












# MADE TO *last*

Complete solutions to automate your home

[www.proteco.net](http://www.proteco.net)

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# The group PROTECO

Over **40 years Proteco** has been growing and developing systems for doors and gates.

## We are passionate about high quality

and believe that tailoring our choices around our customers is at the heart of our progression, today and in the future.

**Proteco** group comes today across **60+ countries** world wide.

A guarantee for our customers and a motivation to continually seek inspiration and progress.







We don't just  
sell automatic gates.  
We build lasting relationships.

### **Every dealer and installer is an essential part of our corporate network.**

They share with us not only common goals, but also values, vision, and uncompromising quality standards. We believe that the success of every project depends on the strength of the team behind it. For this reason, we rely on a solid network of partners we know, trust, and have worked with for many years. It's more than a family — it's a partnership we have consciously chosen.



# Proteco's people

**Reliability is not just a matter of technical performance on its own, it is more than that, it is a solid trusty relationship between those who have a need and those who meet it.**

Between those who sell a product and those who choose it.  
That is why we have always chosen to be on the front line.  
You will not find any unpersonal call center, nor faceless intermediaries.  
Those who work with Proteco meet real, present, and trustworthy people.

We are also convinced that the value of a relationship grows over time.  
That's why, over the years, we have focused on building a talented team. Because every customer, every installer, and every partner deserves the opportunity to build a relationship based on trust.



Automation  
is a matter of precision  
and expertise,

**but also of continuity, listening, and presence.**

For us, this presence is not a formality — it is an integral part of the service we provide.  
It is what turns every interaction into something more than a simple transaction.  
This is how, every day, we choose to make a difference. And how we do make a difference.





# Simple and user-friendly

## Products designed to adapt the way people use them.

Every system is developed with a clear goal: to reduce installation time, simplify configuration, and ensure long-term efficiency.

It means designing automations that are easy to program, because we know that every minute saved on site matters. It means developing modular systems that can adapt to the space and the specific requirements of each installation.

Every context is different. Every gate, every system, every need requires a solution that adapts and fits.





# Always close to **YOU**

Proteco is above all a small, big family. It is a matter of fact that all our products come from our customers' direct experience.

At Proteco's, post-sale service, technical assistance, co-operation and teamwork is what makes us different. That's why we have created a devoted support phone line along with a network of qualified skilled installers who regularly train at the company.



# SWING gates

## Selection guide



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Rhino — leaf up to 3,00 mt — 24V — mechanical — **Rhino 24**  
 — leaf up to 3,50 mt — 115V, 230V — mechanical — **Rhino**



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Rhino XL — leaf up to 5,00 mt — 24V — **Rhino XL 24**  
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Leader TI — leaf up to 2,00 mt — 24V — **Leader 3 24 TI**  
 — leaf up to 2,00 mt — 115V, 230V — **Leader 3 TI**  
 — leaf up to 2,50 mt — 24V — **Leader 4 24 TI**  
 — leaf up to 2,80 mt — 115V, 230V — **Leader 4 TI**  
 — leaf up to 3,00 mt — 24V — **Leader 5 24 TI**  
 — leaf up to 3,50 mt — 115V, 230V — **Leader 5 TI**



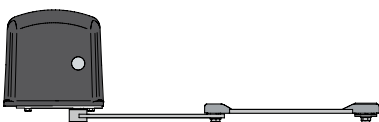
| 18 - 19 |

Leader TA — leaf up to 2,50 mt — 24V — mechanical — **Leader 4 24 TA**  
 — leaf up to 2,50 mt — 24V — mechanical — **Leader 4 24 TA FM**  
 — leaf up to 2,80 mt — 115V, 230V — **Leader 4 TA**  
 — leaf up to 2,80 mt — 115V, 230V — mechanical — **Leader 4 TA FM**



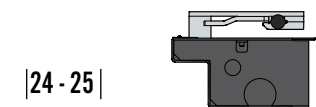
| 20 - 21 |

Aster — leaf up to 2,00 mt — 24V — **Aster 3 24**  
 — leaf up to 2,00 mt — 115V, 230V — **Aster 3**  
 — leaf up to 2,00 mt — 230V — 900 rpm — Reversible — **Aster 3 900 Rpm**  
 — leaf up to 2,00 mt — 230V — 900 rpm — Reversible — **Aster 3 Rev.**  
 — leaf up to 2,50 mt — 24V — **Aster 4 24**  
 — leaf up to 2,80 mt — 115V, 230V — **Aster 4**  
 — leaf up to 2,80 mt — 230V — 900 rpm — Reversible — **Aster 4 900 Rpm**  
 — leaf up to 2,80 mt — 230V — 900 rpm — Reversible — **Aster 4 Rev.**  
 — leaf up to 3,00 mt — 24V — **Aster 5 24**  
 — leaf up to 3,50 mt — 115V, 230V — **Aster 5**  
 — leaf up to 4,00 mt — 230V — **Aster 6**



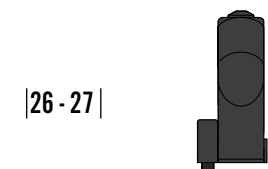
| 22 - 23 |

Advantage — leaf up to 2,00 mt — 24V — **Advantage 24**  
 — leaf up to 2,00 mt — 230V — **Advantage**



| 24 - 25 |

Shark — leaf up to 2,50 mt — 24V — **Shark 24**  
 — leaf up to 3,00 mt — 230V — **Shark**



| 26 - 27 |

Wheeler — leaf up to 150 Kg — 24V — locked — **Wheeler 24 B**  
 — leaf up to 150 Kg — 230V — locked — **Wheeler 230 B**  
 — leaf up to 150 Kg — 230V — reversible — **Wheeler 230 R**  
 — leaf up to 150 Kg — 115V — locked — **Wheeler 115 B**

# Rhino

## Linear swing motor for gates up to 3,5 m.

230V - 115V - 24V

Electromechanical locked swing gate system for residential and semi-intensive use settings.

Modern elegant design, one-piece die-cast aluminum body.

Extremely powerful and reliable, transmission shaft with four-start worm screw and bevel gear.

Embedded adjustable limit switches in opening and closing: it makes the installation easier and friendly and doesn't require leaf stops on ground. Wired capacitor on board the motor and terminal block for power cable wiring.

Upper emergency release for quick and practical manual operation.

Multi-position fixing brackets included.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

### THE RANGE

|          | Power supply |        | Leaf  |        |
|----------|--------------|--------|-------|--------|
| RHINO    | 230V-115V    | locked | 3,5 m | 400 Kg |
| RHINO 24 | 24V          | locked | 3,0 m | 350 Kg |



### KIT CONTENT

**RHINO**  
Set of motors  
including fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna



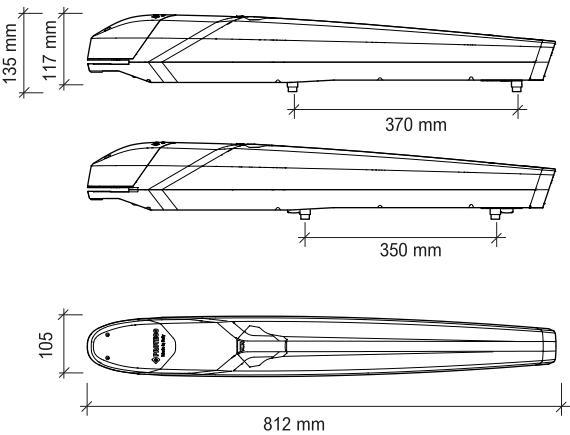
**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz



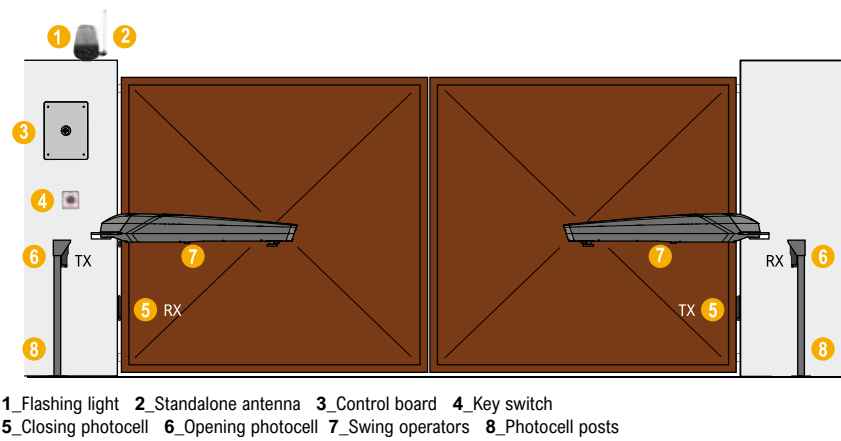
TECHNICAL FEATURES

|                                              | RHINO       | RHINO 115V  | RHINO 24V |
|----------------------------------------------|-------------|-------------|-----------|
| Power supply                                 | 230V ~ 50Hz | 115V ~ 60Hz | 24V dc    |
| Current                                      | 1.2 - 1.7A  | 3.1 - 3.3A  | 0.6 - 6A  |
| Motor power                                  | 300 W       | 300 W       | 50 W      |
| Thermic protection                           | 150°C       | 150°C       | —         |
| Max thrust                                   | 3200 N      | 3200 N      | 2700 N    |
| IP class protection                          | 44          | 44          | 44        |
| Revolution speed                             | 1400 rpm    | 1700 rpm    | 1600 rpm  |
| Opening time with mechanical limit switch    | 26"         | 22"         | 24" - 28" |
| Opening time without mechanical limit switch | 22"         | 18"         | 20" - 24" |
| Max leaf weight                              | 400 Kg      | 400 Kg      | 350 Kg    |
| Max leaf length                              | 3,5 m       | 3,5 m       | 3 m       |
| Duty cycle                                   | 40%         | 40%         | 80%       |


DIMENSIONS




INSTALLATION MAP




OPTIONAL ACCESSORIES




**RS15**  
Key switch




**RT40**  
Vandal-proof keypad with tag reader




**RT42**  
Polycarbonate keypad, backlit keys



**RT37**  
Wireless keypad



**RT17**  
Electric-lock 12V 15W, ground installation



**MEL04**  
Optional card for electric-lock

# Rhino XL

Telescopic linear actuator for  
swing gates with leaves up to 5 m

230V - 115V - 24V

Designed for residential, multi-unit, and commercial use, **RHINO XL** is the ultimate solution for automating even the heaviest gates—up to 5 meters wide.

The solid one-piece die-cast aluminum body delivers strength and long-lasting reliability.

Its innovative telescopic movement ensures maximum adaptability in any installation setting, with fewer fixing constraints and a wide opening angle of up to 120°.

Extremely versatile, **RHINO XL** is also perfect for deep pillars and can be installed on gates with hinge-to-edge distances of up to 20 cm.

The robust release system is conveniently located at the top of the motor, operated with a hex key and protected by a self-closing cover for maximum safety.

Pre-wired capacitor on board the motor and a terminal block for power cable connections.

Multi-position mounting brackets included.

Available in both **230V** and **24V** versions, **RHINO XL** is ideal for continuous, heavy-duty use in residential complexes.

And with the 24V version, you can connect a backup battery system to keep your automation running even in the event of a power outage.

## THE RANGE

|             | Power supply |        | Leaf  |        |
|-------------|--------------|--------|-------|--------|
| RHINO XL    | 230V-115V    | locked | 5,0 m | 450 Kg |
| RHINO XL 24 | 24V          | locked | 5,0 m | 400 Kg |



## KIT CONTENT

**RHINO XL**  
Set of motors  
including fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

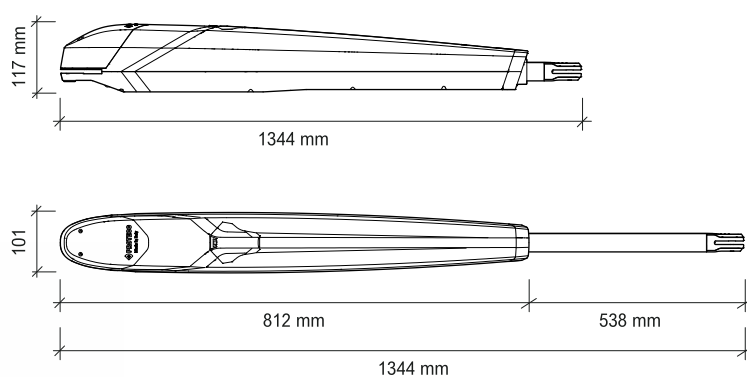


**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz

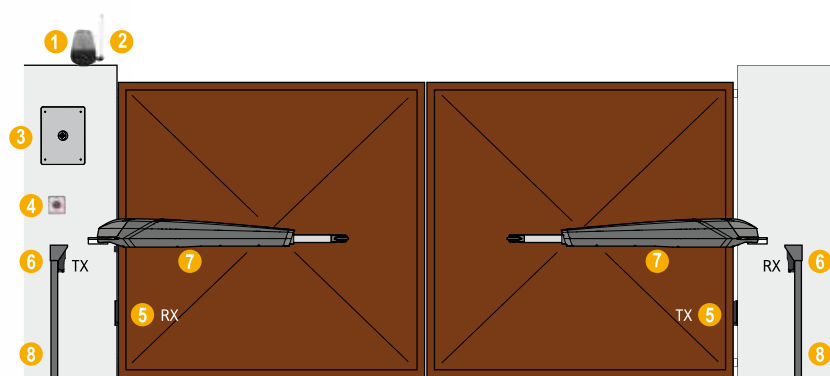
## TECHNICAL FEATURES

|                     | RHINO XL    | RHINO XL 115V | RHINO XL 24V |
|---------------------|-------------|---------------|--------------|
| Power supply        | 230V ~ 50Hz | 115V ~ 60Hz   | 24V dc       |
| Current             | 1,0 - 1.7A  | 3.1 - 3.3A    | 08 - 8A      |
| Motor power         | 300 W       | 300 W         | 80 W         |
| Thermic protection  | 150°C       | 150°C         | —            |
| Max thrust          | 3800 N      | 3800 N        | 3200 N       |
| IP class protection | 44          | 44            | 44           |
| Revolution speed    | 1400 rpm    | 1700 rpm      | 1600 rpm     |
| Max opening angle   | 26"         | 22"           | 24" - 28"    |
| Max leaf weight     | 450 Kg      | 450 kg        | 400 kg       |
| Max leaf length     | 5 m         | 5 m           | 5 m          |
| Duty cycle          | 40%         | 40%           | 80%          |
| Cycles per hour     | 18          | 18            | 32           |

## DIMENSIONS

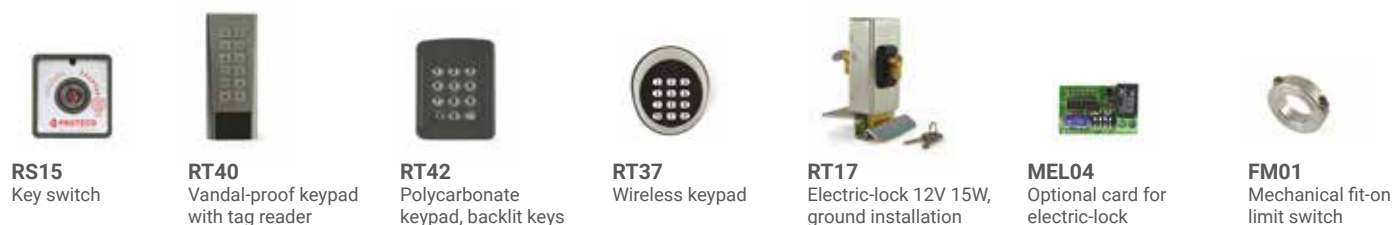


## INSTALLATION MAP



1\_Flashing light 2\_Stand-alone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts

## OPTIONAL ACCESSORIES



# Leader TI

Telescopic swing motor  
for gates up to 3,5 m.

230V - 115V - 24V

Telescopic electromechanical system for residential, apartment block and commercial settings.

Compact slick design, suitable to any installation contest.

Full-metal drive shaft with bronze gear.

The reduced dimensions and undemanding fixing quota make the installation quick and easy.

Emergency release for manual operation protected by numbered key lock.

Multi-position fixing brackets included.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

## THE RANGE

|                | Power supply |        | Leaf  |        |
|----------------|--------------|--------|-------|--------|
| LEADER 3 TI    | 230V-115V    | locked | 2,0 m | 350 Kg |
| LEADER 4 TI    | 230V-115V    | locked | 2,8 m | 350 Kg |
| LEADER 5 TI    | 230V-115V    | locked | 3,5 m | 250 Kg |
| LEADER 3 TI 24 | 24V          | locked | 2,0 m | 275 Kg |
| LEADER 4 TI 24 | 24V          | locked | 2,5 m | 250 Kg |
| LEADER 5 TI 24 | 24V          | locked | 3,0 m | 150 Kg |



## KIT CONTENT

**LEADER TI**  
Set of motors  
including fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna



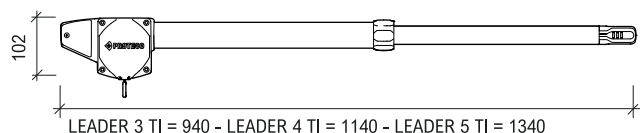
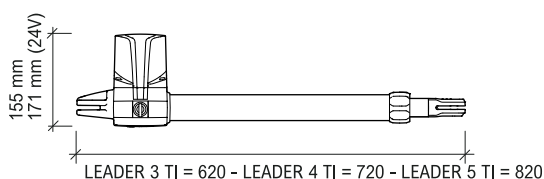
**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz



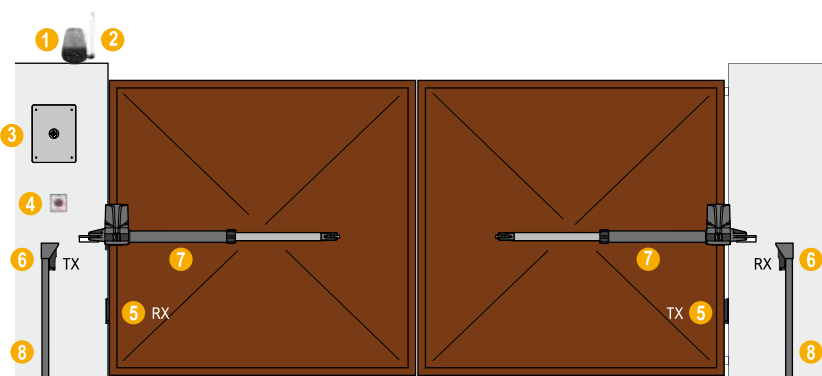
## TECHNICAL FEATURES

|                     | LEADER 3    | LEADER 4    | LEADER 5    | LEADER 3 115 | LEADER 4 115 | LEADER 5 115 | LEADER 3 24 | LEADER 4 24 | LEADER 5 24 |
|---------------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Power supply        | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 115V ~ 60Hz  | 115V ~ 60Hz  | 115V ~ 60Hz  | 24V dc      | 24V dc      | 24V dc      |
| Current             | 1.7A        | 2A          | 1.7A        | 2.3A         | 2.3A         | 2.3A         | 0.75A       | 0.75A       | 0.75A       |
| Motor power         | 280 W       | 280 W       | 280 W       | 300 W        | 300 W        | 300 W        | 50 W        | 50 W        | 50 W        |
| Capacitor           | 8 µF        | 8 µF        | 8 µF        | 30 µF        | 30 µF        | 30 µF        | --          | --          | --          |
| Thermic protection  | 150°C       | 150°C       | 150°C       | 150°C        | 150°C        | 150°C        | --          | --          | --          |
| Max thrust          | 2800 N      | 2800 N      | 2800 N      | 3000 N       | 3000 N       | 3000 N       | 2500 N      | 2500 N      | 2500 N      |
| IP class protection | 44          | 44          | 44          | 44           | 44           | 44           | 44          | 44          | 44          |
| Revolution speed    | 1400 rpm    | 1400 rpm    | 1400 rpm    | 1700 rpm     | 1700 rpm     | 1700 rpm     | 1600 rpm    | 1600 rpm    | 1600 rpm    |
| Max opening angle   | 100°        | 110°        | 110°        | 100°         | 110°         | 110°         | 100°        | 110°        | 110°        |
| 90° opening time    | 17"         | 22"         | 27"         | 14"          | 18"          | 22"          | 13.5"       | 18"         | 22.5"       |
| Max leaf weight     | 350 Kg      | 350 Kg      | 250 Kg      | 300 Kg       | 300 Kg       | 200 Kg       | 275 Kg      | 250 Kg      | 150 Kg      |
| Max leaf length     | 2 m         | 2.8 m       | 3.5 m       | 2 m          | 2.8 m        | 3.5 m        | 2 m         | 2.5 m       | 3 m         |
| Duty cycle          | 40%         | 40%         | 40%         | 40%          | 40%          | 40%          | 80%         | 80%         | 80%         |

## DIMENSIONS



## INSTALLATION MAP



1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate  
keypad, backlit keys



**RT37**  
Wireless keypad



**RT17**  
Electric-lock 12V 15W,  
ground installation



**MEL04**  
Optional card for  
electric-lock



**FM01**  
Mechanical fit-on  
limit switch



# Leader TA

## Electromechanical swing motor for gates up to 2,8 m

230V - 115V - 24V

Electromechanical swing system for residential, apartment block and commercial settings.

