



MADE TO LAST



CATALOGUE


Integrated systems for the automation of swing and sliding gates , garage doors, road barriers, shutters and shutters.




www.proteco.net

RELIABILITY, SIMPLICITY, KNOW-HOW, TECHNOLOGY.

A complete range of automations designed to meet even the most difficult installation requirements, with simplicity and reliability over time.

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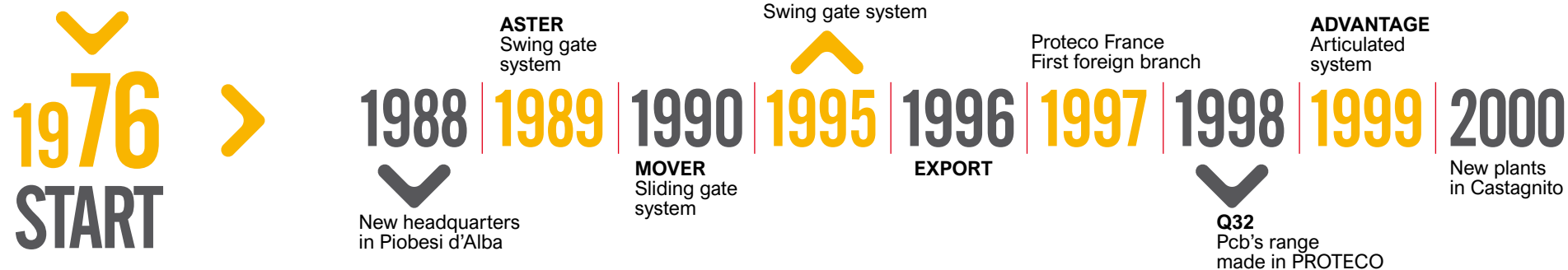
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The beginnings: 1976 - 2000



EXPERIENCE

GATE AUTOMATION, A step back in time over through the past 40 years

From the very beginning, the company has been driven by continuous innovative commitment, investing in long lasting reliable systems, designed around the installer's needs.

The focus on quality and future result marked the start of a period of international expansion in more than 50 countries world wide.



Transformation: 2001 - 2022

WHEELER
Wheel-driven system



2001

2004

ACE
Swing gate system

SHARK
Underground system

2009

2011



DIY distribution

MEKO
Sliding gate system

2013

2014

Software
EN tested

**ISO 9001
CERTIFIED**



2015

2017

New safety
accessories

Q20 - 24V
New pcb's range

2018

2020

**BRUSHLESS
REVOLUTION**
Matrix - S-Park

**NEW
ASTER**

2021

2022

**NEW
LEADER**



100%

Made in Italy

Timeless addiction

In times in which quick global changes have been in progress, our resilient Italian nature stood the test of time.

We firmly believe in the importance of creating excellence starting from a project and take it to the end, being part of every single step of the way through.

For us compliance, after sale assistance, flexibility and quick delivery service, means securing our customers a long-term success.

PROTECO

Not just a company but people

Human resources are an integral part of our company's values: passionate about **raising new ideas**, taking every challenge each market presents, **working side by side to customers**, with devotion and professionalism.





TECHNOLOGY

A new pcb's generation concept

Proteco brings together comprehensive expertise in automation technology with hardware and software, to offer **complete user friendly intuitive solutions**.

A target vision future oriented to grant our partners comfort and safety.

HARDWARE

Endless passion for excellence

Proteco strongly believes that a careful selection of raw materials is an unquestionable compromise needed to do business successfully in the long-term.

A long lasting performing system is not just a company's goal but most importantly a further improvement in terms of customer satisfaction and environmental protection.





Proteco Open your world

**COMFORT
AND SAFETY
IN YOUR
HANDS**

Wish to control
your gate and
garage door when
you are not at home?

Now with Proteco Smart Kit and Proteco Smart Key
you can: the new interface devices that allow to manage
any automated access via smartphone.

With  Proteco Open Your World
you just need one click!

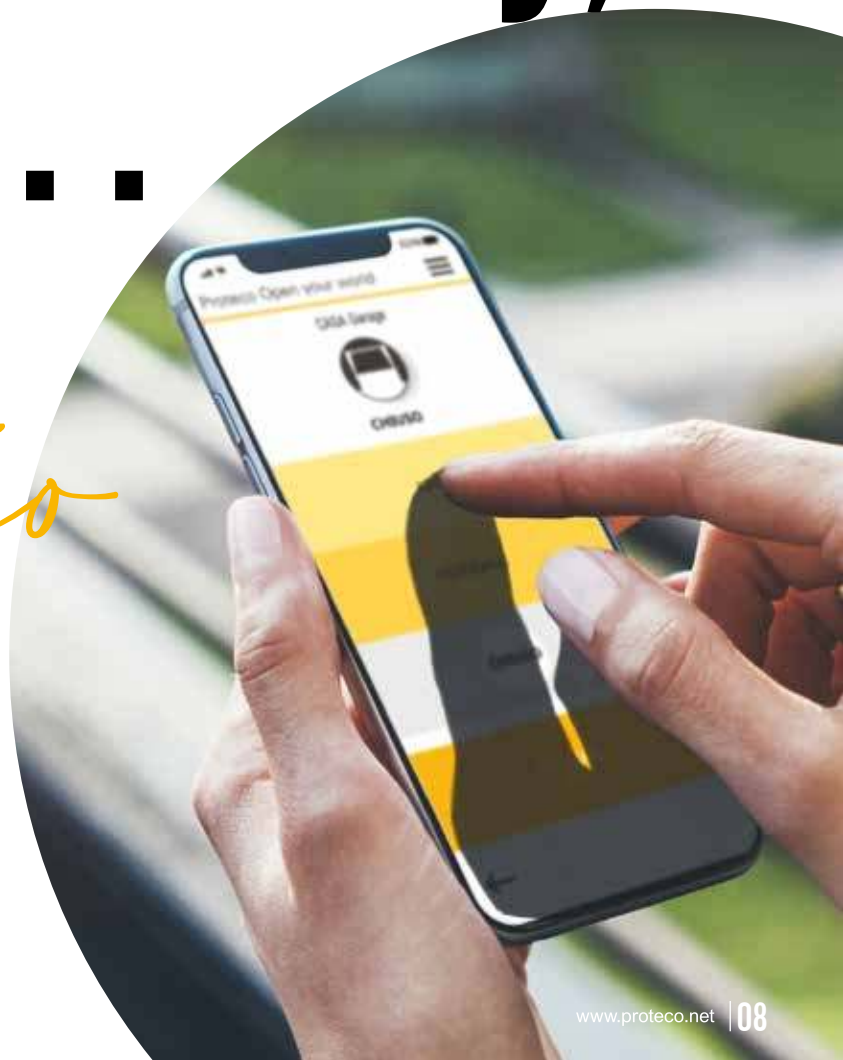
Whenever and wherever you are you can:

- open your gate
- check the status of your automation
- set multiple scenarios in a single app to control all your systems
- be alerted when your gate receives an opening command
- let other users to open your home or company gate

Proteco Open your world is available for Android and
IOS smartphones and is compatible with the major home
automation systems.

Eazy, user friendly, safe...

Proteco



SWING gate automation



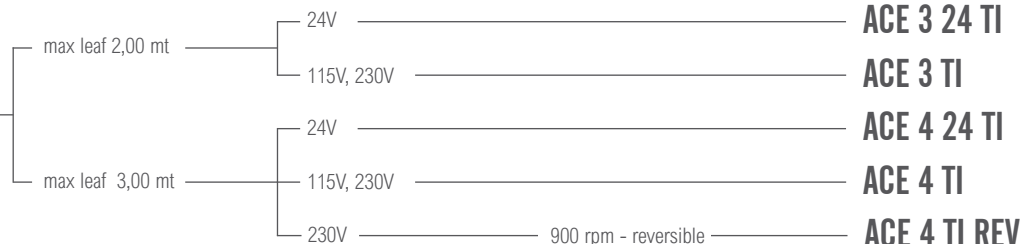


SWING gate SELECTION GUIDE



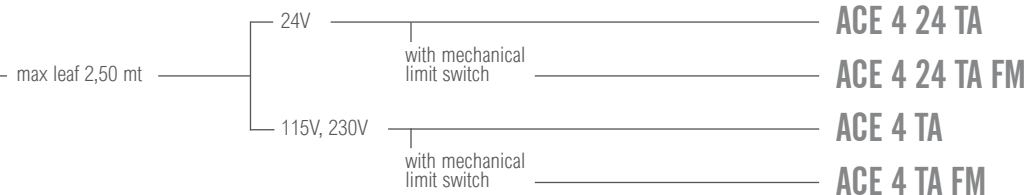
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ACE TI



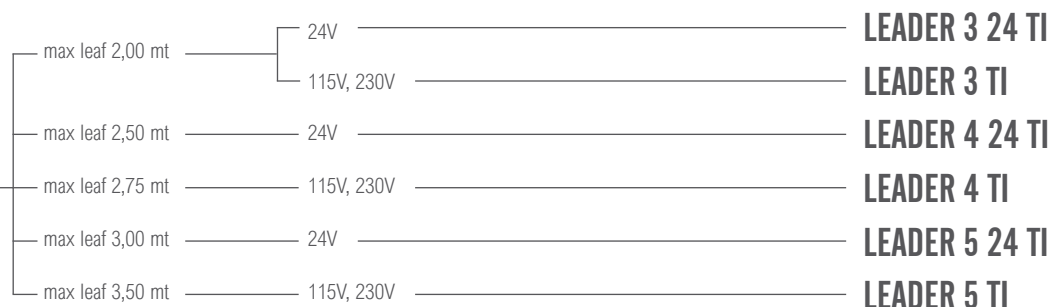
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ACE TA



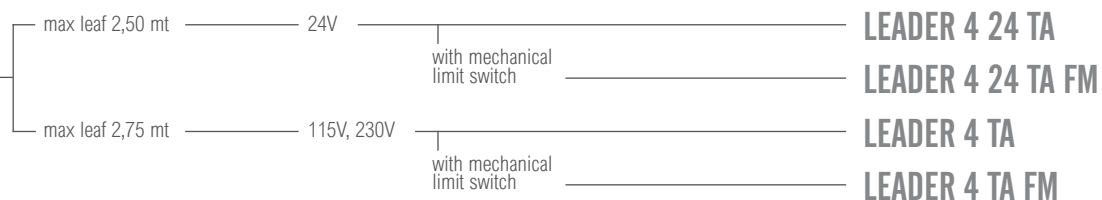
p. 17-18

LEADER TI



p. 19-20

LEADER TA



SWING gate

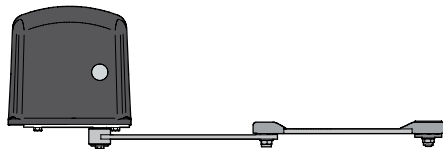
SELECTION GUIDE



p. 21-22

ASTER

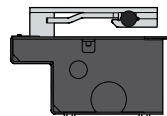
max leaf 2,00 mt	24V	ASTER 3 24
	115V, 230V	ASTER 3
	230V — 900 rpm	SLOWER 3
max leaf 2,50 mt	24V	ASTER 4 24
max leaf 2,75 mt	115V, 230V	ASTER 4
	230V — 900 rpm	SLOWER 4
	reversible	FREEDER 4
max leaf 3,00 mt	24V	ASTER 5 24
max leaf 3,50 mt	115V, 230V	ASTER 5
max leaf 4,00 mt	230V	ASTER 6



p. 23-24

ADVANTAGE

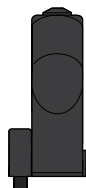
max leaf 2,00 mt	24V	ADVANTAGE 24
	230V	ADVANTAGE



p. 25-26

SHARK

max leaf 2,50 mt	24V	SHARK 24
max leaf 3,00 mt	230V	SHARK



p. 27-28

WHEELER

max leaf 150 Kg	24V	locked	WHEELER 24 B
max leaf 150 Kg	230V	locked	WHEELER 230 B
		reversible	WHEELER 230 R
max leaf 150 Kg	115V	locked	WHEELER 115 B

ACE TI

Electromechanical operator for swing gate leaves up to 3 m.

230V - 115V - 24V

Slick design, silent and linear movement.

Die-cast aluminum supporting half-shells, bronze transmission shaft.

Suitable to any context, easier installation and start-up.

Ideal solution for residential, industrial and apartment block settings.

Available in reversible mode, powered at 230V.

Key-lock release system, protected by an encrypted key.

