
2 BILL40M 230 Vac Operators
1 HEADY 230 Vac control unit with integrated receiver
1 PUPILLA 8 Pair of photoreceivers
1 LAMPI.LED 230 Vac Led flashing light with built-in aerial
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

MEASURES
BILL40M

AUTOMATIONS FOR SWINGING GATES
**BILL50M**

**AUTOMATIONS FOR SWINGING GATES**

**LINEAR TELESCOPIC OPERATOR**

- Personalised release key up to 4.5 m

**TECHNICAL DATA BILL50M BILL50ML**

<table>
<thead>
<tr>
<th>Code</th>
<th>BILL50M</th>
<th>BILL50ML</th>
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<tbody>
<tr>
<td>Power supply</td>
<td>230 Vac (50-60Hz)</td>
<td>230 Vac (50-60Hz)</td>
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<tr>
<td>Motor supply</td>
<td>230 Vac</td>
<td>230 Vac</td>
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<tr>
<td>Max.吸收电流</td>
<td>1.1 A</td>
<td>1.2 A</td>
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<tr>
<td>Max. Thrust</td>
<td>2800 N</td>
<td>3100 N</td>
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<tr>
<td>Opening time</td>
<td>21”</td>
<td>32”</td>
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<tr>
<td>Operation cycle</td>
<td>30%</td>
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<td>Standard stroke</td>
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<td>Stroke stroke</td>
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<td>Operating temperature</td>
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<td>Leaf max dimension</td>
<td>4.5 m</td>
<td>4.5 m</td>
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<td>Weight</td>
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<td>6.3 kg</td>
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<td>Items no. per pallet</td>
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<td>60</td>
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<tr>
<td>Kits no. per pallet</td>
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</table>

**COMPLETE KITS**

- BILL50M: 230 Vac Operators
- BILL50ML: 230 Vac Operators
- BRAINY p.112
- HEADY p.113

**MEASURES**

- BILL50M: 180-250 mm
- BILL50ML: 120-200 mm

**B.S.R.**

- Multipurpose brackets for single operator BILL50M

**BILL50.CO**

- Telescopic stem cover accessory for models BILL50M

**DULV90**

- 12 Vac/1000 vertical electric lock, supplied with counterplate. Permits internal/external release.

**DUL.9990**

- Covering plate for DULV90

**E.LOCK**

- Transmitter. Extends lock up to 50mm from the outside.

**E.LOCKS**

- Extended cylinder for E.LOCK electric lock. It allows to unlock gates up to 50mm from the outside.

**E.LOCKSE**

- Extended cylinder for E.LOCK electric lock. It allows to unlock gates up to 50mm from the outside.

**ID.TA**

- Warning board.

**ESA BASIC**

- System that reduces the electrical energy consumption.

- Valve protected by a scraper ring and stainless steel stem, suitable for use in dusty and sandy environments or where there are aggressive atmospheric agents.

- Available in right or left version.

- BILL50ML version for large doors and confined installation dimensions.

**TECHNICAL PANELS**

- BILL50M BRAINY p.112
- HEADY p.113

- BILL50ML BRAINY p.112
- HEADY p.113

- Irreversible 230 Vac electromechanical geared motor with easy access release from above.

- Neat design and size, particularly suited to forged iron gates.

- Easy and quick to install due to compact size and installation dimensions.

- Linear telescopic operator.

- LINEAR TELESCOPIC OPERATOR
KBN24

AUTOMATIONS FOR SWINGING GATES
ARTICULATED ARM

with integrated control box and receiver up to 2.1 m

24 Vdc intensive use

- 24Vdc Self-locking electromechanical operator for intensive use
- Suitable for gates installed on large posts
- Possibility of adjustable external unlock device which allows the system to be operated from outside in the event of a power cut
- Equipped with mechanical stop in opening
- Amperometric sensor obstacle detection system to prevent crushing
- Optional battery powered operation

COMPLETE KITS

KBN24

1 BN.E24 24 Vdc Operator with built-in control unit and receiver
1 BN.24 24 Vdc Operator
2 BA Articulated arms
1 PUPILLA.F Pair of photocells
1 LAMPA24.LED 24 Vdc Flashing light with built-in aerial
1 T.OOKEY Metal key selector
1 T.O02W0Y 433.92 MHz Transmitter

TECHNICAL DATA

<table>
<thead>
<tr>
<th>BN.24</th>
<th>BN.E24</th>
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<tr>
<td>Power supply</td>
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<tr>
<td>Motor supply</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
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<tr>
<td>Torque</td>
<td>2.5 Nm</td>
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<td>Opening time</td>
<td>10°</td>
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<tr>
<td>Operation cycle</td>
<td>Intensive use</td>
</tr>
<tr>
<td>Protection level</td>
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<tr>
<td>Mechanical stop</td>
<td>Adjustable in opening</td>
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<tr>
<td>Battery control unit</td>
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<tr>
<td>Kits no. per pallet</td>
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</tbody>
</table>

ID.TA

Warning board.

ESA BASIC

System that reduces the electrical energy consumption. In the 24 Vdc version, the use of ESA BASIC is not compatible with the battery operation.

KSUN

KIT for system operation via solar panel. For 24 Vdc models.
AUTOMATIONS FOR SWINGING GATES

ARTICULATED ARM

with integrated control box
personalised release key
up to 2.5 m

ARM NOT INCLUDED

MB24 / MBE24

24 Vdc intensive use

- 24 Vdc self-locking electromechanical operator for intensive use equipped with strong, articulated and anti-shearing arm
- Suitable for gates installed on large posts
- Tempered steel mechanical features to guarantee sturdiness and solidity
- Equipped with open and close limit switch
- Amperometric sensor obstacle detection system to prevent crushing
- Optional battery powered operation

COMPLETE KITS

KMB24 consists
1 MB24 24 Vdc Operator with built-in control unit and receiver
1 MB24 24 Vdc Operators
2 BA Articulated arms
1 PUPILLA.F Pair of photocells
1 LAMPA.LD LED 24 Vdc, Last flashing light with built-in aerial
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

MEASURES

TECHNICAL DATA

<table>
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<td>24 Vdc</td>
</tr>
<tr>
<td>Motor supply</td>
<td>24 Vdc</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>6.2 A</td>
<td>0.76 A</td>
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<td>Torque</td>
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<td>150 Nm</td>
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<tr>
<td>Opening time</td>
<td>220°</td>
<td>220°</td>
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<tr>
<td>Operation cycle</td>
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<td>intensive use</td>
</tr>
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<td>Protection level</td>
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<td>IP44</td>
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<tr>
<td>Built-in control unit</td>
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<td>-20°C to +50°C</td>
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<tr>
<td>Leaf max dimension</td>
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<td>Weight</td>
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<td>Kits no. per pallet</td>
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</tr>
</tbody>
</table>

MADE IN ITALY
PRIME / PREMIER24

AUTOMATIONS FOR SWINGING GATES
ARTICULATED ARM

personalised release key up to 4.0 m

ARM NOT INCLUDED

DESCRIPTION

Inversible geared motor suitable for gates
installed on large columns, available in
230 Vac and 24 Vdc versions. Built-in
electromechanical arm and close limit
switches, with sturdy articulated anti-shaving
arm in galvanised steel.

230 Vac

- Irreversible 230 Vac electromechanical
gear motor also available in the PR.45EL
version for large doors

24 Vdc intensive use

- Irreversible 24 Vdc geared motor for
intensive use
- Amperometric sensor obstacle detection
system to prevent crushing
- Optional battery powered operation

24 Vdc intensive use

- Irreversible 230 Vac electromechanical
gear motor also available in the PR.45EL
version for large doors

- Irreversible geared motor suitable for gates
installed on large columns, available in
230 Vac and 24 Vdc versions. Built-in
electromechanical arm and close limit
switches, with sturdy articulated anti-shaving
arm in galvanised steel.

COMPLETE KITS

KPR.45E:
1 PR.45E 230 Vac Operators
2 DU.E2 Articulated arms
1 HEADY 230 Vac control unit with integrated receiver
1 PUPILLA.F Pair of photocells
1 LAMPI.LED 230 Vac Led flashing light with built-in sensor
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

KPR.45EL:
2 PR.45EL 230 Vac Operators
1 BRAINY2 230 Vac control unit with integrated receiver
2 DU.E2 Articulated arms
1 PUPILLA.F Pair of photocells
1 LAMPI24.LED 24 Vdc Led flashing light with built-in sensor
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

KPR.45E24:
2 PR.45E24 24 Vdc Operators
1 BRAINY24 24 Vdc control unit with integrated receiver
2 DU.E2 Articulated arms
1 PUPILLA.F Pair of photocells
1 LAMPI24.LED 24 Vdc Led flashing light with built-in sensor
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA

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<tbody>
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<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td>Motor supply</td>
<td>230 V</td>
<td>230 V</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.75 A</td>
<td>1.45 A</td>
<td>9 A</td>
</tr>
<tr>
<td>Torque</td>
<td>325 Nm</td>
<td>300 Nm</td>
<td>320 Nm</td>
</tr>
<tr>
<td>Opening time</td>
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<td>20°</td>
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<td>Operation cycle</td>
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<td>Protection level</td>
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<td>-20°C - +50°C</td>
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<td>Leaf max dimension</td>
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<td>4 m</td>
<td>3 m</td>
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<tr>
<td>Weight</td>
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<tr>
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<td>12</td>
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</tbody>
</table>
AUTOMATIONS FOR SWINGING GATES
UNDERGROUND INSTALLATION
up to 3.5 m

DU.IT14N / DU.IT24NVE

DUIT.BR ACCESSORY AVAILABLE
FOR THE ADJUSTMENT OF THE MOST FOUNDATION BOXES IN THE MARKET

DESCRIPTION
In reversible electromechanical geared motor available in 230 Vac and 24 Vdc version, with the option of opening to 180°. Full metal mechanics and built-in mechanical stop.

230 Vac
- Irreversible 230 Vac electromechanical geared motor
- Also available in the fast version (DU.IT14NV)

24 Vdc intensive use
- Irreversible 24 Vdc electromechanical geared motor for intensive use, equipped with encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- Amorphous sensor obstacle detection system to prevent crushing
- Optional battery powered operation

TECHNICAL DATA

<table>
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<td>230 Vac</td>
<td>230 Vac</td>
</tr>
<tr>
<td>Motor supply</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.6 A</td>
<td>1.6 A</td>
<td>11 A</td>
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<tr>
<td>Torque</td>
<td>270 Nm</td>
<td>220 Nm</td>
<td>280 Nm</td>
</tr>
<tr>
<td>Opening time</td>
<td>22°</td>
<td>11°</td>
<td>11°</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>30%</td>
<td>40%</td>
<td>Intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP67</td>
<td>IP67</td>
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<tr>
<td>Operating temperature</td>
<td>-20°C +50°C</td>
<td>-20°C +50°C</td>
<td>-20°C +50°C</td>
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<tr>
<td>Leaf max dimension</td>
<td>3.5 m</td>
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<td>3.5 m</td>
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<tr>
<td>Encoder</td>
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<tr>
<td>Weight</td>
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<td>32</td>
<td>32</td>
</tr>
</tbody>
</table>
AUTOMATIONS FOR SWINGING GATES UNDERGROUND INSTALLATION

oil submerged gear
up to 4.0 m

AVAILABLE FROM JULY 2014
VERSION WITH BUILT-IN DU.350NVE ENCODER

CAMS’ DISK
NOT INCLUDED

230 Vac
• Irreversible electromechanical geared motors for gates of considerable sizes
• Adjustable mechanical stop included
• Electromechanical limit switches available as accessory (DU.350FC)

• Available in the fast version (DU.350NV) for doors up to 3 m
• The version with the DU.350NVE encoder ensures crash prevention and precision in the gate moving phases

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>DU.350N</th>
<th>DU.350NV</th>
<th>DU.350NVE</th>
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<tr>
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<td>9590753</td>
<td>9592029</td>
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<tr>
<td>Motor supply</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
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<tr>
<td>Max. absorbed current</td>
<td>1.7 A</td>
<td>1.7 A</td>
<td>1.7 A</td>
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<tr>
<td>Torque</td>
<td>450 Nm</td>
<td>370 Nm</td>
<td>370 Nm</td>
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<tr>
<td>Opening time</td>
<td>22&quot;</td>
<td>16&quot;</td>
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<tr>
<td>Operation cycle</td>
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<td>intensive use</td>
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<tr>
<td>Protection level</td>
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<td>IP67</td>
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<tr>
<td>Encoder</td>
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<td>NO</td>
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<tr>
<td>Operating temperature</td>
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<td>-20°C ±50°C</td>
<td>-20°C ±50°C</td>
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<tr>
<td>Leaf max. dimension</td>
<td>4 m</td>
<td>3 m</td>
<td>3 m</td>
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<tr>
<td>Lubrication</td>
<td>OIL</td>
<td>OIL</td>
<td>OIL</td>
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<tr>
<td>Weight</td>
<td>18.5 kg</td>
<td>20.3 kg</td>
<td>20.3 kg</td>
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<tr>
<td>Items no. per pallet</td>
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<td>32</td>
<td>32</td>
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<tr>
<td>No. of foundation boxes per pallet</td>
<td>24</td>
<td>24</td>
<td>24</td>
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</table>
# Automations for Sliding Gates

## Residential Use

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>Voltage</th>
<th>Weight Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPONY *</td>
<td>24 Vdc</td>
<td>up to 300 kg</td>
</tr>
<tr>
<td>BULL424</td>
<td>24 Vdc</td>
<td>up to 350 kg</td>
</tr>
<tr>
<td>BULL5</td>
<td>230 Vac</td>
<td>up to 500 kg</td>
</tr>
<tr>
<td>BULL624</td>
<td>24 Vdc</td>
<td>up to 600 kg</td>
</tr>
<tr>
<td>BULL8</td>
<td>230 Vac</td>
<td>up to 800 kg</td>
</tr>
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## Commercial Use

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>Voltage</th>
<th>Weight Limit</th>
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</thead>
<tbody>
<tr>
<td>BULL8</td>
<td>230 Vac</td>
<td>up to 1,000 kg</td>
</tr>
<tr>
<td>BULL10</td>
<td>230 Vac</td>
<td>up to 2,000 kg</td>
</tr>
<tr>
<td>BULL15</td>
<td>230 Vac</td>
<td>up to 3,000 kg</td>
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## Industrial Use

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>Voltage</th>
<th>Weight Limit</th>
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</thead>
<tbody>
<tr>
<td>BULL20</td>
<td>230 Vac</td>
<td>up to 2,000 kg</td>
</tr>
<tr>
<td>BULL20T</td>
<td>230 Vac</td>
<td>up to 4,000 kg</td>
</tr>
<tr>
<td>BISON20</td>
<td>230 Vac</td>
<td>up to 2,000 kg</td>
</tr>
<tr>
<td>BISON25</td>
<td>230 Vac</td>
<td>up to 3,500 kg</td>
</tr>
<tr>
<td>BISON35</td>
<td>230 Vac</td>
<td>up to 4,500 kg</td>
</tr>
<tr>
<td>BISON45</td>
<td>400 Vac</td>
<td>up to 5,000 kg</td>
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</table>

* *Built-in control panel*
AUTOMATIONS FOR SLIDING GATES
RESIDENTIAL USE
with integrated control box and receiver up to 350 kg

**24 Vdc**
- 24 Vdc geared motor with built-in control unit and energy saving ESA SYSTEM
- Amperometric sensor obstacle detection system to prevent crushing
- Battery back-up system ready
- The control unit is positioned in such a way as to make programming operations simple, easy and immediate

**COMPLETE KITS**

<table>
<thead>
<tr>
<th>KPONY</th>
<th>PONY244</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>PONY244</td>
<td>24 Vdc Operator with control panel and built-in receiver. ESA SYSTEM technology included</td>
</tr>
<tr>
<td>1</td>
<td>PUPILLA.F</td>
</tr>
<tr>
<td>1</td>
<td>TGO2RFU</td>
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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>PONY244</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
</tr>
<tr>
<td>Motor supply</td>
</tr>
<tr>
<td>Max absorbed current</td>
</tr>
<tr>
<td>Power consumption in stand-by</td>
</tr>
<tr>
<td>Max Thrust</td>
</tr>
<tr>
<td>Opening speed</td>
</tr>
<tr>
<td>Operation cycle</td>
</tr>
<tr>
<td>Protection level</td>
</tr>
<tr>
<td>Operating temperature</td>
</tr>
<tr>
<td>Max gate weight</td>
</tr>
<tr>
<td>Driving gear for rack</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Version</td>
</tr>
<tr>
<td>Items no. per pallet</td>
</tr>
<tr>
<td>Kits no. per pallet</td>
</tr>
</tbody>
</table>
AUTOMATIONS FOR SLIDING GATES
RESIDENTIAL USE

control with built-in encoder and receiver
personalised release key
up to 450 kg

24 Vdc intensive use

- 24 Vdc geared motor for intensive use, with built-in control unit, ESA SYSTEM and encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- Amperometric sensor obstacle detection system to prevent crushing
- Full metal release system
- Magnetic limit switches accessory available (MLS)

COMPLETE KITS

KBULL424

1 BULL424ESA 24 Vdc Operator with control panel and built-in receiver. ESA SYSTEM technology included
1 PUPILLA.F Pair of photocells
1 LAMPI24.LED 24 Vdc Led flashing light with built-in aerial
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

RLM4Z

972800

44 galvanized rack 220x250x500 mm
Package: 1 pc

RLM4P

9728000

44 galvanized rack 220x250x500 mm, suitability for sliding gates
Package: 3 pcs

MLS

9846019

Magnetic limit switches suitable for sliding gates.

ID.TA

9846019

Warning board.

MLS

9387001

Magnetic limit switches for sliding gates. Suitable for snowy places.

SB.BULL8.F

9747025

Externally fitted anti-intrusion cable unlock device (L=4.5 m).

