Easy. Easier. Mhouse.
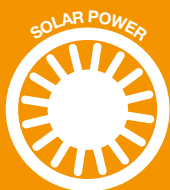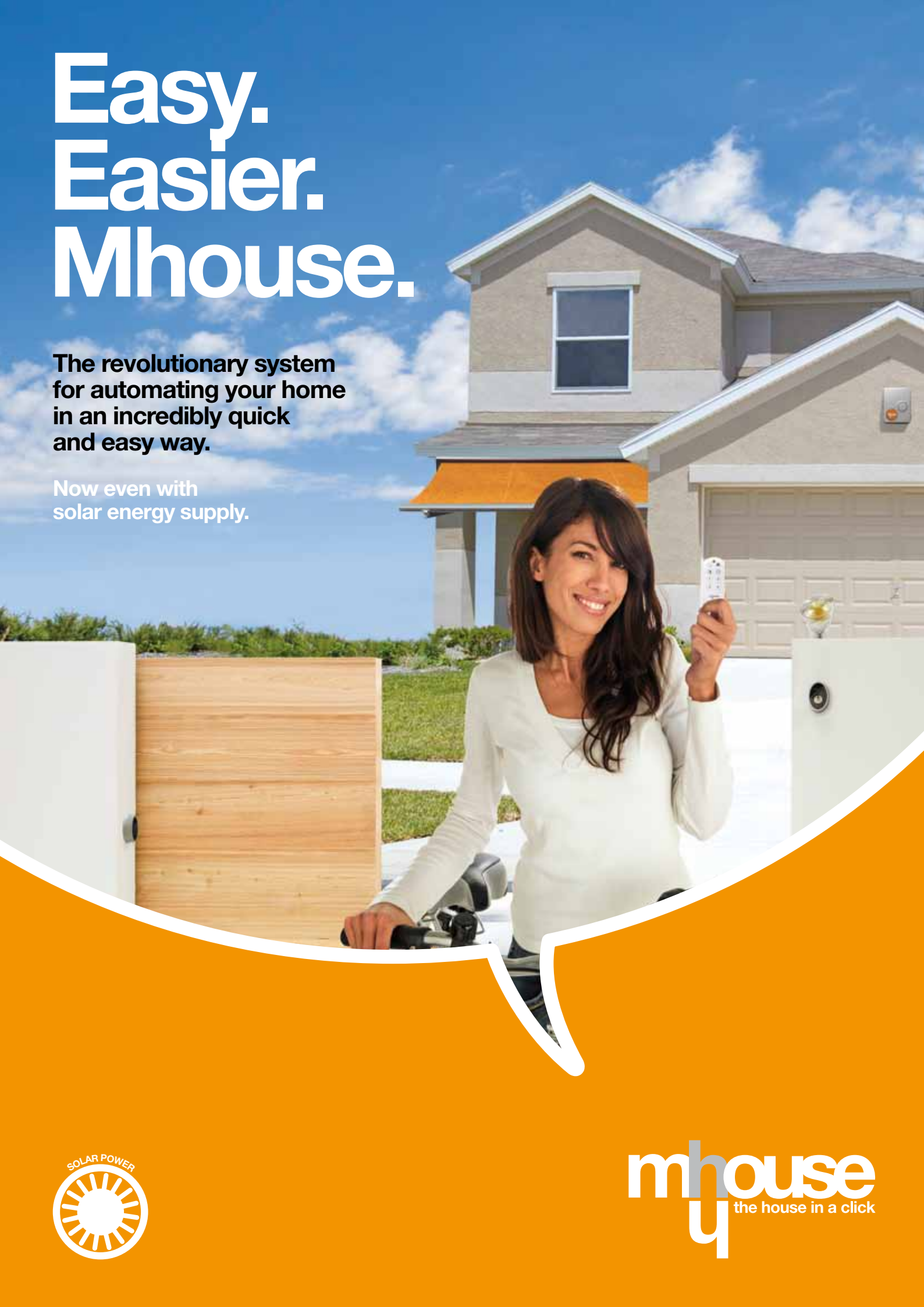
The revolutionary system for automating your home in an incredibly quick and easy way.

Now even with solar energy supply.

SOLAR POWER

mhouse
the house in a click

Mhouse
self fit Kit:
everything's easy, everything's included!

Mhouse has developed a leading-edge range of products combining a complete set of functions, ease of installation and use, and expandability towards home automation applications.

Find out more about this revolutionary self fit kit system for automating gates, garage doors, awnings and rolling shutters in an incredibly quick and easy way.

Control of the home by a simple click!

Alarm systems and integrated management of automations, all in one unit.