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

THE RANGE

	Power supply		Leaf	
ACE 3 TI	230V/115V	locked	2,0 m	350 Kg
ACE 4 TI	230V/115V	locked	3,0 m	400 Kg
ACE 4 TI REV	230V	reversible	3,0 m	350 Kg
ACE 3 TI 24	24V	locked	2,0 m	250 Kg
ACE 4 TI 24	24V	locked	3,0 m	300 Kg



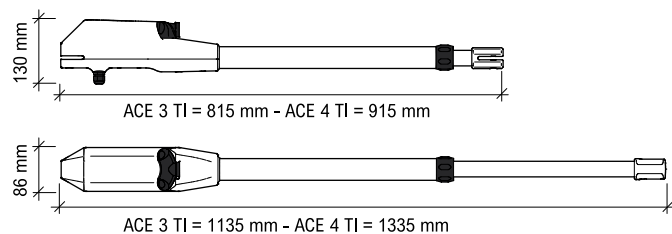
TECHNICAL FEATURES

	ACE 3	ACE 4	ACE 4 REV	ACE 3 115	ACE 4 115	ACE 3 24	ACE 4 24
Power supply	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz	115V ~ 60Hz	115V ~ 60Hz	24V dc	24V dc
Current	1.2 - 1.7A	1.2 - 1.7A	1.2 - 1.7A	3.1 - 3.3 A	3.1 - 3.3A	0.5 - 0.75A	0.5 - 0.75A
Motor power	300 W	300 W	250 W	300 W	300 W	50 W	50 W
Capacitor	10 µF	10 µF	8 µF	20 µF	20 µF	--	--
Thermic protection	150°C	150°C	150°C	150°C	150°C	--	--
Max thrust	3000 N	3000 N	2500 N	3000 N	3000 N	2500 N	2500 N
IP class protection	44	44	44	44	44	44	44
Revolution speed	1400 rpm	1400 rpm	900 rpm	1700 rpm	1700 rpm	1600 rpm	1600 rpm
Max opening angle	100°	100°	100°	100°	100°	100°	100°
90° opening time	17"	22"	22"	15"	18"	15"	20"
Max leaf weight	350 Kg	400 Kg	350 Kg	350 Kg	400 Kg	250 Kg	300Kg
Max leaf length	2 m	3 m	3 m	2 m	3 m	2 m	3 m
Duty cycle	40%	40%	40%	40%	40%	80%	80%

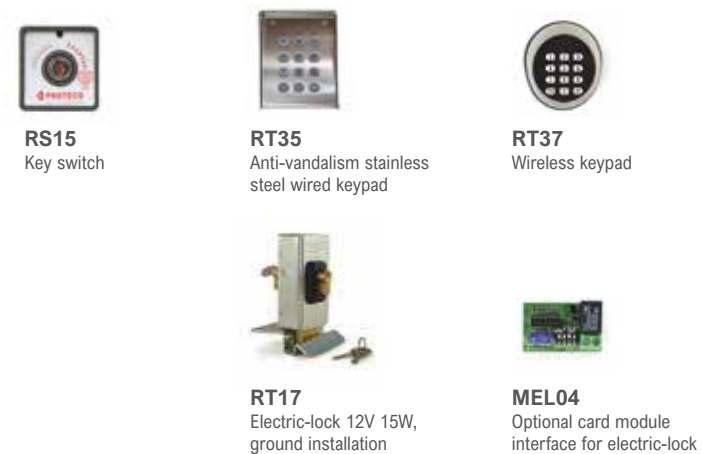
KIT CONTENT



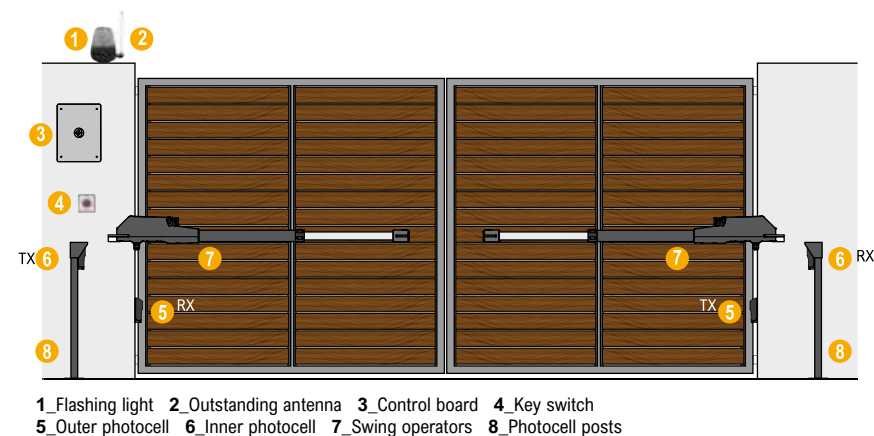
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



ACE TA

Electromechanical operator for swing gate
leaves up to 2,5 m.

230V - 115V - 24V

Slick design, silent and linear movement.
Die-cast aluminum supporting half-shells, bronze transmission shaft.
Suitable to any context, easier installation and start-up.
Ideal solution for residential, industrial and apartment block settings.
FM version, integrated with on-board mechanical stops, for controlling gate travel.
Key-lock release system, protected by encrypted key.
The 24V range can operate in emergency mode during power outages by back-up batteries.

THE RANGE

	Power supply		Leaf	
ACE 4 TA	230V-115V	locked	2,5 m	350 Kg
ACE 4 TA FM	230V-115V	locked	2,5 m	350 Kg
ACE 4 TA 24	24V	locked	2,5 m	200 Kg
ACE 4 TA 24 FM	24V	locked	2,5 m	200 Kg



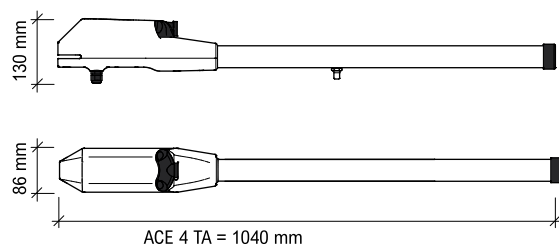
TECHNICAL FEATURES

	ACE 4 TA	ACE4 TA 115V	ACE4 TA 24V
Power supply	230V ~ 50Hz	115V ~ 60Hz	24V dc
Current	1.2 - 1.7A	3.1 - 3.3A	0.5 - 0.75A
Motor power	300 W	300 W	50 W
Capacitor	10 µF	20 µF	--
Thermic protection	150°C	150°C	--
Max thrust	3000 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"	20"
Max leaf weight	350 Kg	350 Kg	200 Kg
Max leaf length	2,5 m	2,5 m	2,5 m
Duty cycle	40%	40%	80%

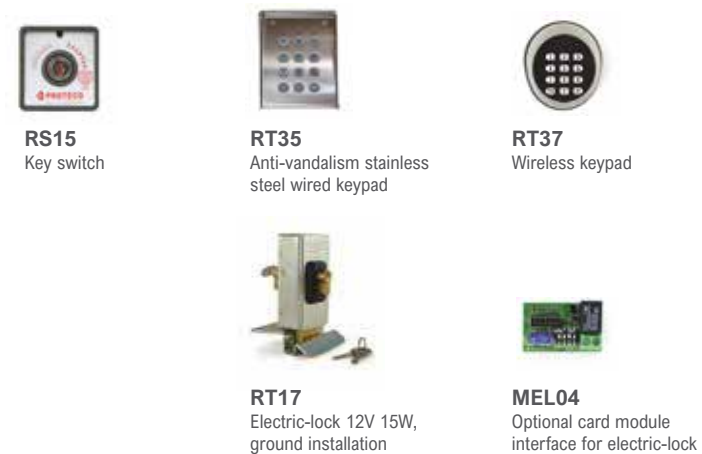
KIT CONTENT



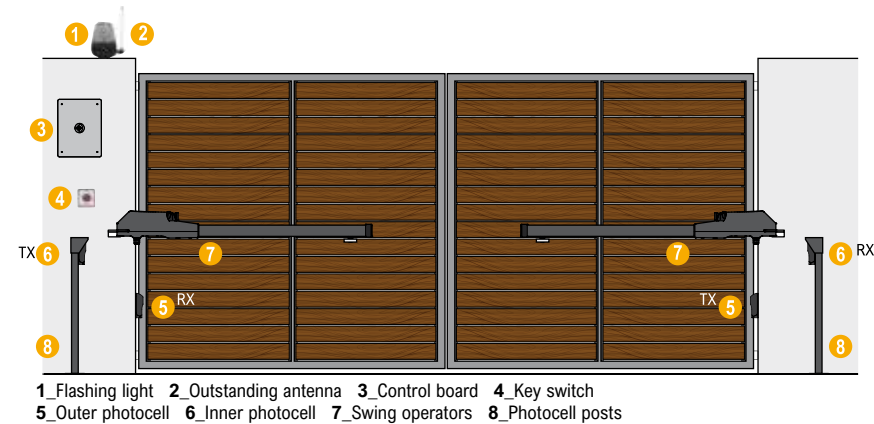
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



LEADER TI



Electromechanical operator for swing gate leaves up to 3,5 m.

230V - 115V - 24V

Slick design, silent and powerful performance.
Fully covered and protected endless screw, bronze transmission shaft.
Suitable to any context, easier installation and start-up.
Particularly suitable for reduced space installations.
Ideal solution for residential, industrial and apartment block settings.
Key-lock release system, protected by encrypted key.
The 24V range can operate in emergency mode during power outages by back-up batteries.

THE RANGE

	Power supply		Leaf	
LEADER 3 TI	230V-115V	locked	2,0 m	350 Kg
LEADER 4 TI	230V-115V	locked	2,75 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



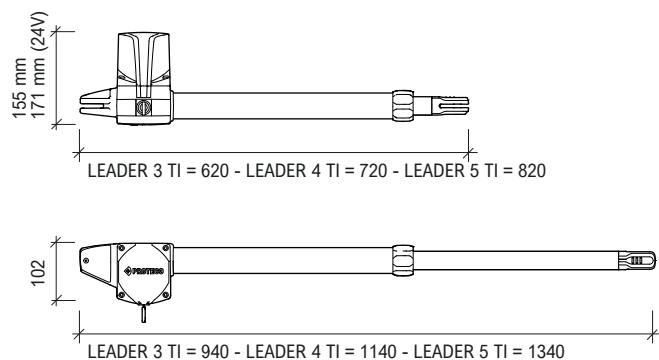
TECHNICAL FEATURES

	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	1700 rpm	1700 rpm	1700 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	2.75 m	3.5 m	2 m	2.75 m	3.5 m	2 m	2.5 m	3 m
Duty cycle	40%	40%	40%	40%	40%	40%	80%	80%	80%

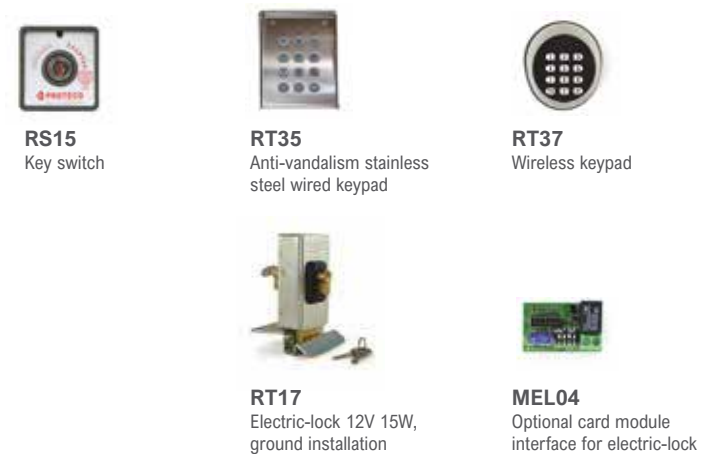
KIT CONTENT



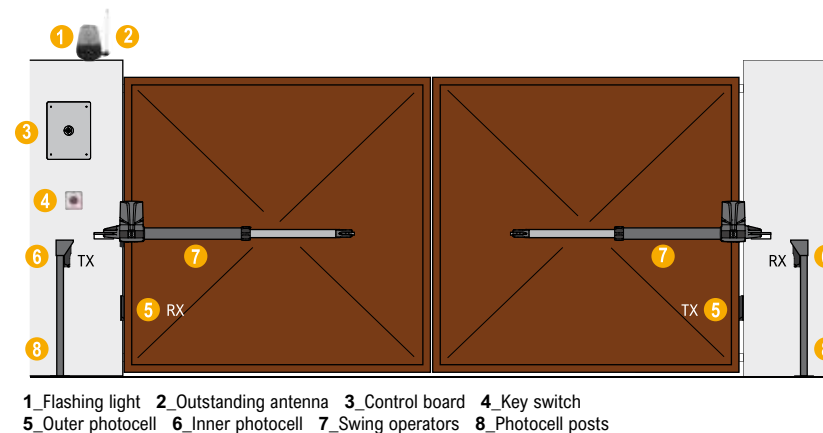
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



LEADER TA



Electromechanical operator for swing gate leaves up to 2,8 m.

230V - 115V - 24V

Slick design, silent and powerful performance.
Fully covered and protected endless screw, bronze transmission shaft.
Suitable to any context, easier installation and start-up.
FM version, integrated with on-board mechanical stops, for controlling gate travel.
Ideal solution for residential, industrial and apartment block settings.
Key-lock release system, protected by encrypted key.
The 24V range can operate in emergency mode during power outages by back-up batteries.