TECHNICAL DATA

BULL424ESA

Code 9591433
Power supply 230 Vac (50-60Hz)
Motor supply 24 VdcMax absorbed current 0.4 A
Power consumption in stand-by 8 mA
Max Thrust 428 N
Opening speed 6.7-11 m/min
Operation cycle interminable use
Protection level IP44
Operating temperature -20°C ~ +50°C
Max gate weight 450 kg
Driving gear for rack M4 214
Weight 10.2 kg
Items no. per pallet 36
Kits no. per pallet 30

24 Vdc intensive use

- 24 Vdc geared motor for intensive use, with built-in control unit, ESA SYSTEM and encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- Amperometric sensor obstacle detection system to prevent crushing
- Full metal release system
- Magnetic limit switches accessory available (MLS)
AUTOMATIONS FOR SLIDING GATES
RESIDENTIAL USE
with integrated control box and receiver
personalised release key
up to 500 kg

230 Vac
• Electromechanical 230 Vac geared motor with built-in control unit
• Optional encoder connection using MAG.E accessory
• The encoder device ensures crush prevention and precision in the gate moving phases
• Full metal release system
• Magnetic limit switches accessory available (MLS)

COMPLETE KITS
K.BULL5M 6533309
1 BULL5M 230 Vac Operator with control box and built-in receiver
1 PUPILLA.F Pair of photocells
1 LAMPI.LED 230 Vac Flashing light with built-in sensor
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA
BULL5M
Code 9591434
Power supply 230 Vac (50-60Hz)
Motor supply 230 Vac
Max absorbed current 1.3 A
Max Thrust 650 N
Opening speed 10.5 m/min
Operation cycle 30%
Protection level IP44
Operating temperature -20°C /+50°C
Max gate weight 500 kg
Driving gear for rack M4 Z18
Weight 10.6 kg
Items no. per pallet 36
Kits no. per pallet 30

Warning board.
MAG.E 9760021
Magnetic sensor device to detect obstacles and manage deceleration.
MLS 9387001
Magnetic limit switches for BULL. Suitable for snowy places.

BULL5M AUTOMATIONS FOR SLIDING GATES
RESIDENTIAL USE
with integrated control box and receiver
personalised release key
up to 500 kg

230 Vac
• Electromechanical 230 Vac geared motor with built-in control unit
• Optional encoder connection using MAG.E accessory
• The encoder device ensures crush prevention and precision in the gate moving phases
• Full metal release system
• Magnetic limit switches accessory available (MLS)

COMPLETE KITS
K.BULL5M 6533309
1 BULL5M 230 Vac Operator with control box and built-in receiver
1 PUPILLA.F Pair of photocells
1 LAMPI.LED 230 Vac Flashing light with built-in sensor
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA
BULL5M
Code 9591434
Power supply 230 Vac (50-60Hz)
Motor supply 230 Vac
Max absorbed current 1.3 A
Max Thrust 650 N
Opening speed 10.5 m/min
Operation cycle 30%
Protection level IP44
Operating temperature -20°C /+50°C
Max gate weight 500 kg
Driving gear for rack M4 Z18
Weight 10.6 kg
Items no. per pallet 36
Kits no. per pallet 30

Warning board.
MAG.E 9760021
Magnetic sensor device to detect obstacles and manage deceleration.
MLS 9387001
Magnetic limit switches for BULL. Suitable for snowy places.
24 Vdc intensive use

- 24 Vdc geared motor for intensive use, with built-in control unit, ESA SYSTEM and encoder
- The encoder device ensures maximum safety and precision in the gate moving phases
- The amperometric sensor obstacle detection system prevents crushing
- Battery back-up system ready
- Full metal release system
- Version with magnetic limit switches available [BULL624ESA,S]

COMPLETE KITS

K.BULL624 9592092
1 BULL624ESA 24 Vdc Operator with control panel and built-in receiver. ESA SYSTEM technology included
1 PUPILLA.F Pair of photocells
1 LAMPI24.LED 24 Vdc LED flashing light with built-in aerial
1 KEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA

<table>
<thead>
<tr>
<th>BULL624ESA</th>
<th>BULL624ESA,S</th>
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<tr>
<td>Code</td>
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<td>Power supply</td>
<td>230 Vac (50-60Hz)</td>
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<tr>
<td>Motor supply</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>0.5 A</td>
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<tr>
<td>Power consumption in stand-by</td>
<td>8 mA</td>
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<tr>
<td>Max Thrust</td>
<td>857 N</td>
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<tr>
<td>Opening speed</td>
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</tr>
<tr>
<td>Protection level</td>
<td>IP44</td>
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<tr>
<td>Magnetic limit switches</td>
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<td>Operating temperature</td>
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<td>Max gate weight</td>
<td>600 kg</td>
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<td>Driving gear for rack</td>
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<tr>
<td>Weight</td>
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<tr>
<td>Items no. per pallet</td>
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<tr>
<td>Kits no. per pallet</td>
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</tr>
</tbody>
</table>
AUTOMATIONS FOR SLIDING GATES
RESIDENTIAL USE
control with built-in encoder and receiver
personalised release key
up to 800 kg

230 Vac
• Electromechanical 230 Vac geared motor with built-in control unit
  and encoder
• The encoder device ensures crush prevention and precision in the
  gate moving phases
• Full metal release system
• Version with magnetic limit switches available (BULL8M.S)

COMPLETE KITS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>KBULL8M</td>
<td>BULL8M 320 Vac Operator with control unit and receiver</td>
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<tr>
<td></td>
<td>PUPILLA.F Pair of photocells</td>
</tr>
<tr>
<td></td>
<td>LAMPI.LED 230 Vac Led flashing light with built-in receiver</td>
</tr>
<tr>
<td></td>
<td>TOKEY Metal key selector</td>
</tr>
<tr>
<td></td>
<td>TO.GO2WV 433.92 MHz Transmitter</td>
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TECHNICAL DATA

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<thead>
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<td>9591524</td>
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<td>230 Vac (50-60Hz)</td>
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<td>Motor supply</td>
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<td>230 Vac</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>2.6 A</td>
<td>2.6 A</td>
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<tr>
<td>Max Thrust</td>
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<td>940 N</td>
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<tr>
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<td>10.5 m/min</td>
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<tr>
<td>Operation cycle</td>
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<tr>
<td>Protection level</td>
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<td>IP44</td>
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<tr>
<td>Magnetic limit switches</td>
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<td>YES</td>
</tr>
<tr>
<td>Operating temperature</td>
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<td>-20°C /+50°C</td>
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<tr>
<td>Max gate weight</td>
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<tr>
<td>Driving gear for rack</td>
<td>M4 Z18</td>
<td>M4 Z18</td>
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<tr>
<td>Weight</td>
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<td>11.4 kg</td>
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<td>Items no. per pallet</td>
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<td>36</td>
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<tr>
<td>Kits no. per pallet</td>
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CONTROL PANELS:
BULL8 OM —— CP.BULL8-OM p.128
BULL8 OM.S —— CP.BULL8-OM.S p.128

AUTOMATIONS FOR SLIDING GATES
COMMERCIAL USE
control with built-in encoder and receiver
personalised release key
oil lubrication
up to 800 kg

230 Vac
- Electromechanical 230 Vac geared motor with built-in control unit and encoder
- The encoder device ensures crush prevention and precision in the gate moving phases
- Full metal mechanics and oil lubrication ensures maximum gear durability. The type of oil used is also particularly effective, and ensures maximum efficiency even at low temperatures
- Reduced mechanical wear on components
- Full metal release system
- Version with magnetic limit switches available [BULL8OM.S]

COMPLETE KITS
K.BULL8OM
1 BULL8OM 230 Vac Operator with control unit and built-in receiver
1 PUPILLA.F Pair of photocells
1 LAMPI.LED 230 Vac LED flashing light with built-in aerial
1 TOKEY Metal key selector
1 TO.GO2WV 433.92 MHz Transmitter

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
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<th>BULL8 OM.S</th>
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<td>9591497</td>
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<td>230 Vac</td>
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<tr>
<td>Motor supply</td>
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<td>220 Vac</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>2.6 A</td>
<td>2.6 A</td>
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<tr>
<td>Max Thrust</td>
<td>940 N</td>
<td>940 N</td>
</tr>
<tr>
<td>Opening speed</td>
<td>10.5 m/min</td>
<td>10.5 m/min</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>40%</td>
<td>40%</td>
</tr>
<tr>
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<td>IP44</td>
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<tr>
<td>Magnetic limit switches</td>
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<td>YES</td>
</tr>
<tr>
<td>Operating temperature</td>
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<td>-20°C...+50°C</td>
</tr>
<tr>
<td>Lubrication</td>
<td>OIL</td>
<td>OIL</td>
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<tr>
<td>Max gate weight</td>
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<td>800 kg</td>
</tr>
<tr>
<td>Driving gear for rack</td>
<td>M4-218</td>
<td>M4-218</td>
</tr>
<tr>
<td>Weight</td>
<td>14.2 kg</td>
<td>14.2 kg</td>
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<td>Items no. per pallet</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Kits no. per pallet</td>
<td>30</td>
<td>-</td>
</tr>
</tbody>
</table>

- Electromechanical 230 Vac geared motor with built-in control unit and encoder
- The encoder device ensures crush prevention and precision in the gate moving phases
- Full metal mechanics and oil lubrication ensures maximum gear durability. The type of oil used is also particularly effective, and ensures maximum efficiency even at low temperatures
- Reduced mechanical wear on components
- Full metal release system
- Version with magnetic limit switches available [BULL8OM.S]
DESCRIPTION

230 Vac

- 230 Vac geared motor with built-in control unit and encoder
- The encoder device ensures crash prevention and precision in the gate moving phases
- Self-ventilating for increased usage intensity
- Version equipped with magnetic limit switches available (BULL10M.S)

24 Vdc

- 24 Vdc geared motor for intensive use, with built-in control unit, ESA SYSTEM and encoder
- Amperometric sensor obstacle detection system to prevent crushing
- Battery back-up system ready
- Version equipped with magnetic limit switches available (BULL1024ESA.S)

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>BULL10M</th>
<th>BULL10M.S</th>
<th>BULL1024ESA</th>
<th>BULL1024ESA.S</th>
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<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
</tr>
<tr>
<td>Motor supply</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.6 A</td>
<td>1.6 A</td>
<td>1.7 A</td>
<td>1.7 A</td>
</tr>
<tr>
<td>Power consumption in stand-by</td>
<td>8 mA</td>
<td>8 mA</td>
<td>8 mA</td>
<td>8 mA</td>
</tr>
<tr>
<td>Max Thrust</td>
<td>1020 N</td>
<td>1020 N</td>
<td>940 N</td>
<td>940 N</td>
</tr>
<tr>
<td>Opening speed</td>
<td>10.5 m/min</td>
<td>10.5 m/min</td>
<td>11.7 m/min</td>
<td>11.7 m/min</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>40%</td>
<td>40%</td>
<td>Intensive use</td>
<td>Intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP44</td>
<td>IP44</td>
<td>IP44</td>
<td>IP44</td>
</tr>
<tr>
<td>Magnetic limit switches</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
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<tr>
<td>Max gate weight</td>
<td>1000 kg</td>
<td>1000 kg</td>
<td>1000 kg</td>
<td>1000 kg</td>
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<tr>
<td>Driving gear for rack</td>
<td>MA 21B</td>
<td>MA 21B</td>
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<tr>
<td>Weight</td>
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<td>19.7 kg</td>
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<tr>
<td>Items no. per pallet</td>
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</tbody>
</table>
AUTOMATIONS FOR SLIDING GATES
COMMERCIAL USE
control with built-in encoder and receiver
personalised release key
up to 1,500 kg

230 Vac

- 230 Vac geared motor with built-in control unit and encoder
- The encoder device ensures crush prevention and precision in the gate moving phases
- Self-ventilating for increased usage intensity
- Version equipped with magnetic limit switches available (BULL15M.S)

TECHNICAL DATA

**BULL15M**

- Code: 9690576
- Power supply: 230 Vac (50-60Hz)
- Motor supply: 230 Vac
- Max absorbed current: 2.5 A
- Max Thrust: 1500 N
- Opening speed: 10.5 m/min
- Operation cycle: 60%
- Protection level: IP44
- Magnetic limit switches: NO
- Operating temperature: -20°C / +50°C
- Max gate weight: 1500 kg
- Driving gear for rack: M4 Z18
- Weight: 20.1 kg
- Items no. per pallet: 20

**BULL15M.S**

- Code: 9691017
- Power supply: 230 Vac (50-60Hz)
- Motor supply: 230 Vac
- Max absorbed current: 2.5 A
- Max Thrust: 1500 N
- Opening speed: 10.5 m/min
- Operation cycle: 60%
- Protection level: IP44
- Magnetic limit switches: YES
- Operating temperature: -20°C / +50°C
- Max gate weight: 1500 kg
- Driving gear for rack: M4 Z18
- Weight: 20.1 kg
- Items no. per pallet: 20
AUTOMATIONS FOR SLIDING GATES

**INDUSTRIAL USE**

**personalised release key**

**BULL20M**: control with built-in encoder and receiver

**BULL20T**: no control unit

**up to 2,000 kg**

### DESCRIPTION

230 Vac

- 230 Vac single phase geared motor with built-in control unit and encoder
- The encoder device ensures crush prevention and precision in the gate moving phases
- Control unit equipped with electronic braking
- Version equipped with magnetic limit switches available (BULL20M.S)

400 Vac

- 400 Vac three phase geared motor with external control unit and electronic braking
- Version equipped with magnetic limit switches available (BULL20T.S)

### TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>BULL20M</th>
<th>BULL20M.S</th>
<th>BULL20T</th>
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<td>-20°C /+50°C</td>
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<td>2000 kg</td>
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<td>2000 kg</td>
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<td>MA 218</td>
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</table>
230 Vac
• Single phase 230 Vac geared motor
• Full metal mechanics and oil lubrication. The type of oil used ensures maximum efficiency even at low temperatures
• Casing protective treatment and paint

• The encoder device ensures precision in the gate moving phases
• Optional built-in FTC.S protocol, available as accessory

TECHNICAL DATA

Code 9591448
Power supply 230 Vac (50-60Hz)
Motor supply 230 Vac
Max absorbed current 3 A
Max Thrust 1100 N
Opening speed 10.5 m/min
Operation cycle intensive use
Protection level IP44
Operating temperature -20°C +50°C
Lubrication OIL
Max gate weight 2000 kg
Driving gear for rack M4 Z18
Items no. per pallet 6

warning board.

ESA BASIC
System that reduces the electrical energy consumption.

RF
Device with a non rechargeable battery, with guaranteed duration 2 years. (Technical features on p. 176)

RF.SUN
Battery-operated device recharged by means of a photovoltaic panel applied on a mobile edge. (Technical features on p. 176)
**BISON25 OTI**

**AUTOMATIONS FOR SLIDING GATES**  
**INDUSTRIAL USE**

Control unit with built-in receiver, magnetic encoder and inverter of submerged gear  
IP68 limit switch  
Personalised release key  
Up to 2,500 kg

---

**230 Vac**

- Three phase 230 Vac geared motor, ventilated for intensive use  
- Full metal mechanics and oil lubrication. The type of oil used ensures maximum efficiency even at low temperatures  
- The encoder device ensures precision in the gate moving phases  
- Coating protective treatment and paint  
- The inverter technology allows for more precise adjustment of the gate moving phases, and increased crush prevention security  
- Optional built-in FTC.S photocells, available as accessory

---

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<td>Max thrust</td>
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<td>Opening speed</td>
<td>reg. 7-19 mm/min</td>
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<td>Operating temperature</td>
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<td>Lubrication</td>
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<tr>
<td>Max gate weight</td>
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<td>Cranking gear for rack</td>
<td>M4 278</td>
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</table>
BISON35 OTI

AUTOMATIONS FOR SLIDING GATES
INDUSTRIAL USE

- Control unit with built-in receiver, magnetic encoder and inverter
- Oil submerged gear
- IP68 limit switch
- Personalised release key
- Up to 3,500 kg

FOUNDATION PLATE NOT INCLUDED

230 Vac - 400 Vac

- Three phase electromechanical geared motor available in 230 Vac (can be connected to 230 Vac single phase network) or 400 Vac (can be connected to 400 Vac three phase network)
- Ventilated for intensive use
- The encoder device ensures precision in the gate moving phases
- Full metal mechanics and oil lubrication with maximum efficiency
- Casing protective treatment and paint
- The inverter technology allows for more precise adjustment of the gate moving phases, and increased crush prevention security
- Optional built-in FTC.S photocells, available as accessory

TECHNICAL DATA

<table>
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<th>BISON3S OTI L</th>
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<td>8 A</td>
</tr>
<tr>
<td>Max Thrust</td>
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<td>2500 N</td>
</tr>
<tr>
<td>Opening speed</td>
<td>reg. 7-19 m/min</td>
<td>10.5 m/min</td>
</tr>
<tr>
<td>Operation cycle</td>
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<td>Intensive use</td>
</tr>
<tr>
<td>Protection level</td>
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<td>IP44</td>
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<tr>
<td>Operating temperature</td>
<td>-20°C / +50°C</td>
<td>-20°C / +50°C</td>
</tr>
<tr>
<td>Lubrication</td>
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<td>OIL</td>
</tr>
<tr>
<td>Max gate weight</td>
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<td>3500 Kg</td>
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<td>Driving gear for rack</td>
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<td>M6 Z13</td>
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<td>Weight</td>
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<td>4</td>
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</tbody>
</table>

RF.SUN

Battery-operated device: rechargeable battery, with guaranteed duration 2 years. (Technical features on p. 176)

SC.RF

Device powered at 12/24 Vdc with self-test function and 2 outputs for connection to the electronic control panels. (Technical features on p. 176)
**AUTOMATIONS FOR SLIDING GATES**

**INDUSTRIAL USE**

Control unit with built-in receiver, magnetic encoder and inverter oil submerged gear
IP68 limit switch
Personalised release key
Up to 4,500 kg

**FOUNDATION PLATE**

Not included

---

**TECHNICAL DATA**

- **Code**: 9902183
- **Power supply**: 400 Vac (50-60Hz)
- **Motor supply**: 400 Vac
- **Max absorbed current**: 2.85 A
- **Max Thrust**: 5000 N
- **Opening speed**: Reg. 7-19 m/min
- **Operation cycle**: Intensive use
- **Protection level**: IP68
- **Operating temperature**: -20°C to +50°C
- **Lubrication**: Oil
- **Max gate weight**: 4500 kg
- **Driving gear for rack**: M6 Z18
- **Weight**: 75 kg
- **Items no. per pallet**: 4

---

**BISON45 OTI CP**

- Three phase 400 Vac geared motor, ventilated for intensive use
- Security sensor which interrupts the motor power supply during release operations
- Full metal mechanics and oil lubrication. The type of oil used ensures maximum efficiency even at low temperatures
- Casing protective treatment and paint

- The encoder device ensures precision in the gate moving phases
- The inverter technology allows for more precise adjustment of the gate moving phases, and increased crush prevention security
- Optional built-in FTC.S protocols, available as accessory
AUTOMATIONS FOR
GARAGE & INDUSTRIAL DOORS

ZED
Counterweight garage doors

230 Vac
ZED.RIE
ZED.SC
ZEDL.RIE
ZEDL.SC

24 Vdc
ZED24.RI
ZED24.SC

CP.ZED24* E
LOGICA

JM
Sectional garage doors

230 Vac
JM.3
JM.3ESA
JM.4ESA

24 Vdc

INDUSTRIAL USE

230 Vac
VN.S
VN.M
VN.ST
VN.MT

400 Vac

24 Vdc

CONTROL PANELS

400 Vac

400 Vac

230 Vac

THINK / START
THINK / START

THINK / START / WAVE
THINK / START / WAVE

THINK / START / CELL.P
THINK / START

THINK / START / WAVE
THINK / START / WAVE

THINK / START / WAVE

* Built-in control panel
### AUTOMATIONS FOR COUNTERWEIGHT GARAGE DOORS RESIDENTIAL/COMMERCIAL USE

Control with built-in encoder and receiver up to 12.5 m²

**DESCRIPTION**

Electromechanical irreversible geared motor for tilt up doors with counterswheels for residential use. Available in the 230 Vac and 24 Vdc versions with or without control unit. Courtesy light, limit switch and control buttons built-in.