With a single Mhouse transmitter,
the alarm systems and automations for gates,
garage, awnings and rolling shutters,
as well as lighting, are always under control.

Mhouse: when less is better!

Mhouse constitutes a single pack containing
all that's needed for easy to install automations
with professional results.

The exclusive, highly refined and practical Mhouse
accessories complete the automation, personalising
it according to the diverse requirements of the user.

Alarm System

Swing gates
surface-mounted,
or underground
installation

Sliding gates

Sectional
or up-and-over
doors

Rolling shutters,
solar screens,
awnings

Lighting and irrigation
systems

24V   **Maximum safety**
with low voltage connections
and automatic detection of obstacles.

ECS Bus   **Just two wires!**
The ECSBus system connects
all devices with just 2 wires:
thanks to no need for observing polarity,
there is no risk of errors.

SL1ˢ

mhouse

The freedom of an ecological and wireless system

PF is a new solar power kit for the automation of swing or sliding gates, installable anywhere, with no excavation work or connections. An intelligent and ecological choice!

Style and substance

Mhouse has created a perfect Italian-style line of products characterised by careful, efficient design, so distinctive as to be always recognizable.

A good design is the basis of quality.
Mhouse's awareness to achieve the finest results is revealed in every detail: cutting-edge technology, high quality materials, accurate finish.

Index

mhouse

1 PB Box for 24 V 20 Ah battery, with carry handle. Dim. 23.5 x 25.8 x 17 cm. Luminous and acoustic signals to indicate battery charge status.

1 PC Photovoltaic solar panel 10 W, for 24 V power supply. Dim. 36.7 x 28.5 cm; brackets included.

Optional accessories:

PBC Battery charger power supply unit, for PF.

Solar power system for gate automations
PF kit

MhouseKit PF uses solar energy, replacing the electrical mains as the source of power for automating a gate, even if located far from the electrical mains, with no need for excavations for necessary connections. The battery, recharged by the solar panel*, provides a reserve of energy for a great number of manoeuvres.

*rechargeable also via the power mains, using the optional power supply unit PBC.

Installable anywhere without the need for excavations or connections to the electrical mains, even in locations far away or difficult to access.
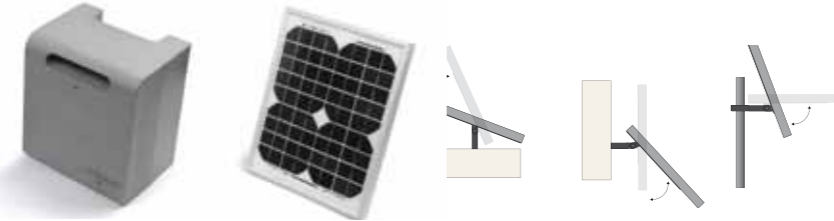
Economical and ecological thanks to solar energy, free and clean: an ecological and intelligent choice with short term benefits.

Low consumption with no risk of blackouts The energy reserve levels, combined with low consumption of the automations, guarantee operation even in prolonged overcast weather conditions. Auxiliary power supply, which allows a quick battery recharge through 230 V electric system as an alternative to the photovoltaic module.

Installation

Swing gates, surface mounted

Swing gates, underground installation

Sliding gates

Packaging characteristics

Package dimensions (mm)	410x255x330
Package weight (kg)	14
EAN code	8032595791768

The content of the package may vary: consult the retailer.
For updated and complete information, consult the product technical manual.

Solar panel link

Rear bearing for wall or column hanging

Motor link

Carry handle

Battery charger power supply unit, (optional)

mhouse

Each Kit WT1S contains:

1 WT1SC Electromechanical gear motor with integrated control unit and 433.92 MHz variable code receiver.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

Optional accessories

PH100 Pair of wall-mounted autosynchronized photocells.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

DS1 13-key digital switch with programmable code, via radio.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

PT50 Two 485 mm high posts including one pair of photocells.

PT100 Two 945 mm high posts including two pairs of photocells.

FL100 Adjustable flashing light, with built-in aerial.

EL1 12 V electric lock interface.

PR2 Buffer battery for emergency power supply.

Fast and ultra-compact, even in the presence of small columns
WT1S kit

Kit for automating a pedestrian gate up to 1.6 m in width and 100 kg weight. Particularly suitable for wood and PVC gates.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for the accessories.

Ultra-compact: ideal for pedestrian gates even with small size columns (10 cm width).

The **smooth and precise** movements mean that even gates with a delicate structure can be automated.

Precise: due to the closure mechanical stop integrated into the arm (with whole-arm installation).

Safe: due to the irreversible motor and the anti-shear arm.

Practical: the articulated arm allows for installation in special conditions such as the presence of walls or obstacles adjacent to the column.