THE RANGE

	Power supply		Leaf	
Leader 4 TA	230V/115V	locked	2,75 m	300 Kg
Leader 4 TA FM	230V/115V	locked	2,75 m	300 Kg
Leader 4 TA 24	24V	locked	2,5 m	200 Kg
Leader 4 TA 24 FM	24V	locked	2,5 m	200 Kg



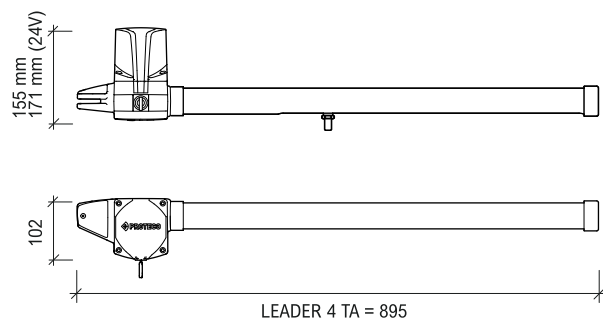
TECHNICAL FEATURES

	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	1700 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	2.75 m	2.75 m	2.5 m
Duty cycle	40%	40%	80%

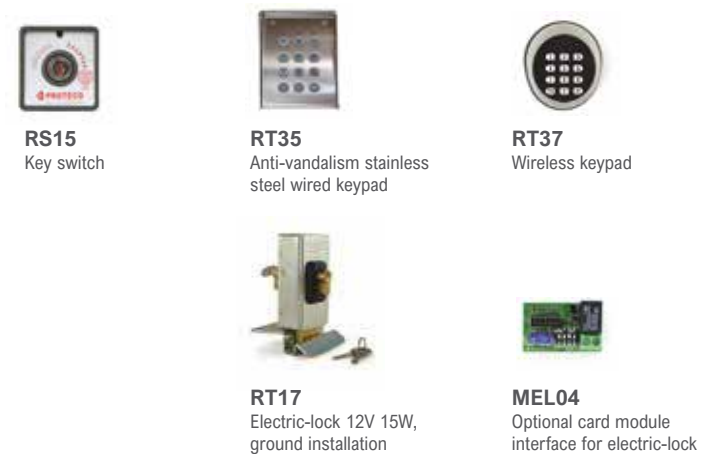
KIT CONTENT



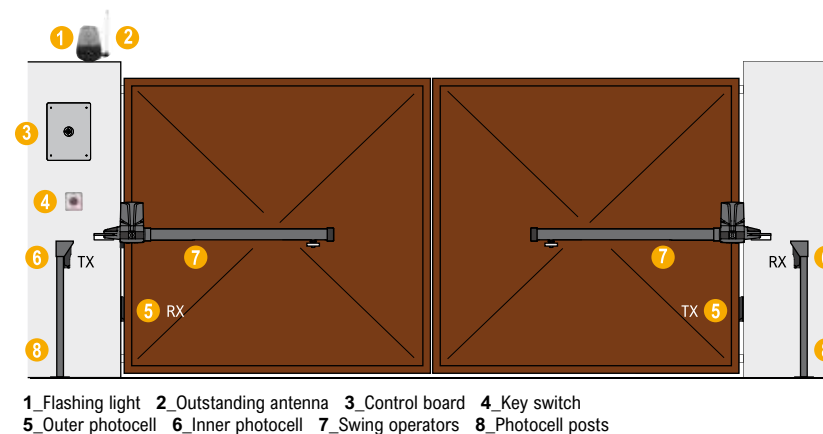
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



ASTER



Electromechanical operator for swing gate leaves up to 4 m.

230V - 115V - 24V

Compact design, silent and powerful performance.
Fully covered and protected endless screw, bronze transmission shaft.
Suitable to any context and weather conditions, easier installation thanks to multi-position brackets and wide choice of systems.
Particularly suitable for reduced space installations.
Ideal solution for residential, industrial and apartment block settings.
User-friendly release system.
The 24V range can operate in emergency mode during power outages by back-up batteries.

THE RANGE

	Power supply		Leaf	
ASTER 3	230V/115V	locked	2,0 m	350 Kg
ASTER 4	230V/115V	locked	2,75 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
SLOWER 3	230V	locked	2,0 m	300 Kg
SLOWER 4	230V	locked	2,75 m	300 Kg
FREEDER 4	230V	reversible	2,75 m	300 Kg

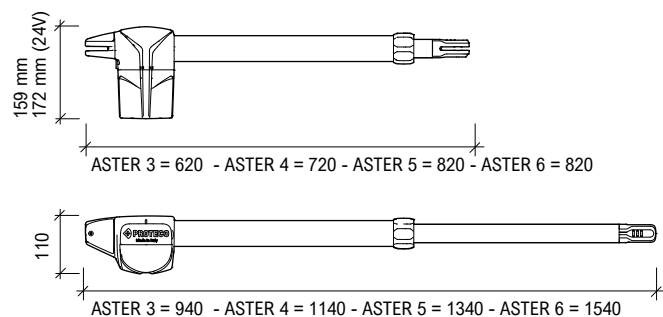
TECHNICAL FEATURES

	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	SLOWER 3	SLOWER 4	FREEDER 4
Power supply	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz	115V ~ 60Hz	115V ~ 60Hz	115V ~ 60Hz	24V dc	24V dc	24V dc	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz
Current	1.7A	2A	1.7A	1.7A	2.3A	2.3A	2.3A	0.75A	0.75A	0.75A	1.7A	1.7A	1.7A
Motor power	280 W	280 W	280 W	280 W	300 W	300 W	300 W	50 W	50 W	50 W	250 W	250 W	250 W
Capacitor	8 µF	8 µF	8 µF	8 µF	30 µF	30 µF	30 µF	-	-	-	8 µF	8 µF	8 µF
Thermic protection	150°C	150°C	150°C	150°C	150°C	150°C	150°C	-	-	-	135°C	135°C	135°C
Max thrust	2800 N	2800 N	2800 N	2800 N	3000 N	3000 N	3000 N	2500 N	2500 N	2500 N	2500 N	2500 N	2500 N
IP class protection	44	44	44	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	1700 rpm	1700 rpm	1700 rpm	900 rpm	900 rpm	900 rpm
Max opening angle	100°	110°	110°	120°	100°	110°	110°	100°	110°	110°	100°	110°	110°
90° opening time	17"	22"	27"	32"	14"	18"	22"	13.5"	18"	22.5"	25"	34"	34"
Max leaf weight	350 Kg	350 Kg	250 Kg	250 Kg	300 Kg	300 Kg	200 Kg	275 Kg	250 Kg	150 Kg	300 Kg	300 Kg	300 Kg
Max leaf length	2 m	2.75 m	3.5 m	4 m	2 m	2.75 m	3.5 m	2 m	2.5 m	3 m	2 m	2.75 m	2.75 m
Duty cycle	40%	40%	40%	40%	40%	40%	40%	80%	80%	80%	40%	40%	40%

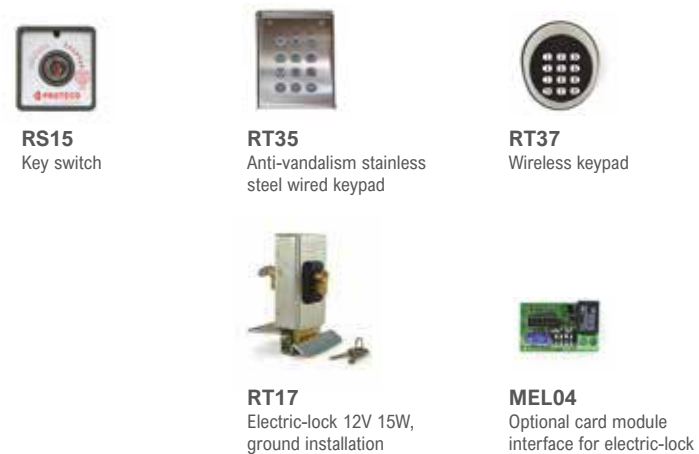
KIT CONTENT



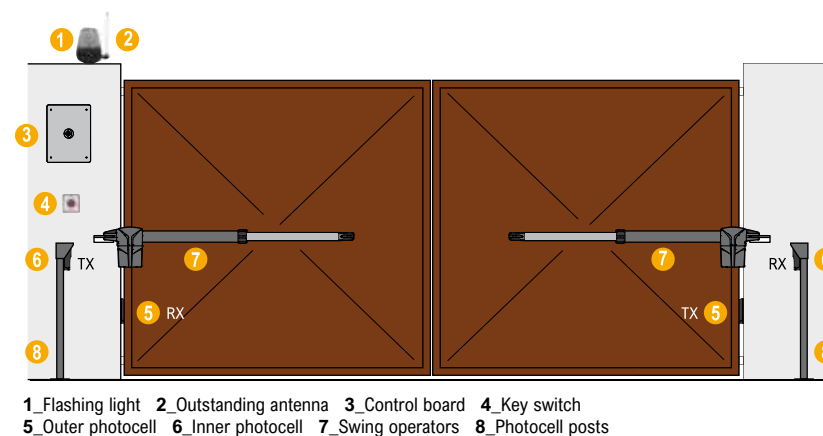
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



ADVANTAGE

Electromechanical articulated operator for swing gate leaves up to 2 m.

230V - 24V

Ideal for gates mounted on over-sized pillars.
Electric built-in limit switches grant smooth and silent movement, even on light-weight gates.
Robust articulated anti-shearing arm, available in two versions: short or long arm.
Embedded control board featuring obstacle detection.
Ideal solution for residential, industrial and apartment block settings.
User-friendly front release system.
The 24V range can operate in emergency mode during power outages by back-up batteries.

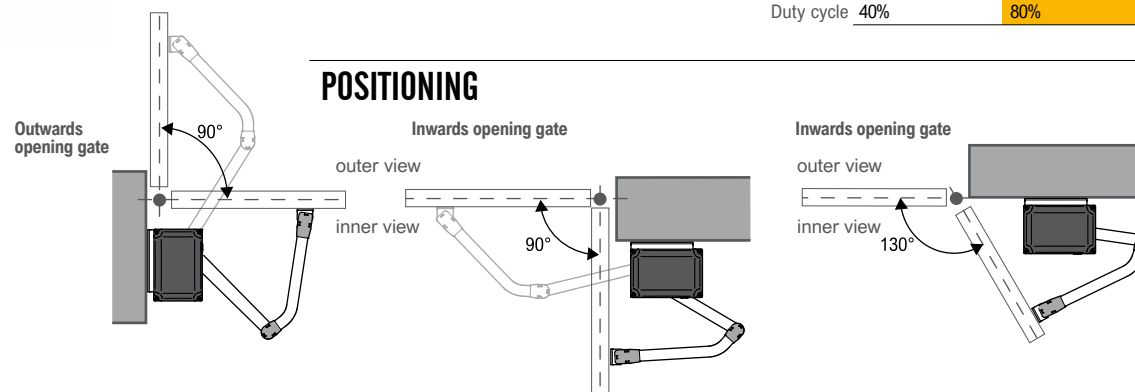
THE RANGE

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

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°	1130°
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%

POSITIONING



KIT CONTENT

ADVANTAGE

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



LUCE
LED 24V
flashing light



RF40
Photocell set

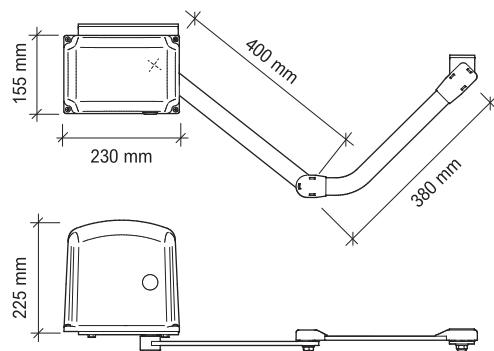


ANGIE
Pair of 4-ch
remote controls



ANT02
Outstanding
antenna

DIMENSIONS



OPTIONAL ACCESSORIES



RS15
Key switch



RT35
Anti-vandalism stainless
steel wired keypad



RT37
Wireless keypad



RT17
Electric-lock 12V 15W,
ground installation



MEL04
Optional card module
interface for electric-lock

INSTALLATION MAP



1_Flashing light 2_Outstanding antenna 3_LH operator featuring control board and radio receiver
4_RH operator Motoriduttore destro 5_Outer photocell 6_Inner photocell 7_Key switch 8_Phocell posts



SHARK

Electromechanical underground operator for swing gate leaves up to 3 m.

230V - 24V

The invisible solution for swing-gate operators.

High degree of protection against weathering, watertight motor completely in aluminum
Built-in opening and closing leaf stops for quick-and-easy adjusting of the leaf-stopping point.
A smooth, safe movement guaranteed in all working conditions. Gate leaf standard opening angle up to 100 degrees and up to 180° with adaptor (optional accessory).

Foundation box cataphoresis treated or inox.

Ideal solution for residential, industrial and apartment block settings.

Key-lock release system, protected by key.

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

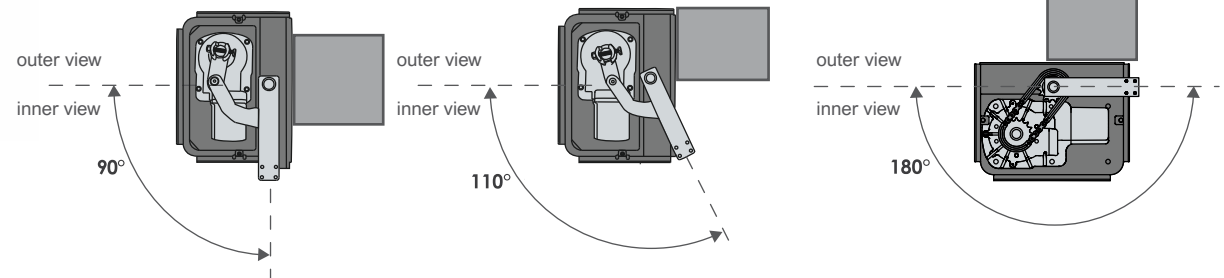
THE RANGE

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

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%

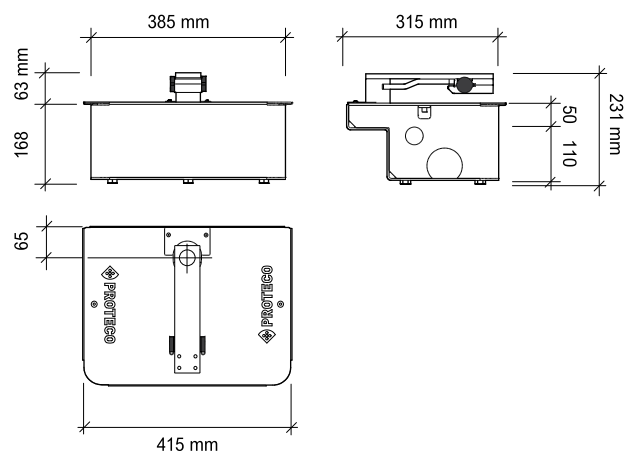
POSITIONING



KIT CONTENT



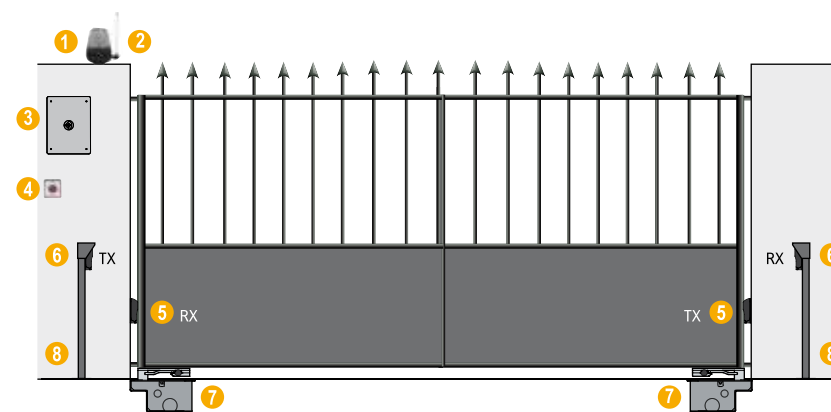
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP



WHEELER



Wheel-driven electromechanical opener for swing gates.