230 Vac
- Irreversible 230 Vac electromechanical geared motor also available in the ZED.IRIE version for large doors
- The encoder device ensures crush prevention and precision in the door moving phases

24 Vdc
- Irreversible 24 Vdc electromechanical geared motor for intensive use
- Optional battery powered operation
- Amperometric sensor obstacle detection system to prevent crushing

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>ZED.RIE</th>
<th>ZED.SC</th>
<th>ZED.IRIE</th>
<th>ZED.ISC</th>
<th>ZED24.RI</th>
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<td>230 Vac</td>
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<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
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<td>NO</td>
<td>YES</td>
<td>NO</td>
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<tr>
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<td>YES</td>
<td>NO</td>
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</table>

**Control Panels**

- ZED.RIE: CP.ZED230-E p.132
- ZED.SC: LOGICA p.116
- ZED.IRIE: CP.ZED230-I p.133
- ZED.ISC: LOGICA p.116
- ZED24.RI: CP.ZED24.RI p.139
- ZED24.SC: LOGICA24.RI p.124

**Accessories**

- AU.65: 650 mm Mounting plate.
- AU.125: 1,250 mm Mounting plate.
- AU.20: 2,000 mm Mounting plate.
- AU.45Z: Pair of galvanized pipes 1,500 mm long, with fitting accessories and bush (for lateral mounting).
- AU.45ZL: Pair of straight galvanized arms, complete with fitting accessories (L = 2,000 mm).
- AU2.C: Pair of bent galvanized arms, complete with fitting accessories.
- AU2.D: Pair of straight galvanized arms, complete with fitting accessories (L = 600 mm).
- AU2.D45: Pair of straight galvanized arms, with welded bush, complete with fitting accessories (L = 600 mm).
- AU2.DNS: Pair of straight galvanized arms with bush and fitting accessories (L = 600 mm).
- AU2.D45L: Pair of straight galvanized arms, with bush, complete with fitting accessories (L = 2,000 mm).

**Cables**

- CABLE.24E: Cable reel with 5 conductors (2 for motor, 3 for encoder) for connecting the encoder device in the 24 Vdc versions.

**Optional Accessories**

- KSUN: Kit for system operation via solar panel. For 24 Vdc models.
- ESA BASIC: System that reduces the electrical energy consumption. In the 24 Vdc version, the use of ESA BASIC is not compatible with the battery operation.
JIM AUTOMATIONS FOR SECTIONAL GARAGE DOORS
RESIDENTIAL/COMMERCIAL USE
belt or chain driven
control with built-in encoder and receiver
1 TO.GO2W transmitter included
up to 22 m²

RAIL NOT INCLUDED

CONTROL PANELS:

<table>
<thead>
<tr>
<th>JIM</th>
<th>CP.J3M</th>
<th>p.140</th>
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<tbody>
<tr>
<td>JIM.3ESA</td>
<td>CP.J4ESA</td>
<td>p.141</td>
</tr>
<tr>
<td>JIM.4ESA</td>
<td>CP.J4ESA</td>
<td>p.141</td>
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COMPATIBILITY CHART

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<th>JM.3ESA</th>
<th>JM.4ESA</th>
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<td>PTC.4</td>
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<td>✔</td>
<td>✔</td>
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<td>PTCI.4</td>
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<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>PTCL.4</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>PTCSXL.4</td>
<td>✔</td>
<td>✔</td>
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</tr>
</tbody>
</table>

| WITH BELT RAIL | | | |
| PTC.3 | 3024 mm | | |
| PTC.4 | 3024 mm | | |
| PTCI.3 | 2660 mm | | |
| PTCI.4 | 2660 mm | | |
| PTCL.4 | 4024 mm | | |
| PTCSXL.4 | 5024 mm | | |

| WITH CHAIN RAIL | | | |
| P25 | 3066 mm | | |
| P25I | 3066 mm | | |
| P35 | 3904 mm | | |

TECHNICAL DATA

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<thead>
<tr>
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<th>JIM.3ESA</th>
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<td>-20°C +50°C</td>
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<tr>
<td>Max door surface</td>
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<tr>
<td>Items no. per pallet</td>
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</tbody>
</table>

24 Vdc intensive use
• Inverter 24 Vdc geared motor for intensive use
• Adjustable travel with mechanical stops
• Amperometric sensor/obstacle detection system to prevent crushing
• Operation guaranteed even during electrical power cut, via batteries which integrate perfectly into the motor

Step by step command ready
• Built-in energy-saving LED courtesy light
• The encoder device assures maximum safety and precision in the door moving phases

COMPATIBILITY CHART

<table>
<thead>
<tr>
<th>RAIL</th>
<th>JM.3</th>
<th>JM.3ESA</th>
<th>JM.4ESA</th>
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<tbody>
<tr>
<td>P25</td>
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<td>✔</td>
<td>✔</td>
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<tr>
<td>P25I</td>
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<td>✔</td>
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<tr>
<td>P35</td>
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<td>✔</td>
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</tr>
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ZED.MS
Wire manual unlock device.

ID.TA
Warning board.

PTC.AR
Bracket for fast ceiling attachment of JIM belt models (PTC).
Available in 5 pcs packing.

PTC.I.3
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/ESA only).
Two pieces 1.4 m each

P25
Pre-assembled rail with belt for doors up to H 2.5 m (for model JM.3/ESA only).
Whole piece 2.8 m long

P25I
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/ESA/ESA Model JM.3/JM.4ESA).
Two pieces 1.5 m each

PTC.4
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/JM.3ESA/JM.4ESA).
Two pieces 1.5 m each

PTC.I.4
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/JM.3ESA/JM.4ESA).
Whole piece 3 m long

PTC.I.3
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m, (for model JM.3/ESA only).
Whole piece 3 m long

PTC.I.4
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/JM.3ESA/JM.4ESA).
Whole piece 3 m long

PTC.SXL.4
Non-assembled rail with belt for doors up to 4.5 m in height (for model JM.3/JM.3ESA/JM.4ESA).
5 parts of 1 m each

PTC.SXL.4
Pre-assembled and pre-tightened rail with belt for doors up to H 2.5 m (for model JM.3/ESA/ESA Model JM.3/JM.4ESA).
Whole piece 3 m long

ESBCM BASIC
System that reduces the electrical energy consumption. In the JM.3 model, the use of ESA BASIC is not compatible with the battery operation.

KSUN
Inverter Kit for system operation via solar panel. For 24 Vdc models.
AUTOMATIONS FOR SECTIONAL DOORS AND ROLLING DOORS INDUSTRIAL USE

up to 40 m²

ON DEMAND THE OPERATORS CAN BE EQUIPPED WITH ELECTRIC BRAKE

230 Vac - 400 Vac

- Irreversible electromechanical geared motor with rapid release available in the single phase 230 Vac and three phase 400 Vac version.
- Models with a reduction ratio of 1:20 or 1:40 are available for both versions, to cater for different application needs.
- Two accessories are available for the chain drive with a reduction ratio of 1:1 (off-axis motor installation) or 1:1.8 (torque or speed multipliers).

Easy and precise limit switch position adjustment

- Maximum security guaranteed even in the phases where the quick release is actuated, thanks to a micro-switch that interrupts the power supply to the engine.
- The oil bath submerged gears with hardened steel screws and bronze gear ensures high performance, maximum reliability and low noise.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>VN.S20</th>
<th>VN.S40</th>
<th>VN.ST20</th>
<th>VN.ST40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor supply</td>
<td>230 Vac (50-60Hz)</td>
<td>230 Vac (50-60Hz)</td>
<td>400 Vac (50-60Hz)</td>
<td>400 Vac (50-60Hz)</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>3.3 A</td>
<td>3.3 A</td>
<td>1.7 A</td>
<td>1.7 A</td>
</tr>
<tr>
<td>Max torque</td>
<td>130 Nm</td>
<td>130 Nm</td>
<td>180 Nm</td>
<td>180 Nm</td>
</tr>
<tr>
<td>Maximum output rotations</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Output speed</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
</tr>
<tr>
<td>Shaft hole</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
</tr>
<tr>
<td>Limit switch red. ratio</td>
<td>1:20</td>
<td>1:40</td>
<td>1:20</td>
<td>1:40</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>50%</td>
<td>50%</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
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<tr>
<td>Max door surface</td>
<td>35 m²/max</td>
<td>35 m²/max</td>
<td>40 m²/max</td>
<td>40 m²/max</td>
</tr>
<tr>
<td>Lubrication</td>
<td>OIL</td>
<td>OIL</td>
<td>OIL</td>
<td>OIL</td>
</tr>
<tr>
<td>Weight</td>
<td>14.7 kg</td>
<td>14.7 kg</td>
<td>14.7 kg</td>
<td>14.7 kg</td>
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<tr>
<td>Items no. per pallet</td>
<td>48</td>
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### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>VN.M20</th>
<th>VN.M40</th>
<th>VN.MT20</th>
<th>VN.MT40</th>
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</thead>
<tbody>
<tr>
<td>Motor supply</td>
<td>230 Vac (50-60Hz)</td>
<td>230 Vac (50-60Hz)</td>
<td>400 Vac (50-60Hz)</td>
<td>400 Vac (50-60Hz)</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>3.3 A</td>
<td>3.3 A</td>
<td>1.7 A</td>
<td>1.7 A</td>
</tr>
<tr>
<td>Max torque</td>
<td>130 Nm</td>
<td>130 Nm</td>
<td>190 Nm</td>
<td>190 Nm</td>
</tr>
<tr>
<td>Maximum output rotations</td>
<td>18</td>
<td>38</td>
<td>18</td>
<td>38</td>
</tr>
<tr>
<td>Output speed</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
<td>24 r.p.m.</td>
</tr>
<tr>
<td>Shaft hole</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
<td>1&quot; (25.4mm)</td>
</tr>
<tr>
<td>Limit switch led position</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
<td>IP40</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
<td>-20°C ~ +50°C</td>
</tr>
<tr>
<td>Max door surface</td>
<td>35 m²</td>
<td>40 m²</td>
<td>40 m²</td>
<td>40 m²</td>
</tr>
<tr>
<td>Lubrication</td>
<td>OIL</td>
<td>OIL</td>
<td>OIL</td>
<td>OIL</td>
</tr>
<tr>
<td>Weight</td>
<td>18.5 kg</td>
<td>18.5 kg</td>
<td>18.5 kg</td>
<td>18.5 kg</td>
</tr>
<tr>
<td>Items no. per pallet</td>
<td>48</td>
<td>48</td>
<td>48</td>
<td>48</td>
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</tbody>
</table>

---

**AUTOMATIONS FOR SECTIONAL DOORS AND ROLLING DOORS**

**INDUSTRIAL USE**

**up to 40 m²**

**WITH MANUAL EMERGENCY CHAIN OVERRIDE**

- Irreversible electromechanical geared motor with manual emergency chain override available in both the 230 Vac single phase and the 400 Vac three phase versions.
- Models with a reduction ratio of 1/20 or 1/40 are available for both versions, to cater for different application needs.
- Two accessories are available for the chain drive with a reduction ratio of 1/1 (off-axis motor installation) or 1/1.8 (torque or speed multipliers).

- Easy and precise limit switch position adjustment.
- Maximum security guaranteed even in manual manoeuvre phases, thanks to a micro-switch that interrupts the power supply to the engine.
- The oil bath submerged gears with hardened steel screws and bronze gear ensure high performance, maximum reliability and low noise.

---

**CONTROL PANELS:**

<table>
<thead>
<tr>
<th>Code</th>
<th>p.119</th>
<th>p.120</th>
<th>p.120</th>
<th>p.120</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN.M30</td>
<td>THINK</td>
<td>START</td>
<td>WAVE</td>
<td>START</td>
</tr>
<tr>
<td>VN.M40</td>
<td>THINK</td>
<td>START</td>
<td>WAVE</td>
<td>START</td>
</tr>
<tr>
<td>VN.MT20</td>
<td>THINK</td>
<td>START</td>
<td>WAVE</td>
<td>START</td>
</tr>
<tr>
<td>VN.MT40</td>
<td>THINK</td>
<td>START</td>
<td>WAVE</td>
<td>START</td>
</tr>
</tbody>
</table>

---

**230 Vac - 400 Vac**

- Inverterized electromechanical geared motor with manual emergency chain override available in both the 230 Vac single phase and the 400 Vac three phase versions.
- Models with a reduction ratio of 1/20 or 1/40 are available for both versions, to cater for different application needs.
- Two accessories are available for the chain drive with a reduction ratio of 1/1 (off-axis motor installation) or 1/1.8 (torque or speed multipliers).

---

**APPLICATIONS:**

- **VN.CTA**
  - Chain extension for VN.M.

- **VN.A30**
  - 380 Vac motor
  - 24 r.p.m.
  - Shaft adapter Ø 30 mm.

- **VN.A3175**
  - 380 Vac motor
  - 24 r.p.m.
  - Shaft adapter Ø 31.75 mm.

- **VN.A40**
  - 400 Vac motor
  - 24 r.p.m.
  - Shaft adapter Ø 40 mm.

- **VN.A40**
  - 400 Vac motor
  - 24 r.p.m.
  - Shaft adapter Ø 40 mm.

---

**MOTOR SUPPLY:**

- **Motors: VN.M20 and VN.M40**
  - 230 Vac (50-60Hz)
  - 400 Vac (50-60Hz)

- **Motors: VN.MT20 and VN.MT40**
  - 400 Vac (50-60Hz)

---

**ACCESSORIES:**

- **IP.R.00**
  - Industrial keypad fitted with 2 contacts that are normally open.

- **IP.R.01**
  - Industrial keypad fitted with 2 contacts that are normally closed.

- **RF.SUN**
  - Battery-operated device rechargeable by means of a photovoltaic panel applied on a mobile edge. (Technical features on p. 179)

- **RF.SUN**
  - Device with a non rechargeable battery, with guaranteed duration 2 years. (Technical features on p. 179)

- **RF.SUN**
  - Battery-operated device recharged by means of a photovoltaic panel applied on a mobile edge. (Technical features on p. 179)

---

**Electrical Parameters:**

- **SC.RF**
  - Device powered at 24 Vdc with self-test function and 2 outputs for connection to the electronic control panels. (Technical features on p. 179)

- **ESA BASIC**
  - System that reduces the electrical energy consumption.

---

**WEIGHTS:**

| Weight | 18.5 kg | 18.5 kg | 18.5 kg | 18.5 kg |

---

**VN.M AUTOMATIONS FOR GARAGE & INDUSTRIAL DOORS**

**MADE IN ITALY**
AUTOMATIONS FOR LARGE SECTIONAL DOORS, ROLLING DOORS AND UNBALANCED SHUTTERS
INDUSTRIAL USE

400 Vac

- Irreversible electromechanical geared motor equipped with manual chain override and emergency release
- Ventilated motor ideal for intensive use and equipped with electric brake
- Two accessories are available for the chain drive with a reduction ratio of 1:1 (off-axis motor installation) or 1:1.8 (torque or speed multipliers)
- Easy and precise limit switch position adjustment
- Maximum security guaranteed even in manual manoeuvre phases, thanks to a micro-switch that interrupts the power supply to the engine
- Oil bath submerged gears with hardened steel screws and bronze gear

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>9590377</th>
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</thead>
<tbody>
<tr>
<td>Motor supply</td>
<td>400 Vac (50-60Hz)</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>2.2 A</td>
</tr>
<tr>
<td>Max torque</td>
<td>340 Nm</td>
</tr>
<tr>
<td>Maximum output rotations</td>
<td>28</td>
</tr>
<tr>
<td>Output speed</td>
<td>24 r.m.</td>
</tr>
<tr>
<td>Shaft hole</td>
<td>1” (25.4 mm)</td>
</tr>
<tr>
<td>Limit switch red. ratio</td>
<td>1/40</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP40</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C +50°C</td>
</tr>
<tr>
<td>Lubrication</td>
<td>OIL</td>
</tr>
<tr>
<td>Weight</td>
<td>23 kg</td>
</tr>
<tr>
<td>Items no. per pallet</td>
<td>30</td>
</tr>
</tbody>
</table>

- Irreversible electromechanical geared motor equipped with manual chain override and emergency release
- Ventilated motor ideal for intensive use and equipped with electric brake
- Two accessories are available for the chain drive with a reduction ratio of 1:1 (off-axis motor installation) or 1:1.8 (torque or speed multipliers)
- Easy and precise limit switch position adjustment
- Maximum security guaranteed even in manual manoeuvre phases, thanks to a micro-switch that interrupts the power supply to the engine
- Oil bath submerged gears with hardened steel screws and bronze gear
230 Vac

• Irreversible electromechanical geared motor
• Built-in wire release and handle
• Maximum security guaranteed even in the phases where the quick release is actuated, thanks to a micro-switch that interrupts the power supply to the engine.

• Easy and precise limit switch position adjustment
• The oil bath submerged gears with hardened steel screws and bronze gear ensures high performance, maximum reliability and low noise.

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>VN.S40V</th>
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</thead>
<tbody>
<tr>
<td>Motor supply</td>
<td>230 Vac (50-60Hz)</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Max torque</td>
<td>135 Nm</td>
</tr>
<tr>
<td>Maximum output rotations</td>
<td>38</td>
</tr>
<tr>
<td>Output speed</td>
<td>48 r.p.m.</td>
</tr>
<tr>
<td>Shaft hole</td>
<td>1&quot; (25.4mm)</td>
</tr>
<tr>
<td>Limit switch red. ratio</td>
<td>1/40</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>40%</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP40</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C / +50°C</td>
</tr>
<tr>
<td>Max door weight</td>
<td>800 kg</td>
</tr>
<tr>
<td>Lubrication</td>
<td>OIL</td>
</tr>
<tr>
<td>Weight</td>
<td>15 kg</td>
</tr>
<tr>
<td>Items no. per pallet</td>
<td>48</td>
</tr>
</tbody>
</table>
ADAM / ADAM24

AUTOMATIONS FOR FOLDING DOOR WITH MAX 2 WINGS INDUSTRIAL USE
with built-in encoder device

DESCRIPTION
Inreversible electromechanical geared motor available in 230 Vac or 24 Vdc with encoder. Simple and quick to install, equipped with wire quick release. Accessory for led courtesy lights available.