No waiting in front of the gate: only 7 seconds to open and close (in perfect installation conditions, making the most of the whole run and with a 90° opening).

Convenient: the motor bracket can be rotated so as to assure improved fixing to low-strength supports such as brick columns.

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: WT1S automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- Timed and adjustable automatic closing function
- Programming of new transmitters
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO- 8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

min. 80 mm | max. 300
max. 230
max. 90°
min. 80 | min. 100

min 300 | max 300 mm
max 230
max 110°
min 80 | min 100

384 mm
90 | 125,5

Technical characteristics

Power supply (Vac)	230
Power (W)	70
Torque (Nm)	120
Speed (degrees/sec)	13
Protection class (IP)	44
Weight (kg)	4.3
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm)	600x400x190
Package weight (kg)	5.5
Palletization (pz)	24
EAN Code	8032595792338

The content of the package may vary: consult the retailer.

WT1s

mhouse

Each Kit WT2S contains:

1 WT1SC Electromechanical gear motor with integrated control unit and 433.92 MHz variable code receiver.
1 WT1SK Electromechanical gear motor without control unit.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.
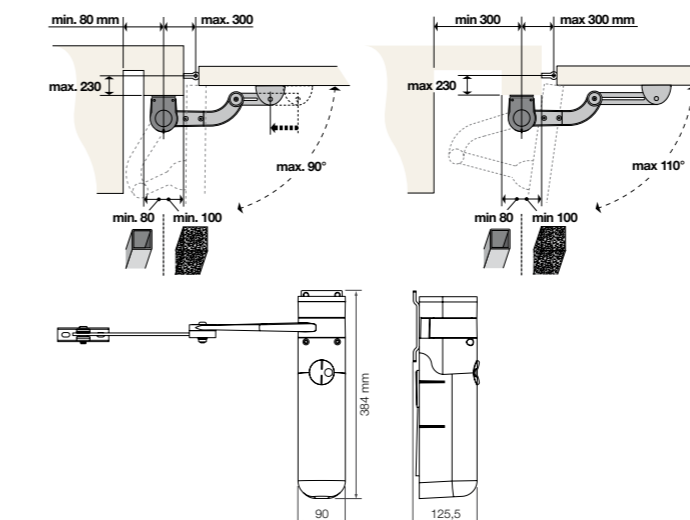**PT100** Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR2 Buffer battery for emergency power supply.

For two-leaf gate, even in the presence of small columns
WT2S kit

Kit for automating a two-leaf residential gate with each leaf up to 1.6 m in width and 100 kg weight. Especially suitable for wood or PVC gates.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Ultra-compact: WT2S is ideal for gates even with small size columns (10 cm width).

The **smooth and precise** movements mean that even gates with a delicate structure can be automated.

Precise: due to the closure mechanical stop integrated into the arm (with whole-arm installation).

Safe: due to the irreversible motor and the anti-shear arm.

Practical: the articulated arm allows for installation in special conditions such as the presence of walls or obstacles adjacent to the column.

No waiting in front of the gate: only 7 seconds to open and close (in perfect installation conditions, making the most of the whole run and with a 90° opening).

Convenient: the motor bracket can be rotated so as to assure improved fixing to low-strength supports such as brick columns.

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: WT2S automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

min. 80 mm · max. 300 · max. 230 · max. 90° · min. 80 · min. 100
min 300 · max 300 mm · max 230 · max 110° · min 80 · min 100
364 mm · 90 · 125,5

Technical characteristics

Power supply (Vac)	230
Power (W)	120
Torque (Nm)	100
Speed (degrees/sec)	13
Protection class (IP)	44
Weight (kg)	4.3
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm)	600x400x190
Package weight (kg)	10
Palletization (pz)	24
EAN Code	8032595792345

The content of the package may vary: consult the retailer.

WT2s

mhouse

Compact and elegant, also for large posts and light structures
WS2S kit

Kit for automation of a residential two-leaf gate, each leaf measuring up to 2.2 m in width and weighing up to 200 kg. Especially suitable for wood or PVC gates.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Compact and fast: WS2S is ideal for gates with very deep pillars, which can be easily operated thanks to its articulated arm. Its smooth and precise movements make it suitable for the most delicate gates.

Auto-programming: WS2S automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Precise: opening/closing mechanical limit-switch.

No waiting in front of the gate: only 10 seconds to open and close (in perfect installation conditions, making the most of the whole run and with a 90° opening).

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Each Kit WS2S contains:

1 WS1SC Electromechanical gear motor with control unit for control of two motors with integrated 433.92 MHz variable code receiver.
1 WS1SK Electromechanical gear motor without control unit.