230V - 115V - 24V

Unlimited opening angles.
Ideal where traditional ram motors cannot be installed due to gates being fitted against a wall or other obstructions.
Suitable for long leaf and light gates, inward or outward opening.
Opens onto a sloping driveway up to 20cm in height difference.
Embedded key-lock release system.
The 24V range can operate in emergency mode during power outages by back-up batteries.

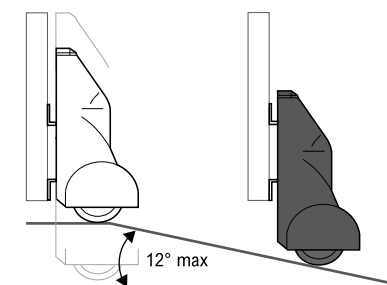
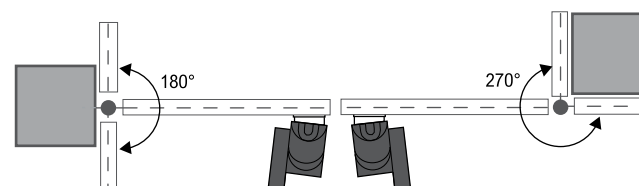
THE RANGE

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

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°

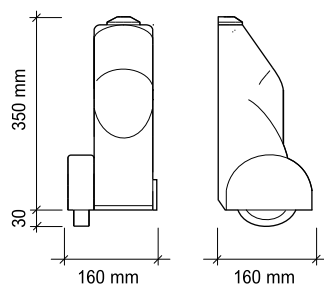
POSITIONING



KIT CONTENT



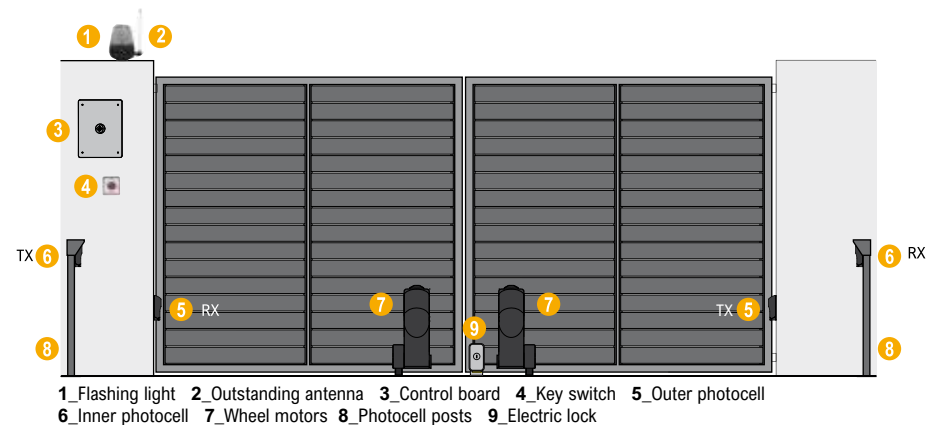
DIMENSIONS



OPTIONAL ACCESSORIES



INSTALLATION MAP

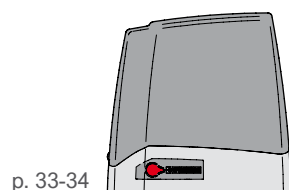


Sliding Gate Automation





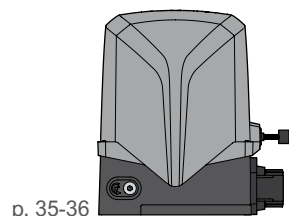
SLIDING gates SELECTION GUIDE



p. 33-34

MEKO

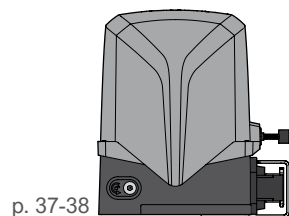
500 Kg	230V, 115V	mechanical limit switch	MEKO 5
600 Kg	24V	mechanical limit switch	MEKO 6
800 Kg	230V, 115V	mechanical limit switch	MEKO 8



p. 35-36

MOVER

500 Kg	230V, 115V	mechanical limit switch	MOVER 5
		magnetic limit-switch	MOVER MAG 5
650 Kg	24V	mechanical limit switch	MOVER 6
800 Kg	230V, 115V	mechanical limit switch	MOVER 8
		magnetic limit-switch	MOVER MAG 8
1500 Kg	230V, 115V	mechanical limit switch	MOVER 15
		magnetic limit-switch	MOVER MAG 15



p. 37-38

CAT

500 Kg	230V, 115V	mechanical limit switch	CAT 5
800 Kg	230V, 115V	mechanical limit switch	CAT 8

SLIDING gates SELECTION GUIDE



BRUSHLESS (R)EVOLUTION

p. 39-40



MATRIX

2500 Kg	230V	semi-intensive	MATRIX 25
1800 Kg	230V	semi-intensive	MATRIX 18
2500 Kg	48V	intensive	MATRIX BLDC
1800 Kg	48V	hi-speed	MATRIX HS

RACK



B102
Galvanised toothed 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

MEKO



Rack-driven motor for sliding gates up to 800 kg, residential settings.

230V - 115V - 24V

Slim elegant design, silent movement.
Noble metal gears, bronze transmission shaft.
Adjustable ground plate (horizontally and vertically).
Key-lock release system, protected by an encrypted key.
Embedded control board featuring obstacle detection and plug-in radio receiver.
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

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%

KIT CONTENT

MEKO

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



B120
4 m PVC rack



LUCE
LED 24V
flashing light



ANT02
Outstanding
antenna



ANGIE
Pair of 4-ch
remote controls



RF40
Photocell set

OPTIONAL ACCESSORIES



B102
Inox rack
12x30x1000 mm



RS15
Key switch



RT35
Anti-vandalism
stainless steel
wired keypad



RT37
Wireless keypad



CM24 - CM25
Certified resistive
safety edge



Q BAT 1.2
Battery
12V 1.2Ah

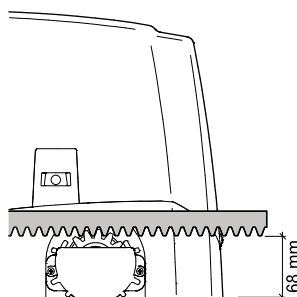
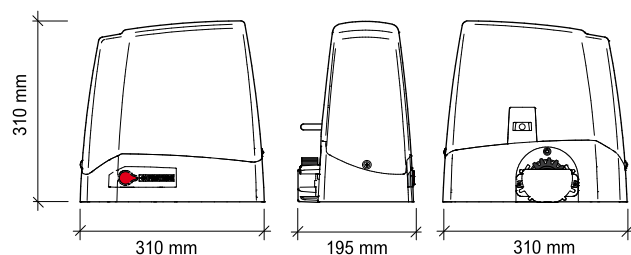


KBT001
Battery wiring
set for 24V system



MSU14
Battery fixing plate

DIMENSIONS



INSTALLATION MAP



1_Flashing light 2_Outstanding antenna 3_Gear motor complete with control board and radio receiver
4_Key switch 5_Outer photocell 6_Inner photocell 7_Safety strip 8_Photocell posts 9_Rack



MOVER



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

230V - 115V - 24V

Slick design, silent and powerful performance.
 Particularly suitable for reduced space installations.
 Noble metal gears, bronze transmission shaft.
 Adjustable ground plate (horizontally and vertically).
 User-friendly release system.
 Designed to fit both mechanical and magnetic limit switches.
 Embedded control board featuring obstacle detection and plug-in radio receiver.
 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
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

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 cyle	40%	80%	40%	40%	40%	40%	40%

KIT CONTENT

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



B120
4 m PVC rack



LUCE
LED 24V flashing light



ANT02
Outstanding antenna



ANGIE
Pair of 4-ch remote controls



RF40
Photocell set

OPTIONAL ACCESSORIES



B102
Inox rack
12x30x1000 mm



RS15
Key switch



RT35
Anti-vandalism stainless steel wired keypad



RT37
Wireless keypad



CM24 - CM25
Certified resistive safety edge



Q BAT 1.2
Battery
12V 1.2Ah



KBT001
Battery wiring set for 24V system

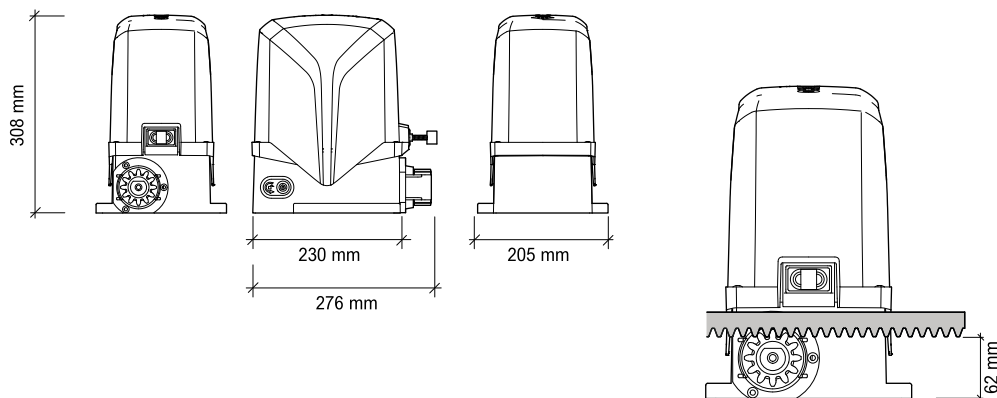


MSU14
Battery fixing plate for MEKO sliding motors range



PAR04
Housing for back-up batteries

DIMENSIONS



INSTALLATION MAP



1_Flashing light 2_Outstanding antenna 3_Gear motor complete with control board and radio receiver
4_Key switch 5_Outer photocell 6_Inner photocell 7_Safety strip 8_Photocell posts 9_Rack



CAT



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

230V - 115V

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.

Adjustable ground plate (horizontally and vertically).

User-friendly release system.

Embedded control board featuring obstacle detection and plug-in radio receiver.

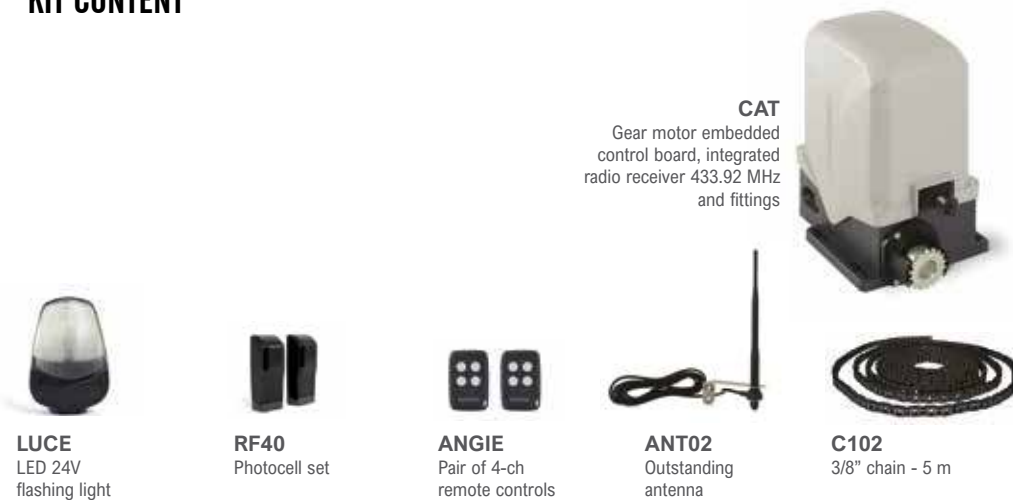
THE RANGE

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

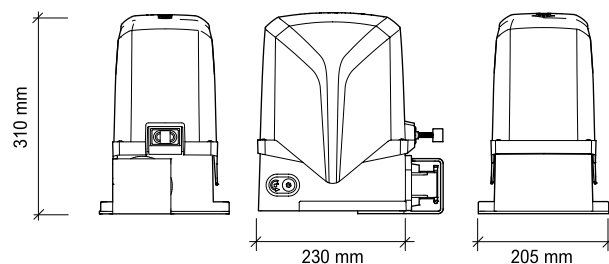
TECHNICAL FEATURES

	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%

KIT CONTENT



DIMENSIONS



OPTIONAL ACCESSORIES



RS15
Key switch



RT35
Anti-vandalism
stainless steel
wired keypad



RT37
Wireless keypad



CM24 - CM25
Certified resistive
safety edge

INSTALLATION MAP



1_Flashing light 2_Outstanding antenna 3_Gear motor complete with control board and radio receiver
4_Key switch 5_Outer photocell 6_Inner photocell 7_Safety strip 8_Photocell posts 9_Chain



MATRIX



Rack-driven motor for large sliding industrial gates in continuous duty conditions up to 2500 kg.