230 Vac
- Inreversible 230 Vac geared motor
- The presence of the encoder ensures crush prevention and precision in the door moving phases
- Internal metal gears ensure maximum performance and durability over time

24 Vdc
- Inreversible 24 Vdc geared motor for intensive use
- The encoder device ensures maximum safety and precision in the door moving phases
- Amperometric sensor obstacle detection system to prevent crushing
- Internal metal gears ensure maximum performance and durability over time

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>ADAM</th>
<th>ADAM24</th>
</tr>
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<tbody>
<tr>
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<td>230 Vac (50-60Hz)</td>
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<td>Motor supply</td>
<td>230 Vac</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.75 A</td>
<td>8 A</td>
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<tr>
<td>Torque</td>
<td>350 Nm</td>
<td>260 Nm</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>30%</td>
<td>intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP44</td>
<td>IP44</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C /+50°C</td>
<td>-20°C /+50°C</td>
</tr>
<tr>
<td>Leaf max dimension</td>
<td>1.5 m</td>
<td>1.3 m</td>
</tr>
<tr>
<td>Leaf max weight</td>
<td>120 kg</td>
<td>100 kg</td>
</tr>
<tr>
<td>Weight</td>
<td>12.4 kg</td>
<td>11.2 kg</td>
</tr>
<tr>
<td>Items no. per pallet</td>
<td>24</td>
<td>24</td>
</tr>
</tbody>
</table>
ROAD BARRIERS
& CAR PARK SAVER

**ROAD BARRIERS**

- **LADY**
  - up to 4 m
  - 24 Vdc
  - Built-in control panel

- **LADY.5**
  - up to 5 m
  - 24 Vdc
  - Built-in control panel

- **EVA.5**
  - up to 5 m
  - 24 Vdc
  - Built-in control panel

- **VE.500**
  - up to 5 m
  - 24 Vdc
  - Built-in control panel

- **VE.650**
  - up to 6.5 m
  - 24 Vdc
  - Built-in control panel

- **EVA.7**
  - up to 7 m
  - 24 Vdc
  - Built-in control panel

**CAR PARK SAVER**

- **VE.SOR**
  - automatic
  - 24 Vdc
  - Built-in control panel

- **VE.SOM**
  - manual
  - 24 Vdc
  - Built-in control panel

**CONTROL PANELS**

- **DA.24V**
- **DA.24V**
- **DA.24V**
- **DA.24V**
- **C.P.EVA**
- **DA.24V**
- **DA.24V**
- **C.P.EVA**
- **DA.24V**
- **DA.24V**
- **C.P.EVA**
- **DA.504**
- **---**

* Built-in control panel
EVA.5 ROAD BARRIERS & CAR PARK SAVER

ROAD BARRIERS
integrated control box
with external release
galvanized and painted casing and cover
for passages up to 5 m
FOUNDATION PLATE
AND RECEIVER
NOT INCLUDED

24 Vdc intensive use
- 24 Vdc electromechanical barrier for intensive use. The barrier can be easily switched over to the other side.
- Easy and fast programming of the control panel thanks to its being positioned on the top of the road barrier
- Extremely easy use and programming of the road barrier
- Possibility of integrated FTC.S photocells thanks to the innovative hide-away system
- Possibility of battery back up system
- Amperometric anticrushing control

New fast acting release
- Elliptical rod with built-in rubber profile and optional built-in led lights
- Built-in flasher requires EVA.LAMP card accessory
- Three adjustable limit switches for the braking phases and the closure position
- 2 adjustable mechanical stops
- Simple, quick and reliable rod balancing system
- Foundation plate accessory with VE.PS coach screws

ACCESSORIES
FOR USE
EVA5.A
VE.PS
VE.RAST
VE.SUP
VE.TERM
VE.AM
VE.KM2HN
VE.CS
VE.LAM
VE.CAT5
KSUN
EVA5.G
ESA BASIC

TECHNICAL DATA
Code: 00783106
Power supply: 230 Vac (50-60Hz)
Motor supply: 24 Vdc
Max absorbed current: 1.6 A
Torque: 205 Nm
Opening time: 3” - 5”
Operation cycle: intensive use
Protection level: IP44
Operating temperature: -20°C /+50°C
Weight: 55 kg
Items no. per pallet: 9

Attention: The installation of the VE.RAST interferes with the use of the SC.RES and vice versa. The installation of the EVA.L lights kit does not influence the balancing of the bar.

TECHNICAL DATA
EVA.5

<table>
<thead>
<tr>
<th>ACCESSORIES FOR USE</th>
<th>BAR LENGTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVA5.A + VE.RAST</td>
<td>2 2.5 3 3.5 4 4.5 5</td>
</tr>
<tr>
<td>EVA5.A + VE.AM</td>
<td>C C B B A A</td>
</tr>
<tr>
<td>EVA5.G + VE.RAST</td>
<td>C B B A A A</td>
</tr>
<tr>
<td>EVA5.G + VE.AM</td>
<td>C B B A A A</td>
</tr>
<tr>
<td>EVA5.G + SC.RES</td>
<td>C B B A A A</td>
</tr>
<tr>
<td>EVA5.G + SC.RES + VE.AM</td>
<td>C B B A A A</td>
</tr>
</tbody>
</table>

Foundation plate with coach screws for EVA.5.
Mobile support for bars.
Thermostat for very cold places.
Stainless steel channel loop reflector.
Traffic-light control unit for LED.TL.
2 light 230 Vac LED traffic light.
Kit for system operation via solar panel. For 24 Vdc models.
ROAD BARRIERS
integrated control box
with external release
2 standard 480 mm springs included
galvanized and painted casing and cover
for passages up to 7 m

FOUNDATION PLATE
AND RECEIVER
NOT INCLUDED

EVA.7

24 Vdc intensive use
• 24 Vdc electromechanical barrier for intensive use. The barrier can be easily switched over to the other side.
• Easy and fast programming of the control panel thanks to its being positioned on the top of the road barrier
• Extremely easy use and programming of the road barrier
• Possibility of integrated FTC.S photocells thanks to the innovative hide-away system
• Possibility of battery back up system
• Amperometric anticrushing control

New fast acting release (available from July 2014)
• Elliptical rod with built-in rubber profile and optional built-in led lights
• Built-in flasher (requires EVA.LAMP card accessory)
• Three adjustable limit switches for the braking phases and the closure position
• 2 adjustable mechanical stops
• Simple, quick and reliable rod balancing system
• Foundation plate accessory with VE.P650 coach screws

Attention: The installation of the VE.RAST interferes with the use of the VE.RES and vice versa. The installation of the EVA.L lights kit does not influence the balancing of the bar.

<table>
<thead>
<tr>
<th>BAR LENGTH (m)</th>
<th>TYPE OF SPRING</th>
<th>APPROX. TENSIONING OF THE SPRING (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Standard spring</td>
<td>35</td>
</tr>
<tr>
<td>5.5</td>
<td>Standard spring</td>
<td>35</td>
</tr>
<tr>
<td>6</td>
<td>EVA.KM + Standard spring</td>
<td>35 / 65</td>
</tr>
</tbody>
</table>

VE.P650

VE.RAST

VE.P650

VE.RAST

VE.P650

VE.RAST

VE.P650

VE.RAST

VE.P650

VE.RAST
The installation of the VE.RAST interferes with the use of the SC.RES and vice versa. The installation of the LADY.L lights kit does not influence the balancing of the bar.

LADY ROAD BARRIERS & CAR PARK SAVER

ROAD BARRIERS
integrated control box for passages up to 4 m

FOUNDATION PLATE AND RECEIVER NOT INCLUDED

24 Vdc intensive use

- Electromechanical 24 Vdc, right barrier for intensive use. The barrier can be easily converted to left operation.
- Manual release with external activation.
- Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration.
- 2 adjustable mechanical stops.
- Optional battery powered operation.

- Amperometric sensor obstacle detection system to prevent crushing.
- Three adjustable limit switches for the braking phases and the closure position.
- Stainless steel version LADY available.
- Simple, quick and reliable rod balancing system.
- Foundation plate accessory with VE.PS coach screws.

VE.RAST
4.2 m aluminium arm with caps included (300x45x3 mm).
Available in two pieces needs the joint LADY.GT.

VE.AM
9078020
Mobile support for bars.

VE.KM2HN
9511004
Kit for system operation via solar panel.
For 24 Vdc models.

VE.CAT500
9549020
Set of 20 adhesive refractor strips for LADY.A / LADY.P.

VE.KM1HN
9514268
Single/two channel loop detector.

LADY A
9081001
4.2 m aluminium arm with caps included (300x45x3 mm).
Available in two pieces needs the joint LADY.GT.

LADY.P
9081002
4.2 m white painted aluminium arm. Caps are included. Provided with red rubber profiles.

LADY.GT
9424001
Aluminium joint for LADY.A.

LADY.L
9534001
Flashing light set for LADY.P.

LADY.COL
9230001
Support for the installation of a second pair of photocell.

VE.PS
9623068
Foundation plate with coach screws for LADY.

VE.CS
9760050
Traffic-light control unit for LED.TL.

LED.TL
9766003
2 light 230 Vac LED traffic light.

• Electromechanical 24 Vdc right barrier for intensive use.
  The barrier can be easily converted to left operation.
• Manual release with external activation.
• Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration.
• 2 adjustable mechanical stops.
• Optional battery powered operation.

• Amperometric sensor obstacle detection system to prevent crushing.
• Three adjustable limit switches for the braking phases and the closure position.
• Stainless steel version LADY available.
• Simple, quick and reliable rod balancing system.
• Foundation plate accessory with VE.PS coach screws.

VE.AFI
9078015
Painted/ Stainless steel fixed support for bars.

VE.AF
9078010

LADY.A
9081001
4.2 m aluminium arm with caps included (4200x60x38 mm). Available in two pieces needs the joint (LADY.GT).

LADY.P
9081002
4.2 m white painted aluminium arm. Caps are included. Provided with red rubber profiles.

LADY.GT
9424001
Aluminium joint for LADY.A.

LADY.COL
9230001
Support for the installation of a second pair of photocell.

VE.PS
9623068
Foundation plate with coach screws for LADY.

VE.CS
9760050
Traffic-light control unit for LED.TL.

LED.TL
9766003
2 light 230 Vac LED traffic light.

• Electromechanical 24 Vdc right barrier for intensive use.
  The barrier can be easily converted to left operation.
• Manual release with external activation.
• Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration.
• 2 adjustable mechanical stops.
• Optional battery powered operation.

• Amperometric sensor obstacle detection system to prevent crushing.
• Three adjustable limit switches for the braking phases and the closure position.
• Stainless steel version LADY available.
• Simple, quick and reliable rod balancing system.
• Foundation plate accessory with VE.PS coach screws.

VE.AFI
9078015
Painted/ Stainless steel fixed support for bars.

VE.AF
9078010

LADY.A
9081001
4.2 m aluminium arm with caps included (4200x60x38 mm). Available in two pieces needs the joint (LADY.GT).

LADY.P
9081002
4.2 m white painted aluminium arm. Caps are included. Provided with red rubber profiles.

LADY.GT
9424001
Aluminium joint for LADY.A.

LADY.COL
9230001
Support for the installation of a second pair of photocell.

VE.PS
9623068
Foundation plate with coach screws for LADY.

VE.CS
9760050
Traffic-light control unit for LED.TL.

LED.TL
9766003
2 light 230 Vac LED traffic light.

• Electromechanical 24 Vdc right barrier for intensive use.
  The barrier can be easily converted to left operation.
• Manual release with external activation.
• Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration.
• 2 adjustable mechanical stops.
• Optional battery powered operation.

• Amperometric sensor obstacle detection system to prevent crushing.
• Three adjustable limit switches for the braking phases and the closure position.
• Stainless steel version LADY available.
• Simple, quick and reliable rod balancing system.
• Foundation plate accessory with VE.PS coach screws.
**LADY.5**

**ROAD BARRIERS**
integrated control box for passages up to 5 m

**FOUNDATION PLATE AND RECEIVER NOT INCLUDED**

---

**24 Vdc intensive use**

- Electromechanical 24 Vdc right barrier for intensive use. The barrier can be easily converted to left operation.
- Manual release with external activation.
- Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration.
- 2 adjustable mechanical stops.
- Optional battery powered operation.

- Amperometric sensor obstacle detection system to prevent crushing.
- Three adjustable limit switches for the braking phases and the closure position.
- Stainless steel version LADY.5S available.
- Simple, quick, and reliable rod balancing system.
- Foundation plate accessory with VE.PS coach screws.

---

**ACCESSORIES FOR USE**

<table>
<thead>
<tr>
<th>ACCESSORY</th>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LADY.5</td>
<td>9081027</td>
<td>5.2 m white painted aluminium arm. Caps are included. Precast rack rod rubber profiles.</td>
</tr>
<tr>
<td>VE.PS</td>
<td>9623068</td>
<td>Foundation plate with coach screws for LADY.5.</td>
</tr>
<tr>
<td>VE.TERM</td>
<td>9643019</td>
<td>Thermostatic for very cold places.</td>
</tr>
<tr>
<td>VE.AM</td>
<td>9078020</td>
<td>Mobile support for bars.</td>
</tr>
<tr>
<td>VE.RAST</td>
<td>9672010</td>
<td>Aluminium rack L= 2 m. H= 80 cm.</td>
</tr>
<tr>
<td>VE.CAT500</td>
<td>9549020</td>
<td>Set of 20 adhesive refractor strips for LADY.5.</td>
</tr>
<tr>
<td>VE.CS</td>
<td>9760050</td>
<td>Traffic-light control unit for LED.TL.</td>
</tr>
<tr>
<td>LED.TL</td>
<td>9766003</td>
<td>2 light 230 Vac LED traffic light.</td>
</tr>
<tr>
<td>KSUN</td>
<td>9611004</td>
<td>Kit for system operation via solar panel. For 24 Vdc models.</td>
</tr>
<tr>
<td>VE.KM1HN</td>
<td>9614267</td>
<td>Single/two-channel loop detector.</td>
</tr>
<tr>
<td>VE.KM2HN</td>
<td>9614268</td>
<td>Single/two-channel loop detector.</td>
</tr>
<tr>
<td>ESA BASIC</td>
<td>9176108</td>
<td>System that reduces the electrical energy consumption. In the LADY.5 model, the use of ESA BASIC is not compatible with the battery operation.</td>
</tr>
<tr>
<td>VE.VA1</td>
<td>9078015</td>
<td>Painted/Stainless steel fixed support for bars.</td>
</tr>
<tr>
<td>VE.AF</td>
<td>9078010</td>
<td>Painted/Stainless steel fixed support for bars.</td>
</tr>
</tbody>
</table>

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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>9083052</td>
<td>TECHNICAL DATA LADY.5</td>
</tr>
<tr>
<td>230 Vac [50-60Hz]</td>
<td>Power supply 24 Vac.</td>
</tr>
<tr>
<td>24 Vdc</td>
<td>Motor supply 24 Vdc.</td>
</tr>
<tr>
<td>1.6 A</td>
<td>Max absorbed current 1.6 A.</td>
</tr>
<tr>
<td>205 Nm</td>
<td>Torque 205 Nm.</td>
</tr>
<tr>
<td>3&quot; - 5&quot;</td>
<td>Opening time 3&quot; - 5&quot;.</td>
</tr>
<tr>
<td>intensive use</td>
<td>Operation cycle intensive use.</td>
</tr>
<tr>
<td>IP44</td>
<td>Protection level IP44.</td>
</tr>
<tr>
<td>-20°C /+50°C</td>
<td>Operating temperature -20°C /+50°C.</td>
</tr>
<tr>
<td>52 kg</td>
<td>Weight 52 kg.</td>
</tr>
<tr>
<td>9</td>
<td>Items no. per pallet 9.</td>
</tr>
</tbody>
</table>
VE.500

ROAD BARRIERS
integrated control box equipped with 1 white spring for passages up to 5 m

FOUNDATION PLATE AND RECEIVER NOT INCLUDED

24 Vdc intensive use

- Electromechanical 24 Vdc right barrier for intensive use. The barrier can be easily converted to left operation
- Optional built in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration
- 2 adjustable mechanical stops
- Optional battery powered operation

- Amperometric sensor obstacle detection system to prevent crushing
- Three adjustable limit switches for the braking phases and the closure position
- Foundation plate accessory with VE.P500 coach screws

VE.500S 9081023
- 5m white painted, aluminium arm. Caps are included (5000x63x38.5). Available in two pieces, needs the joint (VE.GT24S).

VE.C500 9081024
- Ø 70 mm white painted aluminium round section arm. Caps are included (5000x63x38.5). Suitable for very windy places. Available in two pieces, needs the joint (VE.GT24S).

VE.RP 9451010
- Protection rubber for VE.500S with aluminium profile and caps.

Packing: 10m

ACCESSORIES FOR USE

<table>
<thead>
<tr>
<th>TYPE OF SPRING</th>
<th>BAR LENGTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 yellow</td>
<td>2</td>
</tr>
<tr>
<td>1 yellow</td>
<td>2.5</td>
</tr>
<tr>
<td>1 neutral</td>
<td>3</td>
</tr>
<tr>
<td>1 neutral</td>
<td>3.5</td>
</tr>
<tr>
<td>1 neutral</td>
<td>3</td>
</tr>
<tr>
<td>1 neutral</td>
<td>3.5</td>
</tr>
<tr>
<td>1 neutral</td>
<td>4</td>
</tr>
<tr>
<td>1 white</td>
<td>4.5</td>
</tr>
<tr>
<td>1 white</td>
<td>5</td>
</tr>
</tbody>
</table>

VE.AM 9078020
- Mobile support for bars.

VE.AFI 9401015
- Articulated joint set for VE.500S (rubber profiles must be removed). It compromises the use of any other accessory.

VE.AF 9078010
- Aluminium arm to: 2 m. H: 40 cm

VE.KM11HN 9576005
- Traffic light control unit for LED.TL.

VE.KM21HN 9576010
- Single two-channel loop detector

VE.CS 9614268
- Traffic light control unit for LED.TL.

LED.TL 9614267
- 2 light 230 Vac LED traffic light

VE.CATSOO 9623070
- Set of 20 adhesive obstacle for VE.500S/VE.C500.

ESA BASIC 9614269
- System that reduces the electrical energy consumption. In the VE.500 model the use of ESA BASIC is not compatible with the battery operation.

KSUN 9614270
- Kit for system operation via solar panel. For 24 Vdc models.

VE.RAST 9672010
- Aluminium rack L= 2 m. H= 60 cm

VE.P500 9623070
- Foundation plate with coach screws for VE.500.

VE.TERM 9081023
- Thermostat for very cold places.

VE.SN500 9780033
- Set of 20 adhesive refractor strips for VE.500S/VE.C500.

VE.AF 9078010
- Foundation plate accessory with VE.P500 coach screws

VE.RP 9451010
- Protection rubber for VE.500S with aluminium profile and caps.