Compact slick design, suitable to any installation contest.

Full-metal drive shaft with bronze gear.

The reduced dimensions and undemanding fixing quota make the installation quick and easy.

Available in the version with integrated adjustable closing limit switch.

Emergency release for manual operation protected by numbered key lock.

Multi-position fixing brackets included.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

### THE RANGE

|                   | Power supply |        | Leaf  |        |
|-------------------|--------------|--------|-------|--------|
| Leader 4 TA       | 230V/115V    | locked | 2,8 m | 350 Kg |
| Leader 4 TA FM    | 230V/115V    | locked | 2,8 m | 350 Kg |
| Leader 4 TA 24    | 24V          | locked | 2,5 m | 200 Kg |
| Leader 4 TA 24 FM | 24V          | locked | 2,5 m | 200 Kg |



### KIT CONTENT

**LEADER TA**  
Set of motors  
including fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

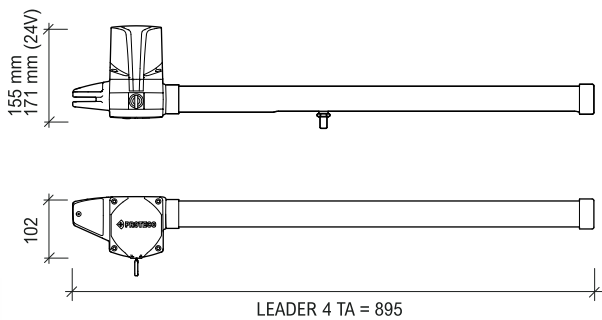


**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz

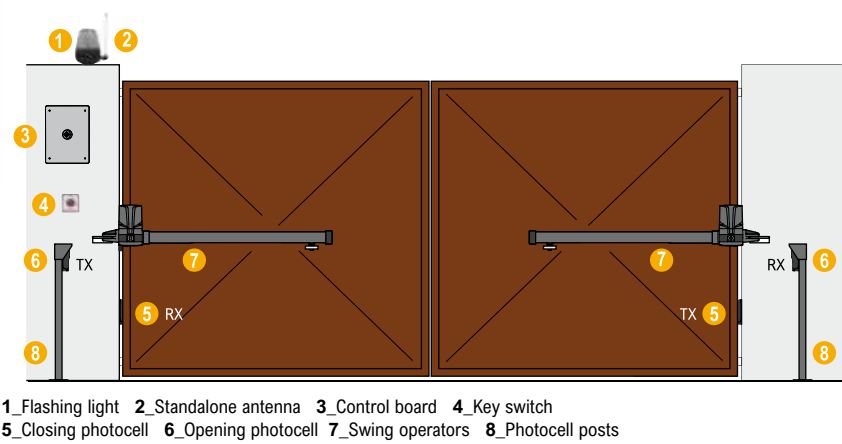
TECHNICAL FEATURES

|                     | LEADER 4 TA | LEADER 4 TA 115V | LEADER 4 TA 24V |
|---------------------|-------------|------------------|-----------------|
| Power supply        | 230V ~ 50Hz | 115V ~ 60Hz      | 24V dc          |
| Current             | 1.7A        | 2.3A             | 0.75A           |
| Motor power         | 280 W       | 300 W            | 50 W            |
| Capacitor           | 8 µF        | 30 µF            | --              |
| Thermic protection  | 150°C       | 150°C            | --              |
| Max thrust          | 2800 N      | 3000 N           | 2500 N          |
| IP class protection | 44          | 44               | 44              |
| Revolution speed    | 1400 rpm    | 1700 rpm         | 1600 rpm        |
| Max opening angle   | 100°        | 100°             | 100°            |
| 90° opening time    | 22"         | 18"              | 18"             |
| Max leaf weight     | 350 Kg      | 200 Kg           | 200 Kg          |
| Max leaf length     | 2.8 m       | 2.8 m            | 2.5 m           |
| Duty cycle          | 40%         | 40%              | 80%             |

DIMENSIONS




INSTALLATION MAP




1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts


OPTIONAL ACCESSORIES




**RS15**  
Key switch




**RT40**  
Vandal-proof keypad with tag reader




**RT42**  
Polycarbonate keypad, backlit keys



**RT37**  
Wireless keypad



**RT17**  
Electric-lock 12V 15W, ground installation



**MEL04**  
Optional card for electric-lock

# Aster

Telescopic swing motor  
for gates up to 4 m.

230V - 115V - 24V

Telescopic electromechanical system for residential, apartment block and commercial settings.

Full-metal drive shaft with bronze gear.

Wide choice of models, to fit leaves particularly long.

The reduced dimensions and restrained fixing quota make the installation quick and easy.

Upper emergency release for quick and practical manual operation.

Multi-position fixing brackets included.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

## THE RANGE

|                 | Power supply |            | Leaf  |        |
|-----------------|--------------|------------|-------|--------|
| ASTER 3         | 230V/115V    | locked     | 2,0 m | 350 Kg |
| ASTER 4         | 230V/115V    | locked     | 2,8 m | 350 Kg |
| ASTER 5         | 230V/115V    | locked     | 3,5 m | 250 Kg |
| ASTER 6         | 230V/115V    | locked     | 4,0 m | 250 Kg |
| ASTER 3 24      | 24V          | locked     | 2,0 m | 275 Kg |
| ASTER 4 24      | 24V          | locked     | 2,5 m | 250 Kg |
| ASTER 5 24      | 24V          | locked     | 3,0 m | 150 Kg |
| ASTER 3 900 rpm | 230V         | locked     | 2,0 m | 300 Kg |
| ASTER 4 900 rpm | 230V         | locked     | 2,8 m | 300 Kg |
| ASTER 3 rev     | 230V         | reversible | 2,0 m | 300 Kg |
| ASTER 4 rev     | 230V         | reversible | 2,8 m | 300 Kg |



## KIT CONTENT

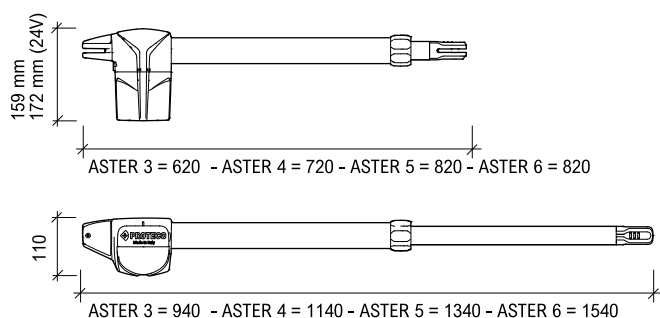




## TECHNICAL FEATURES

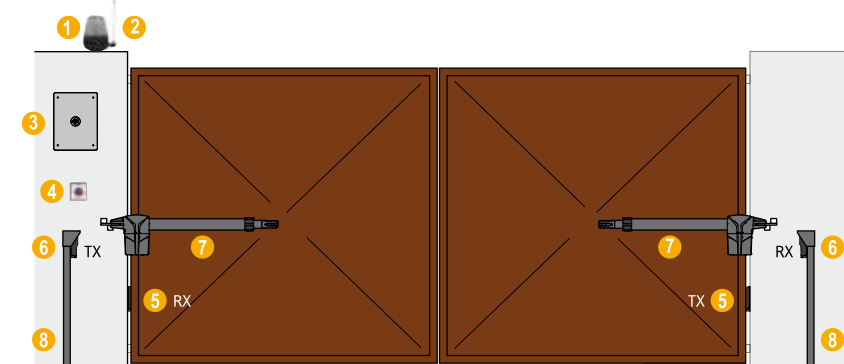
|                     | ASTER 3     | ASTER 4     | ASTER 5     | ASTER 6     | ASTER 3 115 | ASTER 4 115 | ASTER 5 115 | ASTER 3 24  | ASTER 4 24  | ASTER 5 24  |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Power supply        | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 115V ~ 60Hz | 115V ~ 60Hz | 115V ~ 60Hz | 24V dc      | 24V dc      | 24V dc      |
| Current             | 1.7A        | 2A          | 1.7A        | 1.7A        | 2.3A        | 2.3A        | 2.3A        | 0.75A       | 0.75A       | 0.75A       |
| Motor power         | 280 W       | 280 W       | 280 W       | 280 W       | 300 W       | 300 W       | 300 W       | 50 W        | 50 W        | 50 W        |
| Capacitor           | 8 µF        | 8 µF        | 8 µF        | 8 µF        | 30 µF       | 30 µF       | 30 µF       | -           | -           | -           |
| Thermic protection  | 150°C       | 150°C       | 150°C       | 150°C       | 150°C       | 150°C       | 150°C       | -           | -           | -           |
| Max thrust          | 2800 N      | 2800 N      | 2800 N      | 2800 N      | 3000 N      | 3000 N      | 3000 N      | 2500 N      | 2500 N      | 2500 N      |
| IP class protection | 44          | 44          | 44          | 44          | 44          | 44          | 44          | 44          | 44          | 44          |
| Revolution speed    | 1400 rpm    | 1400 rpm    | 1400 rpm    | 1400 rpm    | 1700 rpm    | 1700 rpm    | 1700 rpm    | 1600 rpm    | 1600 rpm    | 1600 rpm    |
| Max opening angle   | 100°        | 110°        | 110°        | 120°        | 100°        | 110°        | 110°        | 100°        | 110°        | 110°        |
| 90° opening time    | 17"         | 22"         | 27"         | 32"         | 14"         | 18"         | 22"         | 13.5"       | 18"         | 22.5"       |
| Max leaf weight     | 350 Kg      | 350 Kg      | 250 Kg      | 250 Kg      | 300 Kg      | 300 Kg      | 200 Kg      | 275 Kg      | 250 Kg      | 150 Kg      |
| Max leaf length     | 2 m         | 2.8 m       | 3.5 m       | 4 m         | 2 m         | 2.8 m       | 3.5 m       | 2 m         | 2.5 m       | 3 m         |
| Duty cycle          | 40%         | 40%         | 40%         | 40%         | 40%         | 40%         | 40%         | 80%         | 80%         | 80%         |
| Noise               | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A |

## DIMENSIONS



|                     | REVERSIBLE  |             | 900 RPM     |             |
|---------------------|-------------|-------------|-------------|-------------|
|                     | ASTER 3     | ASTER 4     | ASTER 3     | ASTER 4     |
| Power supply        | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz |
| Current             | 1.2 - 1.7A  | 1.2 - 1.7A  | 1.2 - 1.7A  | 1.2 - 1.7A  |
| Motor power         | 250 W       | 250 W       | 250 W       | 250 W       |
| Capacitor           | 8 µF        | 8 µF        | 8 µF        | 8 µF        |
| Thermic protection  | 150°C       | 135°C       | 135°C       | 135°C       |
| Max thrust          | 2500 N      | 2500 N      | 2500 N      | 2500 N      |
| IP class protection | 44          | 44          | 44          | 44          |
| Revolution speed    | 900 rpm     | 900 rpm     | 900 rpm     | 900 rpm     |
| Max opening angle   | 100°        | 110°        | 110°        | 110°        |
| 90° opening time    | 18"         | 24"         | 25"         | 35"         |
| Max leaf weight     | 300 Kg      | 300 Kg      | 300 Kg      | 300 Kg      |
| Max leaf length     | 2 m         | 2.80 m      | 2 m         | 2.80 m      |
| Duty cycle          | 40%         | 40%         | 40%         | 40%         |
| Noise               | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A | LpA≤70 dB A |

## INSTALLATION MAP



1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts

## OPTIONAL ACCESSORIES



# Advantage

Articulated-arm swing motor  
for gates up to 2 m.

230V - 24V

Electromechanical worm gear motor for residential and apartment block settings.

Particularly suitable for over-sized pillars.

Strong anti-shear articulated arm, available in two different lengths.

Electric built-in limit switches grant smooth and silent operation, even on light-weight gates.

Front release system for manual operation.

Sturdy pillar fixing plate included.

Embedded control unit for the 230V models.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

## THE RANGE

|              | Power supply |        | Leaf  |        |
|--------------|--------------|--------|-------|--------|
| ADVANTAGE    | 230V         | locked | 2,0 m | 250 Kg |
| ADVANTAGE 24 | 24V          | locked | 2,0 m | 200 Kg |



## KIT CONTENT

### ADVANTAGE

Set of motors, embedded control board, integrated radio receiver 433.92 MHz and fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls

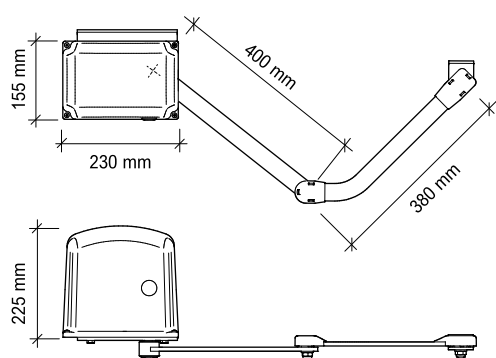


**ANT02**  
Stand-alone antenna

## TECHNICAL FEATURES

|                         | ADVANTAGE   | ADVANTAGE 24 |
|-------------------------|-------------|--------------|
| Power supply            | 230V ~ 50Hz | 24V dc       |
| Current                 | 1.2 - 1.7A  | 0.5 - 0.75A  |
| Motor power             | 300 W       | 50 W         |
| Capacitor               | 10 µF       | —            |
| Thermic protection      | 150°C       | —            |
| Max thrust              | 280 Nm      | 200 Nm       |
| IP class protection     | 44          | 44           |
| Revolution speed        | 1400 rpm    | 1600 rpm     |
| Max opening angle       | 130°        | 130°         |
| 90° opening time        | 18"         | 14"          |
| Max leaf maximum weight | 250 Kg      | 200 Kg       |
| Max leaf maximum length | 2 m         | 2 m          |
| Duty cycle              | 40%         | 80%          |

## DIMENSIONS



## INSTALLATION MAP



1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys



**RT37**  
Wireless keypad



**RT17**  
Electric-lock 12V 15W,  
ground installation

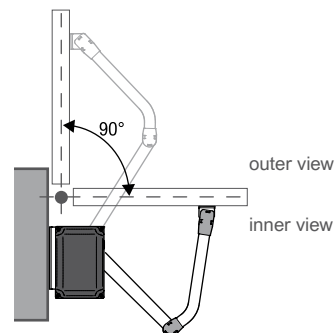


**MEL04**  
Optional card module  
interface for electric-lock

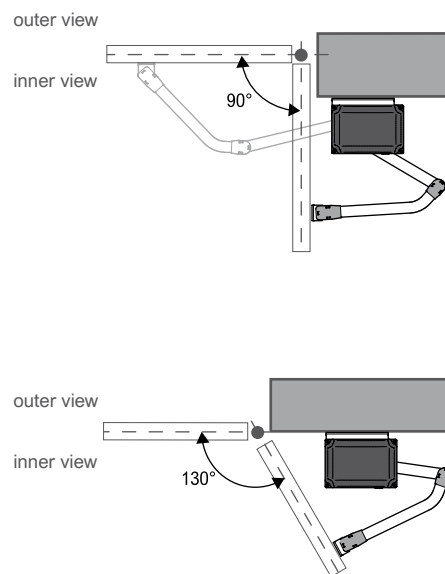


## MOTOR POSITION

Outwards opening gate



Inwards opening gate



# Shark

Underground swing motor  
for gates up to 3 m.

230V - 24V

Electromechanical locked system for residential, apartment block and commercial settings.

Invisible and elegant solution, it preserves the aesthetic and design of your gate.

High degree of protection against weathering, watertight motor completely in aluminum.

Built-in adjustable opening and closing leaf stops.

Foundation box cataphoresis treated or inox.

The round sphere-transmission gate support, grants smooth cruise and preserves the automation performances over time.

Emergency release for manual operation protected by numbered key lock.

Standard opening angle up to 110°, it may open further up to 180° using the optional chain adaptor.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).