230V - 48V

Ideal solution for industrial and heavy duty applications.
 M4 inox cogwheel fitted on all systems, M6 inox cogwheel available as optional.
 Double start capacitor for extra-power during slowdown.
 Designed to fit both mechanical and magnetic limit switches.
 Embedded control board fitted on the upper side of the motor.
 Screen and programming keys protected to prevent accidental contacts.
 Smart adaptive torque technology, obstacle detection managed by "Hall effect" encoder system.
 Electronic inertia control.
 MEMO ADAPTIVE technology to fit in different weather conditions and to overcome friction changes, avoiding false-stop faults.
 TWINNING function to synchronize two mirror sliding gates

BRUSHLESS (R)EVOLUTION

6-STEPS digital motor for very heavy duty settings .
 HI-SPEED version with adjustable opening speed up to 20 m/minute for gates up to 1800 kg.
 A back-up battery kit can be integrated on board.

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

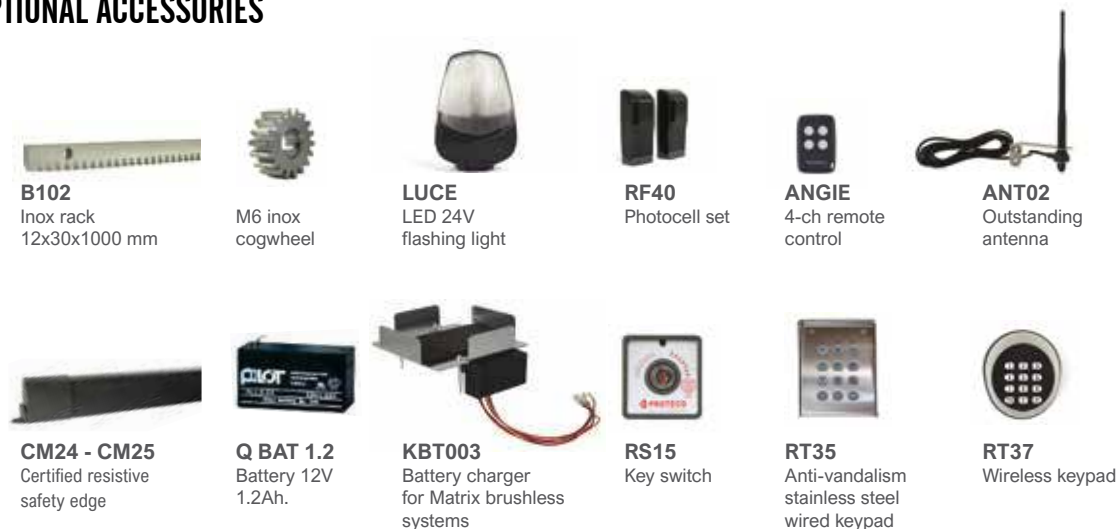
TECHNICAL FEATURES

	Matrix 25	Matrix 18	Matrix BLDC Intensive use	Matrix HS 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 012A
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

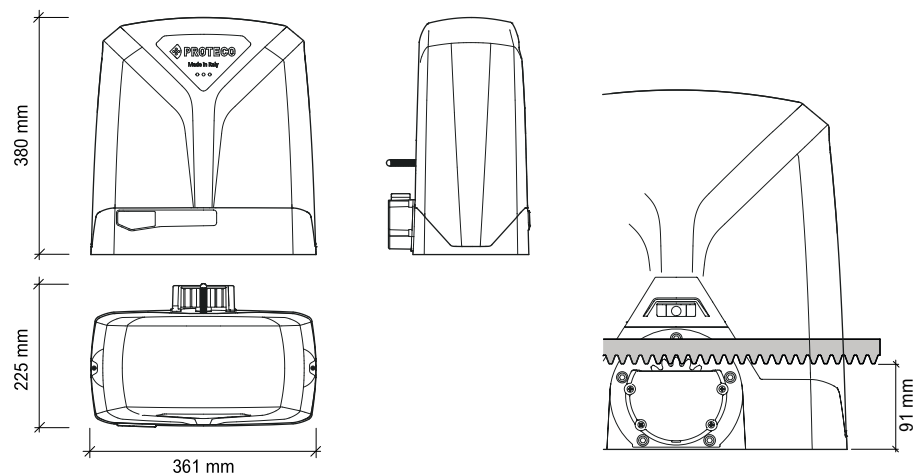
CONTENT



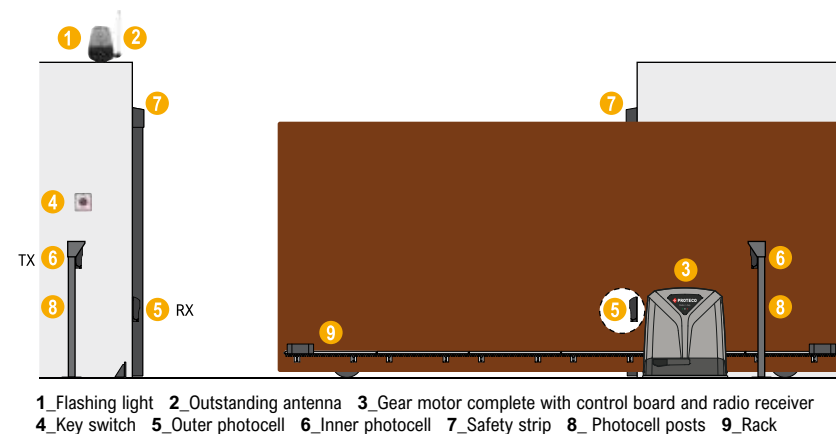
OPTIONAL ACCESSORIES

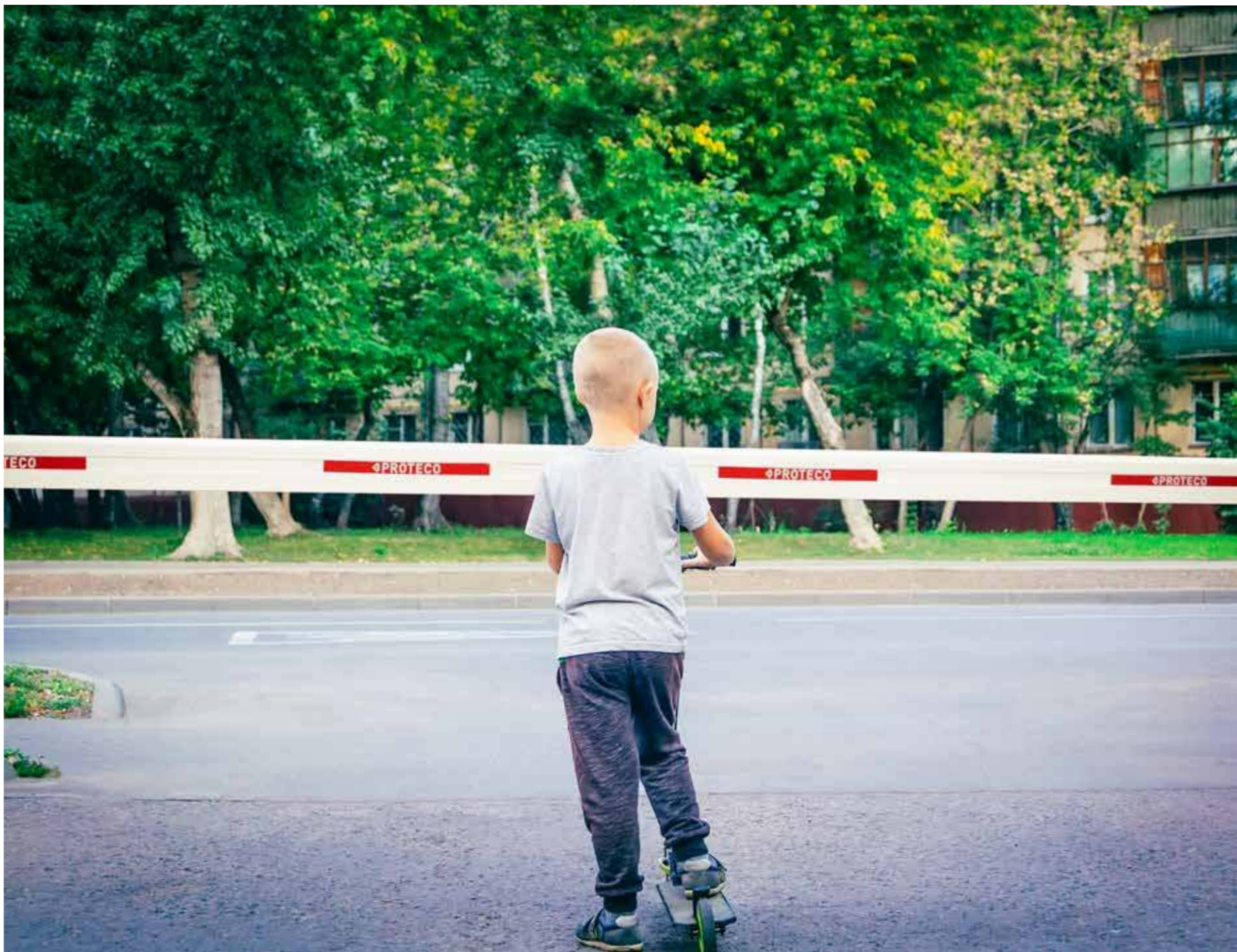


DIMENSIONS



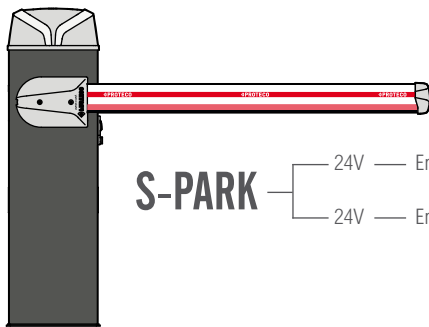
INSTALLATION MAP





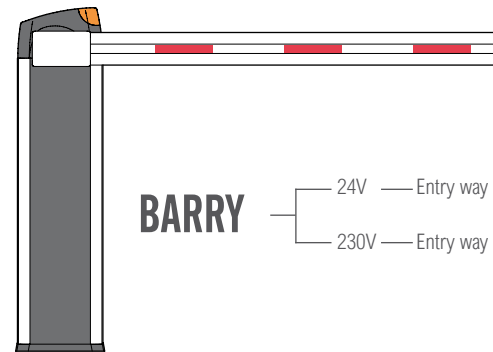
road BARRIERS

SELECTION GUIDE



p. 43-44

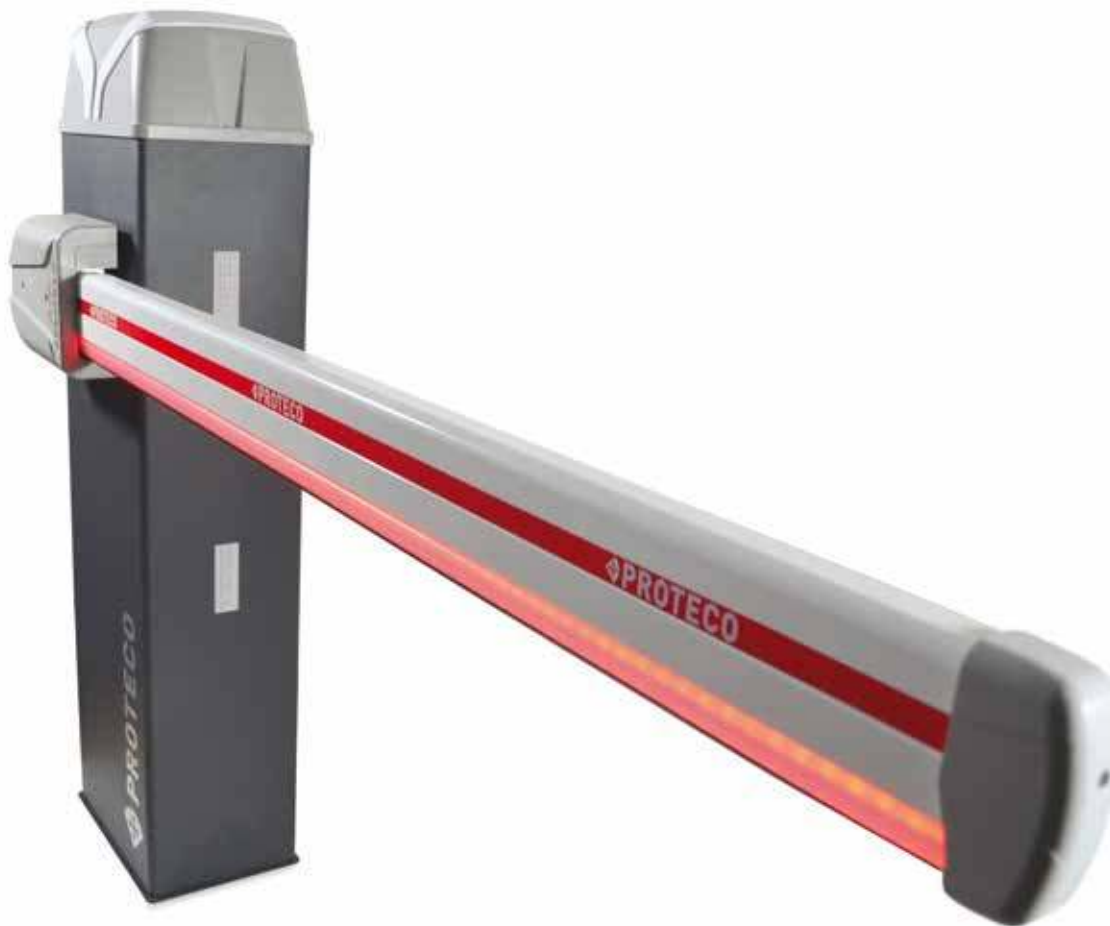
S-PARK — 24V — Entry way 4 m — intensive — **S-PARK 4**
— 24V — Entry way 4 to 6 m — intensive — **S-PARK 6**



p. 45-46

BARRY — 24V — Entry way 3,6 to 6 m — **BARRY DC**
— 230V — Entry way 3,6 to 6 m — **BARRY**

S-PARK



Road barrier for drive ways 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 housings for sensors.
Adjustable mechanical limit switches. Fixing ground plate and fittings included.
LED luminous signaling on the barrier cabinet.
Shock-proof rubber boom, can be integrated with red/green LED strips (optional).
Right and left hand application.
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 position.