VE.RP 9451010
- Foundation plate with coach screws for VE.500.

VE.KM24N 9576190
- Spring for VE.500 yellow, neutral or white.

VE.KMB 9576210 / 9576220
- Set of 3 springs for VE.500: yellow, neutral, white.

VE.KM24 9576040
- Kit for system operation via solar panel. For 24 Vdc models.

VE.1500 9623070
- Hooking light set for VE.500.

VE.500 ROAD BARRIERS & CAR PARK SAVER

MADE IN ITALY

START PAGE 103

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>9083102</th>
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</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>230 Vac [50-60Hz]</td>
</tr>
<tr>
<td>Motor supply</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>1.6 A</td>
</tr>
<tr>
<td>Torque</td>
<td>205 Nm</td>
</tr>
<tr>
<td>Opening time</td>
<td>3° - 5°</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP44</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C / +50°C</td>
</tr>
<tr>
<td>Weight</td>
<td>55.2 kg</td>
</tr>
<tr>
<td>Items no. per pallet</td>
<td>9</td>
</tr>
</tbody>
</table>
VE.650

ROAD BARRIERS
Integrated control box equipped with 2 neutral springs for passages up to 6.5 m

FOUNDATION PLATE AND RECEIVER
NOT INCLUDED

24 Vdc intensive use
- Electromechanical 24 Vdc right barrier for intensive use. The barrier can be easily converted to left operation
- Optional built-in FTC.S photocells thanks to the innovative hide-away system that allows for their perfect integration
- 2 adjustable mechanical stops
- Optional battery powered operation
- Amperometric sensor obstacle detection system to prevent crushing
- Three adjustable limit switches for the braking phases and the closure position
- Stainless steel version VE.650 available
- Foundation plate accessory with VE.P650 coach screws

ACCESSORIES FOR USE

<table>
<thead>
<tr>
<th>TYPE OF SPRING</th>
<th>BAR LENGTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE.AM - VE.L650 - SC.RES - VE.RP - VE.RAST</td>
<td>1 neutral</td>
</tr>
<tr>
<td>VE.AM - VE.L650 - SC.RES - VE.RP - VE.RAST</td>
<td>1 yellow + 1 neutral</td>
</tr>
<tr>
<td>VE.AM - VE.L650 - SC.RES - VE.RP - VE.RAST</td>
<td>1 yellow + 1 neutral</td>
</tr>
<tr>
<td>...</td>
<td>1 yellow + 1 neutral</td>
</tr>
<tr>
<td>VE.AM - VE.L650 - SC.RES - VE.RP - VE.RAST</td>
<td>2 neutral</td>
</tr>
<tr>
<td>VE.AM - VE.L650 - SC.RES - VE.RP - VE.RAST</td>
<td>2 neutral</td>
</tr>
</tbody>
</table>

Technological data:
- Code: 9081030
- Power supply: 230 Vac (50-60Hz)
- Motor supply: 24 Vdc
- Max absorbed current: 1.6 A
- Torque: 285 Nm
- Opening time: 5" - 7"
- Operation cycle: intensive use
- Protection level: IP44
- Operating temperature: -20°C /+50°C
- Weight: 80.2 kg
- Items no. per pallet: 9
## CAR PARK SAVER
available in automatic or manual version

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Code</th>
<th>VE.SOM</th>
<th>VE.SOR</th>
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</thead>
<tbody>
<tr>
<td>Code</td>
<td>9082040</td>
<td>9082030</td>
</tr>
<tr>
<td>Operating way</td>
<td>manual</td>
<td>24 Vdc / automatic</td>
</tr>
<tr>
<td>Power supply</td>
<td>-</td>
<td>230 Vac (50-60Hz)</td>
</tr>
<tr>
<td>Motor supply</td>
<td>-</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Max absorbed current</td>
<td>-</td>
<td>2 A</td>
</tr>
<tr>
<td>Opening time</td>
<td>-</td>
<td>9&quot;</td>
</tr>
<tr>
<td>Operation cycle</td>
<td>-</td>
<td>Intensive use</td>
</tr>
<tr>
<td>Protection level</td>
<td>-</td>
<td>IP54</td>
</tr>
<tr>
<td>Operating temperature</td>
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<td>-20°C / +50°C</td>
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<tr>
<td>Weight</td>
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<td>7.5 kg</td>
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<td>Items no. per pallet</td>
<td>22</td>
<td>22</td>
</tr>
</tbody>
</table>

### VE.SOR / VE.SOM

#### 24 Vdc intensive use
- Automation that safeguards the private car parks
- Easy and fast installation on the ground
- Automatic and manual versions available

#### ESA BASIC

System that reduces the electrical energy consumption. In the 24 Vdc version, the use of ESA BASIC is not compatible with the battery operation.

#### CONTROL PANELS

- VE.SOR DA.S04 p.125

- Automation that safeguards the private car parks
- Easy and fast installation on the ground
- Automatic and manual versions available

---

### CAR PARK SAVER

Available in automatic or manual version.
PRACTICAL, ECOLOGICAL

SUN SYSTEM is the perfect solution for installing automated mechanisms in places where there is no source of electricity and without having to spend money on costly construction.

TECHNOLOGY AND EVOLUTION!

The fact that there is a display panel allows operators to monitor several important parameters regarding historical data and statistics at all times:
- Instant values on battery and solar panel voltage
- Instant values on the current generated by the solar panel and the batteries.
- Number of days the system has been in operation
- Average charging current values of the battery and log of consumption data
- Error messages related to over-current battery issues
- Verification of battery charge status

FLEXIBLE BECAUSE IT IS OPEN!

- It is possible to connect to the control panel up to 3 solar panels
- Batteries of varying capacities (7-50Ah) can also be used.

LOW ENERGY USE = MORE MANOEUVRES!

- The system is controlled via the SUNNY central command device
- SUNNY keeps the automation’s control panel deactivated and enables the power supply only after it receives a signal or command over the wire to do so.
- Thanks to the card’s low energy consumption levels in stand-by mode, the system is able to ensure a number of manoeuvres also in hours of the day or periods with less-than-ideal solar radiation conditions.

ACCESSORIES

DA.BT18 series batteries. 18 Ah 12 Vdc batteries.

SUN.PANEL 9611004 High performance monocrystalline silicon solar panel (30W).

COL.KSUN 9611021 Column for battery housing DA.BT18 and control unit SUNNY, equipped with removable battery tray H=650x323x230mm.

COL.BR 9585000 Pair of clamps for fixing solar panel to column COL.KSUN.

KSUN 9611004 KIT for system operation via solar panel, made up of photovoltaic panel (30W) in monocrystalline silicone and with high efficiency, and a control unit (SUNNY) complete with display and built-in radio receiver. The receiver is capable of managing three types of encoding: rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

SUNNY 9176316 Control unit complete with display, 3 code radio receiver, rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

CHART REGARDING AVERAGE SOLAR RADIATION DISTRIBUTION

<table>
<thead>
<tr>
<th>Latitude Angle of inclination</th>
<th>α 0° - 15°</th>
<th>15° - 25°</th>
<th>The value is the same as that of the latitude</th>
<th>25° - 30°</th>
<th>Add 5° to the latitude value</th>
<th>30° - 35°</th>
<th>Add 10° to the latitude value</th>
<th>35° - 40°</th>
<th>Add 15° to the latitude value</th>
<th>&gt; 40°</th>
<th>Add 20° to the latitude value</th>
</tr>
</thead>
</table>

LATITUDE

PANEL ORIENTATION

FLEXIBLE BECAUSE IT IS OPEN!

- It is possible to connect to the control panel up to 3 solar panels
- Batteries of varying capacities (7-50Ah) can also be used.

LOW ENERGY USE = MORE MANOEUVRES!

- The system is controlled via the SUNNY central command device
- SUNNY keeps the automation’s control panel deactivated and enables the power supply only after it receives a signal or command over the wire to do so.
- Thanks to the card’s low energy consumption levels in stand-by mode, the system is able to ensure a number of manoeuvres also in hours of the day or periods with less-than-ideal solar radiation conditions.

ACCESSORIES

DA.BT18 series batteries. 18 Ah 12 Vdc batteries.

SUN.PANEL 9611004 High performance monocrystalline silicon solar panel (30W).

COL.KSUN 9611021 Column for battery housing DA.BT18 and control unit SUNNY, equipped with removable battery tray H=650x323x230mm.

COL.BR 9585000 Pair of clamps for fixing solar panel to column COL.KSUN.

KSUN 9611004 KIT for system operation via solar panel, made up of photovoltaic panel (30W) in monocrystalline silicone and with high efficiency, and a control unit (SUNNY) complete with display and built-in radio receiver. The receiver is capable of managing three types of encoding: rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

SUNNY 9176316 Control unit complete with display, 3 code radio receiver, rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

CHART REGARDING AVERAGE SOLAR RADIATION DISTRIBUTION

<table>
<thead>
<tr>
<th>Latitude Angle of inclination</th>
<th>α 0° - 15°</th>
<th>15° - 25°</th>
<th>The value is the same as that of the latitude</th>
<th>25° - 30°</th>
<th>Add 5° to the latitude value</th>
<th>30° - 35°</th>
<th>Add 10° to the latitude value</th>
<th>35° - 40°</th>
<th>Add 15° to the latitude value</th>
<th>&gt; 40°</th>
<th>Add 20° to the latitude value</th>
</tr>
</thead>
</table>

LATITUDE

PANEL ORIENTATION

FLEXIBLE BECAUSE IT IS OPEN!

- It is possible to connect to the control panel up to 3 solar panels
- Batteries of varying capacities (7-50Ah) can also be used.

LOW ENERGY USE = MORE MANOEUVRES!

- The system is controlled via the SUNNY central command device
- SUNNY keeps the automation’s control panel deactivated and enables the power supply only after it receives a signal or command over the wire to do so.
- Thanks to the card’s low energy consumption levels in stand-by mode, the system is able to ensure a number of manoeuvres also in hours of the day or periods with less-than-ideal solar radiation conditions.

ACCESSORIES

DA.BT18 series batteries. 18 Ah 12 Vdc batteries.

SUN.PANEL 9611004 High performance monocrystalline silicon solar panel (30W).

COL.KSUN 9611021 Column for battery housing DA.BT18 and control unit SUNNY, equipped with removable battery tray H=650x323x230mm.

COL.BR 9585000 Pair of clamps for fixing solar panel to column COL.KSUN.

KSUN 9611004 KIT for system operation via solar panel, made up of photovoltaic panel (30W) in monocrystalline silicone and with high efficiency, and a control unit (SUNNY) complete with display and built-in radio receiver. The receiver is capable of managing three types of encoding: rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

SUNNY 9176316 Control unit complete with display, 3 code radio receiver, rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

CHART REGARDING AVERAGE SOLAR RADIATION DISTRIBUTION

<table>
<thead>
<tr>
<th>Latitude Angle of inclination</th>
<th>α 0° - 15°</th>
<th>15° - 25°</th>
<th>The value is the same as that of the latitude</th>
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<th>Add 10° to the latitude value</th>
<th>35° - 40°</th>
<th>Add 15° to the latitude value</th>
<th>&gt; 40°</th>
<th>Add 20° to the latitude value</th>
</tr>
</thead>
</table>

LATITUDE

PANEL ORIENTATION

FLEXIBLE BECAUSE IT IS OPEN!

- It is possible to connect to the control panel up to 3 solar panels
- Batteries of varying capacities (7-50Ah) can also be used.

LOW ENERGY USE = MORE MANOEUVRES!

- The system is controlled via the SUNNY central command device
- SUNNY keeps the automation’s control panel deactivated and enables the power supply only after it receives a signal or command over the wire to do so.
- Thanks to the card’s low energy consumption levels in stand-by mode, the system is able to ensure a number of manoeuvres also in hours of the day or periods with less-than-ideal solar radiation conditions.

ACCESSORIES

DA.BT18 series batteries. 18 Ah 12 Vdc batteries.

SUN.PANEL 9611004 High performance monocrystalline silicon solar panel (30W).

COL.KSUN 9611021 Column for battery housing DA.BT18 and control unit SUNNY, equipped with removable battery tray H=650x323x230mm.

COL.BR 9585000 Pair of clamps for fixing solar panel to column COL.KSUN.

KSUN 9611004 KIT for system operation via solar panel, made up of photovoltaic panel (30W) in monocrystalline silicone and with high efficiency, and a control unit (SUNNY) complete with display and built-in radio receiver. The receiver is capable of managing three types of encoding: rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

SUNNY 9176316 Control unit complete with display, 3 code radio receiver, rolling code, programmable code, and advanced rolling code (ARC). You can connect up to three solar panels to the control unit.

CHART REGARDING AVERAGE SOLAR RADIATION DISTRIBUTION

<table>
<thead>
<tr>
<th>Latitude Angle of inclination</th>
<th>α 0° - 15°</th>
<th>15° - 25°</th>
<th>The value is the same as that of the latitude</th>
<th>25° - 30°</th>
<th>Add 5° to the latitude value</th>
<th>30° - 35°</th>
<th>Add 10° to the latitude value</th>
<th>35° - 40°</th>
<th>Add 15° to the latitude value</th>
<th>&gt; 40°</th>
<th>Add 20° to the latitude value</th>
</tr>
</thead>
</table>
EXTERNAL CONTROL PANELS

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 600W + 600W

**MAIN FUNCTIONS:**
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
- Removable terminal blocks
- Encoder input for obstruction detection
- Separate limit switch inputs for each motor
- Open, close and pedestrian inputs
- Open-close and close photocell inputs
- N.C. or N.O safety edge input
- Output for 230 Vac and 12 Vac/dc electric lock
- Gate open indicator light output, service light, second radio channel and test photocells
- Autoset operating parameters with encoder equipped motors
- Electronic adjustment of individual couple for each motor and working times
- Electronic decelerations
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres
- Programming access password
- Maintenance reminder

**APPLICATION**
1 or 2 actuators for swing gates, opposing sliding, hydraulic operators, and industrial folding doors

**ACCESSORIES**
- E.LOCK E Lock extended cylinder for E.LOCK electric lock. It allows to unlock gates up to 55mm thick from the outside.
EXTERNAL CONTROL PANELS

230 Vac

APPLICATION
1 actuator for sliding or 1 swing door

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
230 Vac, 750W

MAIN FUNCTIONS:
- Parameter and operation logics adjustment via trimmer and dip switch
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, APIC)
- Removable terminal blocks
- Automatic and semi-automatic function logic
- Motor limit switch inputs
- Step by step, stop, photo-cell inputs
- Gate open indicator light output
- 5 level electronic torque adjustment
- Optional management of remote controls memorised on receiver with built-in Advantouch

ACCESSORIES

E.LOCK
230 Vac vertical electric lock, supplied with counterplate.

E.LOCKSE
Extended cylinder for E.LOCK electric lock. It allows to unlock gates up to 35mm thick from the outside.

DA.2S
Electronic card that allows synchronized movement of 2 automations (facing doors).

SC.RD
Module with 4 relays for control unit inputs support/decoupling. For use in event of very long connections (i.e. buttons in house).

APPLICATION
1 actuator for sliding gate

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
230 Vac, 1000W

MAIN FUNCTIONS:
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code, rolling code)
- Removable terminal blocks
- Encoder input for obstruction detection
- Motor limit switch inputs
- Open, close and pedestrian inputs
- Output for gate open indicator light, second radio channel and test photocells and service light
- Electronic torque adjustment
- Open and close deceleration
- Electronic braking guarantees a precise stop, even with heavy doors
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres

ACCESSORIES

DA.2S
Electronic card that allows synchronized movement of 2 automations (facing doors).

SC.RD
Module with 4 relays for control unit inputs support/decoupling. For use in event of very long connections (i.e. buttons in house).

DA.LB
Galvanized column for outdoor installation of LB box. Packaging: 2 pcs
**EXTERNAL CONTROL PANELS**

**APPLICATION**
1 or 2 actuators for tilt up doors

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 300W - 300W

**MAIN FUNCTIONS:**
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, APC)
- Removable terminal blocks
- Encoder input for obstruction detection
- Separate limit switch inputs for each motor
- Open, close, stop, step by step inputs
- N.C. or N.O. safety edge input
- 230 Vac service light output
- Autotest operating parameters with encoder equipped ZED series motors
- Electronic adjustment of working times coupling
- Electronic decelerations
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres
- Programming access password
- Maintenance reminder

**APPLICATION**
1 actuator for industrial sliding doors, folding doors with more than two sections and shutters

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 750W

**MAIN FUNCTIONS:**
- Parameter and operation logics adjustment via trimmer and dip-switch
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code and rolling code)
- Removable terminal blocks
- Automatic and semi automatic function logic
- Motor limit switch inputs
- N.C. or N.O. safety edge input
- Inputs for buttons for programmable step by step opening and for closing
- Gate open indicator light output
- 5 level electronic torque adjustment
- Optional management of remote controls memorised on receiver with built-in Advantouch

**APPLICATION**
1 or 2 actuators for tilt up doors

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 300W - 300W

**MAIN FUNCTIONS:**
- Parameter and operation logics adjustment via trimmer and dip-switch
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code and rolling code)
- Removable terminal blocks
- Automatic and semi automatic function logic
- Motor limit switch inputs
- N.C. or N.O. safety edge input
- Inputs for buttons for programmable step by step opening and for closing
- Gate open indicator light output
- 5 level electronic torque adjustment
- Optional management of remote controls memorised on receiver with built-in Advantouch

**APPLICATION**
1 actuator for industrial sliding doors, folding doors with more than two sections and shutters

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 750W

**MAIN FUNCTIONS:**
- Parameter and operation logics adjustment via trimmer and dip-switch
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code and rolling code)
- Removable terminal blocks
- Automatic and semi automatic function logic
- Motor limit switch inputs
- N.C. or N.O. safety edge input
- Inputs for buttons for programmable step by step opening and for closing
- Gate open indicator light output
- 5 level electronic torque adjustment
- Optional management of remote controls memorised on receiver with built-in Advantouch

**NOTE:**
The exit to the start-up capacitor is not present for applications with VN.S40V model

**ACCESSORIES**

**SC.RD**
Inkludiert
Board no. 4 relays for control unit relay support/decoupling. For use in the event of very long connections (i.e. buttons in house).