## THE RANGE

|          | Power supply |        | Leaf  |        |
|----------|--------------|--------|-------|--------|
| SHARK    | 230V         | locked | 3,0 m | 350 Kg |
| SHARK 24 | 24V          | locked | 2,5 m | 200 Kg |



## KIT CONTENT

### SHARK

Set of motors complete including  
foundation box A001  
(cataphoresis treatment)



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

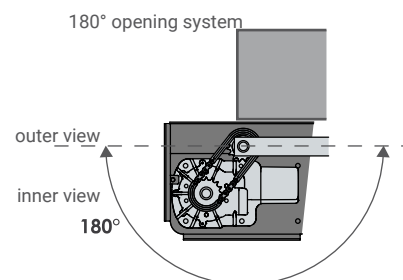
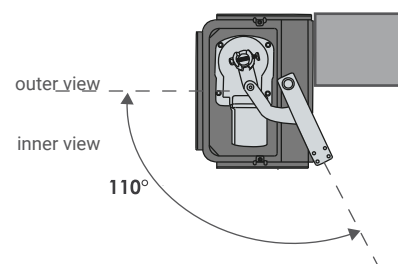
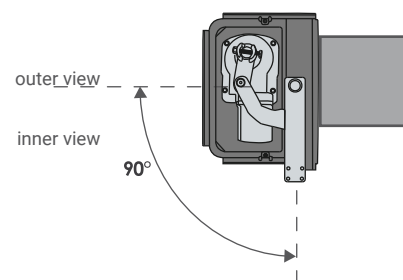


**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz

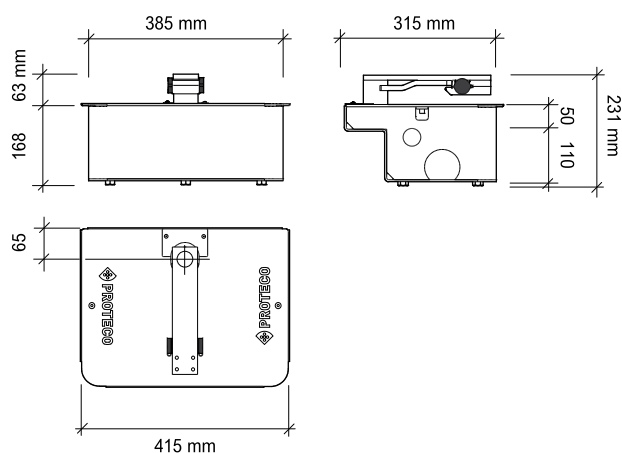
## TECHNICAL FEATURES

|                        | SHARK       | SHARK 24    |
|------------------------|-------------|-------------|
| Power supply           | 230V ~ 50Hz | 24V dc      |
| Current                | 1.2 - 2A    | 0.5 - 0.75A |
| Motor power            | 300 W       | 50 W        |
| Capacitor              | 10 µF       | —           |
| Thermic protection     | 150°C       | —           |
| Max thrust             | 350 Nm      | 230 Nm      |
| IP protection class    | 66          | 66          |
| Revolution speed       | 1400 rpm    | 1600 rpm    |
| Max opening angle      | 110°        | 110°        |
| 90° angle opening time | 17"         | 16"         |
| Max leaf weight        | 350Kg       | 200 Kg      |
| Max leaf length        | 3 m         | 2,5 m       |
| Duty cycle             | 50%         | 90%         |

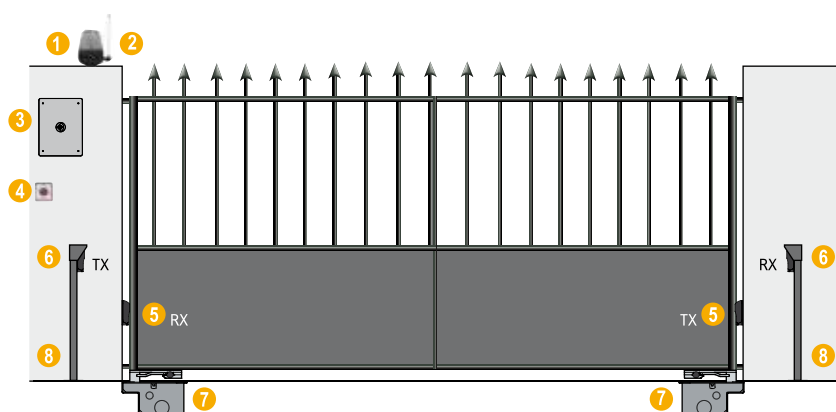
## MOTOR POSITION



## DIMENSIONS



## INSTALLATION MAP



- 1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys



**RT37**  
Wireless keypad



**A002**  
Stainless steel underground  
chamber



**A008**  
180° opening adapter



# Wheeler

## Wheel-driven motor for swing gates.

230V - 115V - 24V

Electromechanical system for residential areas.

Unlimited opening angle.

Quick and easy installation no matters what the pillar dimensions are.

Suitable for long leaf and light gates, inward or outward opening.

Suitable for compact flat surface entry ways.

Opens onto a sloping driveway up to 12° and 20cm in height difference.

On board release system for manual operation.

The 24V range can operate in emergency mode during power outages by back-up batteries (optional).



### THE RANGE

|            | Power supply |            | Leaf   |
|------------|--------------|------------|--------|
| WHEELER R  | 230V         | reversible | 150 Kg |
| WHEELER B  | 230V-115V    | locked     | 150 Kg |
| WHEELER 24 | 24V          | locked     | 150 Kg |

### KIT CONTENT

#### WHEELER

Set of motors



**LUCE**  
LED 24V  
flashing light



**ANT02**  
Stand-alone antenna



**RT17**  
Electric-lock  
12V 15W,  
ground installation



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**MEL04**  
Optional card module  
interface for electric-lock



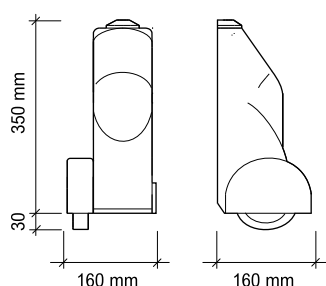
**Q80A/Q20A**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz



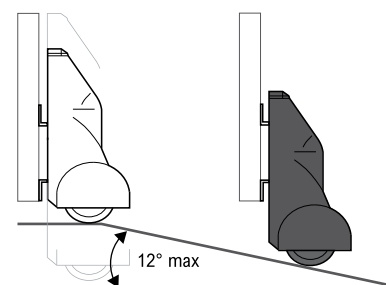
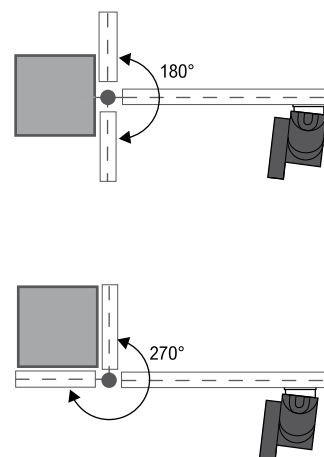
## TECHNICAL FEATURES

|                     | WHEELER B   | WHEELER R   | WHEELER B 115 | WHEELER 24  |
|---------------------|-------------|-------------|---------------|-------------|
| Power supply        | 230V ~ 50Hz | 230V ~ 50Hz | 115V ~ 60Hz   | 24V dc      |
| Current             | 1.2 - 1.7A  | 1.2 - 1.7A  | 2.0 - 2.3A    | 0.5 - 0.75A |
| Motor power         | 280 W       | 250 W       | 300 W         | 50 W        |
| Capacitor           | 8 µF        | 8 µF        | 30 µF         | —           |
| Thermic protection  | 150°C       | 150°C       | 150°C         | —           |
| Max thrust          | 11 Nm       | 10 Nm       | 11 Nm         | 8 Nm        |
| IP class protection | 44          | 44          | 44            | 44          |
| Revolution speed    | 1400 rpm    | 900 rpm     | 1700 rpm      | 1600 rpm    |
| Max opening angle   | NO LIMIT    | NO LIMIT    | NO LIMIT      | NO LIMIT    |
| Opening speed       | 20 m/min    | 20 m/min    | 20 m/min      | 24 m/min    |
| Max leaf weight     | 150 Kg      | 150 Kg      | 150 Kg        | 150 Kg      |
| Duty cycle          | 30%         | 30%         | 30%           | 80%         |
| Max rise/fall       | 200 mm      | 200 mm      | 200 mm        | 200 mm      |
| Max inclination     | 12°         | 12°         | 12°           | 12°         |

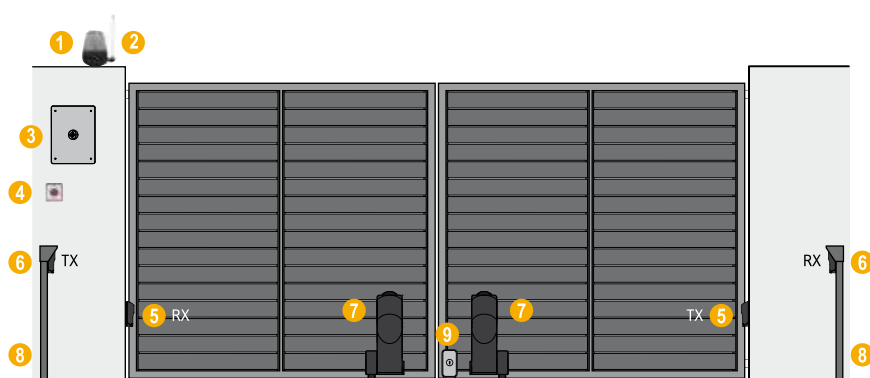
## DIMENSIONS



## MOTOR POSITION



## INSTALLATION MAP



- 1\_Flashing light 2\_Standalone antenna 3\_Control board 4\_Key switch  
5\_Closing photocell 6\_Opening photocell 7\_Swing operators 8\_Photocell posts 9\_Ground electric lock

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys

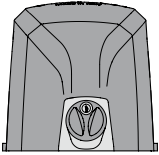


**RT37**  
Wireless keypad



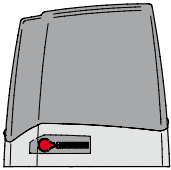


# SLIDING gates Selection guide



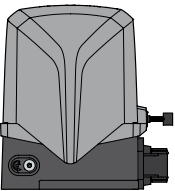
|30 - 31|

|      |                    |            |          |
|------|--------------------|------------|----------|
| Mike | 400 Kg — 24V ————— | mechanical | Mike     |
|      | 400 Kg — 24V ————— | magnetic   | Mike MAG |



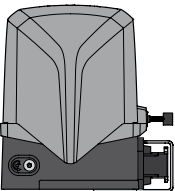
|32 - 33|

|      |                           |            |        |
|------|---------------------------|------------|--------|
| Meko | 500 Kg — 230V, 115V ————— | mechanical | Meko 5 |
|      | 600 Kg — 24V —————        | mechanical | Meko 6 |
|      | 800 Kg — 230V, 115V ————— | mechanical | Meko 8 |



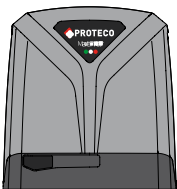
|34 - 35|

|       |                            |            |              |
|-------|----------------------------|------------|--------------|
| Mover | 500 Kg — 230V, 115V —————  | mechanical | Mover 5      |
|       |                            | magnetical | Mover MAG 5  |
|       | 650 Kg — 24V —————         | mechanical | Mover 6      |
|       | 800 Kg — 230V, 115V —————  | mechanical | Mover 8      |
|       |                            | magnetical | Mover MAG 8  |
|       | 1500 Kg — 230V, 115V ————— | mechanical | Mover 15     |
|       |                            | magnetical | Mover MAG 15 |



|36 - 37|

|     |                           |            |       |
|-----|---------------------------|------------|-------|
| Cat | 500 Kg — 230V, 115V ————— | mechanical | Cat 5 |
|     | 800 Kg — 230V, 115V ————— | mechanical | Cat 8 |



|38 - 39|

## BRUSHLESS (R)EVOLUTION

|        |                      |                           |             |
|--------|----------------------|---------------------------|-------------|
| Matrix | 2500 Kg — 230V ————— | semi-intensive            | Matrix 25   |
|        | 1800 Kg — 230V ————— | semi-intensive            | Matrix 18   |
|        | 2500 Kg — 48V —————  | intensive ————— Brushless | Matrix BLDC |
|        | 1800 Kg — 48V —————  | hi-speed ————— Brushless  | Matrix HS   |

## RACK



**B102**  
Galvanized metal rack  
M4 12x30x1000 mm



**B114**  
Nylon coated rack  
inner metal core - M4  
20X26 mm - 1x1 m bars



**B120**  
Nylon coated rack  
inner metal core - M4  
20X26 mm - 2x0,5 m bars

## CHAIN



**C102**  
3/8 inches chain for CAT - min 5m  
and multiples



# Mike

Rack-driven motor 24V for sliding gates up to 400Kg.

24V

Rack-driven gear motor for high-frequency use sliding gates designed for residential and apartment block settings.

Raised anchor plate including fixing screws ensures maximum versatility for height and horizontal adjustments.

Easy and robust release protected by a key lock.

Electronic control unit with integrated radio receiver, on-board programming display featuring obstacle detection and anti-crushing function, protected by a transparent box that allows easy-opening.

Programmable inputs for resistive safety edges (8k2Ω).

The back-up battery kit available as optional grants continuous operation during power shortages.

The battery charging circuit is integrated into the control unit.

MIKE is available with mechanical or magnetic limit switches to face any climate or installation condition.



## THE RANGE

|          | Power supply |      | Limit switch | Leaf   |
|----------|--------------|------|--------------|--------|
| MIKE     | 24V          | rack | mechanical   | 400 Kg |
| MIKE MAG | 24V          | rack | magnetic     | 400 Kg |

## KIT CONTENT

**MIKE**  
Gear motor, embedded control board, integrated radio receiver 433.92 MHz and fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

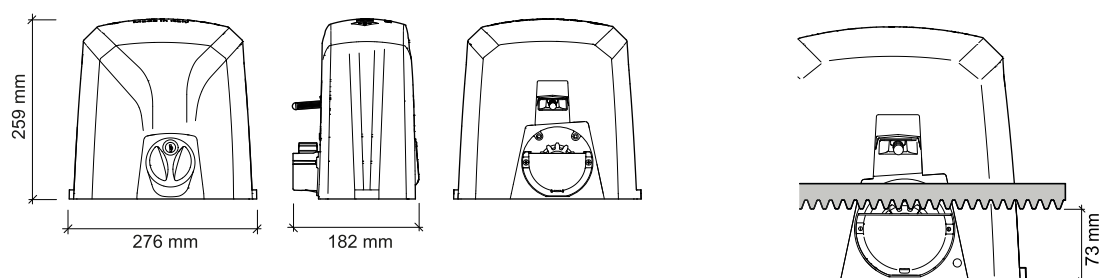


**B120**  
4 m PVC rack

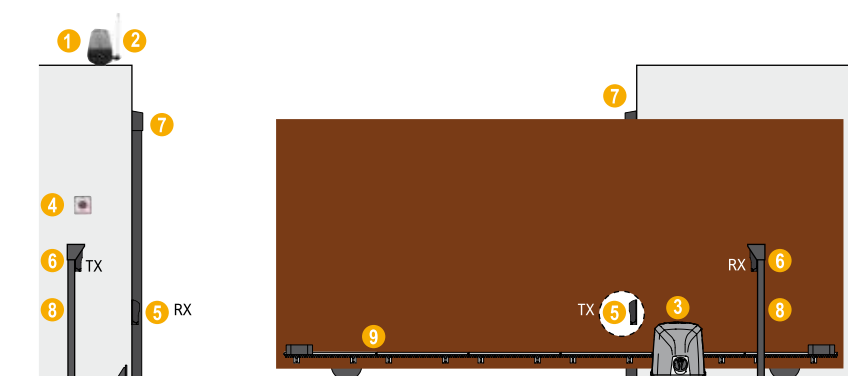
## TECHNICAL FEATURES

|                   | MIKE           |
|-------------------|----------------|
| Power supply      | 24V dc         |
| Absorption        | 1.2 ÷ 7A       |
| Rated power       | 70 W           |
| Maximum thrust    | 420 N          |
| IP protection     | 44             |
| Max revolutions   | 2800 rpm       |
| Opening speed     | 8 ÷ 10,5 m/min |
| Gate max. weight  | 400 Kg         |
| Working frequency | 50%            |

## DIMENSIONS



## INSTALLATION MAP



- 1\_Flashing light 2\_Stand-alone antenna 3\_Gear motor complete with control board and radio receiver  
4\_Key switch 5\_Closing photocell 6\_Opening photocell 7\_Safety strip 8\_Photocell posts 9\_Rack

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys



**RT37**  
Wireless keypad



**CM24 - CM25**  
Certified resistive  
safety edge



**Q BAT 1.2**Battery  
12V 1.2Ah



**KBT001**  
Wiring kit for  
24V batteries



**B102**  
Galvanized metal rack  
12x30x1000 mm



**B114**  
Nylon coated rack  
inner metal core - M4  
20X26 mm



# Meko

## Rack-driven motor for sliding gates up to 800 kg.

230V - 115V - 24V

Slim elegant design, silent movement, long-lasting performance.  
Die-cast aluminium base, noble metal gears, bronze transmission shaft.  
Reinforced key-lock release system, protected by an encrypted key.  
Adjustable ground plate (horizontally and vertically) included.

Embedded control board featuring obstacle detection and plug-in radio receiver.  
Safety devices self-diagnosis.  
Possibility of connecting resistive safety sensitive edges (8k2Ω).

Ideal solution for residential, industrial and apartment block settings.  
The 24V range can operate in emergency mode during power outages by back-up batteries.



### THE RANGE

|        | Power supply |      | Limit switch | Leaf   |
|--------|--------------|------|--------------|--------|
| MEKO 5 | 230V-115V    | rack | mechanical   | 500 Kg |
| MEKO 6 | 24V          | rack | mechanical   | 600 Kg |
| MEKO 8 | 230V-115V    | rack | mechanical   | 800 Kg |

### KIT CONTENT

**MEKO**  
Gear motor, embedded control board, integrated radio receiver 433.92 MHz and fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

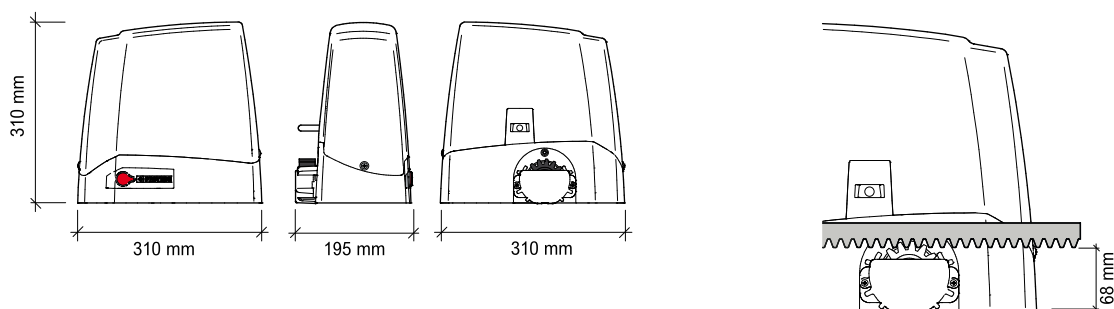


**B120**  
4 m PVC rack

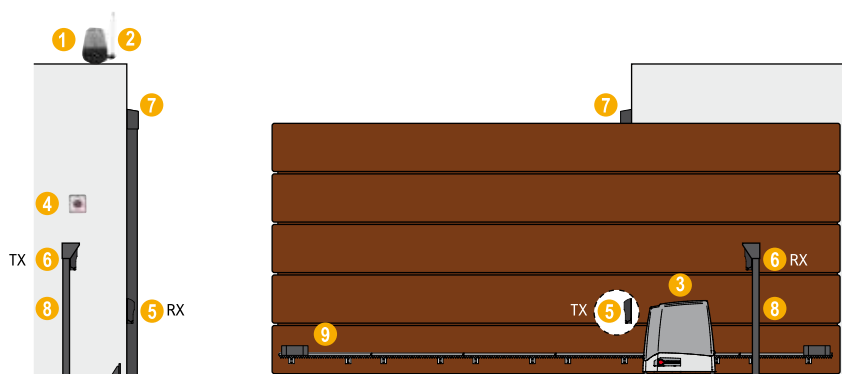
## TECHNICAL FEATURES

|                     | MEKO 5      | MEKO 6       | MEKO 8      | MEKO 5 115  | MEKO 8 115  |
|---------------------|-------------|--------------|-------------|-------------|-------------|
| Power supply        | 230V ~ 50Hz | 24V dc       | 230V ~ 50Hz | 115V ~ 60Hz | 115V ~ 60Hz |
| Current             | 1.2 - 1.7A  | 0.7 - 10A    | 1.2 - 2A    | 2.0 - 2.3A  | 2.8 - 3.2A  |
| Motor power         | 250 W       | 80 W         | 300 W       | 280 W       | 330 W       |
| Capacitor           | 10 µF       | -            | 10 µF       | 30 µF       | 30 µF       |
| Thermic protection  | 150°C       | -            | 150°C       | 150°C       | 150°C       |
| Max thrust          | 350 N       | 400 N        | 440 N       | 380N        | 460 N       |
| IP class protection | 44          | 44           | 44          | 44          | 44          |
| Revolution speed    | 1400 rpm    | 1600 rpm     | 1400 rpm    | 1700 rpm    | 1700 rpm    |
| Opening speed       | 10,5 m/min  | 6 - 11 m/min | 10,5 m/min  | 12 m/min    | 12 m/min    |
| Max gate weight     | 500 Kg      | 600 Kg       | 800 Kg      | 500 Kg      | 800 Kg      |
| Duty cycle          | 40%         | 80%          | 40%         | 40%         | 40%         |

## DIMENSIONS



## INSTALLATION MAP



- 1\_Flashing light 2\_Stand-alone antenna 3\_Gear motor complete with control board and radio receiver  
4\_Key switch 5\_Closing photocell 6\_Opening photocell 7\_Safety strip 8\_Photocell posts 9\_Rack

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys



**RT37**  
Wireless keypad



**CM24 - CM25**  
Certified resistive  
safety edge



**Q BAT 1.2**Battery  
12V 1.2Ah



**KBT001**  
Wiring kit for  
24V batteries



**MSU14**  
Battery fixing plate



**B102**  
Galvanized metal rack  
12x30x1000 mm



**B114**  
Nylon coated rack  
inner metal core - M4  
20X26 mm

# Mover

Rack-driven motor for sliding gates  
up to 1500 kg.