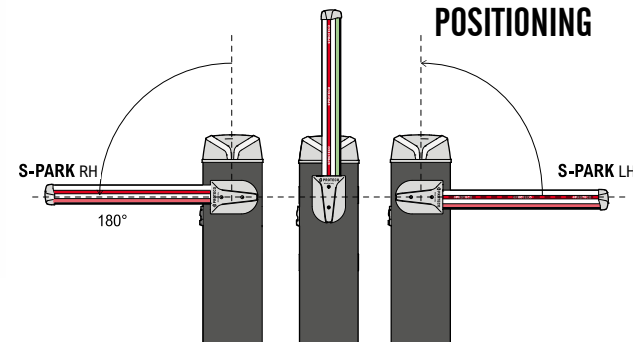
THE RANGE

	Power supply	Entry way	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

	S-PARK 4 from to 4 m	S-PARK 6 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% (max cycles/hour 200)	80% (max cycles/hour 130)
Dimensions	340x235 H 1210	340x235 H 1210
IP rating	54	54

POSITIONING



OPTIONAL ACCESSORIES



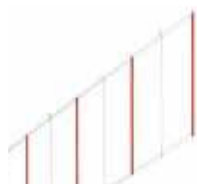
Shock-proof rubber 4 m boom
Shock-proof rubber 6 m boom



PSPLA4 - PSPLA6
Boom - Led Strip 4 m with wire
Boom - Led Strip 6 m with wire



PSPTA01
Boom - reflective stickers set
(20 pieces)



PSPGA01
Hanging rack



PSPAM01
Moving support



PSPAF01
Fixed support



PSPSN01
Kit for articulated
boom mounting



ANGIE
4-ch remote
control



RF40
Photocells 12-24V
external installation



KBT002
2 back up batteries set
1,2Ah with wires for
connection to Q90BD

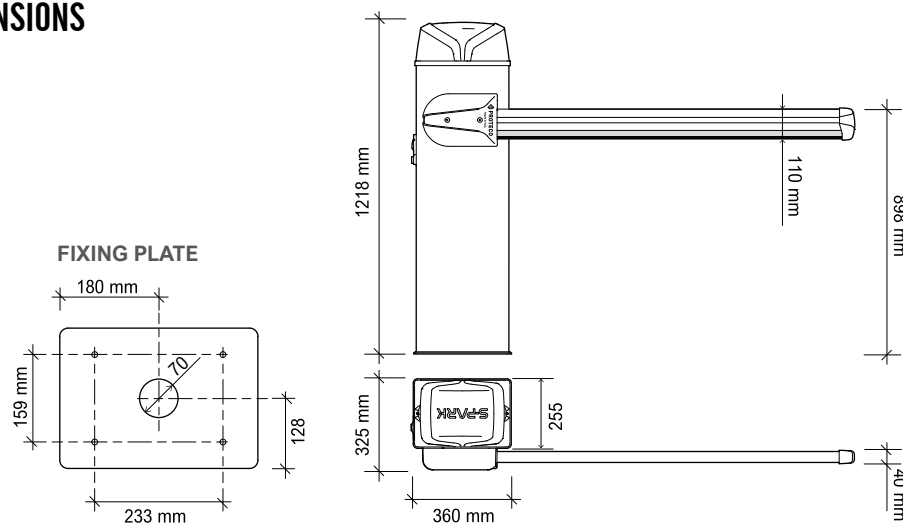


RG01
1-ch loop detector

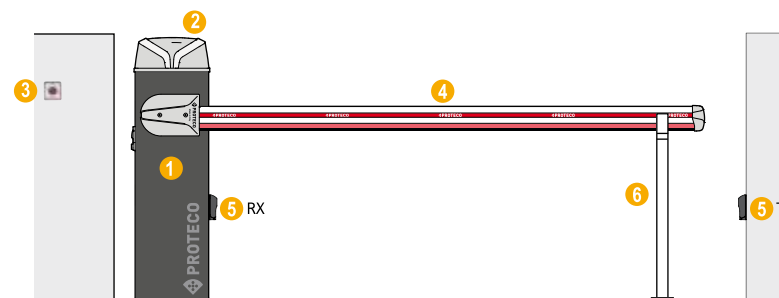


RG02
2-ch loop detector

DIMENSIONS



INSTALLATION MAP



1_Complete barrier with control unit and radio receiver 2_Flashing light 3_ Key switch
4_Aluminium boom 5_Outer photocells 6_Fixed support



BARRY



Road barrier for drive ways 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 drive ways from 3,6 to 6m, equipped with adjustable springs according to the length needed.

Telescopic boom provided with ground plate and fixed support.

Built-in control unit integrated with radio receiver.

Obstacle detection features.

Automatic or step by step closing.

Trimmers regulation for torque and closing time settings.

Fault signaling by LED warning.

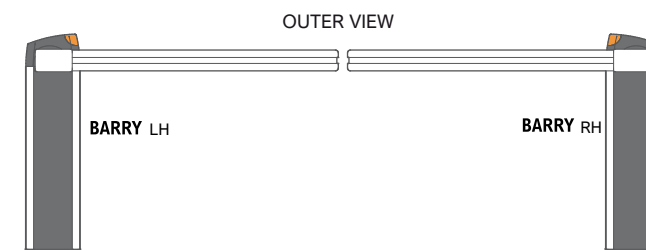
THE RANGE

	Power supply	Drive way	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

POSITIONING



ACCESSORIES INCLUDED



PBRAT0

Telescopic boom 3.6+2.7 m for BARRY

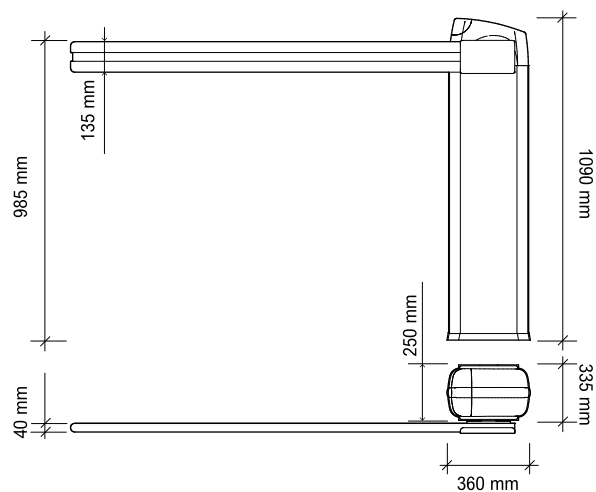


Fittings



PBRG105
Fixed support

DIMENSIONS



OPTIONAL ACCESSORIES



PBRAM01
Moving support



RG01
1-ch loop detector



RF40
Photocells 12-24V
for external mounting



RG02
2-ch loop detector

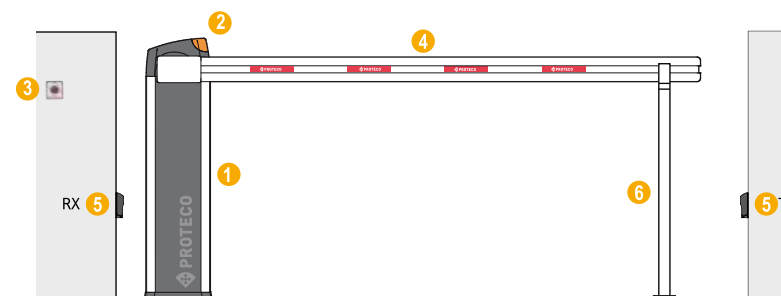


ANGIE
4-ch remote control



RF12
Metal post for RF40

INSTALLATION MAP



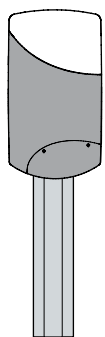
1_Complete barrier with control unit and radio receiver 2_Flashing light 3_Key switch
4_Aluminium boom 5_Outer photocells 6_Fixed support





GARAGE Door Automation

SELECTION GUIDE



p. 49-50

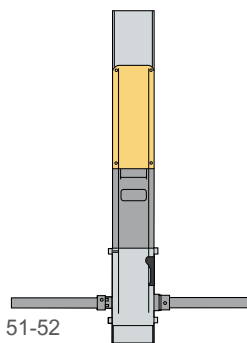
LIBRA

Max lift 60 Kg

LIBRA

Max lift 100 Kg

LIBRA PLUS



p. 51-52

SWING

Max door width 8 m²

LIBRA



Garage automation for **SECTIONAL** doors,
surface area up to 12 m².

24V

External display buttons for easier start-up and diagnoses.

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

Encoder system to ensure greater safety and reliability.

Automatically tests photocells during installation.

Dead man feature, allows to open the door by remote control in case of faulty photocell operation.

Safety stop contact, allows the connection of a pedestrian door.

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

Chain drive track, plus pull-cord release to fit onto the door's lock and handle system.

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

THE RANGE

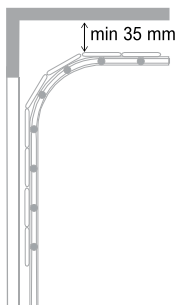
	Power supply	Force	Guide	Max. load
LIBRA	24V	700 N	3,0 m	60 Kg
LIBRA Plus	24V	1100 N	3,3 m	100 Kg

TECHNICAL FEATURES

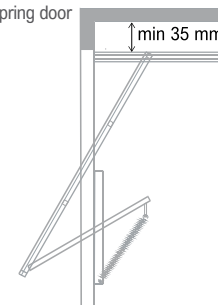
	LIBRA	LIBRA Plus
Motor power supply	24V dc	24V dc
Stand-by consumption	4 W	4 W
Rated power	100 W	150 W
IP protection class	40	40
Pulling thrust	700 N	1100 N
Opening time	17"	17"
Max door size	8 m ²	12 m ²
Max door load	60 Kg	100 Kg
Max door height	2,4 m	2,7 m
Duty cycle	80%	80%
Rail	3 m	3,3 m

DOOR TYPE

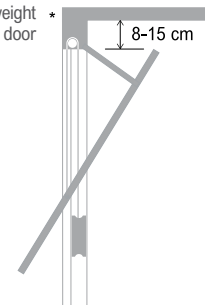
Sectional door



Spring door



Counterweight door *



* just if installed with the according adapter arm PARC02

KIT CONTENT

Automated operator
featuring a control board
and radio receiver
433.92 MHz

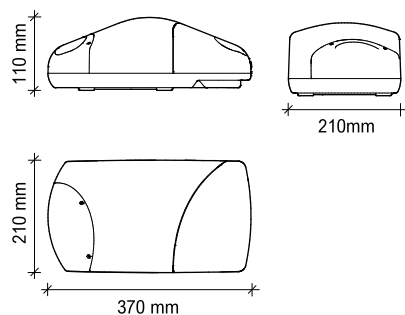


Chain guide 3 m / 3,3 m



ANGIE
4-ch remote control

DIMENSIONS



OPTIONAL ACCESSORIES



MLIR07
Pull-cord release and
resetting device to fit
on door handle



RC22
Mechanical safety strip
24 mm x 2,5 m



LUCE
LED 24V
flashing light



RF40
Photocell set 12-24V
external mounting



ARC02
Adapter arm for protruding
overhead doors

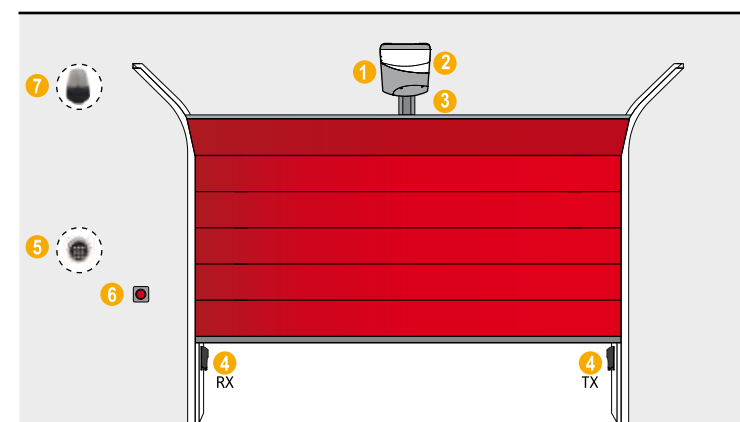


RT37
Wireless keypad



RS15
Key switch

INSTALLATION MAP



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



SWING



Garage automation for **OVERHEAD** doors,
for residential and industrial facilities,
surface area up to 8 m².