**KPO**
Inkludiert
Set of 2 green push buttons (N.O.) and front cover for Box LB.

**KPC**
Inkludiert
Set of 2 push buttons (green N.O. and red N.C.) and front cover for Box LB.
EXTERNAL CONTROL PANELS

**APPLICATION**
1 actuator for shutters

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 750W

**MAIN FUNCTIONS:**
- Parameter and operation logics adjustment via trimmer and dip switch
- Built-in 433.92 MHz 64 codes radio receiver with rolling code system
- Fixed terminal blocks
- Automatic and semi-automatic function logic
- Motor limit switch inputs
- Step by step, step, photo-cell inputs
- Second radio channel output
- 6 level electronic torque adjustment
- Optional management of remote controls memorised on built-in receiver through Advantouch

ACCESSORIES

**SC.RD**
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

**VERSIONS**

**THINK.P**
Electronic card that allows synchronous movement of 2 automations (facing doors).

**THINK.I**
Think control unit with open, close, stop buttons incorporated in the control panel.

**EXTERNAL CONTROL PANELS**

**APPLICATION**
1 actuator for sectional doors and rolling doors, folding doors with more than two sections, unbalanced shutters and industrial sliding

**CONTROL PANEL POWER SUPPLY**
230 Vac or 400 Vac 2200W

**MOTORS POWER SUPPLY**
230 Vac 900W or 400 Vac 2200W

**MAIN FUNCTIONS:**
- Built-in LCD display
- Plug-in radio receiver ready
- Removable terminal blocks
- Motor limit switch inputs
- Open, close and pedestrian inputs
- Inputs for 4 pairs of photocells
- N.C. or B.S. safety edge input
- Service light and gate open indicator light output
- Phase loss and motor overcurrent protection
- Optional management of parameters memorised on electronic control unit with built-in Advantouch
- Number of manoeuvres

**APPLICATION**
1 actuator for shutters

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 750W

**MAIN FUNCTIONS:**
- Parameter and operation logics adjustment via trimmer and dip switch
- Built-in 433.92 MHz 64 codes radio receiver with rolling code system
- Fixed terminal blocks
- Automatic and semi-automatic function logic
- Motor limit switch inputs
- Step by step, step, photo-cell inputs
- Second radio channel output
- 6 level electronic torque adjustment
- Optional management of remote controls memorised on built-in receiver through Advantouch

ACCESSORIES

**SC.RD**
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

**KPO**
Set of 2 green push buttons (N.O.) and front cover for Box LB.

**KPC**
Set of 2 push buttons (green-N.O. and red-N.C.) and front cover for box LB.
APPLICATION
1 actuator for sectional doors and rolling doors, folding doors with more than two sections, unbalanced shutters and industrial sliding

CONTROL PANEL POWER SUPPLY
230 Vac or 400 Vac

MOTORS POWER SUPPLY
230 Vac 900W - 400 Vac 2200W

MAIN FUNCTIONS:
• Dead man functioning logic
• Fixed terminal blocks
• Motor limit switch inputs
• Open, close and emergency stop inputs
• Open and close buttons built-in to the control unit
• Output for connection of flasher and auxiliary capacitor for motor start flush

DA.2S
Electronic card that allows synchronized movement of 2 actuators (facing doors).

SC.RD
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

KPO
Electronic card that allows synchronised movement of 2 automations (facing doors).

APPLICATION
1 actuator for industrial sectional doors and sliding doors

CONTROL PANEL POWER SUPPLY
400 Vac

MOTORS POWER SUPPLY
400 Vac 1500W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Motor limit switch inputs
• Step by step, open and close inputs
• Pedestrian input
• Stop input
• Outputs for 3 pairs of photocells
• N.C. or N.O. safety edge input
• Output for gate open indicator light, second radio channel and test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Built-in inverter
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for sectional doors and rolling doors, folding doors with more than two sections, unbalanced shutters and industrial sliding

CONTROL PANEL POWER SUPPLY
230 Vac or 400 Vac

MOTORS POWER SUPPLY
230 Vac 900W - 400 Vac 2200W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Motor limit switch inputs
• Step by step, open and close inputs
• Pedestrian input
• Stop input
• Outputs for 3 pairs of photocells
• N.C. or N.O. safety edge input
• Output for gate open indicator light, second radio channel and test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Built-in inverter
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for industrial sectional doors and sliding doors

CONTROL PANEL POWER SUPPLY
400 Vac

MOTORS POWER SUPPLY
400 Vac 1500W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Motor limit switch inputs
• Step by step, open and close inputs
• Pedestrian input
• Stop input
• Outputs for 3 pairs of photocells
• N.C. or N.O. safety edge input
• Output for gate open indicator light, second radio channel and test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Built-in inverter
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for industrial sectional doors and sliding doors

CONTROL PANEL POWER SUPPLY
400 Vac

MOTORS POWER SUPPLY
400 Vac 1500W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Motor limit switch inputs
• Step by step, open and close inputs
• Pedestrian input
• Stop input
• Outputs for 3 pairs of photocells
• N.C. or N.O. safety edge input
• Output for gate open indicator light, second radio channel and test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Built-in inverter
• Number of manoeuvres
• Programming access password
• Maintenance reminder
EXTERNAL CONTROL PANELS
24 Vdc

APPLICATION
1 or 2 actuators for swing gates, opposing sliding gates, and industrial folding door(s) with a maximum of 2 sections.

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc: 120W + 120W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and rolling code
• Removable terminal blocks
• Separate limit switch inputs for each motor
• Open, close and pedestrian inputs
• 12 Vac electric lock output
• Gate open indicator light output, service light, second radio channel and test photocells
• Operating parameters autoreset
• Electronic adjustment of individual couple for each motor
• Crush prevention security with amperometric sensor detection and encoder management
• Independent decelerations during open and close for each motor
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 or 2 actuators for swing gates

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc: 60W + 60W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and rolling code
• Removable terminal blocks
• Separate limit switch inputs for each motor
• Open, close and pedestrian inputs
• 12 Vac electric lock output
• Gate open indicator light output, service light, second radio channel and test photocells
• Operating parameters autoreset
• Electronic adjustment of individual couple for each motor
• Crush prevention security with amperometric sensor detection and encoder management
• Independent decelerations during open and close for each motor
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

ACCESSORIES

DU.V96
 inclusio
 12 Vac/dc vertical electric lock, supplied with counterplate, Perminta internal/external release.

DU.V90
 inclusio
 12 Vac/dc horizontal electric lock, supplied with counterplate, Perminta internal/external release.

DU.9990
 inclusio
 Covering plate for DU.V90.

SC.RD
 inclusio
 Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e., buttons in house).

DU.V90
 inclusio
 12 Vac/dc horizontal electric lock, supplied with counterplate, Perminta internal/external release.

DU.9990
 inclusio
 Covering plate for DU.V90.

DU.9990
 inclusio
 Control board for electric lock 12/24 Vdc.

SC.RD
 inclusio
 Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e., buttons in house).

BRAINY24.CB
 inclusio
 Accessory with CBY.24V battery charger, 1.2 Ah batteries and base.

BRAINY24.CB
 inclusio
 Accessory with CBY.24V battery charger, 1.2 Ah batteries and base.

ACCESSORIES

DU.V96
 inclusio
 12 Vac/dc vertical electric lock, supplied with counterplate, Perminta internal/external release.

DU.V90
 inclusio
 12 Vac/dc horizontal electric lock, supplied with counterplate, Perminta internal/external release.

DU.9990
 inclusio
 Covering plate for DU.V90.

SC.RD
 inclusio
 Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e., buttons in house).

BRAINY24.CB
 inclusio
 Accessory with CBY.24V battery charger, 1.2 Ah batteries and base.

NIMH.CB
 inclusio
 Accessory with CBY.24V battery charger, NIMH batteries and support.

NIMH.CB
 inclusio
 Accessory with CBY.24V battery charger, NIMH batteries and support.
**APPLICATION**

1 or 2 actuators for lift up doors

**EXTERNAL CONTROL PANELS**

- **CONTROL PANEL POWER SUPPLY:**
  - 230 Vac

- **MOTORS POWER SUPPLY:**
  - 24 Vdc 80W + 80W

**MAIN FUNCTIONS:**

- Parameter and operation logics adjustment via trimmer and dip switch
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code, rolling code)
- Removable terminal blocks
- Motor limit switch inputs
- Open, close, stop, step by step inputs
- N.C. or N.II safety edge input
- 24 Vac/dc service light output
- Electronic couple adjustment
- Amperometric sensor obstacle detection security to prevent crushing
- Electronic decalorations
- Optional management of remote controls memorised on built-in receiver through Advantouch

**ACCESSORIES**

- **SC.RD**
  - Battery for control units
  - 9176004

- **KPO**
  - Green button for control units
  - 9176005

- **CBY.24V**
  - Battery charger card for VE.SOR (12V battery)
  - 9760013

- **DA.E**
  - Module for VE.SOR
  - 9760045

- **DA.RB**
  - Battery charger card
  - 9760046

- **DA.BT2**
  - 2 A, 24 Vdc, NiMH batteries
  - 9760029

- **DA.BT6**
  - 1 A, 12 Vdc, Battery
  - 9760035

- **NIMH**
  - 2Ah, 24 Vdc NiMH batteries
  - 9086006

- **LB**
  - Standard box for control units
  - Protection level IP55
  - (290 x 220 x 118 mm)
  - 9252001

- **ONE.2WL**
  - 2-Amp receiver
  - 433.92 MHz
  - 9855001

- **ONE.2WI**
  - 4 channel receiver
  - 433.92 MHz
  - 9855002

**APPLICATION**

- from 1 to 4 parking space barrier VE.SOR

**EXTERNAL CONTROL PANELS**

- **CONTROL PANEL POWER SUPPLY:**
  - 230 Vac

- **MOTORS POWER SUPPLY:**
  - 24 Vdc 20W

**MAIN FUNCTIONS:**

- Plug in radio receiver ready
- Designed for charger DA.RB
- Fixed terminal blocks
- Separate step by step input for each motor
- Amperometric sensor obstacle detection security to prevent crushing

**ACCESSORIES**

- **DA.S04**
  - Battery charger card for DA.S04
  - 9760042

- **KPC**
  - Set of 2 push buttons (green N.O. and red N.C.) and front cover for box LB
  - 9855002

- **CBY.24V**
  - Battery charger card for VE.SOR
  - 9760018

- **ONE.2WI**
  - 433.92 MHz receiver
  - 2 channels
  - 9855003

- **RR.4WBV24**
  - 4 channel receiver
  - 433.92 MHz
  - 9855004

**APPLICATION**

- 1 or 2 actuators for lift up doors

**EXTERNAL CONTROL PANELS**

- **CONTROL PANEL POWER SUPPLY:**
  - 230 Vac

- **MOTORS POWER SUPPLY:**
  - 24 Vdc 80W + 80W

**MAIN FUNCTIONS:**

- Parameter and operation logics adjustment via trimmer and dip switch
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code, rolling code)
- Removable terminal blocks
- Motor limit switch inputs
- Open, close, stop, step by step inputs
- N.C. or N.II safety edge input
- 24 Vac/dc service light output
- Electronic couple adjustment
- Amperometric sensor obstacle detection security to prevent crushing
- Electronic decalorations
- Optional management of remote controls memorised on built-in receiver through Advantouch

**ACCESSORIES**

- **SC.RD**
  - Battery for control units
  - 9176004

- **KPO**
  - Green button for control units
  - 9176005

- **CBY.24V**
  - Battery charger card for VE.SOR (12V battery)
  - 9760013

- **DA.E**
  - Module for VE.SOR
  - 9760045

- **DA.RB**
  - Battery charger card
  - 9760046

- **DA.BT2**
  - 2 A, 24 Vdc, NiMH batteries
  - 9760029

- **DA.BT6**
  - 1 A, 12 Vdc, Battery
  - 9760035

- **NIMH**
  - 2Ah, 24 Vdc NiMH batteries
  - 9086006

- **LB**
  - Standard box for control units
  - Protection level IP55
  - (290 x 220 x 118 mm)
  - 9252001

- **ONE.2WL**
  - 2-Amp receiver
  - 433.92 MHz
  - 9855001

- **ONE.2WI**
  - 4 channel receiver
  - 433.92 MHz
  - 9855002

**APPLICATION**

- from 1 to 4 parking space barrier VE.SOR
## COMPARISON TABLE

### EXTERNAL CONTROL PANELS

<table>
<thead>
<tr>
<th>CONTROL PANELS FEATURES</th>
<th>BRAINY</th>
<th>BRAINY HEADY</th>
<th>CORE</th>
<th>CORE MATRIX</th>
<th>LOGICA</th>
<th>LOGICA CELL.P</th>
<th>PIN</th>
<th>TANK</th>
<th>STAIN</th>
<th>NAKE</th>
<th>NOWAY</th>
<th>HEADY24</th>
<th>CODDEA.IN</th>
<th>DA.S04</th>
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<tbody>
<tr>
<td>motors power supply 24 Vdc</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td>motors power supply 230 Vdc</td>
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</tr>
</tbody>
</table>

### INPUTS

- step by step input
- open input
- close input
- pedestrian opening input
- photocell input
- photocell input in opening phase
- photocell input in closing phase
- stop input
- conductive safety input
- limit switch input open/close for motor 1
- limit switch input open/close for motor 2

### OUTPUTS

- motor 1 output
- motor 2 output
- flashing light output
- 12 Vdc electric lock output
- auxiliary output for optional electric lock card
- courtesy light output
- auxiliary output 24 Vdc/dc
- gate open indicator
- photocell power supply output with phototubes
- 2nd radio channel output

### OPERATING LOGICS

- "dead man" function
- semi-automatic function
- automatic function
- multi-function
- step by step function (open-close-open)
- timer function in opening
- adjustable slowdown time
- fixed slowdown time
- electronic brake
- pre-warning flashing light
- disable photocell in opening phase
- close immediately after photocell
- maintaining hydraulic motor pressure
- closing delay motor 1
- opening delay motor 2

### ADJUSTMENTS

- electromechanical adjustment force
- electronic adjustment force
- speed adjustment
- starting with maximum power
- self adjustment of working parameters
- parameters adjustment through potentiometer
- parameters adjustment through LCD display
- diagnostic LEDs
- 433.92 MHz built-in receiver
- parameters adjustment through LCD display
- cycles counter
- back-up system (it needs battery charger card)
- encoder input
- built-in ESA, Energy Saving System
- maintenance warning
- programming enabled by password

### OTHER CHARACTERISTICS

- diagnostic LEDS
- 433.92 MHz built-in receiver
- parameters adjustment through LCD display
- cycles counter
- back-up system (it needs battery charger card)
- encoder input
- built-in ESA, Energy Saving System
- maintenance warning
- programming enabled by password

### ACCESSORIES

**DA.25**
- Inlet
- Electronic card that allows synchronised movement of 2 actuators facing each other

**SC.8D**
- Inlet
- Board no. 4 ways for control unit inputs support/desupling
- For use in the event of very long connections (e.g., buffers in house)
INTERNAL CONTROL PANELS

CP.BULL8-OM

APPLICATION
1 actuator for sliding gate series BULL8M and BULL20M

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
230 Vac 1000W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code and rolling code)
• Removable terminal blocks
• Encoder input for obstruction detection
• Motor limit switch inputs
• Independent open and close photocell inputs
• Pedestrian input
• Output for gate open indicator light, second radio channel, test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password

APPLICATION
1 actuator for sliding gate series BULL10M, BULL15M and BULL20M

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
230 Vac 1000W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code and rolling code)
• Removable terminal blocks
• Encoder input for obstruction detection
• Motor limit switch inputs
• Open, close and pedestrian inputs
• Output for gate open indicator light, second radio channel, test photocells and service light
• Operating parameters autoset
• Electronic torque adjustment
• Open and close deceleration
• Electronic braking
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password

ACCESSORIES

DA.2S
Interface
Electronic card that allows synchronised movement of 2 actuators (facing doors)

SC.RD
Relay
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house)
INTERNAL CONTROL PANELS
230 Vac

APPLICATION
1 actuator for sliding gate BISON20 OM

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
230 Vac 750W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Encoder input for obstruction detection
• Motor limit switch inputs
• Open, close and pedestrian inputs
• Output for gate open indicator light, second radio channel and test photocells and service light
• Operating parameters autoset
• Electronic direction adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for sliding gate series BISON35 OTI L

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
220 Vac / 750 W threephase with inverter

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code and ARC)
• Removable terminal blocks
• Encoder input for obstruction detection
• Motor limit switch inputs
• Open, close and pedestrian inputs
• Inverter connection ready
• Output for gate open indicator light, second radio channel and test photocells and service light
• Electronic direction adjustment
• Open and close deceleration
• Electronic braking guarantees a precise stop, even with heavy doors
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

ACCESSORIES

DA.2S
Electronic card that allows synchronous movement of 2 actuators facing doors.

SC.8D
Screwdriver Board no. 4 ways for control and inputs, switch/deserializing. For use in the event of very long connections (i.e., buttons in house).

ACCESSORIES

DA.2S
Electronic card that allows synchronous movement of 2 actuators facing doors.

SC.8D
Screwdriver Board no. 4 ways for control and inputs, switch/deserializing. For use in the event of very long connections (i.e., buttons in house).
INTERNAL CONTROL PANELS

**CP.ZED230-E**

**APPLICATION**
1 or 2 actuators series ZED.RIE or ZEDL.RIE

**CONTROL PANEL POWER SUPPLY**
230 Vac

**MOTORS POWER SUPPLY**
230 Vac 300W + 300W

**MAIN FUNCTIONS:**
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
- Removable terminal blocks
- Open, close, stop, step by step inputs
- N.O. or N.C. safety edge input
- 230 Vac service light output
- Autoset operating parameters with encoder equipped ZED series motors
- Electronic adjustment of working times couple
- Electronic decelerations
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres
- Programming access password
- Maintenance reminder

**ACCESSORIES**

**SC.RD**
- Board no. 4 relays for control unit inputs support/demultiplexing. For use in the event of very long connections (i.e. buttons in house).

**CP.BISON OTI**

**APPLICATION**
1 actuator for sliding gate series BISON25 OTI, BISON35 OTI and BISON45 OTI

**CONTROL PANEL POWER SUPPLY**
230 Vac or 400 Vac

**MOTORS POWER SUPPLY**
220 Vac/750 W three phase with inverter or 380 Vac/1500 W three phase with inverter

**MAIN FUNCTIONS:**
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
- Removable terminal blocks
- Encoder input for obstruction detection
- Motor limit switch inputs
- Open, close and pedestrian inputs
- Inverter connection ready
- Output for gate open indicator light, second radio channel and test photocells and service light
- Electronic torque adjustment
- Open and close deceleration
- Electronic braking guarantees a precise stop, even with heavy doors
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres
- Programming access password
- Maintenance reminder

**ACCESSORIES**

**DA.2S**
- Electronic card that allows synchronized movement of 2 actuators facing doors.

**SC.RD**
- Board no. 4 relays for control unit inputs support/demultiplexing. For use in the event of very long connections (i.e. buttons in house).
INTERNAL CONTROL PANELS
24 Vdc

APPLICATION
2 actuators for BEN series swing gates

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc. 90W + 90W

MAIN FUNCTIONS:
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 2 codes radio receiver
- Programmable code and rolling code
- Removable terminal blocks
- Pedestrian input
- Gate open indicator light output, service light and second radio channel
- Operating parameters autorise
- Electronic adjustment of individual couple for each motor
- Ampereic sensor obstacle detection security to prevent crushing
- Indepedent decelerations during open and close for each motor
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres

APPLICATION
1 or 2 actuators for MBIE24 series swing gates

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc  50W + 50W

MAIN FUNCTIONS:
- Built-in LCD display
- Built-in 433.92 MHz 64 codes and 3 codes radio receiver
- Programmable code and rolling code
- Removable terminal blocks
- Separable limit switches for each motor
- Open, close and pedestrian inputs
- N.C. or N.I. safety edge input
- 12 Vdc electric lock output
- Gate open indicator light output, service light, second radio channel and test photocells
- Operating parameters autorise
- Electronic adjustment of individual couple for each motor
- Crush prevention security with amperometric sensor detection
- Independent decelerations during open and close for each motor
- Optional parameter configuration and remote control management using the Advantouch system
- Number of manoeuvres
- Programming access password
- Maintenance reminder

ACCESSORIES

DU.V96
12 Vac/dc vertical electric lock, supplied with counterplate. Permits internal/external release.