230V - 115V - 24V

Ideal solution for residential and apartment block settings.  
Slick design, the position of the pinion on the short side of the gearmotor makes it particularly suitable for reduced space installations.  
Sturdy aluminum base with external regulation for quick and optimal installation.

Noble metal gears, bronze transmission shaft.

User-friendly and weatherproof release system for easy manual operation.

Ground plate included.

Designed to fit both mechanical and magnetic limit switches.

Embedded control board featuring obstacle detection and plug-in radio receiver. Safety devices self-diagnosis.

Possibility of connecting resistive safety sensitive edges (8k2Q).

Available in 24V for gates up to 650Kg for residential settings.



## THE RANGE

|              | Power supply |      | Limit switch | Leaf    |
|--------------|--------------|------|--------------|---------|
| MOVER 5      | 230V-115V    | rack | mechanical   | 500 Kg  |
| MOVER 6      | 24V          | rack | mechanical   | 650 Kg  |
| MOVER 8      | 230V-115V    | rack | mechanical   | 800 Kg  |
| MOVER 15     | 230V-115V    | rack | mechanical   | 1500 Kg |
| MOVER MAG 5  | 230V-115V    | rack | magnetic     | 500 Kg  |
| MOVER MAG 8  | 230V-115V    | rack | magnetic     | 800 Kg  |
| MOVER MAG 15 | 230V-115V    | rack | magnetic     | 1500 Kg |

## KIT CONTENT

### MOVER

Gear motor, embedded control board, integrated radio receiver 433.92 MHz and fittings (for 24V systems control unit comes separately)



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna

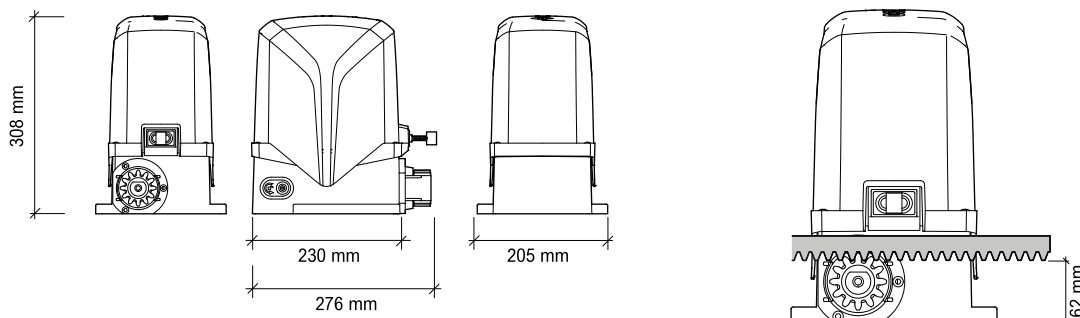


**B120**  
4 m PVC rack

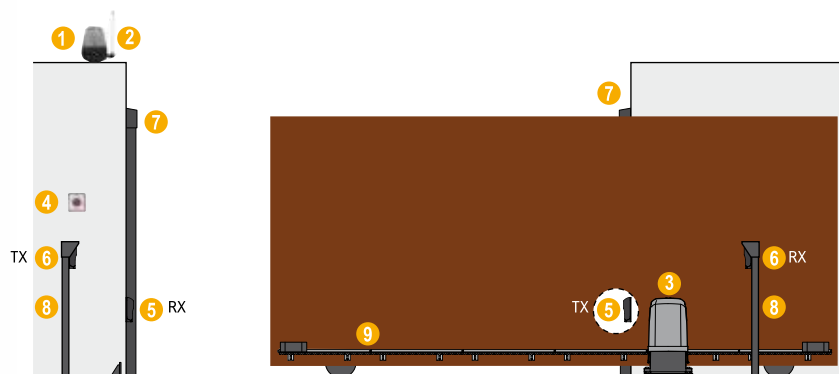
## TECHNICAL FEATURES

|                     | MOVER 5     | MOVER 6     | MOVER 8     | MOVER 15    | MOVER 5 115 | MOVER 8 115 | MOVER 15 115 |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Power supply        | 230V ~ 50Hz | 24V dc      | 230V ~ 50Hz | 230V ~ 50Hz | 115V ~ 60Hz | 115V ~ 60Hz | 115V ~ 60Hz  |
| Current             | 1.2 - 1.7A  | 0.7 - 10A   | 1.2 - 2A    | 3A          | 2.0 - 2.3A  | 2.8 - 3.2A  | 6.4 - 6.6A   |
| Motor power         | 250 W       | 80 W        | 300 W       | 600 W       | 280 W       | 330 W       | 600 W        |
| Capacitor           | 8 µF        | -           | 10 µF       | 20 µF       | 30 µF       | 30 µF       | 60 µF        |
| Thermic protection  | 150°C       | -           | 150°C       | 150°C       | 150°C       | 150°C       | 150°C        |
| Max thrust          | 350 N       | 500 N       | 440 N       | 1000 N      | 380 N       | 460 N       | 1000 N       |
| IP class protection | 44          | 44          | 44          | 44          | 44          | 44          | 44           |
| Revolution speed    | 1400 rpm    | 1600 rpm    | 1400 rpm    | 1400 rpm    | 1700 rpm    | 1700 rpm    | 1700 rpm     |
| Opening speed       | 8.5 m/min   | 5 - 9 m/min | 8.5 m/min   | 8.5 m/min   | 10 m/min    | 10 m/min    | 10 m/min     |
| Max gate weight     | 500 Kg      | 650 Kg      | 800 Kg      | 1500 Kg     | 500 Kg      | 800 Kg      | 1500 Kg      |
| Duty cycle          | 40%         | 80%         | 40%         | 40%         | 40%         | 40%         | 40%          |

## DIMENSIONS



## INSTALLATION MAP



- 1\_Flashing light 2\_Stand-alone antenna 3\_Gear motor complete with control board and radio receiver  
4\_Key switch 5\_Closing photocell 6\_Opening photocell 7\_Safety strip 8\_Photocell posts 9\_Rack

## OPTIONAL ACCESSORIES



# Cat

Chain-driven motor for sliding gates  
up to 800 kg.

230V - 115V

Ideal solution for residential and apartment block settings.  
A good solution for existing gates where mechanical conditions restrict the use of traditional rack-driven gear motors.  
Particularly suitable for reduced space installations.  
Noble metal gears, bronze transmission shaft.  
User-friendly release system.  
Complete with chain tightener and cogwheel protection plate.  
Ground plate included.  
Embedded control board with display and plug-in radio receiver.



## THE RANGE

|       | Power supply |       | Limit switch | Leaf   |
|-------|--------------|-------|--------------|--------|
| CAT 5 | 230V-115V    | chain | mechanical   | 500 Kg |
| CAT 8 | 230V-115V    | chain | mechanical   | 800 Kg |

## KIT CONTENT

**CAT**  
Gear motor, embedded control board, integrated radio receiver 433.92 MHz and fittings



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell



**IKON**  
Set of 4-ch  
remote controls



**ANT02**  
Stand-alone antenna



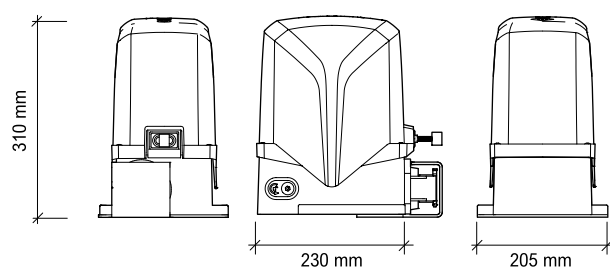
**C102**  
3/8" chain - 5 m



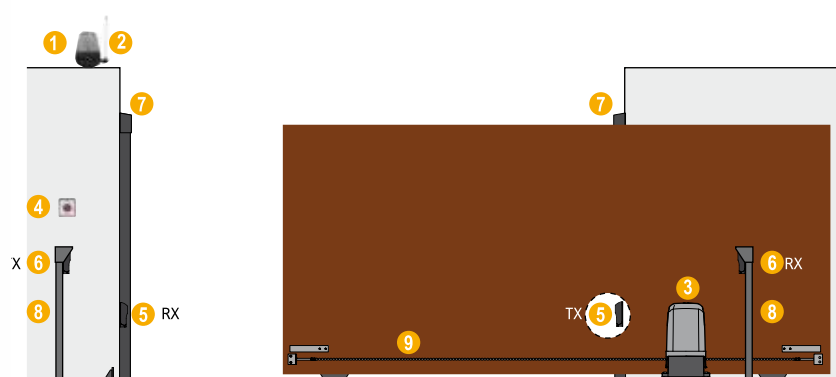
## TECHNICAL FEATURES

|                     | CAT 5       | CAT 8       | CAT 5 115   | CAT 8 115   |
|---------------------|-------------|-------------|-------------|-------------|
| Power supply        | 230V ~ 50Hz | 230V ~ 50Hz | 115V ~ 60Hz | 115V ~ 60Hz |
| Current             | 1.2 - 1.7A  | 1.2 - 2A    | 2.0 - 2.3A  | 2.8 - 3.2A  |
| Motor power         | 250 W       | 300 W       | 280 W       | 330 W       |
| Capacitor           | 8 µF        | 10 µF       | 30 µF       | 30 µF       |
| Thermic protection  | 150°C       | 150°C       | 150°C       | 150°C       |
| Max thrust          | 350 N       | 440 N       | 380 N       | 460 N       |
| IP class protection | 44          | 44          | 44          | 44          |
| Revolution speed    | 1400 rpm    | 1400 rpm    | 1700 rpm    | 1700 rpm    |
| Opening speed       | 8.5 m/min   | 8.5 m/min   | 10 m/min    | 10 m/min    |
| Max gate weight     | 500 Kg      | 800 Kg      | 500 Kg      | 800 Kg      |
| Duty cycle          | 40%         | 40%         | 40%         | 40%         |

## DIMENSIONS



## INSTALLATION MAP



- 1\_Flashing light 2\_Stand-alone antenna 3\_Gear motor complete with control board and radio receiver  
4\_Key switch 5\_Closing photocell 6\_Opening photocell 7\_Safety strip 8\_Photocell posts 9\_Chain

## OPTIONAL ACCESSORIES



**RS15**  
Key switch



**RT40**  
Vandal-proof keypad  
with tag reader



**RT42**  
Polycarbonate keypad,  
backlit keys



**RT37**  
Wireless keypad



**CM24 - CM25**  
Certified resistive  
safety edge

# Matrix

Rack-driven motor  
for heavy-duty industrial  
sliding gates up to 2500 kg.

230V - 48V

Ideal solution for gates for intensive and semi-intensive use in apartment settings up to 1,800 kg and industrial gates up to 2,500 kg.  
Double start capacitor for extra-power during slowdown for maximum reliability and precision in opening and closing.  
Gearmotor with **brushless technology** for gates with intensive use up to 2,500 Kg and high-speed version for gates up to 1,800 Kg.  
Smooth and precise movement in any installation context.  
Designed to fit both mechanical and magnetic limit switches.  
Ground plate and fixing bolts included.

Embedded control board with integrated receiver fitted on the upper side of the motor for easy programming.  
Maximum safety and reliability granted by obstacle detection via encoder and memo-adaptive technology to overcome different weather conditions and friction changes.  
Electronic inertia control.  
Twinning function to synchronize two mirror sliding gates.



## THE RANGE

|             | Motor         | Limit switch        | Use            | Leaf    |
|-------------|---------------|---------------------|----------------|---------|
| MATRIX 25   | 230V          | mechanical/magnetic | semi-intensive | 2500 Kg |
| MATRIX 18   | 230V          | mechanical/magnetic | semi-intensive | 1800 Kg |
| MATRIX BLDC | 48V Brushless | mechanical/magnetic | intensive      | 2500 Kg |
| MATRIX HS   | 48V Brushless | mechanical/magnetic | hi-speed       | 1800 Kg |

## CONTENT



**MATRIX**  
Gear motor



**PPIS0690**  
Ground plate and fittings

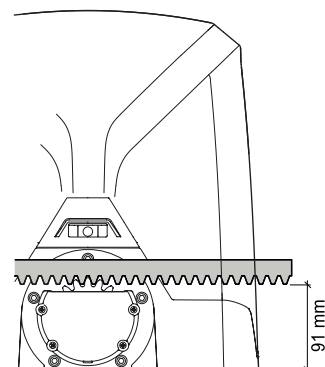
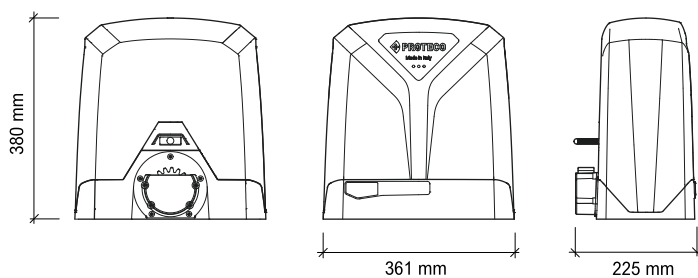


**Q90SA/Q90SH**  
Control board integrated  
with plug-in radio receiver  
433.92 MHz

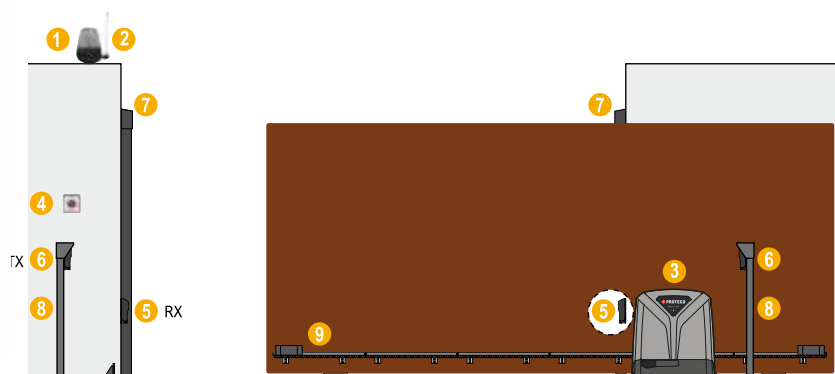
## TECHNICAL FEATURES

|                       | Matrix 25     | Matrix 18      | Matrix BLDC<br>Intensive use | Matrix HS<br>Hi-speed |
|-----------------------|---------------|----------------|------------------------------|-----------------------|
| Power supply          | 230V 50/60 Hz | 230V 50/60 Hz  | 230V 50/60 Hz                | 230V 50/60 Hz         |
| Motor voltage         | 6 A           | 4,5 A          | 4,5 A                        | 3 A                   |
| Start-up current      | 2,5 A         | 2 A            | 1,4 A                        | 1,3 A                 |
| Rated current         | 230V 50/60 Hz | 230V 50/60 Hz  | 48V dc                       | 48V dc                |
| Rated power           | 550 W         | 500 W          | 350 W                        | 300 W                 |
| Start-up capacitor    | 25 µF         | 30 µF          | —                            | —                     |
| Standard capacitor    | 25 µF         | 20 µF          | —                            | —                     |
| Start-up thrust       | 2000 N        | 1400 N         | 1600 N                       | 1400 N                |
| Rated thrust          | 1100 N        | 900 N          | 1000 N                       | 700 N                 |
| Thermal cut-off       | 150° C        | 150° C         | —                            | —                     |
| Max. opening speed    | 11 m/min      | 11 m/min       | 13 m/min                     | 20 m/min              |
| Max. leaf weight      | 2500 kg       | 1800 kg        | 2500 kg                      | 1800 kg               |
| Duty cycle            | 50%           | 50%            | 80%                          | 80%                   |
| Operating temperature | -30°C ++ 55°C | -30° C ++ 55°C | -30°C ++ 55°C                | -30°C ++ 55°C         |
| IP rating             | 44            | 44             | 44                           | 44                    |

## DIMENSIONS



## INSTALLATION MAP



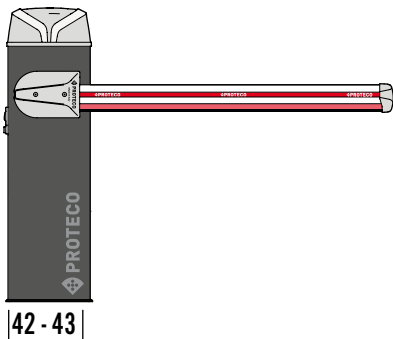
- 1\_Flashing light 2\_Stand-alone antenna 3\_Gear motor complete with control board and radio receiver  
4\_Key switch 5\_Closing photocell 6\_Opening photocell 7\_Safety strip 8\_Photocell posts 9\_Rack

## OPTIONAL ACCESSORIES



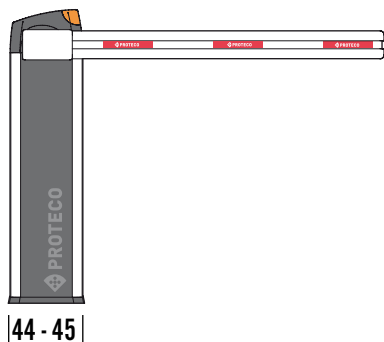


## Selection guide



S-Park

- 24V — Entryways 4 m ————— intensive use — S-Park 4
- 24V — Entryways 6 m ————— intensive use — S-Park 6



Barry

- 24V — Entryways 3,6 to 6 m ————— Barry DC
- 230V — Entryways 3,6 to 6 m ————— Barry



# S-Park

Road barrier for driveways  
with heavy transit flows, clearance  
width of up to 6 m.