230V

Locked electromechanical door opener.
Adjustable electromechanical limit switches.
Built-in courtesy light and internal release handle for manual operation.
Drive track 1,2 m included.
Available with embedded control board, radio receiver, and obstacle detection.

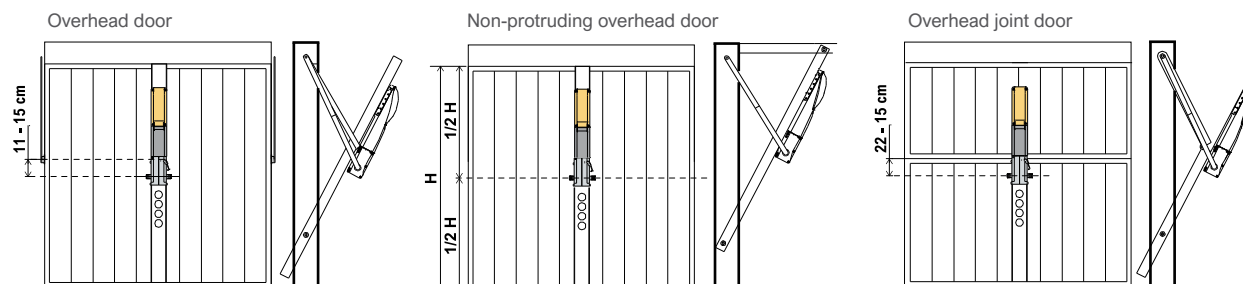
THE RANGE

	Power supply	Drive track	Control board
SWING	230V	1,2 m	Q80S
SWING CN	230V	1,2 m	—

TECHNICAL FEATURES

	SWING
Power supply	230V ~ 50Hz
Current	1.0A
Motor power	300 W
Capacitor	10 µF
IP protection class	54
Revolution speed	1400 rpm
Standard opening time	18"
Max door size	8 m ²
Duty cycle	50%

DOOR TYPE



OPTIONAL ACCESSORIES



E 102C
Straight arms kit for central mounting



E 102U
Curved arms kit for central mounting



E102L
Fittings kit for side mounting



E101
Release kit for existing lock



ANGIE
4-ch remote control



LUCE
LED 24V
flashing light



RC22
Mechanical safety
strip 24 mm x 2,5 m



RF40
Photocell set 12-24V
external mounting

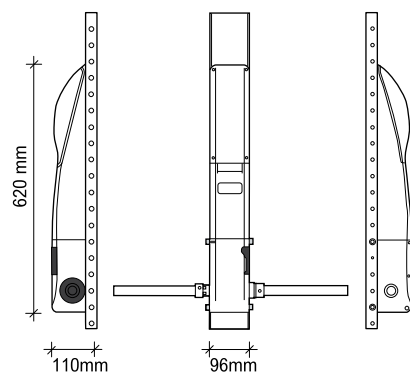


RT37
Wireless keypad



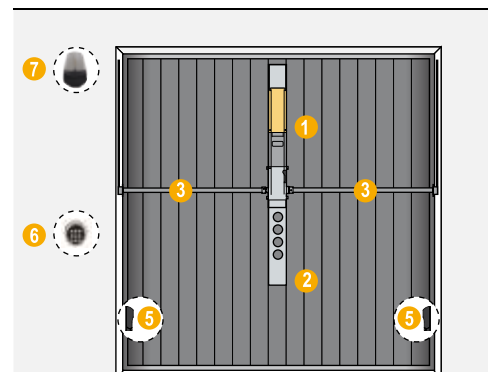
RS15
Key switch

DIMENSIONS

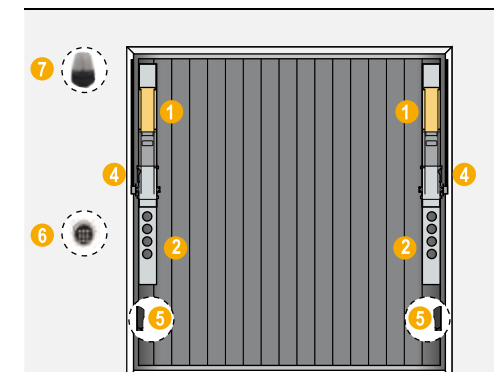


INSTALLATION MAP

CENTRAL APPLICATION



SIDE APPLICATION



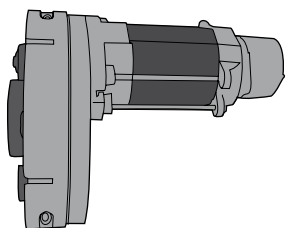
1_Door opener featuring control board and radio receiver 2_Drive track 3_Fittings for central application 4_Fittings for side application
5_Photocells 6_Wireless keypad 7_Flashing light



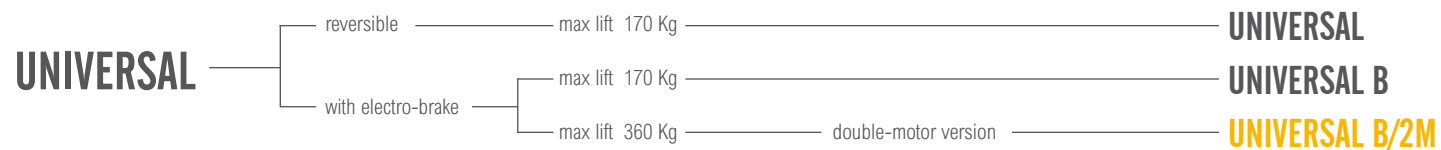


ROLLING SHUTTER

SELECTION GUIDE



p. 55-56



UNIVERSAL

Automated operator for rolling shutters,
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.

THE RANGE

	Power supply	Version	Ø Shaft	Ø Spring-pulley	Max. Load
UNIVERSAL	230V	reversible	60-48 mm	200-220 mm	170 Kg
UNIVERSAL B	230V	locked	60-48 mm	200-220 mm	170 Kg
UNIVERSAL B/2M	230V	locked dual motor	100-76 mm	240 mm	360 Kg



UNIVERSAL B-2M



UNIVERSAL B



UNIVERSAL

TECHNICAL FEATURES

	UNIVERSAL	UNIVERSAL B	UNIVERSAL B-2M
Power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Current	2.7A	2.7A	5.5A
Motor power	600 W	600 W	1260 W
Thrust	178 Nm	178 Nm	443 Nm
Pulley speed	10 rpm	10 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%

OPTIONAL ACCESSORIES



RT23
Secure lock box featuring release device for manual operation



ANGIE
4-ch remote control



RS15
Key switch



RF40
Photocells 12-24V external mounting



Q45
Control board 230V for shutters

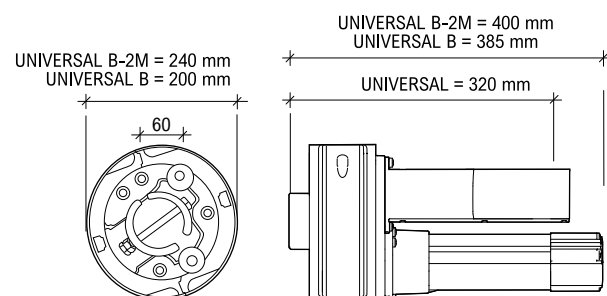


LUCE
LED 24V flashing light

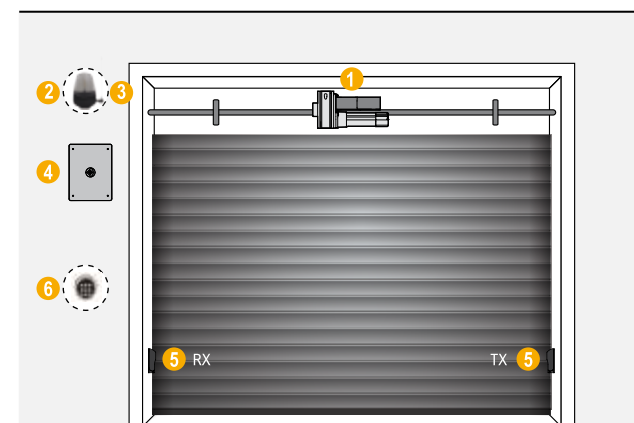


RT37
Wireless keypad

DIMENSIONS



INSTALLATION MAP



1_Automated operator 2_Flashing light 3_Outstanding antenna 4_Control board
5_Outer photocell 6_Wireless keypad



BLIND AND AWNING Automation



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	Consumption	Max. load (Ø 60mm shaft)
PTP45 20	230V	45 mm	20 N	17	0.14 kW	32 Kg
PTP45 30	230V	45 mm	30 N	17	0.19 kW	52 Kg
PTP45 50	230V	45 mm	50 N	13	0.23 kW	90 Kg
PTP45 50M	230V	45 mm	50 N	13	0.23 kW	90 Kg

SELECTION GUIDE

Projection 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	

Interior blind 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.		

Interior blind Ø60 mm (adapter in option)

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	0.68A	0.95A	1.06A	1.06A
Motor power	155 W	226 W	244 W	244 W
Motor speed	17 rpm	17 rpm	13 rpm	13 rpm
Weight	2.3 Kg	2.35 Kg	2.4 Kg	3.3 Kg
Limit revs	440 mm	480 mm	480 mm	620 mm

CONTENTS

PTP45

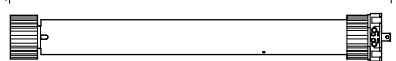


PTP45 50M

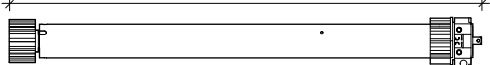


DIMENSIONS

PTP45 20 = 440 mm - PTP45 30/50 = 480 mm



PTP45 50M = 620 mm



OPTIONAL ACCESSORIES



PTPQ01W
Radio receiver
433 MHz



PTPTX1W
Remote control
433 MHz
1-channel



PTPTX5W
Remote control
433 MHz
5-channels



PTPS03W
Wind/sun sensor,
solar powered



PTPR01W
Adapter Ø 70 mm
for awnings



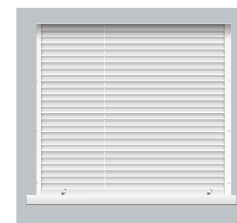
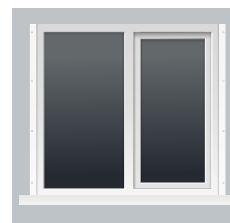
PTPR03W
Motor bracket,
wall mounting

INSTALLATION MAP

AWNINGS



BLINDS





Control boards

CONTROL BOARDS

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

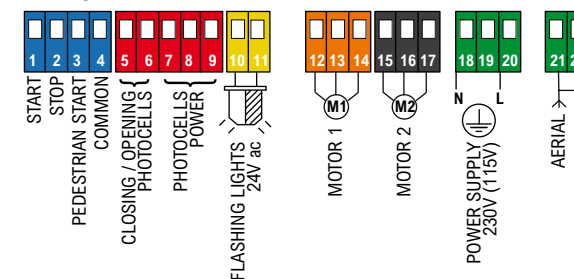
Capacity: 64 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



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



MELO4 Card module interface for electric-lock (12V, 15W).



CONTROL BOARDS

Q60A

230V control board for single or double swing gates

Control board powered at 230V

Motors powered at 230V

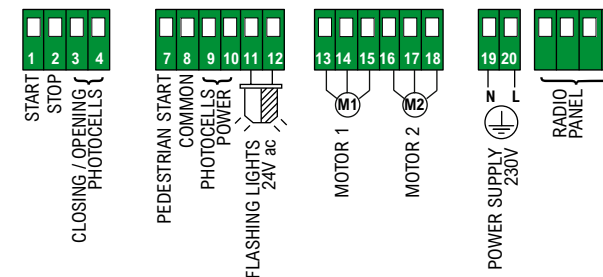
Capacity: 56 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Separate sequential settings for each function.
- Electronic settings of force, working and deceleration times 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.
- Photocell and motor test.
- Optional card module interface for electric-lock, "reversing stroke" and "lock pulse" functions.
- Plug- in terminals.
- Input for a timer.
- Plug-in radio receiver 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



MELO1 Card module interface
for electric-lock (12V, 15W).



CONTROL BOARDS

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

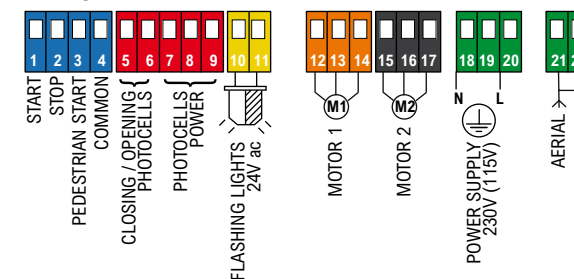
Capacity: 64 codes



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 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 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



MRX01 Card module interface
for electric-lock (12V, 15W).



MELO4 Card module interface for electric-lock
(12V, 15W).