New curved anti-shear arms, three Mhouse release keys, opening and closing mechanical stop and mounting plates included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.
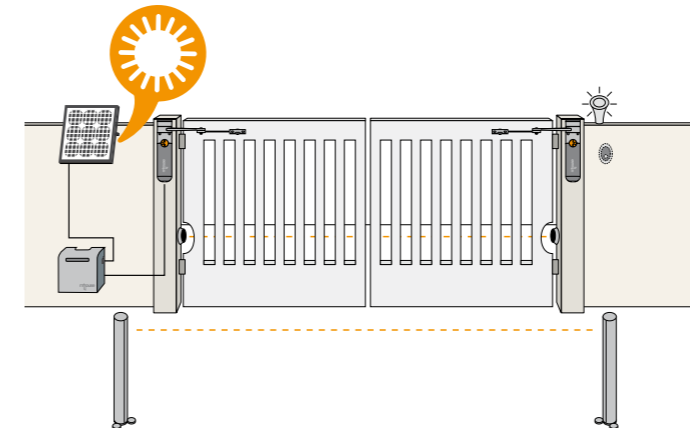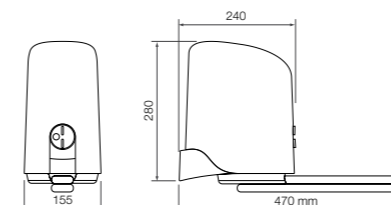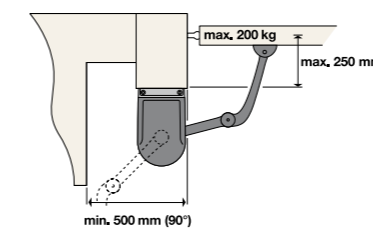**PT100** Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR1 Buffer battery for emergency power supply.

Installation
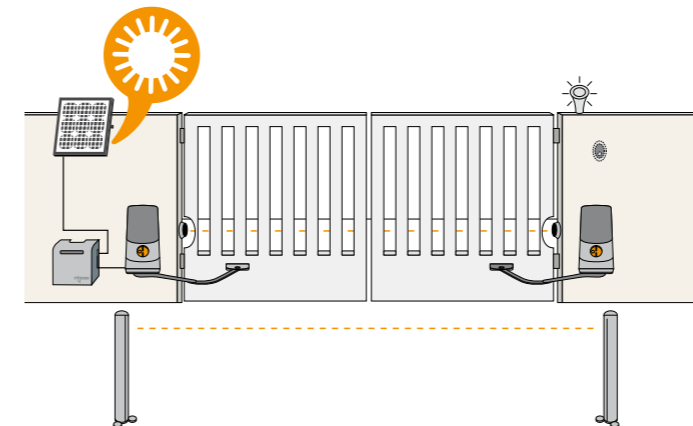
min. 500 mm (90°)
max. 200 kg
max. 250 mm
240
280
155
470 mm

Technical characteristics

Power supply (Vac)	230
Power (W)	100
Torque (Nm)	360
Speed (degrees/sec)	11 ÷ 17
Protection class (IP)	54
Weight (kg)	6.2
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm)	760x200x430
Package weight (kg)	18
Palletization (pz)	17
EAN Code	8032595792321

The content of the package may vary: consult the retailer.

WS2s

mhouse

Each Kit WU2S contains:

2 WU1SK Electromechanical gear motors. 3 release keys and foundation/mounting plate included.

2 WUA Straight slotted arms.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

1 CL2S External control unit for control of two WU1SK electromechanical gear motors with integrated 433.92 MHz variable code receiver.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.

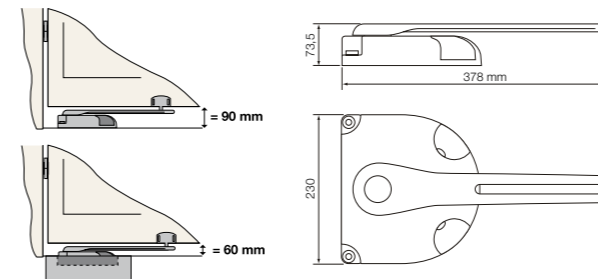**PT100** Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR1 Buffer battery for emergency power supply.

Ultrathin, it can be fixed under the leaf for minimum overall dimensions
WU2S kit

Kit for automation of a residential two-leaf gate, each leaf measuring up to 1.8 m in width and weighing up to 200 kg. The most discreet: the very reduced height of the motor (73.5 mm) allows it to be installed between the gate leaf and the ground. By partially burying the motor, the total clearance required is only 60 mm!

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Simple and economic: with WU2S no excavations or structural modifications are needed in order to bury the motor under the gate, so you won't have to spend money on masonry work.