Ideal for residential, industrial  
facilities and apartment blocks.

## 24V

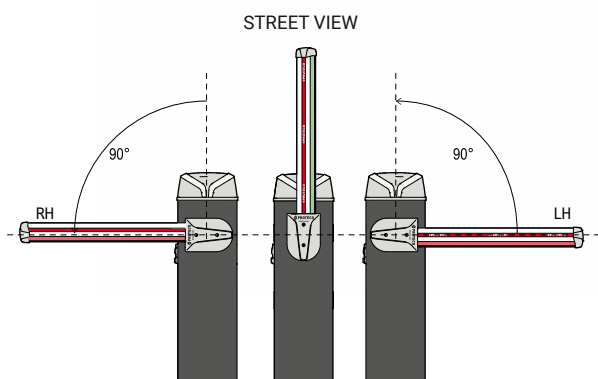
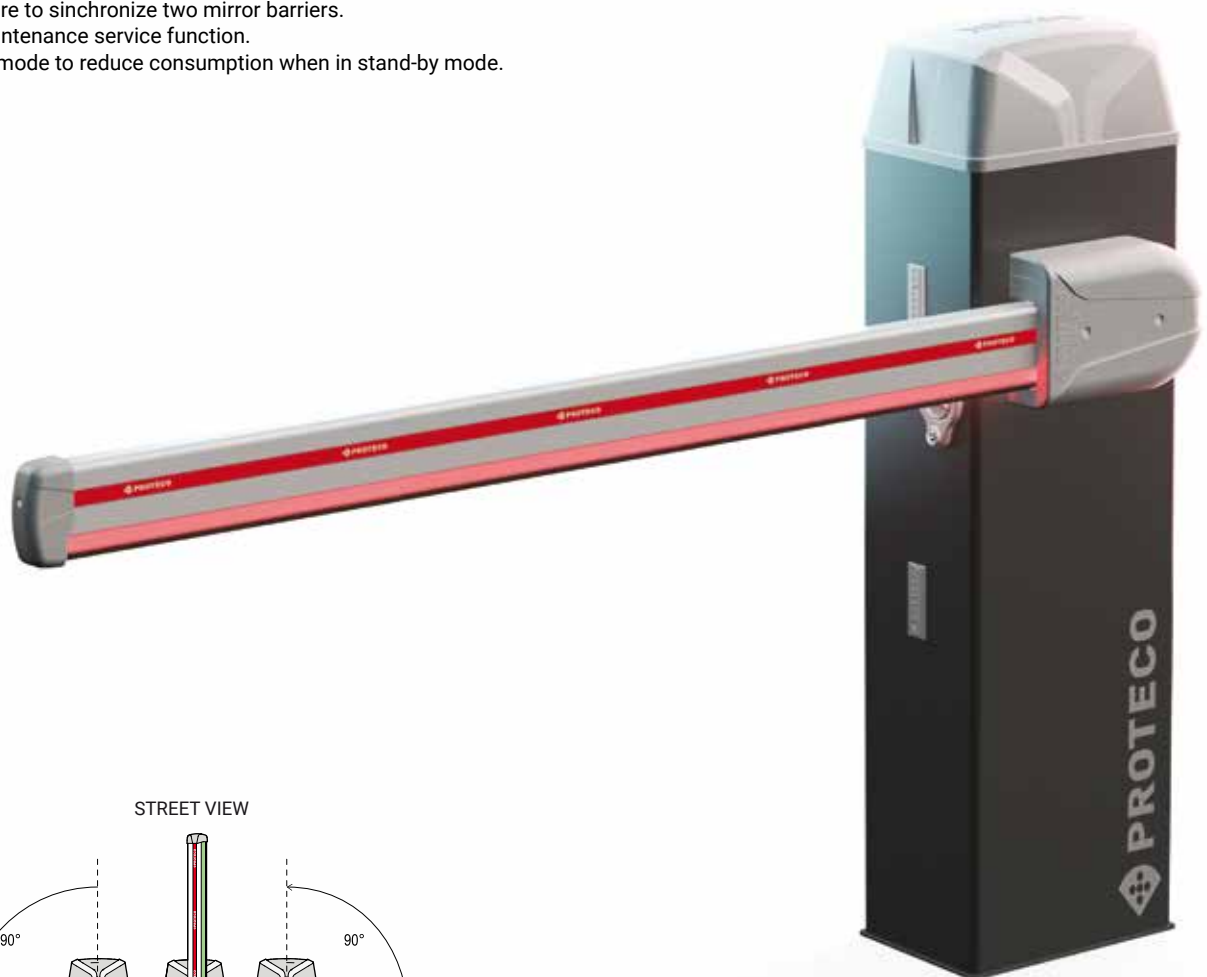
Powder coated inox cabinet, fitted with pre-drilled housing for sensors.  
Adjustable mechanical limit switches.  
LED luminous signaling on the barrier cabinet.  
Shock-proof rubber boom, can be integrated with red/green LED strips (optional).  
Right and left hand installation.  
Release system for easy manual operation secured by key and safety microswitch.  
Quick opening in 2.5" for drive ways up to 3 m.

**Built-in Q90BD pcb integrated in the upper side of the barrier.**

Obstacle detection feature and integrated encoder.  
Twinning feature to synchronize two mirror barriers.  
Scheduled maintenance service function.  
Power-Saving mode to reduce consumption when in stand-by mode.

## THE RANGE

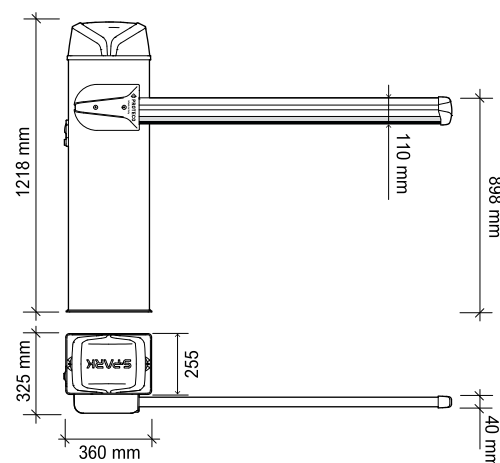
|          | Power supply | Entryway  | Use         | Opening time |
|----------|--------------|-----------|-------------|--------------|
| S-PARK 4 | 24V          | intensive | from to 4 m | 2.5" ÷ 4"    |
| S-PARK 6 | 24V          | intensive | from to 6 m | 4.5" ÷ 6"    |



## TECHNICAL FEATURES

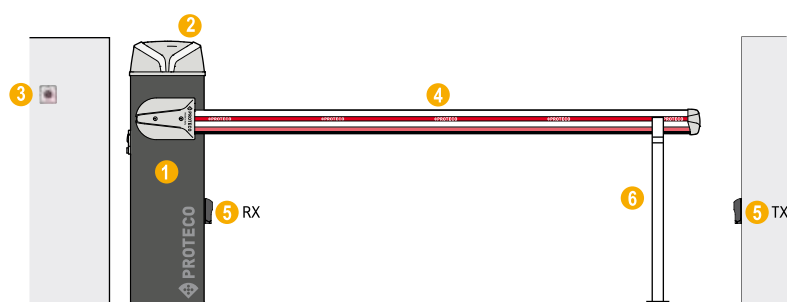
|                       | <b>S-PARK 4</b><br>from to 4 m | <b>S-PARK 6</b><br>from 4 to 6 m |
|-----------------------|--------------------------------|----------------------------------|
| Main power supply     | 230V 50/60 Hz                  | 230V 50/60 Hz                    |
| Motor Voltage         | 24V dc                         | 24V dc                           |
| Motor Torque          | 120 Nm                         | 180 Nm                           |
| Opening speed         | 2.5 ÷ 4 sec.                   | 4.5 ÷ 6 sec.                     |
| Operating temperature | -25°C ÷ +55°C                  | -25°C ÷ +55°C                    |
| Duty Cycle            | 80%<br>(max cycles/hour 200)   | 80%<br>(max cycles/hour 130)     |
| Dimensions            | 340x235 H 1210                 | 340x235 H 1210                   |
| IP rating             | 54                             | 54                               |

## DIMENSIONS



FIXING PLATE

## INSTALLATION MAP



- 1\_Complete barrier with control unit and radio receiver 2\_Flashing light 3\_Key switch  
4\_Aluminium boom 5\_Closing photocells 6\_Fork rest

## OPTIONAL ACCESSORIES



# Barry

Road barrier for driveways  
with heavy transit flows,  
clearance width of up to 6 m.  
Ideal for residential facilities and  
apartment blocks.

## 230V - 24V

Powder coated aluminium cabinet fitted with LED luminous signaling and integrated flashing light.

One single version to handle driveways from 3,6 to 6m, equipped with adjustable springs according to the length needed, telescopic boom and ground plate.

Built-in control unit integrated with radio receiver.

Obstacle detection feature.

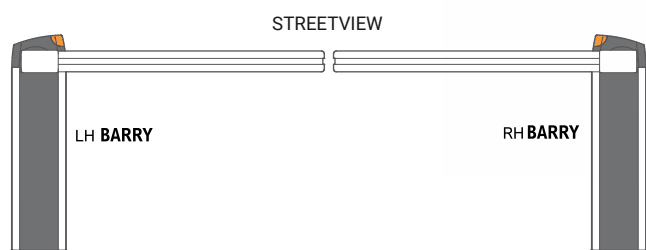
Automatic or step by step closing.

Trimmers regulation for torque and closing time settings.

Fault diagnostic by LED signaling.

## THE RANGE

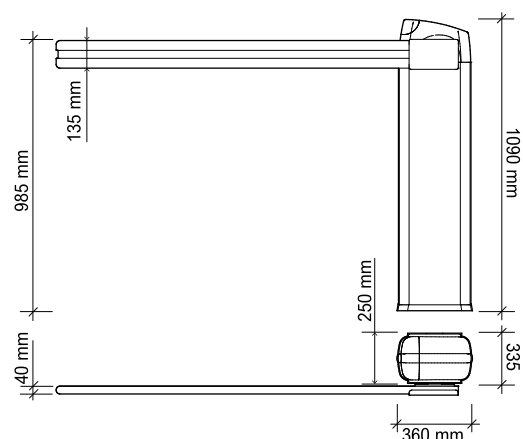
|             | Power supply | Driveway | Installation | Opening time |
|-------------|--------------|----------|--------------|--------------|
| BARRY dx    | 230V         | 6"       | RH           | 3,6 - 6 m    |
| BARRY sx    | 230V         | 6"       | LH           | 3,6 - 6 m    |
| BARRY DC dx | 24V          | 6"       | RH           | 3,6 - 6 m    |
| BARRY DC sx | 24V          | 6"       | LH           | 3,6 - 6 m    |



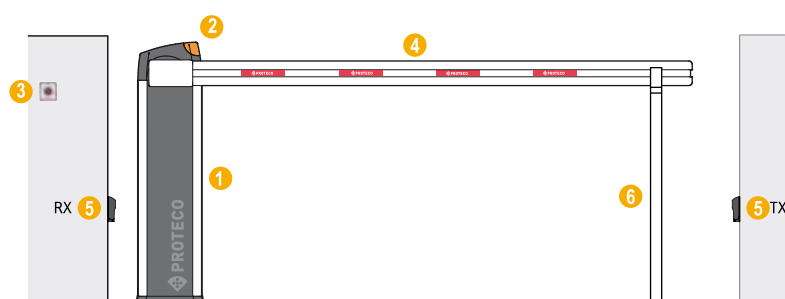
## TECHNICAL FEATURES

|                          | BARRY 230V AC     | BARRY 24V DC      |
|--------------------------|-------------------|-------------------|
| Power supply             | 230V ~ 50Hz       | 230V ~ 50Hz       |
| Motor Voltage            | 230V ac           | 24V dc            |
| Motor power              | 200W              | 160W              |
| Absorption max           | 1,5A @230V        | 1,2A @230V        |
| Opening time             | about 6 seconds   | about 6 seconds   |
| Automatic closing        | from 1 to 60 sec. | from 1 to 60 sec. |
| Boom max. length         | 6 m               | 6 m               |
| Accessories              | 12Vdc, 8W max.    | 24Vdc, 8W max.    |
| Working temperature      | da -20 a +50 °C   | da -20 a +50 °C   |
| Frequency                | 433,92 Mhz        | 433,92 Mhz        |
| IP rating                | 44                | 44                |
| Number of cycles per day | 250               | 300               |

## DIMENSIONS



## INSTALLATION MAP



- 1\_Complete barrier with control unit and radio receiver 2\_Flashing light 3\_Key switch  
4\_Aluminium boom 5\_Closing photocell 6\_Fixed support

## ACCESSORIES INCLUDED



**PBRATO**  
Telescopic boom 3.6+2.7 m for BARRY



Fittings

## OPTIONAL ACCESSORIES



**PBGR105**  
Fork rest



**PBRAM02**  
Moving support



**RF12**  
Metal post for  
RF40



**IKON**  
4-ch remote control



**RF40**  
Photocells 12-24V



**MG04**  
1-ch loop detector



**RG05**  
2-ch loop detector

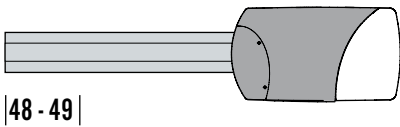








## Selection guide



|48 - 49|

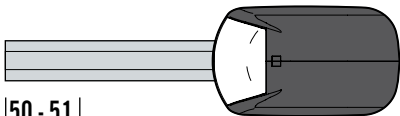
Libra

Load up to 60 Kg

**Libra**

Load up to 100 Kg

**Libra PLUS**



|50 - 51|

Dolly

Load up to 100 Kg

**Dolly 600**

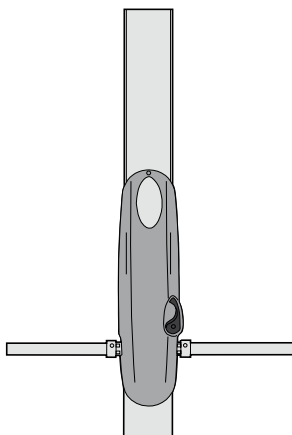
Load up to 140 Kg

**Dolly 1000**

Load up to 160 Kg

**Dolly 1200**

|52 - 53|



Balance

Door width up to 10 m<sup>2</sup>

# Libra

Garage system solution  
for SECTIONAL doors,  
up to 12 m<sup>2</sup>.

24V

User-friendly display and programming keys for easier startup and diagnoses.

Obstacle detection feature, automatically calibrates forces according to the weight of the door.

Encoder system to ensure higher safety and reliability.

Automatically tests photocells during installation.

Dead man feature, allows to open the door in presence by remote control

in case of faulty photocell operation.

Safety stop contact allows the management of a pedestrian door.

Built-in LED courtesy light, equipped with energy saving system.

Chain drive rack, pull-cord to unlock the door's handle.

Suitable for protruding overhead garage door as well, using the optional adapter arm.



## THE RANGE

|            | Power supply | Force  | Rail  | Max. load |
|------------|--------------|--------|-------|-----------|
| LIBRA      | 24V          | 700 N  | 3,0 m | 60 Kg     |
| LIBRA Plus | 24V          | 1100 N | 3,3 m | 100 Kg    |

## KIT CONTENT



Garage door operator  
with control board  
and radio receiver  
433.92 MHz



**IKON**  
4-ch remote control

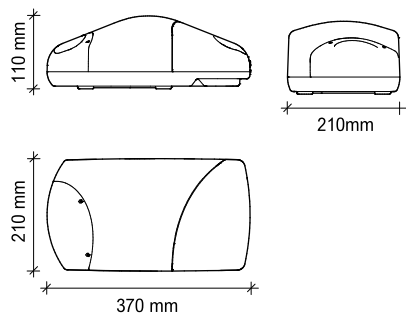


Chain rail 3 m / 3,3 m

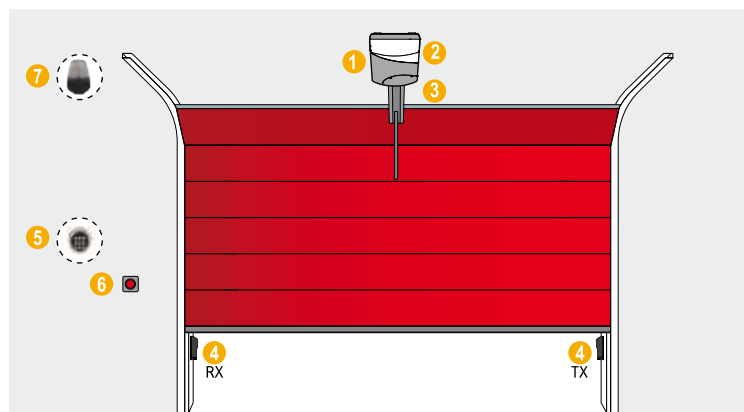
## TECHNICAL FEATURES

| LIBRA                                              | LIBRA Plus                    |
|----------------------------------------------------|-------------------------------|
| Motor power supply 24V dc                          | 24V dc                        |
| Stand-by consumption 0,5 W - when OFF = $\leq 5$ W | 0,5 W - when OFF = $\leq 9$ W |
| Rated power 100 W                                  | 150 W                         |
| IP protection class 40                             | 40                            |
| Pulling thrust 700 N                               | 1100 N                        |
| Opening time 17"                                   | 17"                           |
| Max door size 8 m <sup>2</sup>                     | 12 m <sup>2</sup>             |
| Max door load 60 Kg                                | 100 Kg                        |
| Max door height 2,4 m                              | 2,7 m                         |
| Duty cycle 80%                                     | 80%                           |
| Rail 3 m                                           | 3,3 m                         |

## DIMENSIONS

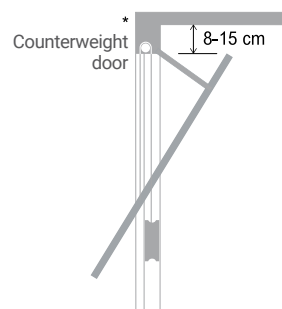
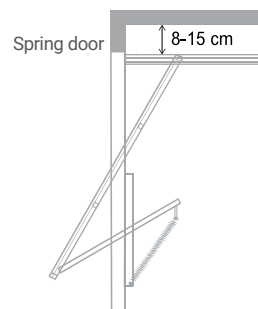
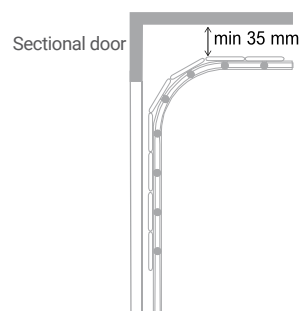


## INSTALLATION MAP



1\_Door opener featuring control board and radio receiver 2\_Courtesy light 3\_Chain rail  
4\_Photocell 5\_Wireless keypad 6\_Emergency push button 7\_Flashing light

## DOOR TYPE



\* just if installed with the according adapter arm PARC02

## OPTIONAL ACCESSORIES



**MLIR07**  
Pull-cord release  
to fit on door handle



**RC22**  
Mechanical safety strip  
24 mm x 2,5 m



**LUCE**  
LED 24V  
flashing light



**ARC02**  
Adapter arm for  
protruding overhead  
doors



**RF40**  
Photocell 12-24V



**RT37**  
Wireless keypad



**RS15**  
Key switch



# Dolly

Automation for garage doors  
up to 16 m<sup>2</sup> for residential  
and industrial use

24V

Proteco introduces DOLLY, the brand new generation of garage door systems.