CONTROL BOARDS

Q20A

24V control board for single or double swing gates

Control board powered at 230V
Also available in 115V

Motors powered at 24V

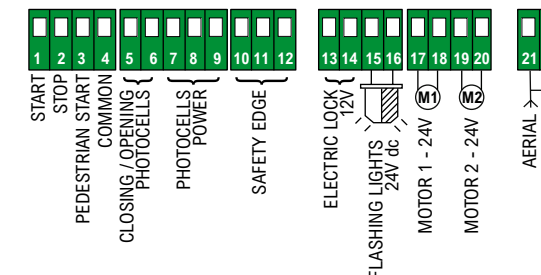
Capacity: 99 codes



MAIN FEATURES

- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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.
- Maintenance interval function.
- Separate OPEN/CLOSE push buttons function.
- Can command a timer.
- Built-in charger.
- 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.
- Output for electric-lock 12Vac/dc.
- Plug-in radio receiver 433.92MHz.

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 set.



MPIQ03

Battery fixing plate for PAR04 housing.



CONTROL BOARDS

Q80S

230V control board for sliding gates

Control board powered at 230V
Also available in 115V

Motor powered at 230V
Also available in 115V

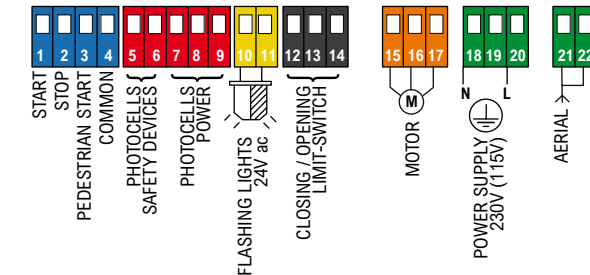
Capacity: 64 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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 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 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



MRX01

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



CONTROL BOARDS

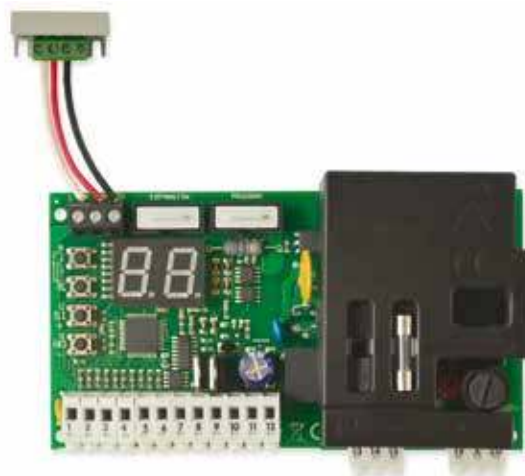
Q60S

230V control board for sliding gates

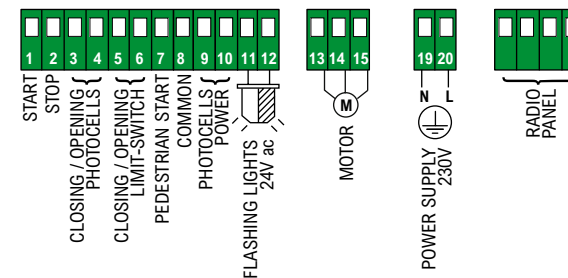
Control board powered at 230V

Motor powered at 230V

Capacity: 56 codes



WIRING



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Separate sequential settings for each function.
- 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.
- Input for a timer.
- Plug-in radio receiver 433.92MHz.



CONTROL BOARDS

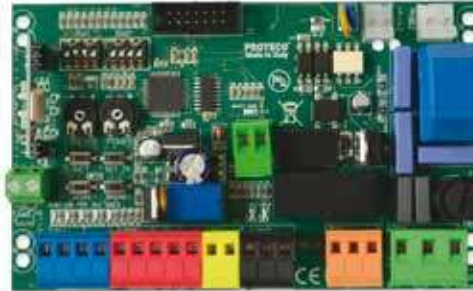
Q81S

230V control board for sliding gates

Control board powered at 230V
Also available in 115V

Motor powered at 230V
Also available in 115V

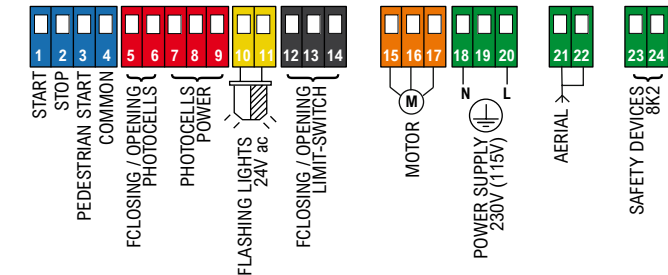
Capacity: 64 codes



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 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



MRX01

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



CONTROL BOARDS

Q20S

24V control board for sliding gates

Control board powered at 230V
Also available in 115V

Motor powered at 24V

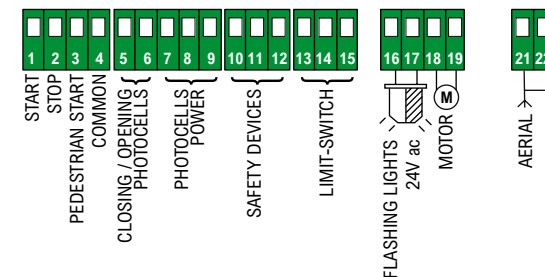
Capacity: 99 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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 interval function.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- Can command a timer.
- Built-in charger.
- 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 433.92MHz.

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 set.



MSU14

Battery fixing plate for MEKO sliding motors range.



CONTROL BOARDS

Q90SA

MATRIX range - 230V control board for sliding gates

Control board powered at 230V

Motor powered at 230V

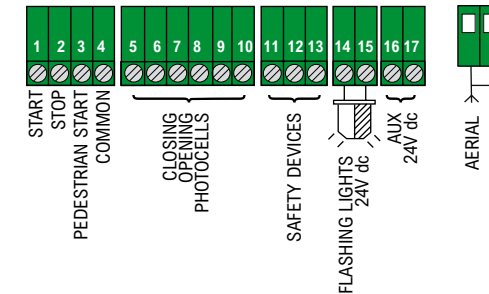
Capacity: 96 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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 interval function.
- Separate OPEN/CLOSE push buttons function.
- Dead man function.
- 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 433.92MHz.
- Optional card module interface to synchronize a double sliding gate.

WIRING



OPTIONAL ACCESSORIES



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



MXM01 Optional card module interface to synchronize a double sliding gate.



CONTROL BOARDS

Q90SH

MATRIX range - control board for BRUSHLESS sliding gates

Control board powered at 230V
Also available in 115V

BRUSHLESS motor powered at 48V

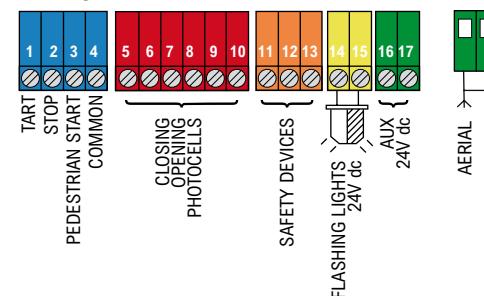
Capacity: 96 codes



MAIN FEATURES

- LED display screen for programming and fault diagnosis.
- Obstacle detection function (EN 12453) with adjustable threshold.
- Simplified self-learning programming mode.
- Advanced sequential settings for each function.
- 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 interval function.
- 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 433.92MHz.
- Optional card module interface to synchronize a double sliding gate.

WIRING



OPTIONAL ACCESSORIES



MRX01

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



MXM01

Optional card module interface to synchronize a double sliding gate.



Q BAT 1.2

Battery 12V 1.2Ah.



KBT003

Battery charger for Matrix brushless systems



CONTROL BOARDS

Q90BD

S-PARK road barriers' range Control board 24V

Control board powered at 24V
Also available in 115V

Motor powered at 24V

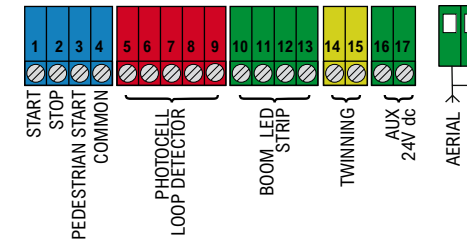
Capacity: 96 codes



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 interval function.
- 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 433.92MHz.

WIRING



OPTIONAL ACCESSORIES



MRX01

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



KBT002

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



CONTROL BOARDS

Q45

Control board 230V for rolling shutters

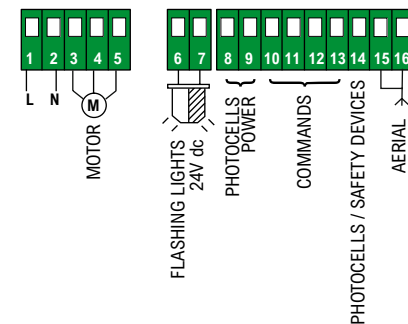
Control board powered at 230V

Motor powered at 230V

Capacity: 10 codes



WIRING



MAIN FEATURES

- Sequential programming mode of working times.
- Adjustable automatic closing or step by step closing.
- Delayed opening function in case of multiple automated shutters.
- Can command a timer.
- Dead man feature.
- Flashing light output.
- Photocells and safety strips output.
- Plug-in terminals.
- Embedded radio receiver 433.92MHz.



LIST OF SETTINGS

SETTINGS	Q80A	Q60A	Q81A	Q20A	Q80S	Q60S	Q81S	Q20S	Q90SA	Q90SH	Q90BD	Q45
Control board power	230V 115V	230V	230V 115V	230V 115V	230V 115V	230V	230V 115V	230V 115V	230V	230V 115V	230V 115V	230V
Motor power	230V 115V	230V	230V 115V	24V	230V 115V	230V	230V 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				●				●			●	



Single or double swing gates



Sliding gates



Road barriers



Rolling shutters



SAFETY ACCESSORIES

RADIO DEVICES

Radio receivers
Antennas
Remote controls

77

SAFETY DEVICES

Sensors
Transit detector
Flashing lights
Safety edges

79

COMMAND DEVICES

Keypads
Key switches
Loop detectors

82

RADIO DEVICES

ANTENNAS



ANT02

Extension antenna.
Provided with fittings (fixing support and coaxial
cabel 3.5 m length).
Radio frequency 433.92 MHz.

RADIO RECEIVERS



RX 433

Radio receiver for external mounting, complete with case and aerial.

Available in 1 or 4-channel version.

Optional memory card with 512 code storage capacity.

Power supply 12/24Vac/dc.

Model	Power supply	Frequency	Channel	Storage 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

TRANSMITTERS



ANGIE

4-ch remote control.

Works with any Proteco systems.

Extended radio range.

Available in fixed code or rolling code version.

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



TX4334

3-key remote control, 4 channels.

Works with any Proteco systems.

Dip-switches fixed code.

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

SAFETY DEVICES

FLASHING LIGHTS



LUCE

Sleek design, LED flashing light.
A wall-mounting support suitable for all installations.
It can be fitted with an antenna PANT to boost the radio signal.
Long life and low consumption (2.5W).
Power supply 24Vac/dc.
Available in amber yellow or anthracite gray look.

SENSORS



RF40

Wired infrared photocells.
Wall or RF12 iron posts-mounting.
Power supply 12/24Vac/dc.



RF33

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



RF02

Recessed safety photocells.
Adjustable orientation.
Power supply 12/24Vac/dc.



RF12

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

TRANSIT DETECTOR



RD01

Microwave sensor for vehicle and people detection,
suitable for doors and gates.
Sensitivity and detection direction can be adjusted
separately.
Power supply 12-24Vdc/ac
2 relay outputs NO/NC
IP67

SAFETY EDGES



RC22

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.



RC23

Electro-mechanical safety edge.
Rubber profile 25mm.
Suitable both for garage doors and traffic barriers.
Complete with aluminium support, sensor and wire (2.5 m).
Profile length 2.5 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 60 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 60 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 60 mm width.
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).



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).

COMMAND DEVICES

KEYPADS



RT35

Anti-vandalism stainless steel keypad.
Metal keys.
60 code memory storage.
Output relay 1A and 5A.
Power supply 12/24Vac/dc.



RT36

Polycarbonate keypad.
Permanent back lit keys.
60 code memory storage.
Output relay 1A and 5A.
Power supply 12/24Vac/dc.



RT37

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

KEY SWITCHES



RS15

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

RS16

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



RS10

Metal coated post.
To house RS15 and RS16 key switches
Height 110 cm.

LOOP DETECTORS



RG01

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



RG02

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

TERMS & CONDITIONS

1. PREAMBLE:

1.1 The present Terms & conditions, 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 provided that the Purchaser has its registered office outside Italy.

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 E.C. 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 exclusive 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 2010 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 lose 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 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 terms and conditions, by United Nations Convention on Contracts for the International Sale of Goods (Vienna Convention of 1980, hereafter referred to as «CISG»), and, to the extent that such questions are not covered by CISG, by Italian law.

10. DISPUTES RESOLUTION:





10.1 In case the Purchaser has its registered office in the territory of the European Union for any disputes arising out of or in connection with this contract the courts of Turin in Italy shall have exclusive jurisdiction; where the Purchaser has its registered office outside the territory of the European Union any disputes arising out of or in connection with this contract shall be settled by Arbitration in conformity with the Rules of the Piedmont Arbitral Chamber (see at <http://images.pie.camcom.it/f/Varie/RU/RULES2006.pdf>) by one arbitrator designed in accordance to said rules.

The parties undertake to comply with the arbitrator's award.

www.proteco.net

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