Guaranteed IP67 water-tightness; extremely sturdy casing made entirely of die-cast sealed aluminium.

No waiting in front of the gate: only 9 seconds to open and close (in perfect installation conditions, making the most of the whole run and with a 90° opening).

"Plug 'n Play" connections very simple and quick, with easy identification of wires and terminals.

Easy Connection System: ECSBus system for connection of up to seven pairs of photocells using only two wires.

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: WU2S automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
· 2 speeds
· Timed and adjustable automatic closing function
· Programming of new transmitters (up to 150)
· Adjustable partial opening function
· Pause time adjustment
· Obstacle sensitivity adjustment
· Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Small size foundation boxes, included in the kit.

Installation

Technical characteristics

Power supply (Vac)	230
Power (W)	100
Torque (Nm)	360
Speed (degrees/sec)	11 ÷ 17
Protection class (IP)	67
Weight (kg)	7
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm)	680x170x400
Package weight (kg)	18.25
Palletization (pz)	18
EAN Code	8032595792352

The content of the package may vary: consult the retailer.

Each Kit WG2S contains:

2 WG1SK Electromechanical worm gear motor with three Mhouse release keys and adjustable mounting brackets included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

1 CL2S External control unit for control of two WU1SK electromechanical gear motors with integrated 433.92 MHz variable code receiver.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.

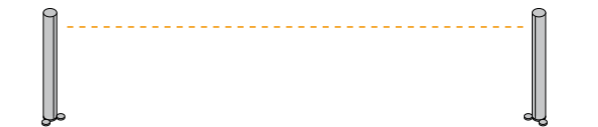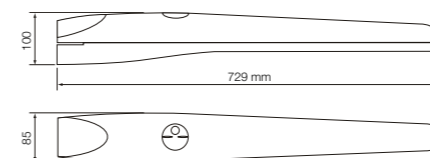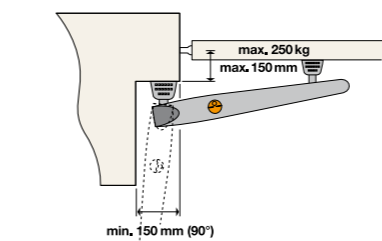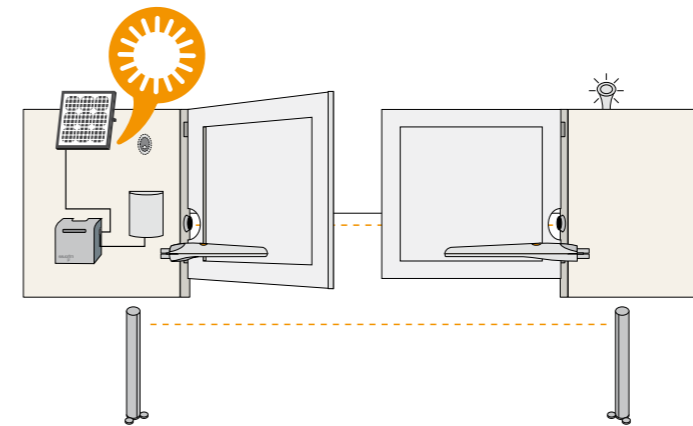**PT100** Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR1 Buffer battery for emergency power supply.

The strong solution, for swing gates
WG2S kit

Kit for automation of a residential two-leaf gate, each leaf measuring up to 2.2 m in width and weighing up to 250 kg.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Strength and elegance: WG2S, with its die-cast aluminium casing that will match any style, can open the heaviest gates without effort.

No welding required adjustable multi-position brackets.

Easy Connection System: ECSBus system for connection of up to seven pairs of photocells using only two wires.

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: WG2S automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO- 8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

max. 250 kg
max. 150 mm

min. 150 mm (90°)

729 mm

Technical characteristics

Power supply (Vac)	230
Power (W)	100
Torque (Nm)	1400
Speed (m/sec)	0.016 ÷ 0.022
Travel (mm)	390 (330)*
Protection class (IP)	54
Weight (kg)	6
Certification	CE

* Data with opening/closing limit switch between brackets
For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm)	780x180x450
Package weight (kg)	16.75
Palletization (pz)	14
EAN Code	8032595792727

The content of the package may vary: consult the retailer.

Each Kit WG10S contains:

1 WG10SK Electromechanical worm gear motor with three Mhouse release keys and adjustable mounting brackets included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

CL20S External control unit for control of WG10SK electromechanical gear motor with integrated 433.92 MHz variable code receiver.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.

PT100 Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR1 Buffer battery for emergency power supply.