DU.V90
12 Vac/dc horizontal electric lock, supplied with counterplate. Permits internal/external release.

DU.9990
Covering plate for DU.V90.

L.BY
Control board for electric lock

SC.RD
Board for 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

BN.CB
Accessory for CBY.24V composed of battery charger card and 24V batteries and support for batteries.

LB
Standard box for control unit. Protection level IP55. (290 x 220 x 118 mm)

DA.BT2
Battery charger card. The CBY.24V card allows to charge two different types of nickel metal hydride and lead batteries.

DA.BT6
Battery 24V.

A.M
Maintenance reminder.
INTERNAL CONTROL PANELS
24 Vdc

APPLICATION
1 actuator for sliding gate series PONY

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Colour-coded terminal blocks
• Motor limit switch inputs
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment
• Amperometric sensor obstacles detection security to prevent crushing
• Open and close deceleration

ACCESSORIES

DA.2S
Electronic card that allows synchronized movement of 2 actuators (facing doors)

SC.RD
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

BULL24.CBH
Accessory with CBY.24V battery charger card, NiMH batteries and support.

APPLICATION
1 actuator for sliding gate series BULL424ESA and BULL624ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Colour-coded terminal blocks
• Motor limit switch inputs
• Independent open and close photocell inputs
• Pedestrian, step by step, stop input
• N.C. or INP safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (STC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for sliding gate series PONY

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Colour-coded terminal blocks
• Motor limit switch inputs
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (STC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

ACCESSORIES

DA.2S
Electronic card that allows synchronized movement of 2 actuators (facing doors)

SC.RD
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

BULL24.CBH
Accessory with CBY.24V battery charger card, NiMH batteries and support.

APPLICATION
1 actuator for sliding gate series BULL424ESA and BULL624ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Colour-coded terminal blocks
• Motor limit switch inputs
• Independent open and close photocell inputs
• Pedestrian, step by step, stop input
• N.C. or INP safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (STC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for sliding gate series PONY

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Colour-coded terminal blocks
• Motor limit switch inputs
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (STC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

ACCESSORIES

DA.2S
Electronic card that allows synchronized movement of 2 actuators (facing doors)

SC.RD
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

BULL24.CBH
Accessory with CBY.24V battery charger card, NiMH batteries and support.
INTERNAL CONTROL PANELS
24 Vdc

APPLICABILITY
1 actuator for sliding gate BULL1024ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 190W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver
• Parameter and operation logic adjustment via trimmer and dip-switch
• Built-in ESA SYSTEM for energy saving
• Removable terminal blocks
• Independent open and close photocell inputs
• Motor limit switch inputs
• Pedestrian, Step BY step, stop inputs
• N.C. or IP52 safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (RTC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close deaccelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 or 2 actuators series ZED24.RI

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 80W + 80W

MAIN FUNCTIONS:
• Parameter and operation logic adjustment via trimmer and dip-switch
• Built-in 433.92 MHz 64 codes and 2 codes radio receiver
• Programmable code, rolling code)
• Removable terminal blocks
• Motor limit switch inputs
• Open, close, step, step by step inputs
• N.C. or IP52 safety edge input
• 24 Vdc service light output
• Electronic couple adjustment
• Amperometric sensor obstacle detection security to prevent crushing
• Electronic accelerations
• Optional management of remote controls memorised on built-in receiver through Advantouch

APPLICATION
1 actuator for sliding gate BULL1024ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 190W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver
• Programmable code, rolling code, ARC
• Built-in ESA SYSTEM for energy saving
• Removable terminal blocks
• Independent open and close photocell inputs
• Motor limit switch inputs
• Motor limit switch inputs
• Step by step, stop inputs
• N.C. or IP52 safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (RTC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 or 2 actuators series ZED24.RI

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 80W + 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver
• Programmable code, rolling code, ARC
• Built-in ESA SYSTEM for energy saving
• Removable terminal blocks
• Independent open and close photocell inputs
• Motor limit switch inputs
• Motor limit switch inputs
• Step by step, stop inputs
• N.C. or IP52 safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (RTC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

APPLICATION
1 actuator for sliding gate BULL1024ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 190W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 2 codes radio receiver
• Programmable code, rolling code)
• Removable terminal blocks
• Motor limit switch inputs
• Open, close, step, step by step inputs
• N.C. or IP52 safety edge input
• 24 Vdc service light output
• Electronic couple adjustment
• Amperometric sensor obstacle detection security to prevent crushing
• Electronic accelerations
• Optional management of remote controls memorised on built-in receiver through Advantouch

APPLICATION
1 actuator for sliding gate BULL1024ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc, 190W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver
• Programmable code, rolling code, ARC
• Built-in ESA SYSTEM for energy saving
• Removable terminal blocks
• Independent open and close photocell inputs
• Motor limit switch inputs
• Motor limit switch inputs
• Step by step, stop inputs
• N.C. or IP52 safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment with automatic calculation for each point of the travel (RTC SYSTEM)
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder
INTERNAL CONTROL PANELS
24 Vdc

APPLICATION
1 actuator - JM.3

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 150W

MAIN FUNCTIONS:
• Parameter and operation logics adjustment via trimmer and dip-switch
• Built-in 433.92 MHz 64 codes and 2 codes radio receiver (programmable code, rolling code)
• Built-in ESA SYSTEM for energy saving
• Fixed terminal blocks
• Step by step, open, close, stop inputs
• Built-in courtesy light
• Electronic couple adjustment
• Crush prevention security with amperometric sensor detection and encoder management
• Fixed electronic decelerations

APPLICATION
1 actuator series JM.3ESA, JM.4ESA

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc 80W

MAIN FUNCTIONS:
• Built-in LCD display
• Built-in 433.92 MHz 64 codes and 3 codes radio receiver (programmable code, rolling code, ARC)
• Built-in ESA SYSTEM for energy saving
• Fixed terminal blocks
• Photocell input
• Step by step, open, close, stop inputs
• N.C. or NK safety edge input
• Gate open indicator light output, service light, second radio channel
• Test photocells
• Operating parameters autoset
• Electronic couple adjustment
• Crush prevention security with amperometric sensor detection and encoder management
• Open and close decelerations
• Optional parameter configuration and remote control management using the Advantouch system
• Number of manoeuvres
• Programming access password
• Maintenance reminder

ACCESSORIES

SC.RD
J.M.CBY

J.M.CBY

J.M.CBY

J.M.CBY

J.M.CBY

J.M.CBY

J.M.CBY

J.M.CBY
INTERNAL CONTROL PANELS
24 Vdc

APPLICATION
1 road barrier series EVA.5, EVA.7

CONTROL PANEL POWER SUPPLY
230 Vac

MOTORS POWER SUPPLY
24 Vdc - 160W

MAIN FUNCTIONS:
- Parameter and operation logics adjustment via trimmer and dip-switch
- Plug-in radio receiver ready
- Removable terminal blocks
- Motor limit switch inputs
- Open, close, stop, step by step, photocell inputs
- Output for EVA accessory, LEDs built-in to rod
- Electronic couple adjustment
- Amperometric sensor obstacle detection security to prevent crushing
- Electronic decelerations

ACCESSORIES

DA.2S
Electronic card that allows asynchronous movement of 2 antennas (facing doors)

SC.RD
Board no. 4 relays for control unit inputs support/decoupling. For use in the event of very long connections (i.e. buttons in house).

CBY.24V
Battery charger card. The CBY.24V card allows to charge two different types of nickel metal hydride and lead batteries.

DA.BT2
2.1Ah 12 Vdc Battery

DA.BT6
7Ah 12 Vdc Battery

EVA.SUP
Support for EVA internal accessories

ONE.2WI
433.92 MHz universal plug-in receiver, 2 channels.

AW
433.92 MHz aerial with 4m cable.
## Comparison Table

### Internal Control Panels

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</table>

### Inputs

- Step by step input
- Open input
- Close input
- Pedestrian opening input
- Photocell input
- Photocell input in opening phase
- Photocell input in closing phase
- Stop input
- Conductive safety input
- Limit switch input open/close for motor 1
- Limit switch input open/close for motor 2

### Outputs

- Motor 1 output
- Motor 2 output
- Flashing light output
- 12 Vac electric lock output
- Auxiliary output for optional electric lock card
- Photocell output in opening phase
- Photocell output in closing phase
- Stop input
- Conductive safety input
- Limit switch input open/close for motor 1
- Limit switch input open/close for motor 2

### Operating Logs

- "Dead man" function
- Semi-automatic function
- Automatic function
- Multi flat function
- Step by step function (open-close-open)
- Timer function in opening
- Adjustable slowdown time
- Fixed slowdown time
- Electronic brake
- Pre-warning flashing light
- Disable photocell in opening phase
- Close immediately after photocell
- Maintaining hydraulic motor pressure
- Closing delay motor 1
- Opening delay motor 2

### Adjustments

- Electromechanical adjustment force
- Electronic adjustment force
- Speed adjustment
- Starting with maximum power
- Self adjustment of working parameters
- Parameters adjustment through potentiometer
- Parameters adjustment through LCD display

### Other Characteristics

- Diagnostic LEDs
- 433.92 MHz built in receiver
- Parameters adjustment through LCD display
- Cycles counter
- Back up system (for special cases)
- Encoder input
- Built in ESA, Energy Saving System
- Maintenance warning
- Programming enabled by password

### Batteries

- DA.BT2 9086019 24V 2.1Ah 12 Vdc Battery
- DA.BT6 9086020 24V 7Ah 12 Vdc Battery
- DA.BT18 9086004 24V 18Ah 12 Vdc Battery
- NIMH 9086006 24V 2Ah 24 Vdc NIMH Battery

### Battery Charger

- DA.BB 9086004 Battery charger card for DA.BT2
- CBY.24V 9086005 Battery charger card for DA.BT6

### Box

- SB 9252003 Plastic box for small control unit
- HB 9252004 Standard box for control units
- LB 9252005 Standard box for special cases
**Electronic Signals & Controls**

**Rolling Code Transmitters**

- 2 or 4 channels

- Rolling code transmitter available with 2 or 4 channels, with 433.92 MHz and 868 MHz frequency
- Also available in serialised version, for multiple insertions (TO.GO2WVS/TO.GO4WVS)

- **433.92 MHz Transmitters**
  - 433.92 MHz 2 channels rolling-code transmitter.
  - TO.GO2WVS: Serial self-learning of the transmitters with ADVANTOUCH system.

- **868 MHz Transmitters**
  - 868 MHz 2 channels rolling-code transmitter.
  - TO.GO2QV: Serial self-learning of the transmitters with ADVANTOUCH system.

**433.92 MHz Receivers and Accessories**

- **ONE.2WB**
  - Universal receiver 433.92 MHz, 2 channels
  - 12 V Battery, for transmitter.

- **ONE.2WI**
  - 433.92 MHz universal plug-in receiver, 2 channels.

- **CALL**
  - 4 channel receiver 433.92 MHz with rolling code system.
  - 230 V AC power supply.

- **MEM2048**
  - Accessory that allows the extension of the receiver memory up to 2048 codes.

- **BT12**
  - 12 V Battery, for transmitter.

**868 MHz Receivers and Accessories**

- **ONE.20B**
  - Universal receiver 868 MHz, 2 channels

- **ONE.20I**
  - 868 MHz universal plug-in receiver, 2 channels.

- **MEM2048**
  - Accessory that allows the extension of the receiver memory up to 2048 codes.

- **AQ**
  - 868 MHz aerial with 4m cable.

- **BT12**
  - 12 V Battery, for transmitter.

Call for more details on the availability and pricing of these products.
ELECTRONIC SIGNALS & CONTROLS

PROGRAMMABLE CODE TRANSMITTERS

- Programmable code transmitter available with 2 or 4 channels with dip-switches code.
- Operating frequency 433.92 MHz

2 or 4 channels

2 channels transmitters, dip-switches code.

4 channels transmitters, dip-switches code.

2 channels self-learning code transmitter.

4 channels self-learning code transmitter.

RECEIVERS AND ACCESSORIES

ONE.2WB
9673102
Universal receiver 433.92 MHz, 2 channels in box.

ONE.2WI
9673103
Universal plug-in receiver 433.92 MHz, 2 channels.

BT12
9086010
12 V Battery, for transmitter.

Available in 50 pcs packing.

CALL
9076058
433.92 MHz aerial with 4m cable.

RR.4WB
9673161
4 channel receiver 433.92 MHz with programmable code system. 24 Vac/dc power supply.

RR.4WBP24
9673159
4 channel receiver 433.92 MHz with programmable code system. 230 Vac power supply.

AW
9673160
433.92 MHz aerial with 4m cable.

CALL OPTIONS

- Four-channel Q3M receiver, up to 4 access control without limits of distance. Includes 3 nipples to use the device by means of a mobile telephone.

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AW
9673160
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CALL OPTIONS

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**APPLE ELECTRONIC SIGNALS & CONTROLS**

**ROLLING-CODE TRANSMITTERS**

- **surface mounting transmitter**
  - 2 or 4 channels
  - **APPLE.2** 9863052
    - 433.92 MHz self-learning rolling code transmitter available with 2 channels, with surface mounting holder.
  - **APPLE.4** 9863053
    - 433.92 MHz self-learning rolling code transmitter available with 4 channels, with surface mounting holder.

**TRANSMITTERS WITH SURFACE MOUNTING HOLDER**

- **ES.MINI** 9673185
  - 2 channel receiver 433.92 MHz with rolling code and programmable code system. Ideal for control of simple automations (i.e. shutters or lighting control) without the need for costly cabling works. Compact size (42x36x21mm) which allows for insertion even in embedded boxes in electrical systems (i.e. switches).

**BATTERY POWER SUPPLY 12 Vdc**

- **BT12** 9086010
  - Available in 50 pcs packing.

**RECEIVERS AND ACCESSORIES**

- **ONE.2WB** 9673103
  - Universal receiver 433.92 MHz, 2 channels in box.

- **ONE.2WI** 9673102
  - Universal plug-in receiver 433.92 MHz, 2 channels.

- **CALL** 9673166
  - Four-channel GSM receiver, up to 4 automations control without limits of distance. Makes it possible to use the device by means of a mobile telephone.

- **MEM2048** 9570001
  - Accessory that allows the expansion of the receiver memory up to 2048 codes for rolling code transmitter.

- **AW** 9076058
  - 433.92 MHz aerial with 4m cable.
IO ELECTRONIC SIGNALS & CONTROLS

ROLLING-CODE TRANSMITTERS

2 channels

- Two-channel rolling code transmitter, small size
- Available in the grey version or in 5 colours, all belonging to the COLOURS range
- A cheerful choice to express the different ways of feeling BENINCÀ, each one corresponding to a colour, varying our remote control and ourselves in a unique way

IO.GREY
9863155
Transmitters series IO.2WV, 433.92 MHz 2 channels rolling code.
Pack of 10 pieces.

IO.COLOURS
9863150
Transmitters series IO&COLOURS, 433.92 MHz 2 channels rolling code.
Pack of 10 pieces. Composed of two transmitters each colour.

RECEIVERS AND ACCESSORIES

ONE.2WB
9076058
Battery 3v.
Pack of 25 pieces.

ONE.2WI
9076059
433.92 MHz universal plug-in receiver, 2 channels.

MEM2048
9570001
Accessory that allows the extension of the receiver memory up to 2048 codes.
For rolling code receiver.

AW
9673101
433.92 MHz aerial with 4m cable.

BT.IO
9673102
433.92 MHz universal plug-in receiver, 2 channels.

Pack of 25 pieces.
ONE.2WB 9673103
433.92 MHz 2 channels universal receiver, in box.
Suitable for rolling code, programmable code and advanced rolling code. The first memorized transmitter will set up the kind of accepted code.

ONE.2WI 9673102
433.92 MHz 2 channels universal plug-in receiver.
Suitable for rolling code, programmable code and advanced rolling code. The first memorized transmitter will set up the kind of accepted code.

RR.4WBV 9673158
4 channel receiver 433.92 MHz with rolling code system. Programming via built-in display, 230 Vdc power supply. Optional operation using 12 Vdc buffer battery with built-in auto charger circuit (batteries excluded), 4 max 5A relay outputs.

RR.4WBV24 9673160
4 channel receiver 433.92 MHz with rolling code system. Programming via built-in display, 24 Vac/dc power supply. Optional operation using 12 Vdc buffer battery with built-in auto charger circuit (batteries excluded), 4 max 5A relay outputs.

RR.4WBV24/P24

ONE.2QB 9673112
868 MHz 2 channels universal receiver, in box.
Suitable for rolling code, programmable code and advanced rolling code. The first memorized transmitter will set up the kind of accepted code.

ONE.2QI 9673111
868 MHz 2 channels universal plug-in receiver.
Suitable for rolling code, programmable code and advanced rolling code. The first memorized transmitter will set up the kind of accepted code.

RR.4WBV 9673158
4 channel receiver 433.92 MHz with rolling code system. Programming via built-in display, 230 Vdc power supply. Optional operation using 12 Vdc buffer battery with built-in auto charger circuit (batteries excluded), 4 max 5A relay outputs.

RR.4WBV24 9673160
4 channel receiver 433.92 MHz with rolling code system. Programming via built-in display, 24 Vac/dc power supply. Optional operation using 12 Vdc buffer battery with built-in auto charger circuit (batteries excluded), 4 max 5A relay outputs.

RR.4WBV24/P24
BENINCA is the first to introduce on the automation market a system that allows to reduce energy consumption with a device applicable to all new or existing automation systems, either by BENINCA or other manufacturers. This allows any user to bring their automation in line with today’s concerns related to energy consumption.

The ESA control panel is connected to the automation system to permit lower power consumption in stand-by mode, perfectly in tune with the new European directive.