Steel rail, pre-assembled in two pieces, belt-driven transmission for smooth and silent operation.

24Vdc motor suitable for semi-intensive and intensive use.

Extremely compact design with only 13-cm clearance from the ceiling perfect to any installation context.

Integrated programming-friendly display for easier adjustment.

Dual encoder technology, integrated low-consumption LED courtesy light and radio receiver with storage up to 40 different user codes.

Compartment for plug-and-play back-up battery connection to grant continuous operation even in the event of power cut.

DOLLY is available in 3 different versions according to the size of the door and use.



## THE RANGE

|            | Power supply | Force  | Rail  | Max. load |
|------------|--------------|--------|-------|-----------|
| DOLLY 600  | 24V          | 600 N  | 3,0 m | 100 Kg    |
| DOLLY 1000 | 24V          | 1000 N | 3,2 m | 140 Kg    |
| DOLLY 1200 | 24V          | 1200 N | 3,5 m | 160 Kg    |

## KIT CONTENT



Garage door system including  
control board and radio  
receiver 433.92 MHz



**IKON**  
4-ch  
remote control

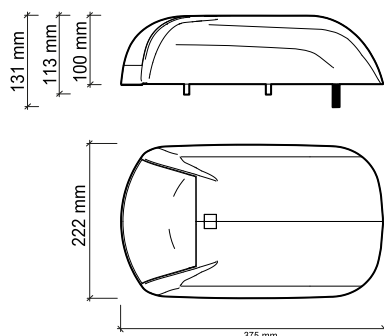


**MDLR01** Rail L=3000  
**MDLR02** Rail L=3200  
**MDLR03** Rail L=3500

## TECHNICAL FEATURES

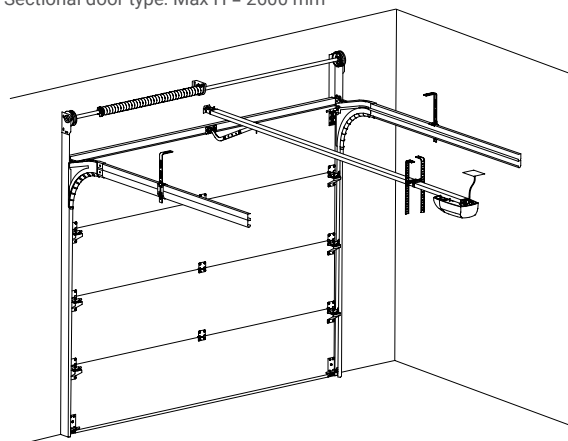
|                                   | DOLLY 600              | DOLLY 1000             | DOLLY 1200             |
|-----------------------------------|------------------------|------------------------|------------------------|
| Power supply                      | 230V-50/60Hz           | 230V-50/60 Hz          | 230V-50/60Hz           |
| Motor voltage                     | 24V dc                 | 24V dc                 | 24V dc                 |
| Maximum power                     | 200 W                  | 245W                   | 260W                   |
| Maximum traction force            | 600 N                  | 1000 N                 | 1200 N                 |
| Rated force                       | 300 N                  | 400 N                  | 450 N                  |
| Maximum door area                 | 10 m²                  | 14 m²                  | 16 m²                  |
| Maximum door weight               | 100 kg                 | 140 kg                 | 160 kg                 |
| Maximum continuous operating time | 4 min ON<br>36 min OFF | 4 min ON<br>36 min OFF | 4 min ON<br>36 min OFF |
| Cycles/hour (max)                 | 20                     | 15                     | 13                     |
| IP protection rating              | 20                     | 20                     | 20                     |
| Working temperature               | -20°C ++ 40°C          | -20°C ++ 40°C          | -20°C ++ 40°C          |
| Radio frequency                   | 433,92 MHz             | 433,92 MHz             | 433,92 MHz             |
| Radio code storage                | 40                     | 40                     | 40                     |
| Relative humidity rate            | <90%                   | <90%                   | <90%                   |

## DIMENSIONS

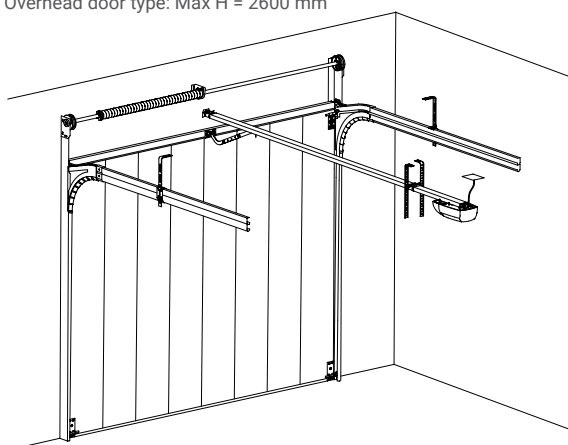


## DOOR TYPE

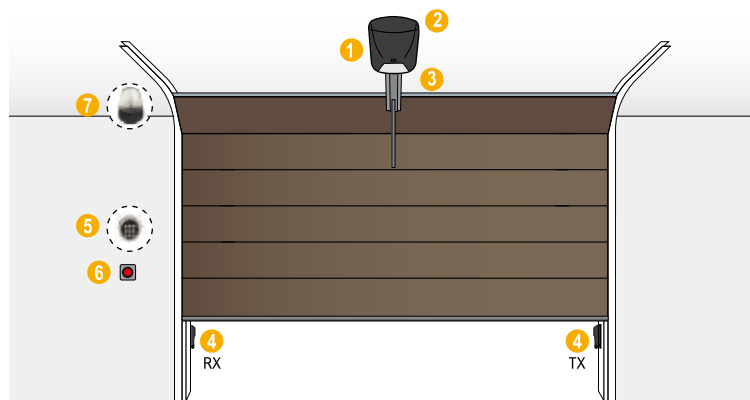
Sectional door type: Max H = 2600 mm



Overhead door type: Max H = 2600 mm



## INSTALLATION MAP



- 1\_Door opener featuring control board and radio receiver 2\_Courtesy light 3\_Chain rail  
4\_Closing photocell 5\_Wireless keypad 6\_Emergency push button 7\_Flashing light

## OPTIONAL ACCESSORIES



**LUCE**  
LED 24V  
flashing light



**RF40**  
Photocell 12-24V



**MDLR04**  
Pull-cord release and  
resetting device to fit  
on door handle



**MDLR28**  
External release kit for  
counterweight doors



**ARC02**  
Adapter arm for protruding  
overhead doors





# Balance

Garage system for counterweight doors up to 10 m<sup>2</sup> .

230V

Electromechanical locked gearmotor complete with adjustable electromechanical limit switches.

Bronze and steel transmission system.

Equipped with integrated courtesy light and handle for manual operation.

The optional kit available as accessory allows to unlock the door from outside the garage.

Embedded control unit with obstacle detection function, slowdown can be adjusted both in opening and closing.

Integrated radio receiver. Also available without control unit.

Suitable for dual motor installation with fixing arms and fittings.

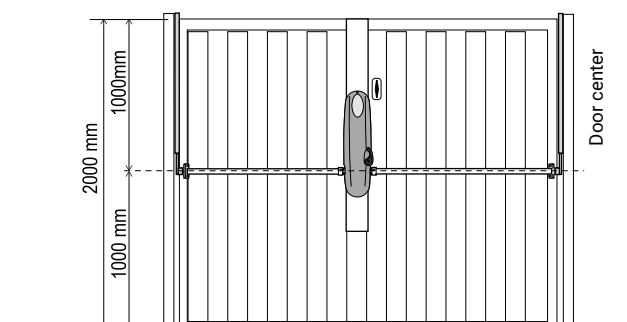


## THE RANGE

|            | Power supply | Drive rail    | Control board |
|------------|--------------|---------------|---------------|
| BALANCE    | 230V         | 1,5 m / 2,0 m | Q80S          |
| BALANCE CN | 230V         | 1,5 m / 2,0 m |               |

## DOOR TYPE

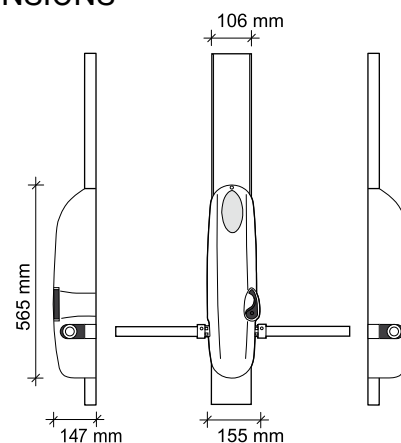
Non-protruding overhead door



## TECHNICAL FEATURES

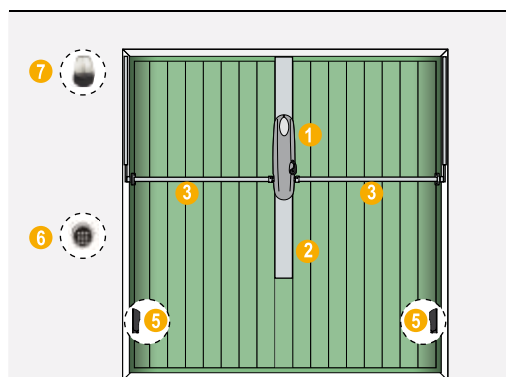
|                     | BALANCE           |
|---------------------|-------------------|
| Door max. width     | 10 m <sup>2</sup> |
| Power supply        | 230V ac           |
| Rated power         | 250W              |
| RPM                 | 1400              |
| Capacitor           | 12,5 µF           |
| Absorption          | 1,3 A             |
| Working temperature | -20° C / +55° C   |
| Weight              | 8 Kg              |
| IP protection       | IP 30             |

## DIMENSIONS

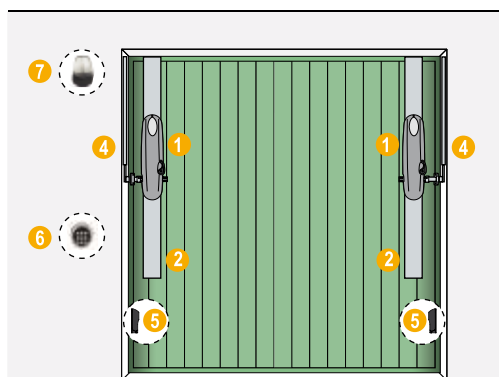


## INSTALLATION MAP

CENTRAL APPLICATION

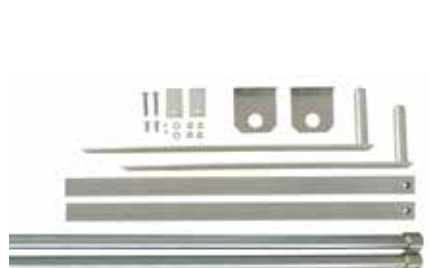


SIDE APPLICATION

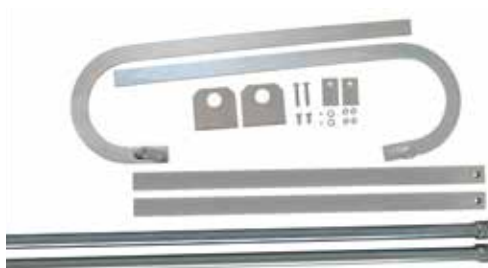


1\_Door opener featuring control board and radio receiver 2\_Drive rail 3\_Fittings for central application 4\_Fittings for side application  
5\_Photocell 6\_Wireless keypad 7\_Flashing light

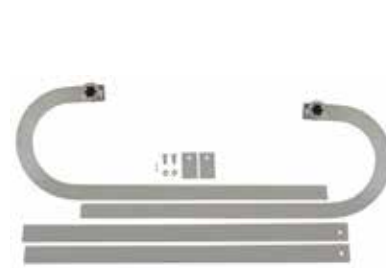
## OPTIONAL ACCESSORIES



**E102C**  
Straight arms kit for central mounting



**E102U**  
Curved arms kit for central mounting



**E102UL**  
Curved arms kit for side mounting double motor



**E101**  
Release kit for existing lock



**IKON**  
4-ch remote control



**E107A**  
Drive rack  
1,5 m - 2,0 m



**E102L**  
Fittings kit for side mounting double motor



**RC22**  
Mechanical safety  
strip 24 mm x 2,5 m



**RT37**  
Wireless keypad



**RS15**  
Key switch



**LUCE**  
LED 24V  
flashing light



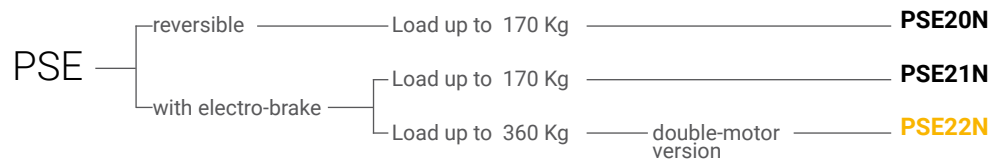
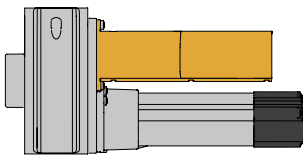
**RF40**  
Photocell 12-24V







## Selection guide



# PSE 20N 21N 22N

Rolling shutter system  
for residential  
and industrial areas.

230V

Suitable for existing or brand new shutters.  
Built-in limit switches, to ensure easier safe regulation in opening and closing.  
Available in reversible or locked version, featuring electro-break and release system for manual operation.  
Transmission gear accessories and spring pulley adapters included.  
For big shutters dual-motor operator available.

PSE20N



## THE RANGE

|        | Power supply | Version    | Ø Shaft                 | Ø Spring-pulley | Max. Load |
|--------|--------------|------------|-------------------------|-----------------|-----------|
| PSE20N | 230V         | reversible | 60-48 mm                | 200-220 mm      | 170 Kg    |
| PSE21N | 230V         | locked     | 60-48 mm                | 200-220 mm      | 170 Kg    |
| PSE22N | 230V         | locked     | 100-76 mm<br>dual motor | 240 mm          | 360 Kg    |

PSE21N



PSE22N

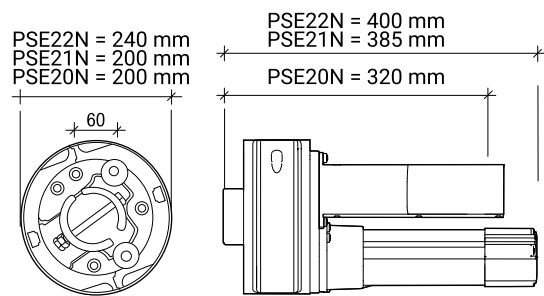




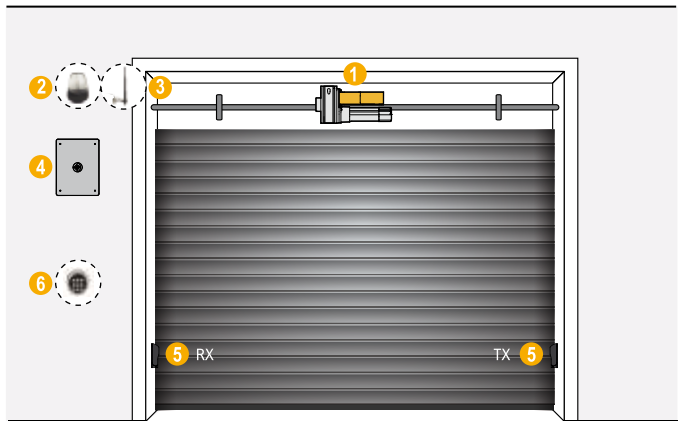
TECHNICAL FEATURES

|                      | PSE20N        | PSE21N        | PSE22N        |
|----------------------|---------------|---------------|---------------|
| Power supply         | 230V 50/60 Hz | 230V 50/60 Hz | 230V 50/60 Hz |
| Current              | 2.6 A         | 2.6 A         | 5.4 A         |
| Motor power          | 600 W         | 600 W         | 1340 W        |
| Thrust               | 170 Nm        | 170 Nm        | 360 Nm        |
| Pulley speed         | 10 rpm        | 9 rpm         | 8 rpm         |
| Max load             | 170 Kg        | 170 Kg        | 360 Kg        |
| Max stroke           | 6 m           | 6 m           | 6 m           |
| Drive-shaft diameter | 60/48 mm      | 60/48 mm      | 76 mm         |
| Spring-holder pulley | 200/220 mm    | 200/220 mm    | 240 mm        |
| Duty cycle           | 30%           | 30%           | 30%           |

DIMENSIONS



INSTALLATION MAP



1\_Shutter operator 2\_Flashing light 3\_Stand-alone antenna 4\_Control board  
5\_Closing photocell 6\_Wireless keypad

OPTIONAL ACCESSORIES



**RT26**  
Safety lock box with release  
handle for manual operation



**IKON**  
4-ch remote  
control



**RS15**  
Key switch



**RF40**  
Photocell 12-24V



**Q46**  
Control board 230V  
for shutters



**RT37**  
Wireless keypad



**LUCE**  
LED 24V  
flashing light



**ANT02**  
Stand-alone  
antenna





# BLINDS and OUTDOOR AWNINGS



## Selection guide

| Projection<br>of arms | Number of arms       |           |   |
|-----------------------|----------------------|-----------|---|
|                       | 2                    | 4         | 6 |
| 4 m                   | PTP45 50 - PTP45 50M |           |   |
| 2,5 m                 | PTP45 30             | PTP45 50  |   |
| 1,5 m                 |                      | PTP45 50M |   |

Outdoor Awning Ø70 mm (adapter in option)

| Material                                       | MAX m²   |          |          |          |          |      |          |      |
|------------------------------------------------|----------|----------|----------|----------|----------|------|----------|------|
|                                                | 2,5      | 3,5      | 4        | 5,25     | 7        | 8    | 9,5      | 15   |
| PVC and light-weight aluminium 6 kg/m²         | PTP45 20 |          |          |          | PTP45 30 |      | PTP45 50 |      |
| Extruded aluminium and standard inox 9,5 kg/m² | PTP45 20 |          | PTP45 30 |          | PTP45 50 |      |          | N.A. |
| Armored inox and wood 12,5 kg/m²               | PTP45 20 | PTP45 30 |          | PTP45 50 |          | N.A. |          |      |

Outdoor blind Ø60 mm (adapter in option)

# PTP45

Tubular motors Ø 45 mm  
for awnings and blinds.