Simple and linear design, for one-leaf swing gate opener
WG10S kit

Kit for the automation of a residential one-leaf gate measuring up to 4.5 m in width or weighing up to 450 kg.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Strength and elegance: WG10S, with its die-cast aluminium casing that will match any style, can open the heaviest gates without effort.

No welding required: adjustable multi-position brackets.

"Plug 'n Play" connections very simple and quick, with easy identification of wires and terminals.

Easy Connection System: ECSBus system for connection of up to seven pairs of photocells using only two wires.

Noiseless and reliable: body made of painted die-cast aluminium; mechanical parts made of metal.

Maximum safety ensured by the low voltage connections and the automatic obstacle detection feature.
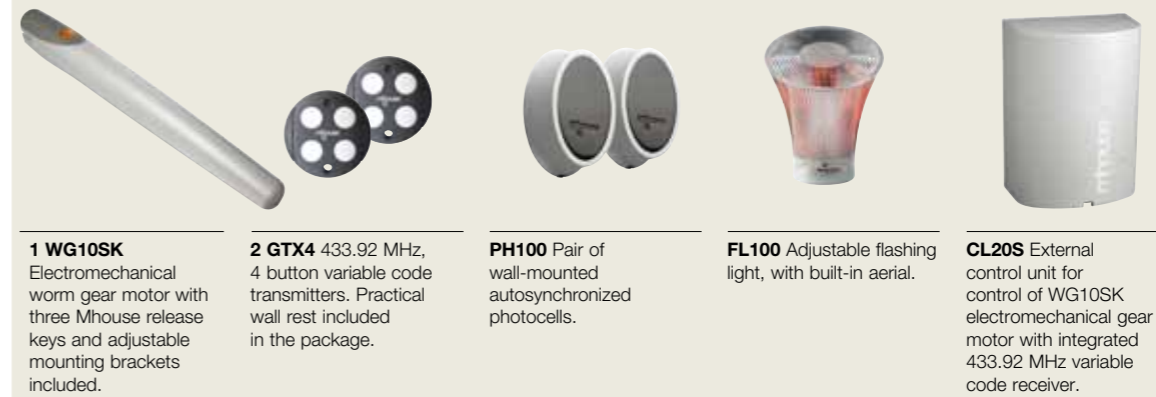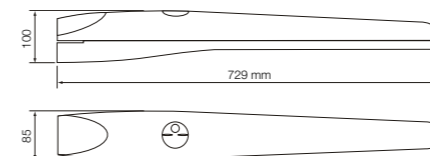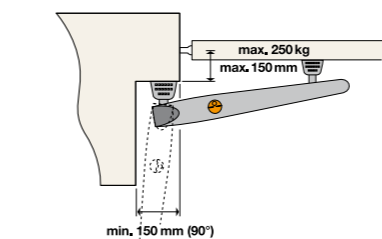
Modular control card with (integrated) built-in receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters
- Adjustable partial opening to restrict the passage to pedestrians and cycles
- Pause time adjustment
- Obstacle sensitivity adjustment.

Quick motor release for manual gate operation. Opening and closing mechanical limit-switch.

No black-out: operation during power failures guaranteed by the PR1 buffer batteries (optional).

Installation

max. 250 kg
max. 150 mm
min. 150 mm (90°)

100
729 mm
85

Technical characteristics

Power supply (Vac)	230
Power (W)	90
Torque (Nm)	1800
Speed (m/sec)	0,013 ÷ 0,024
Travel (mm)	540 (480)*
Protection class (IP)	44
Weight (kg)	10
Certification	CE

* Data with opening/closing limit switch between brackets
For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	949x391x166
Package weight (kg)	13.25
Palletization (pz)	14
EAN Code	8032595792710

The content of the package may vary: consult the retailer.

WG10⁵

mhouse

Each Kit WG20S contains:

2 WG10SK Electromechanical worm gear motor with three Mhouse release keys and adjustable mounting brackets included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

CL20S External control unit for control of WG10SK electromechanical gear motor with integrated 433.92 MHz variable code receiver.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.