ESA SYSTEM is a BENINCA project (patent pending)

- The system allows to have a great energy saving even during stand-by mode
- The control panel can also be used as a normal receiver with 6 channels
- Transmitters can be maintained directly in the ESA
- Maximum flexibility thanks to the three types of code: rolling code, advanced rolling code (ARC) and programmable code
- 4-channel receiver to control the automation system via mobile phone (text or call), along with radio control
- It can control various types of systems, such as alarm systems, garden irrigation, etc.
- The system is operated by entering a certain number of telephone users in the receiver’s SIM card. Each user will then be able to control all the functions for which it has been programmed
- Associating the number of possible users, the settings associated with the telephone numbers (saving/deleting/editing the settings) and saving the rolling code transmitters may be done without having to access the control panel and does not require the survey of an operator, as they may be done with a mobile phone
- CALL allows to associate a function that can be activated with a missed call (no charges) to one of the four channels. So the activation of a control by a user is made possible by means of a simple call free of charge. (for instance opening the gate, switching on the lights, the alarm system).
- The built-in display allows to customise the function of each relay: monostable, bistable or timed up to 600 seconds.
- If the alarm system is associated with one of the four channels, CALL is designed to call a pre-set user, in the event of a sudden activation of the alarm itself.
- The alarm system can be deactivated by a user authorised to access this function via mobile phone.
- The input for buffer battery with 12 Vdc (optional) with integrated recharge control guarantees operation of the receiver even during a power cut.

**TYPICAL TREND OF POWER ABSORPTION WITH**
**ESA SYSTEM ACTIVATED ON BULL1024ESA MODEL**

**TYPICAL TREND OF POWER ABSORPTION WITH**
**ESA SYSTEM DEACTIVATED ON BULL1024ESA MODEL**

- 1. OPENING PHASE
- 2. TCA
- 3. CLOSING PHASE

**CALL**

4 channels
New controller, fully reworked in functions:

- Display touch screen of 4.3"
- Simple and intuitive to use, with the option of managing and creating lists of transmitters directly on the device, without using the PC, thanks to the internal memory.
- Maximum simplicity in transmitter insertion, deletion or disabling and in database creation.
- It configures parameters and manages logic of control units.
- Used to update control unit software or the controller itself, directly, simply and quickly.
- Maximum security ensured by a password that locks the receiver.
- Simplified management of transmitters and receivers with multiple channels, with quick association between buttons and channels.
- Compatible with 433.92 MHz transmitters and receivers with rolling code, programmable code, and ARC encoding.
- Support for USB devices.

INCLUDED ACCESSORIES

C1 Connection cable for control units and software update.
C2 Connection cable for control units and configuration of operating logic.
C3 Connection cable for transmitters and receivers to control units.
C4 Connection cable for receivers programming.
C5 Radio control programming and transmitters and control unit memory reading board.
C6 USB cable to connect ADVANTOUCH to network power supply and PC.

AD.CD ADVANTOUCH management software on CD for PCs with Windows operating system.

Cable to connect ADVANTOUCH to network power supply and PC.
**TEO SYSTEM**

- TEO SYSTEM, the new proximity scanning and management system for opening residential and professional automations by means of transponder tags (TEO) or cards (Teo Card).
- The automation is opened when the TEO transponder approaches the BE.PROXY scanner which, dialoguing with the receiver, gives the command to open the gate, the door, or any controlled device.
- The system operates with a frequency of 13.56 MHz, standardised all over the world.
- 250 insertable cards or tags (TEO/TO.GO2WVT/TO.GO4WVT).

**TEO CARD**

- Transponder device in card format.
- Packaging: 10 pcs.

**BE.PROXY**

- Proximity reader for TEO/TEO CARD/TO.GO2WVT/TO.GO4WVT externally fitted, to be used with the BE.READ receiver. Reading distance 2-5 cm.
- Reading distance 2-5 cm
- 2 programmable relay output channels
- Possibility to control one of the two relay outputs with a card, or both outputs with a single or double passage of the card or tag
- Possibility of memorising the cards and tags one by one with the BE.READ, or in remote mode with the BE.PROXY, using a master card.

**TEO**

- Transponder device key holder shaped.

**BE.READ**

- Two-channel receiver for BE.PROXY reader. With two relay outputs. Timed or bistable operating mode. Memory capacity 250 cards/tags/TO.GO2WVT/TO.GO4WVT.

**TO.GO2WVT**

- 2 channels self-learning code transmitter with transponder.

**TO.GO4WVT**

- 4 channels self-learning code transmitter with transponder.
**DIGITAL KEYPAD**

**SIGNALS AND COMMAND**

**BE.TOUCH**

9670001

Digital keypad with battery, with wireless functionality and alarm buzzer. Backlight buttons, with capacitive type activation.

**BE.PLAY**

9670013

Metal digital keypad with numeric illuminated keys in stainless steel.

**BE.TOUCH**

- Capacitive touch-screen keypad
- LED backlight
- Battery operated: Primary lithium (Li) 2 x CR123A (2 batteries)
- Battery autonomy: minimum 4 years with 10 activations a day
- Operating frequency: 433.92 MHz compatible with all radio frequency receivers by Beninca
- Type of coding: rolling code, programmable code and advanced rolling code (ARC). The three codes can be used together, increasing the versatility of the keypad
- Range in open air: 100 m
- Maximum amount of codes that can be stored: 254
- Code between 1 and 9 figures
- Key numbers from 0 to 9 plus confirm key
- Possibility of setting access password, countdown codes and deleting individual codes
- Flat battery signaling system and a buzzer for audio signaling
- IP65 Protection level

**BE.PLAY ACCESSORIES**

**BE-REC**

9673028

24 Vac/dc 2 channels decoder for BE-PLAY. Operating mode: Bistable or Time. It is possible to link up to 4 BE-PLAY. Relay output max 0.5 A. Memory capacity up to 255 codes.

**KC-BEPLAY**

Adapter for BE.PLAY digital pad on COL10N / 12N columns.

**COL10N**

9230004

Pair of disassembled columns equipped with base and support for selector CH or keypad PNO/PNC. Optional installation of BE-PLAY keypad with KC-BEPLAY accessory. H= 1 m

**COL12N**

9230003

Pair of disassembled columns equipped with base and support for keypad PNO/PNC, photocell FTC.S and proximity reader BE.PROXY. Optional installation of BE-PLAY keypad with KC-BEPLAY accessory. H= 1 m

**DIGITAL KEYPAD WARNING DEVICES AND SIGNALS**

**Activates the keypad by laying a hand on the screen**

**Type in the previously memorised code, followed by “Enter”**

**Two beeps and two flashes of the backlights indicate the completion of transmission**
KEY SELECTOR

TOKEY
9764006
Surface mounting key selector.

TOKEY.I
9764005
Flush mounting key selector.
IP 67 Water proof limit switch.

CH
9764012
Key selector, in die-cast aluminium with waterproof micro switches. KE or KI accessories are required for different way of fittings.

ID.SCM
9764030
Magnetic key selector.

SIGNALS AND COMMAND

ACCESSORIES

CEM
9902005
Counterplate to be cemented for COL10N base.

COL10N
9902006
Pair of disassembled columns equipped with base and support for COL10N base.

KE
9902008
Surface mounted box for CH key selector switch.

KI
9902009
Flush mounted for CH key selector.

ID.SK
9189060
Neutral key for CH/TOKEY.

ID.MK
9189010
Magnetic key for ID.SCM.
**PUSH BUTTONS**

**PNO**
9670012
Surface mounting push buttons with 2 normally open contact.
To be fitted on COL10N pillar.

**PNC**
9670014
Surface mounting push buttons with a normally open contact and a normally closed contact.
To be fitted on COL10N pillar.

**IPB.NO**
9670051
Industrial surface mounting push buttons with 2 normally open contact.

**IPB.NC**
9670050
Industrial surface mounting push buttons with a normally open contact and a normally closed contact.

**ACCESSORIES**

**COL10N**
Pair of disassembled columns supplied with base and support for selector or keypad. PNO/PNC Optional combined with KE-PLAY keypad fitted with KC-BEPLAY accessory No. 118.

**FLASHING LIGHTS**

**LAMPI.LED**
9534098
230 Vac Led flashing light with built-in aerial.

**LAMPI24.LED**
9534099
24 Vdc Led flashing light with built-in aerial.
PUPILLA.B

- Photocell’s transmitter powered by battery
- The innovative battery charging system using a photovoltaic panel represents an authentic novelty distinguishing PUPILLA.B, guaranteeing maximum safety and perfect operation to any plant
- Possibility of connecting up to 2 photovoltaic panels in case of non-optimal climate conditions
- Continuous operation without any need of maintenance
- PUPILLA.B allows compliance with safety regulations even on installations that do not have incorporated safety systems thanks to the transmission of the controls even on moving gates
- The photocells can be oriented in different directions to make installation even easier

PUPILLA / PUPILLA.F

- 24 Vac/dc synchronise surface mounting photocell. It is possible to synchronise up to 4 couple of photocells. A led makes the centring of the beam easy and fast.
- PUPILLA.F: Pair of fixed photocells for external fitting.

PHOTOCELLS WARNING DEVICES AND SIGNALS

FTC.S

- 24 Vac/dc synchronise surface mounting photocell. It is possible to synchronise up to 4 couple of photocells. They can be fitted also on COLU5N, COL10N and COLU12N aluminium columns.

SC.P30QIS

- 24 Vac/dc synchronise flush mounting photocell. It is possible to synchronise up to 4 couple of photocells. SC.PD not included.
**DETECTION AND SAFETY DEVICES**

**COL05N**
- 9230002
- Pair of disassembled columns equipped with base and support for keypad PNO/PNC, protocol FTC.S and proximity reader BE.PROXY. BE.PLAY can be installed with KC-BEPLAY accessory.
- H = 0.5 m

**COL10N**
- 9230004
- Pair of disassembled columns equipped with base and support for selector CH or keypad PNO/PNC. BE.PLAY can be installed with KC-BEPLAY accessory.
- H = 1 m

**COL12N**
- 9230003
- Pair of disassembled columns equipped with base and support for keypad PNO/PNC, protocol FTC.S and proximity reader BE.PROXY. BE.PLAY can be installed with KC-BEPLAY accessory.
- H = 1 m

**COL.P**
- 9230006
- Column in anodised aluminium with base, for the PUPILLA, PUPILLA.F protocol.
- H = 0.5 m

**COL.BY**
- 9230042
- Column pair for PUPILLA.F equipped with base and cover.
- H = 0.5 m

**ACCESSORIES**

**CEM**
- 92300105
- Counterplate to be cemented for COL05N, COL10N and COL12N columns.
DETECTION AND SAFETY DEVICES

- New BENINCA radio frequency system composed of an 868 MHz transmitter, model RF / RF.SUN combined with the SC.RF receiver.
- It allows two-way radio communication between the device installed on the mobile edge of the gate and powered by a battery (connected to a safety sensitive edge) and the receiver.
- The absence of wires on the mobile gate device makes it particularly suitable for sectional and industrial doors and for the protection of mobile edges on sliding gates.
- The transmitter is available in two models: RF.SUN with a rechargeable battery by means of a photovoltaic panel and RF with a non-rechargeable battery.
- Both models have an input for the connection of an 8K2 sensitive edge or a mechanical rib, protection level: IP 55.
- The SC.RF receiver, powered with 12/24 Vdc, is equipped with an autotest function and 2 relay for connection to the electronic control units.
- The new BENINCA device therefore allows the securing of industrial systems, without requiring connection cables in the mobile part of the gate and thus making installation easier on existing systems.
- Complies with standard EN12978.

RF.SUN / RF / SC.RF

RF.SUN
9409015
Battery-operated system recharged through a photovoltaic panel to be applied on a mobile edge. The photovoltaic panel grants the maximum system’s autonomy.

RF
9409016
Radio transmitters with a non-rechargeable battery, with guaranteed duration 2 years.

SC.RF
9409014
12/24 Vdc receiver with self-test function and 2 output relay.

SOLAR PANEL
DETECTION AND SAFETY DEVICES

SC.RES / SC.RL
9270060
Safety edge in conductive rubber, 25.5 mm Width.
Minimum packing: 20 m.
SC.RES: 25 mm Height
SC.RL: 65 mm Height

SC.A
9667010
Aluminium profile for SC.RES / SC.RL.
Packing: 2 m.

SC.EN
9760026
Electronic interface card for 8k2 sensitive edges,
to be used with electronic devices without input for resistive sensor, or in the case of connecting 2 resistive sensors to a control unit.
Conforms to standard EN12978.

SC.R71 / SC.R72
9667052
Rubber profile, 70 mm high, for SC.M71/72.
Packing: 2 m.

SC.M71 / SC.M72
9270040
Mechanical safety edge, 1.5 m.
9270050
Mechanical safety edge, 2 m.
SC.F15 / SC.F20 / SC.F25
9270070
Mechanical safety edge, 1.5 m long.
9270071
Mechanical safety edge, 2 m long.
9270072
Mechanical safety edge, 2.5 m long.

INSTRUMENTS FOR THE MEASURING OF THE IMPACT-GENERATED FORCES

IGF-B / IGF-S
9840001
9840002
Available in two versions:
with bluetooth (IGF-B) and with cable (IGF-S).
These Terms of Sale apply to all Sales of Products, at the time of signing the contract or of confirming the order. If there is a conflict between these Terms and the conditions and terms agreed for an individual sale or in any existing commercial contract, the latter will prevail. AUTOMATISMI BENINCA shall not be bound by the General Terms of Purchase of the Customer in any circumstance, unless it agrees to the contrary.

- CUSTOMER: any subject (natural or legal person) who purchases the Products and who is not covered by the definition of Consumer according to the Consumer Code.

- DATE OF DESPATCH: the date of the transport document.


- PRODUCT: the Products shall be supplied to the Customer in conformity with the description and in accordance with the specifications provided by the Supplier.

- QUANTITY: the quantities indicated in the contract or order will only be regarded as correct if explicitly confirmed in a separate document sent by the Customer.

- PRICE OF THE PRODUCTS: The price of the Products shall be as set out in the contract or order. If the price is not set, the price list in force at the time of order will be applied. The order must be confirmed by the Customer within 7 days from the date of the invoice. If the order is not confirmed, it shall be considered cancelled. Payment terms and procedures indicated on the invoice. Payment in currency other than the Euro will be accepted only if agreed on in writing; AUTOMATISMI BENINCA SpA shall not be bound by the General Terms of Purchase of the Customer in any circumstance, unless it agrees to the contrary.

- TRANSPORT: The goods are supplied against payment at the Customer’s risk. The cost of the transport shall be borne by the Supplier, if not otherwise agreed. If the Customer fails to collect the goods, the Supplier may store them at the Customer’s risk and expense, and the Customer shall pay for storage costs.

- RETENTION OF OWNERSHIP: The products shall remain the property of AUTOMATISMI BENINCA SpA until the date on which the Customer pays the full amount of the price due. In the event of non-payment, AUTOMATISMI BENINCA SpA may retain the products in its possession and the ownership of which, under this clause of retention of ownership, has not yet passed to the Customer, if the Customer has remained in default for a period of more than seven working days with respect to the payment of any sum owed to AUTOMATISMI BENINCA SpA. If AUTOMATISMI BENINCA SpA exercises the right contemplated in the previous paragraph, the Customer undertakes to immediately pay the total price due, and to cease all its activity related to the contract. AUTOMATISMI BENINCA SpA may also claim damages for any damage caused to the products while in the Customer’s possession.

- ORDERS: The order is received by AUTOMATISMI BENINCA SpA without any commitment and subordinate to the possibility of availability of the product. If the Customer cancels specific orders for the production of Products not in the catalogue, he is required to pay AUTOMATISMI BENINCA SpA a penalty amounting to 30% of the cost of the cancelled order, without prejudice to his right to claim further damages. The order rejected by AUTOMATISMI BENINCA SpA cannot be cancelled by the Customer without the consent of AUTOMATISMI BENINCA SpA in writing. Payment in full and immediate terms is required for orders under a total value of €5,000.00 or over. Payment is due upon receipt of the invoice. AUTOMATISMI BENINCA SpA reserves the right to suspend delivery of Products to the Customer if it is not satisfied about the creditworthiness of the Customer.

- DEFECTS OF THE PRODUCTS: Any defect of the Products shall be notified to AUTOMATISMI BENINCA SpA within 8 days from the date of delivery. The Customer must return the Products to AUTOMATISMI BENINCA SpA at the Customer’s expense and risk. If the defect is not reproducible, AUTOMATISMI BENINCA SpA shall have the right to have the Products checked. AUTOMATISMI BENINCA SpA may decide to repair or replace the Products according to the repair price list in force. The individual parts repaired under or out of guarantee will be covered by a further guarantee period of 6 months. AUTOMATISMI BENINCA SpA shall not be responsible for damage resulting from defects in the products, save in the case of malice or gross negligence. Moreover, any responsibility shall be exclusive and absolute from the provisions of Italian law. AUTOMATISMI BENINCA SpA shall not answer for more than the limit of liability of the Product Risk Insurance policy taken out by the company. AUTOMATISMI BENINCA SpA shall not be responsible for indirect damage such as, purely as an example, loss of earnings of the Customer.

- RESPONSIBILITY: AUTOMATISMI BENINCA SpA shall not be responsible for indirect damage such as, purely as an example, loss of earnings of the Customer.

- INTERPRETATION OF THE TEXT: The Italian text of these general terms of sale, even if drawn up in several languages, will be the only authentic text for the purpose of their interpretation.
Today BENINCÀ HOLDING has become a splendid reality, a dream that has come true to give shape to aims of specialisation that we have always pursued.

A corporate decision to express a precise mission: offering solutions by acting as specialists in the automation sector.

The elephant is the symbol we have chosen for BENINCÀ HOLDING, the image that best represents our precise choice of corporate strength and reliability, but also intelligence and dynamism when interacting with international partners and with all customers.
AUTOMATIONS FOR ROLLING SHUTTERS AND SECTIONAL DOORS

OPERATORS FOR WINDOWS AND TILT OPENING WINDOWS

OPERATORS FOR ROLLING SHUTTERS AND BLINDS

IDRAULIC AUTOMATIONS FOR SWINGING GATES

CANTILEVER SLIDING GATES

SLIDING GATES ON TRACK

INDUSTRIAL DOORS

SWING GATES

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AUTOMATIC, SEMI-AUTOMATIC AND FIXED BOLLARDS

TURNSTILES

ACCESS CONTROL

EMBEDDED SYSTEM FOR NUMBER PLATES DETECTION

SLIDING DOORS AUTOMATIONS

AUTOMATIONS FOR SWING DOORS

TRANSMITTERS

SELECTORS
Catalogue printed on FSC® certified paper produced with raw materials obtained from forests correctly managed from the environmental, economical and social point of view.

FSC® was founded by a group of environmentalist associations including Greenpeace, representatives of native peoples, organisations for cooperation in development, forestry producers, wood industries, scientists and forestry technicians, to create an alternative to the forests destructions.

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