230V

Tubular motor featuring electro-brake, powerful and noiseless.  
Quick and easy installing on new and existing blinds and awnings.  
Mechanical limit-switches with progressive adjustment both in opening  
and closing position.  
Bracket and Ø 60 mm octagonal shaft adapter included.  
Version featuring manual override system available (M models).

## THE RANGE

|           | Power supply | Ø     | Force | rpm | Max. load<br>(Ø 60 mm shaft) |
|-----------|--------------|-------|-------|-----|------------------------------|
| PTP45 20  | 230V         | 45 mm | 20 Nm | 17  | 32 Kg                        |
| PTP45 30  | 230V         | 45 mm | 30 Nm | 17  | 52 Kg                        |
| PTP45 50  | 230V         | 45 mm | 50 Nm | 13  | 90 Kg                        |
| PTP45 50M | 230V         | 45 mm | 50 Nm | 13  | 90 Kg                        |



## CONTENTS

### PTP45



Tubular motor Ø 45 mm  
with octagonal adapter Ø 60 mm



Limit switch regulation key



Motor bracket

### PTP45 50M



Tubular motor Ø 45 mm  
with octagonal adapter Ø 60 mm and emergency release handle



Limit switch regulation key



Manual operation rod  
(135 mm)

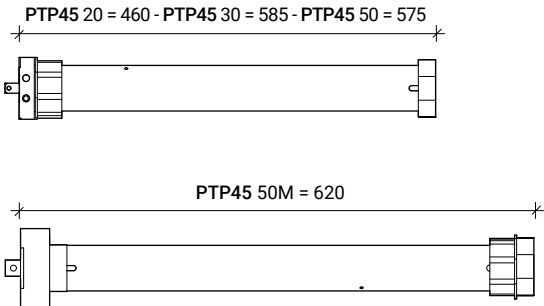


Motor bracket

TECHNICAL FEATURES

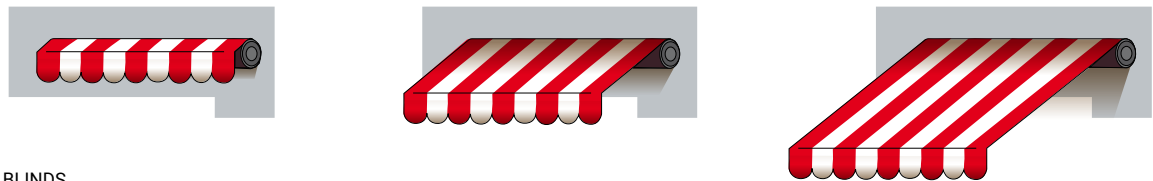
|              | PTP45 20 | PTP45 30 | PTP45 50 | PTP45 50M |
|--------------|----------|----------|----------|-----------|
| Power supply | 230V     | 230V     | 230V     | 230V      |
| Thrust       | 20 Nm    | 30 Nm    | 50 Nm    | 50 Nm     |
| Current      | 0.78 A   | 1.03 A   | 1.23 A   | 1.23 A    |
| Motor power  | 178 W    | 235 W    | 282 W    | 282 W     |
| Motor speed  | 17 rpm   | 17 rpm   | 13 rpm   | 13 rpm    |
| Weight       | 1,9 Kg   | 2.2 Kg   | 2.55 Kg  | 3.2 Kg    |

DIMENSIONS



INSTALLATION MAP

AWNINGS



BLINDS



OPTIONAL ACCESSORIES



**PTPQ01W**  
Radio receiver  
433 MHz



**PTPTX5W**  
Remote control  
433 MHz  
5-channels



**PTPS03W**  
Wind/sun sensor,  
solar powered



**PTPR01SI**  
Adapter Ø 70 mm  
for awnings



**PTPR03W**  
Motor bracket,  
wall mounting







# CONTROL BOARDS

## List of Settings

| SETTINGS                                   | Q80A         | Q60A | Q81A         | Q20A         | Q80S         | Q60S | Q81S         | Q20S         | Q90SA | Q90SH        | Q90BD        | Q46  |
|--------------------------------------------|--------------|------|--------------|--------------|--------------|------|--------------|--------------|-------|--------------|--------------|------|
| Control board power                        | 230V<br>115V | 230V | 230V<br>115V | 230V<br>115V | 230V<br>115V | 230V | 230V<br>115V | 230V<br>115V | 230V  | 230V<br>115V | 230V<br>115V | 230V |
| Motor power                                | 230V<br>115V | 230V | 230V<br>115V | 24V          | 230V<br>115V | 230V | 230V<br>115V | 24V          | 230V  | 48V          | 24V          | 230V |
| Programming screen/fault diagnostic        | ●            | ●    |              | ●            | ●            | ●    |              | ●            | ●     | ●            | ●            | ●    |
| Obstacle detection (EN 12453)              | ●            |      | ●            | ●            | ●            |      | ●            | ●            | ●     | ●            | ●            |      |
| Simplified self-programming mode           | ●            |      | ●            | ●            | ●            |      | ●            | ●            | ●     | ●            | ●            | ●    |
| Sequential programming mode                | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            |       |              |              | ●    |
| Automatic closing                          | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            | ●            | ●    |
| Step by step mode                          | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            | ●            | ●    |
| Multi-occupation feature                   | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            | ●            |      |
| Pedestrian opening                         | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            |              |      |
| Adjustable deceleration time               | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            | ●            |      |
| Adjustable delay time                      | ●            | ●    | ●            | ●            |              |      |              |              |       |              |              |      |
| Reversing strock / Lock pulse              | ●            | ●    | ●            | ●            |              |      |              |              |       |              |              |      |
| Separate OPEN/CLOSE push buttons           | ●            | ●    |              | ●            | ●            | ●    |              | ●            | ●     | ●            | ●            | ●    |
| Maintenance service                        |              |      |              | ●            |              |      |              | ●            | ●     | ●            | ●            |      |
| Dead man                                   |              | ●    |              |              | ●            | ●    | ●            | ●            | ●     | ●            |              | ●    |
| Working cycles counter                     | ●            |      |              | ●            | ●            |      |              | ●            | ●     | ●            | ●            |      |
| BUILT-IN radio receiver 433,92 MHz         |              |      |              |              |              |      |              |              |       |              |              | ●    |
| PLUG-IN radio receiver 433,92 MHz          | ●            |      | ●            | ●            | ●            |      | ●            | ●            | ●     | ●            | ●            |      |
| PRE-WIRED radio receiver 433,92 MHz        |              | ●    |              |              |              | ●    |              |              |       |              |              |      |
| Input resistive safety edge 8K2            | ●            | ●    | ●            | ●            | ●            | ●    | ●            | ●            | ●     | ●            |              | ●    |
| Electric-lock interface 12V ac/dc OPTIONAL | ●            | ●    | ●            |              |              |      |              |              |       |              |              |      |
| Output electric-lock 12Vac/dc              |              |      |              | ●            |              |      |              |              |       |              |              |      |
| Output AUX/2° radio channel                |              |      |              |              |              |      |              |              | ●     | ●            | ●            |      |
| 2° radio channel interface - OPTIONAL      | ●            |      | ●            | ●            | ●            |      | ●            | ●            |       |              |              |      |
| Battery powered                            |              |      |              | ●            |              |      |              | ●            |       |              | ●            |      |

# Q80A

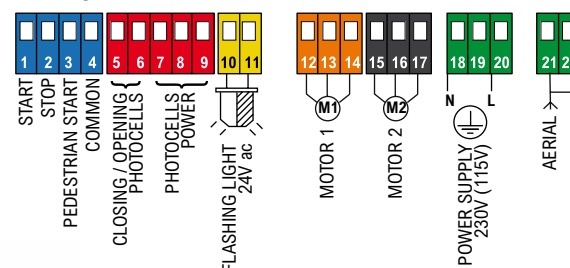
## 230V control board for single or double swing gates

Control board powered at 230V  
Also available in 115V

Motors powered at 230V  
Also available in 115V

Capacity: 64 codes

### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.



#### MEL04

Card module for electric-lock (12V, 15W).

### MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Individual setting adjustment.
- Separate electronic settings of working times and deceleration for each motor.
- Adjustable delay time feature.
- Single leaf gate mode.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Separate OPEN/CLOSE push buttons function.
- Can command a timer.
- Optional card module interface for electric-lock, "reversing stroke" and "lock pulse" functions.
- Optional card module interface to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.
- Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.9 2MHz.



# Q60A

## 230V control board for single or double swing gates

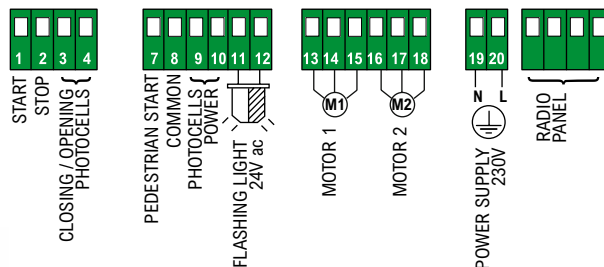
Control board powered at 230V

Motors powered at 230V

Capacity: 56 codes



### WIRING



### OPTIONAL ACCESSORIES



#### MEL01

Card module interface  
for electric-lock (12V, 15W).

### MAIN FEATURES

- LED screen for programming and fault diagnosis.
- Electronic settings of force, working and deceleration times for each motor.
- Adjustable delay time.
- Single leaf mode.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Photozell and motor test.
- Optional card module for electric-lock, "reversing stroke" and "lock pulse" functions.
- Plug-in terminals.
- Timer input.
- Plug-in radio receiver 433.92 MHz.



# Q81A

## 230V control board for single or double swing gates

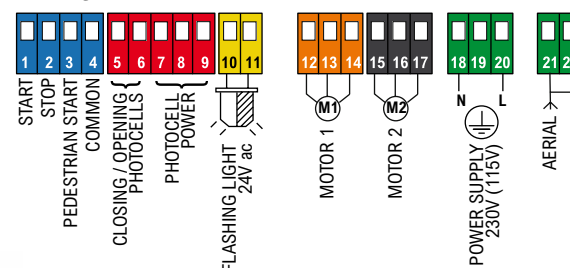
Control board powered at 230V  
Also available in 115V

Motors powered at 230V  
Also available in 115V

Capacity: 64 codes



### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.



#### MEL04

Card module for electric-lock (12V, 15W).

### MAIN FEATURES

- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential programming for working and deceleration times.
- Trimmers setting of force and obstacle detection sensitivity.
- Self-diagnosis with LED signaling of faults.
- Adjustable delay time feature.
- Single leaf gate mode.
- Pedestrian opening.
- Multi-occupation function.
- Automatic or step by step closing mode.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Can command a timer.
- Optional card module for electric-lock, "reversing stroke" and "lock pulse" functions.
- Optional card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light. Plugin terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.92 MHz.



# Q20A

## 24V control board for single or double swing gates

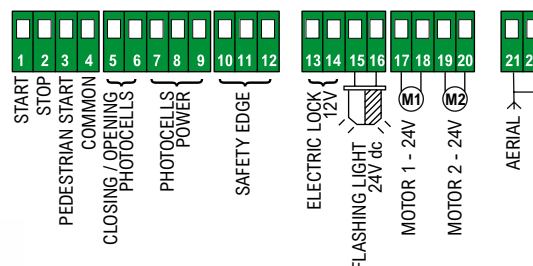
Control board powered at 230V  
Also available in 115V

Motors powered at 24V

Capacity: 99 codes



### WIRING



### OPTIONAL ACCESSORIES



**MRX02**

AUX card module interface to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.



**QBAT1.2**

Battery 12V 1.2Ah.



**KBT001**

Battery wiring kit.



**MPIQ03**

Battery fixing plate for PAR04 housing.

### MAIN FEATURES

- Self-learning programming mode.
- Individual setting adjustment.
- Electronic settings of working and deceleration times for each motor.
- Adjustable delay time.
- Single leaf mode.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Maintenance alert.
- Separate OPEN/CLOSE push buttons function.
- Can fit a timer.
- Built-in charger.
- Optional card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.
- Plug- in terminals.
- Input for 8K2 resistive safety strip.
- Output for electric-lock 12Vac/dc.
- Plug-in radio receiver 433.92 MHz.



# Q80S

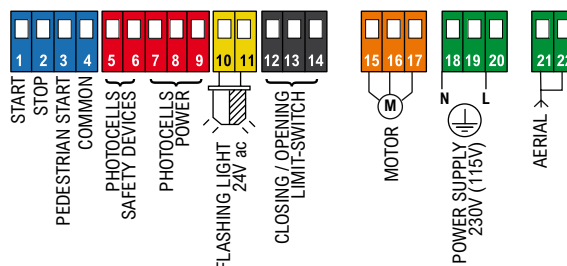
## 230V control board for sliding gates

Control board powered at 230V  
Also available in 115V

Motor powered at 230V  
Also available in 115V

Capacity: 64 codes

### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.

### MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Individual setting adjustment.
- Separate electronic settings of working and deceleration times for each motor.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- Can command a timer.
- Optional card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light. Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.92 MHz.





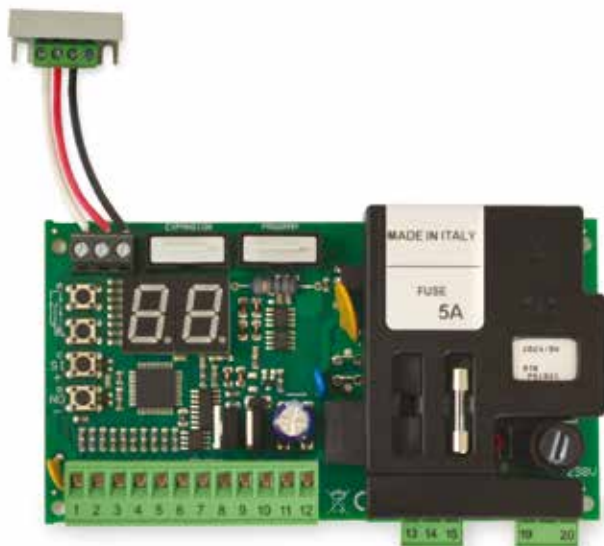
# Q60S

## 230V control board for sliding gates

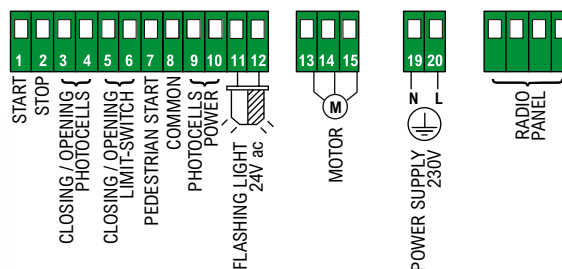
Control board powered at 230V

Motor powered at 230V

Capacity: 56 codes



### WIRING



### OPTIONAL ACCESSORIES



**MEL04** Card module for electric-lock (12V, 15W).

### MAIN FEATURES

- LED screen for programming and fault diagnosis.
- Individual setting adjustment.
- Electronic settings of force, working and deceleration times.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Photocell and motor test.
- Plug-in terminals.
- Can fit a timer.
- Plug-in radio receiver 433.92 MHz.



# Q81S

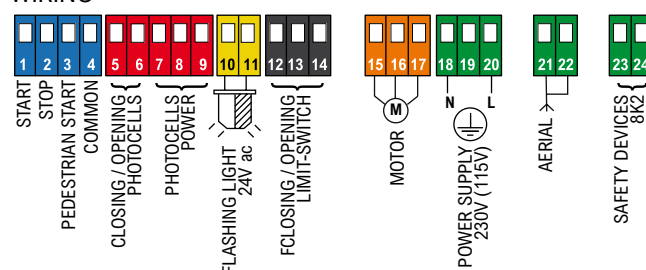
## 230V control board for sliding gates

Control board powered at 230V  
Also available in 115V

Motor powered at 230V  
Also available in 115V

Capacity: 64 codes

### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.

### MAIN FEATURES

- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential programming for working and deceleration times.
- Trimmers setting of force and obstacle detection sensitivity.
- Self-diagnosis with LED signaling of faults.
- Pedestrian opening.
- Multi-occupation function.
- Automatic or step by step closing mode.
- Quick closing "follow me" feature.
- Dead man functioning.
- Photocell and motor test.
- Can command a timer.
- Optional card module interface to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.
- Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.92 MHz.



# Q20S

## 24V control board for sliding gates

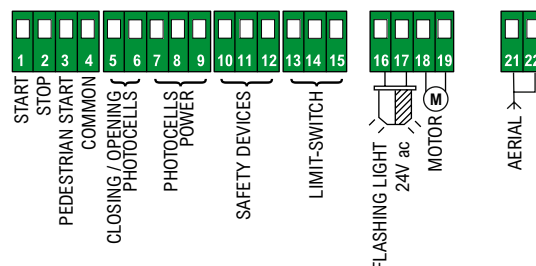
Control board powered at 230V  
Also available in 115V

Motor powered at 24V

Capacity: 99 codes



### WIRING



### OPTIONAL ACCESSORIES



**MRX02**

AUX card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.



**QBAT1.2**

Battery 12V 1.2Ah.



**KBT001**

Battery wiring set.



**MSU14**

Battery fixing plate for MEKO sliding motor 24V.



**MBT2301**

Back up battery pack for MIKE.

### MAIN FEATURES

- LED screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Individual setting adjustment.
- Separate electronic settings of working and deceleration times for each motor.
- Pedestrian opening.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Maintenance alert.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- Can command a timer.
- Built-in charger.
- Optional card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light. Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.9 2MHz.



# Q90SA

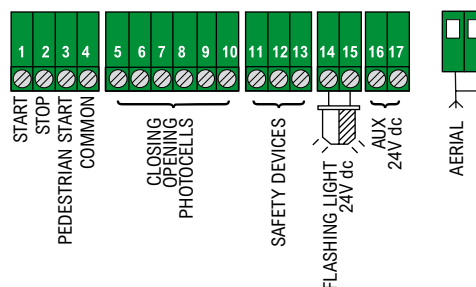
## MATRIX range - 230V control board for sliding gates

Control board powered at 230V

Motor powered at 230V

Capacity: 96 codes

### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.



#### PMXM01

Optional card module to synchronize a double sliding gate.



### MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Individual setting adjustment.
- Electronic settings of working and deceleration times.
- Electronic inertia control.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Pedestrian opening.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Maintenance alert.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- Can command a timer.
- Optional card module to command a 2° radio channel, or to control the gate status, or to fit a courtesy light. Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.92 MHz.
- Optional card module interface to synchronize a double sliding gate.



# Q90SH

## MATRIX range - control board for BRUSHLESS sliding gates

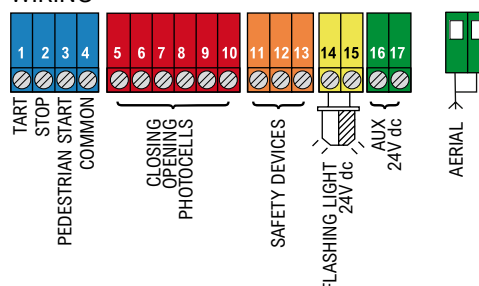
Control board powered at 230V  
Also available in 115V

BRUSHLESS motor powered at 48V

Capacity: 96 codes



### WIRING



### OPTIONAL ACCESSORIES



#### MRX01

AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.