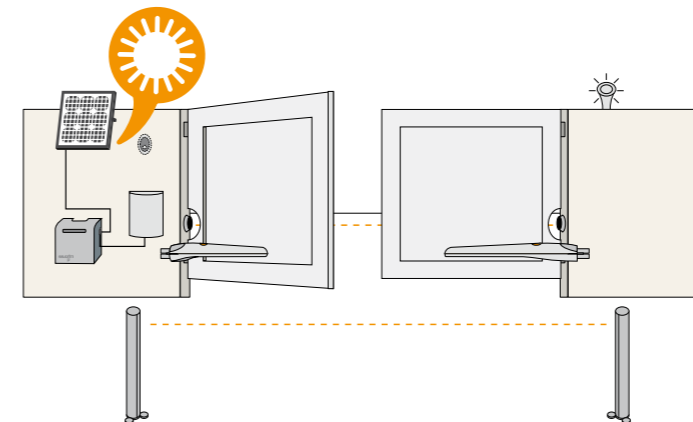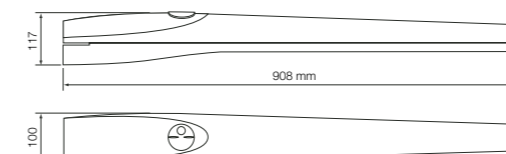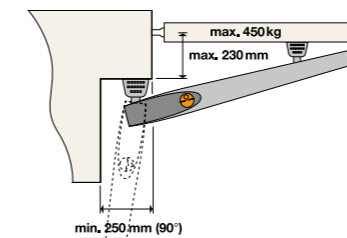**PT100** Two 945 mm high posts including two pairs of photocells.

EL1 12 V electric lock interface.

PR1 Buffer battery for emergency power supply.

The most powerful, for swing gates
WG20S kit

Kit for the automation of a residential two-leaf gate, each leaf measuring up to 4.5 m in width or weighing up to 450 kg for leaf.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Strength and elegance: WG20S, with its die-cast aluminium casing that will match any style, can open the heaviest gates without effort.

No welding required: adjustable multi-position brackets.

No waiting in front of the gate: only 20 seconds to open and close. (in perfect installation conditions, making the most of the whole run and with a 90° opening).

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: WG20 automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

max. 450 kg
max. 230 mm
min. 250 mm (90°)
117
908 mm
100

Technical characteristics

Power supply (Vac)	230
Power (W)	150
Torque (Nm)	1800
Speed (mm/sec)	0.013 ÷ 0.024
Travel (mm)	540 (480)*
Protection class (IP)	44
Weight (kg)	10
Certification	CE

* Data with opening/closing limit switch between brackets
For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	949x391x166
Package weight (kg)	23.25
Palletization (pz)	14
EAN Code	8032595792307

The content of the package may vary: consult the retailer.

WG20s

mhouse

new design

Ready to ☀

Each Kit SL1S contains:

1 SL1SC Electromechanical gear motor with integrated control unit and 433.92 MHz variable code receiver. 3 Mhouse release keys and mounting plate included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

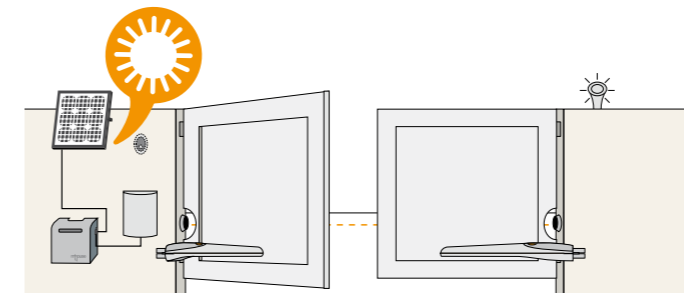**PT50** Two 485 mm high posts including one pair of photocells.

PT100 Two 945 mm high posts including two pairs of photocells.

PR1 24 V buffer battery for emergency power supply.

CR100 Nylon gear rack with steel core, four 1-metre sections
CR25 one 1-metre sections.

Compact and elegant, for sliding gates
SL1S kit

Kit for automation of a residential sliding gate weighing up to 400 kg and 5 m max. long.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Reliable and noiseless: mechanical parts made of metal, die-cast painted aluminium base, gear motor mounted on bearings.

No waiting in front of the gate: only 18 seconds to open and close (in perfect installation conditions, for a sliding gate 4 m long).

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

max. 400 kg

295 mm

163

300

Technical characteristics

Power supply (Vac)	230
Power (W)	300
Thrust (N)	330
Speed (m/sec)	0.16 ÷ 0.25
Protection class (IP)	44
Weight (kg)	9
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	560x210x360
Package weight (kg)	11.30
Palletization (pz)	21
EAN Code	8032595792291

The content of the package may vary: consult the retailer.

SL1ˢ

mhouse
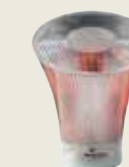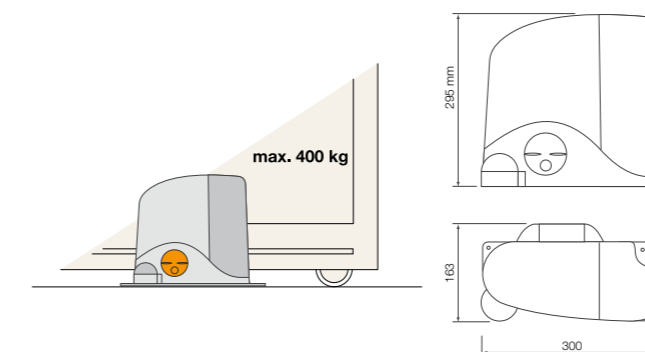
Each Kit SL10S contains:

1 SL10SC Electromechanical gear motor with integrated control unit and 433.92 MHz variable code receiver. 3 Mhouse release keys and mounting plate included.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

PH100 Pair of wall-mounted autosynchronized photocells.