#### PMXM01

Optional card module to synchronize a double sliding gate.



#### Q BAT 3.2

Battery 12V 3.2Ah.



#### KBT003

Battery charger for Matrix brushless systems

### MAIN FEATURES

- LED screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Individual setting adjustment.
- Adjustable motor speed.
- Electronic settings of working and deceleration times.
- Electronic inertia control.
- Multi-occupation function.
- Three different closing modes: automatic, semi-automatic, step by step.
- Pedestrian opening.
- Quick closing "follow me" feature.
- Photocell and motor test.
- Working cycles counter.
- Maintenance alert.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- Can command a timer.
- Output AUX for optional card module interface to command a 2° radio channel, or to control the gate status, or to fit a courtesy light.
- Plug-in terminals.
- Input for 8K2 resistive safety strip.
- Plug-in radio receiver 433.92 MHz.
- Optional card module interface to synchronize a double sliding gate.



# Q90BD

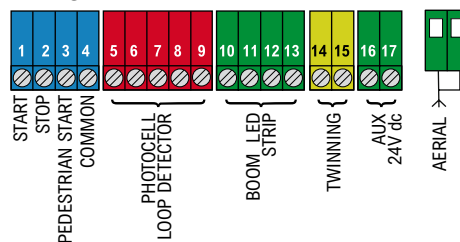
## S-PARK road barriers' range Control board 24V

Control board powered at 24V  
Also available in 115V

Motor powered at 24V

Capacity: 96 codes

### WIRING



### OPTIONAL ACCESSORIES



**MRX01** AUX card module to command a 2° radio channel, to control the gates status, or to fit a courtesy light.



**KBT002** Back-up battery set 1,2Ah and wirings.



### MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Electronic regulation of deceleration time.
- Multi-occupation function.
- Automatic, semi-automatic and step by step closing mode.
- Quick closing "follow me" function.
- Working cycles counter.
- Twinning function, for the synchronization of two mirror barriers.
- Maintenance alert.
- Separate OPEN/CLOSE push buttons function.
- Built-in battery charger.
- AUX output for: 2° radio channel, or gate status notice, or courtesy light.
- Plug-in terminals.
- Plug-in radio receiver 433.92 MHz.





# Q46

## Control board 230V for rolling shutters

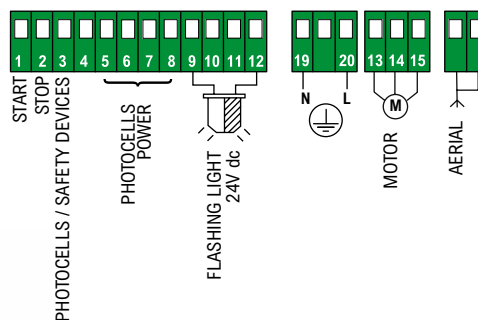
Control board powered at 230V

Motor powered at 230V

Capacity: 48 codes



### WIRING



### MAIN FEATURES

NC/NO inputs can be programmed according to the features of the wired device.

Programming display for quicker commissioning and troubleshooting.

Stop command function through remote control.

Output for courtesy light with adjustable time settings and remote control command.

Infrared photocells input with 8K2Ω safety edge wiring option.

Dead-man command function through remote control command for opening or closing.

230V or 24V Flashing light/courtesy light output.

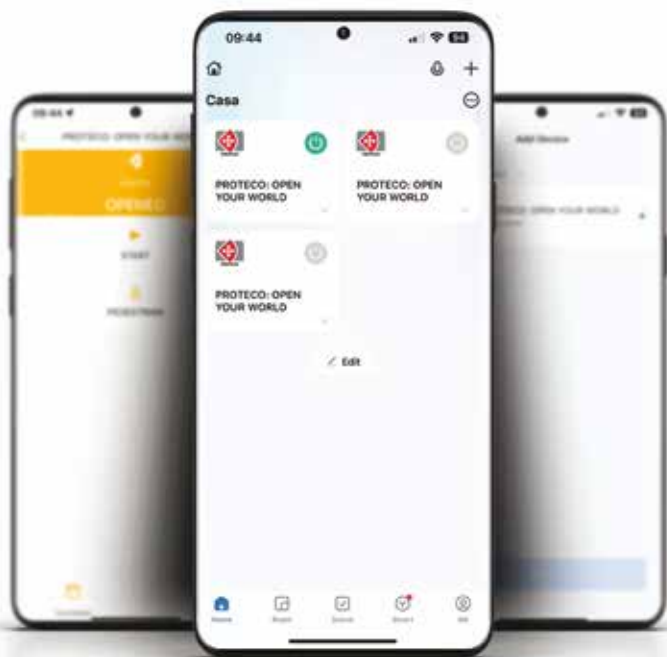
NC inputs for safety devices can be managed through programming keys, no by-pass jumpers needed.

Built-in radio receiver with storage up to 100 different user codes and single code deleting parameter.



# Safety **Accessories**





## The Proteco End-User App for Automation Control via Smartphone and Tablet.

### Manage Multiple Installations from a Single App

Monitor and control all your gates and doors remotely, all in one intuitive platform.

### Real Time Control

Check the status of your gate anytime and open or close it with just one click wherever you are. Fast and effortless.

### Flexible Access Sharing

Grant family members or friends access to open and close gates or garage doors even for limited periods of time.

### Smart Scheduling

Use the calendar option to set predefined opening and closing times, to perfectly match your weekly routine.

### Instant Alerts

Receive notifications whenever your gate is opened or closed while you are away and be updated in case of faults.

### One App. Endless Possibilities.

*Proteco Open Your World* is available on the App Store and Google Play, powered by Tuya's Smart Life platform. It's also compatible with other smart home and business systems such as outdoor lighting, irrigation, or awnings.



## Technology that supports you anywhere

**Smartbox**

PQSB02



A universal interface that lets you control all existing automation systems equipped with Q80, Q60, and Q20 control units through the *Proteco Open Your World* App.

**Smartkey**

PQSK02



Advanced plug-in interface for managing MATRIX and S\_PARK automations via *Proteco Open Your World* App

## Transmitters

### Angie



| Model        | ANGIE             | ANGIE-R      |
|--------------|-------------------|--------------|
| Battery      | A23/23A           | A23/23A      |
| Frequency    | 433.92 MHz        | 433.92 MHz   |
| Channels     | 4                 | 4            |
| Type of code | Random fixed code | Rolling-code |

4-ch remote control.  
Compatible with any Proteco systems.  
Extended radio range.  
Available in fixed code or rolling code version.

### TX4334



| Model        | TX4334                  |
|--------------|-------------------------|
| Battery      | A23/23A                 |
| Frequency    | 433.92 MHz              |
| Channels     | 3+1                     |
| Type of code | Dip-switches fixed code |

3-key remote control, 4 channels.  
Compatible with any Proteco systems.  
Dip-switches fixed code.

### Ikon



| Model        | IKON                     |
|--------------|--------------------------|
| Battery      | 3V Litium, CR2032        |
| Frequency    | 433,92 MHz $\pm$ 100 KHz |
| Channels     | 4                        |
| Type of code | Random fixed code        |

4-channel radio remote control.  
Sleek design, ergonomic grip with chrome details.  
Extended radio signal and self-learning function to work with Angie and TX4334 remote controls.  
Fully compatible with all Proteco automations.

### Ikon 868



| Model        | IKON 868                 |
|--------------|--------------------------|
| Battery      | 3V Litium, CR2032        |
| Frequency    | 868,35 MHz $\pm$ 100 KHz |
| Channels     | 4                        |
| Type of code | Random fixed code        |

4-key remote control with random generate fixed code.  
Sleek design, ergonomic grip and chrome details.  
868MHz radio frequency is particularly suitable to overcome radio interferences in case of 433MHz oversaturation areas.  
Compatible with Proteco Q80, Q81 and Q20 control unit series through optional plug-in 868MHz radio receiver interface.

## Antennas

### ANT02



Stand-alone antenna.  
Provided with fittings (fixing support and coaxial cable 3.5 m length).  
Radio frequency 433.92 MHz.

## Radio receivers

### RX 433

Stand-alone radio receiver mounting, complete with case and aerial.  
Available in 1 or 4-channel version.  
Optional memory card with 512 code storage capacity.  
Power supply 12/24V ac/dc.



| Model    | Power supply | Frequency  | Storage Channel | capacity |
|----------|--------------|------------|-----------------|----------|
| RX 433 1 | 12/24V ac/dc | 433.92 MHz | 1               | 64       |
| RX 433 4 | 12/24V ac/dc | 433.92 MHz | 4               | 64       |

### MRXQ02

Plug-in 868MHz radio card for Q90, Q80, Q81 e Q820 control units



## Keypads

### RT37



Wireless keypad.  
Backlight for easy visibility and sound touch.  
IP protection IP65.  
Battery powered (batteries included).  
Radio frequency 433 MHz.

### RT42



Wired 12/24V ac/dc digital keypad with backlit keys.  
Resin-coated for maximum protection against dust and wet weather (IP66).  
Relays' working time adjustable from one to 99 seconds.  
It can be used with a timer device to manage access timetable.  
Double channel outputs, 2A each. NO and NC contacts.  
Memory can store up to 60 different user codes (from one to 8 digits)  
Alarm buzz after 8 wrong code access attempts.

### RT40



Vandal-proof digital keypad with transponder.  
Wired 12/24V ac/dc digital keypad with metal case and backlit keys.  
Sleek design and slim shape to suit any kind of pillar design and dimension.  
Access control through PIN code or tag reader, it can store up to 1000 different user codes.  
Resin-coated circuit board and galvanized metal inishing ensuring maximum protection against dust and wet weather (IP66).  
Relay's working time (max 2A) adjustable from one to 99 seconds.  
STANDALONE operation mode through on board outputs (NO e NC).  
Optional WIEGAND interface module available for tamper-proof wiring.

#### RT43



#### KRT43001

10 pcs Tag buttons (125 KHz) set for **RT40** digital keypad transponder

## Key switches

### PRS2PAI



2-micro key selector with European DIN cylinder.  
Vandal-proof metal case and wide internal space for wiring.  
Plug-in micro support to make installation and electrical connections more installer-friendly.  
Double wiring option: on the rear or lower side of the key switch.  
L 72mm x H 72mm x D 48mm - IP 54

### RS15 - 16



#### RS15

Key switch, 1 micro.  
Wall-mounting and/or on metal post.

#### RS 16

Key switch, 2 micros.  
Wall-mounting and/or on metal post.

### RS10



Metal coated post.  
For **RS15** and **RS16** key switches  
Height 110 cm.





## Sensors

### RF40



Wired infrared photocell.  
Wall or RF12 iron post mounting.  
Power supply 12/24V ac/dc.

### RF12



Metal coated post  
for RF40 and RF38  
sensors.  
Post height 55 cm.

### RF38



180° orientable photocell.  
Wall and/or RF12 iron post mounting.  
Power supply 12/24V ac/dc.

### RF33



Wireless safety photocell.  
Adjustable up to 90°.  
Battery-powered transmitter.  
Input for safety edges.  
Power supply 12/24V ac/dc.  
Batteries included.

### RF02



Recessed safety photocell.  
Adjustable orientation.  
Power supply 12/24V ac/dc.

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## Flashing lights

### Luce



Sleek design, LED flashing light suitable for all installations.  
Long life and low consumption (2.5W).  
Power supply 24V ac/dc.  
Available in amber yellow or anthracite grey look.





## Safety edges

### RC22



Electro-mechanical safety edge.  
Rubber profile 25 mm.  
Suitable both for garage doors and traffic barriers.  
Complete with aluminium support, sensor and wire (2.5 m).  
Profile length 2.5 m.

### RC23



Resistive mechanical safety edge.  
Suitable both for swing and sliding gates.  
Resistive 8K2 wired system (fail-safe).  
Complete with aluminium support, sensor and wire (2 m).  
Rubber profile 60 mm.  
Profile length 2 m.

### CM24



Sensitive edge with conductive technology suitable for swing and sliding gates.  
Certified, impact detection on the whole profile length, 8K2 resistance.  
Rubber profile 61 mm width.  
Provided with aluminium support.  
Profile 1,6 m long (it can be shortened).

### CM25



Sensitive edge with conductive technology suitable for swing and sliding gates.  
Certified, impact detection on the whole profile length, 8K2 resistance.  
Rubber profile 61 mm width.  
Provided with aluminium support.  
Profile 2 m long (it can be shortened).

### CM26



Sensitive edge with conductive technology suitable for swing and sliding gates.  
Certified, impact detection on the whole profile length, 8K2 resistance.  
Integrated radio transmitter, frequency 868MHz (to be fitted with CMQ01 receiver).  
Nominal range 50 m.  
Battery (2 AA lithium, shelf life about 2 years)  
Rubber profile 61 mm width.  
Provided with aluminium support.  
Profile 2 m long (it can be shortened)

### CM27



Shock absorber rubber edge, compact design.  
Suitable for swing and sliding gates as optional accessory to minimize possible impacts.  
Provided with aluminium support.  
Profile 2 m long (it can be shortened).

### CMQ01



Radio receiver for safety edge, type CM26.  
Frequency 868 MHz.  
Capacity: 6 radio transmitters  
3 relay outputs (2 dry contacts /8K2, 1 relay low battery).

## Loop detectors

### MG04



Magnetic loop detector.  
1 channel.  
1 presence relay + 1 pulse relay.  
Adjustable sensitivity at 4 different levels.  
Max. cable length 250 m.  
Power supply 24V ac/dc.

### MG05



Magnetic loop detector.  
2 channels.  
1 presence relay + 1 pulse relay.  
Adjustable sensitivity at 4 different levels.  
Max. cable length 250 m.  
Power supply 24V ac/dc.



# TERMS & CONDITIONS

## 1. PREAMBLE:

**1.1** The present General Conditions of Sale, having as subject all kind of products supplied by **Proteco S.r.l.**, shall regulate all present and future contracts of sale between Proteco S.r.l. and the Purchaser.

Any modification or deviation from the present general conditions of sale shall be made in writing.

## 2. ORDERS:

**2.1** The purchase orders collected by **Proteco S.r.l.** or by his agents and/or commercial intermediaries became binding only at the moment when the Purchaser receives the written order confirmation of **Proteco S.r.l.**.

**2.2** The forwarding of an order by the Purchaser as well as his acceptance of an offer, however effected, shall involve his adhesion to the present General Conditions of Sale.

## 3. CONFORMITY OF THE PRODUCTS:

**3.1** **Proteco S.r.l.** represents that the products are in compliance with EU Directives, Regulations and Italian technical rules applicable to the products including those regarding safety and pollution.

Proteco S.r.l. does not guarantee the compliance of the products with the laws and technical rules in force in the Purchaser's country.

**3.2** Any other data or parameter indicated in Proteco's advertising, commercial documents or other Proteco's documents of sale or deducible from the samples delivered by the Proteco S.r.l. will constitute only an approximate guide and they do not represent, in any case, a parameter for an evaluation of the compliance of the products.

## 4. PRICES AND PAYMENT:

**4.1** The prices are those indicated in the Proteco's price list as in force from time to time.

They are expressed in Euro and they are intended excluded from any national and foreign taxes and duties.

Any special characteristics, options, modifications required by the Purchaser shall be charged separately and added to the price list.

**4.2** Unless differently agreed payments shall be made by means of bank transfer in advance, before delivery date, into the bank account indicated by the **Proteco S.r.l.** or by means of an irrevocable letter of credit to be confirmed by an Italian leading bank, cashable at sight against shipping documents, according to the text and characteristics required by the Proteco S.r.l..

**4.3** In case of late payment Proteco S.r.l. may, after having notified the Purchaser in writing, suspend his performance of the contract until he receives payment or adequate banking guarantees covering the whole outstanding debt.

## 5. RESERVATION OF TITLE:

**5.1** The Products shall remain the property of Proteco S.r.l. until paid for in full.

## 6. DELIVERY:

**6.1** Unless differently agreed the delivery of the products shall be made FCA **Proteco** warehouse in accordance with International Chamber of Commerce Incoterms Revision 2020 which shall be deemed incorporated by reference into these General Conditions of Sale.

**6.2** In case it is agreed that the shipment (or part of it) will be effected by Proteco S.r.l., this latter shall act as agent of the Purchaser being agreed that the shipment shall be done at the whole risk and charge of the Purchaser. Partial deliveries are allowed.

**6.3** The delivery date shall be indicated under the Proteco's order confirmation. In any case, **Proteco S.r.l.** is entitled a period of grace of 30 working days as of the expiry of the delivery date provided for in the order confirmation.

Expired the aforesaid term of grace the **Proteco S.r.l.** shall pay Purchaser a lump sum of 0,2% of the price of the Products delayed for each full week of delay as compensation for the damages caused by the delay up to the maximum limit of 2% of the price of the products subject of delayed delivery.

Any further compensation for damages suffered by the Purchaser in consequence of the delayed delivery is excluded.

## 7. GUARANTEE.

**7.1** Subject to conditions hereinafter set out, **Proteco S.r.l.** shall remedy any defect of the products resulting from faulty design, materials or workmanship.

The present undertaking is limited to those defects which appear within a period of 36 months for the mechanical components or 24 months for the electronic components from the date of production printed on each product.

All the guarantees provided for hereinafter are conditional on compliance with the operating and maintenance instructions supplied by **Proteco S.r.l.**.

The Purchaser shall notify in writing, by means of registered mail, of any defect within 10 working days from its discovery.

Lacking this the purchaser will loose its right to have the defect remedied according to this guarantee.

Upon receipt of such notice, the obligation of Proteco S.r.l. under this guarantee is limited to, at **Proteco's** choice, and subject to prior examination of the defective products to be sent at Purchaser's risk and expenses:

i) Replace the defective products, ii) repair them or iii) issue a statement of credit for the amount corresponding to the products found defective.

**Proteco S.r.l.** is not liable for defects caused by faulty assembling or maintenance of the products by the Purchaser or due to non compliance to the instructions for assembling, nor for defects caused by alterations carried out without **Proteco's** written consent.

The present guarantee provided hereinabove absorbs and supersedes any other legal, statutory or contractual guarantee.

The Purchaser, in particular, shall have no right to claim damages, included loss of production, loss of profit, loss of use, loss of contracts or for any consequential, economic or indirect loss whatsoever, reduction of price or resolution of the contracts.

## 8. PRODUCT'S LIABILITY:

**8.1** If **Proteco S.r.l.** incurs liability towards any third parties for product's liability he will be responsible only within the limit of amount and within the terms and conditions of his Product's liability insurance coverage.

## 9. GOVERNING LAW:

**9.1** All the sale contracts concluded by parties shall be governed by the present general sale conditions and, to the extent that such questions are not covered by the present general sale conditions, by Italian law.

## 10. DISPUTES RESOLUTION:

**10.1** For any disputes arising out of or in connection with this contract the courts of Asti (AT), Italy, shall have exclusive jurisdiction.

[www.proteco.net](http://www.proteco.net)

www.proteco.net

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