FL100 Adjustable flashing light, with built-in aerial.

Optional accessories

PF Solar power kit.

PBC Battery charger power supply unit, for PF.

DS1 13-key digital switch with programmable code, via radio.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PT50 Two 485 mm high posts including one pair of photocells.

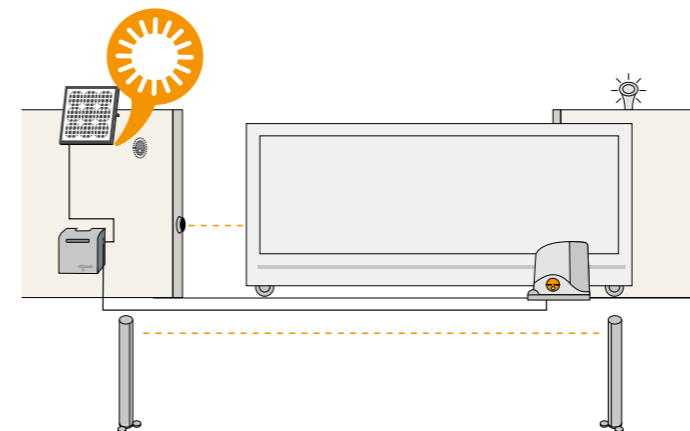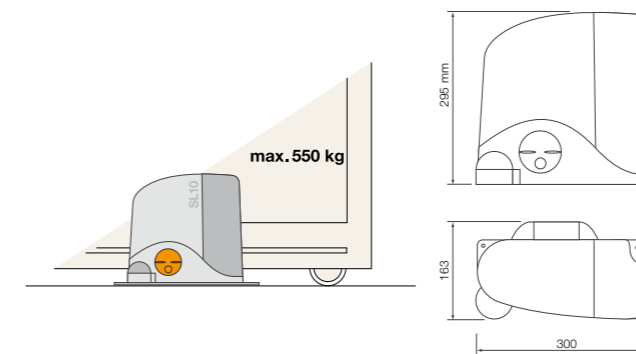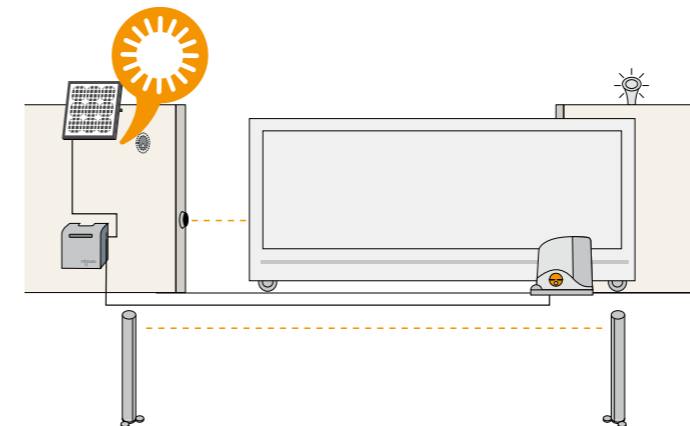**PT100** Two 945 mm high posts including two pairs of photocells.

PR1 24 V buffer battery for emergency power supply.

CR100 Nylon gear rack with steel core, four 1-metre sections
CR25 one 1-metre sections.

The strong solution, for sliding gates
SL10S kit

Kit for automation of a residential sliding gate weighing up to 550 kg and 7 m max. long.

New:

Compatibility with MhouseKit PF, the kit for Solar power automations, to automate gates without the need for connections to the electrical mains, even in locations far away or difficult to access.

New Design for accessories.

Reliable and noiseless: mechanical parts made of metal, die-cast painted aluminium base, gear motor mounted on bearings.

No waiting in front of the gate: only 23 seconds to open and close (in perfect installation conditions, for a sliding gate 4 m long).

Extra safe thanks to the low-voltage connections (24 V), the safety accessories and the automatic obstacle detection feature.

Auto-programming: automatically calculates the most suitable operating parameters for each gate.

Autodiagnostic system identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Quick motor release for manual gate operation.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

max. 550 kg

296 mm

163

300

Technical characteristics

Power supply (Vac)	230
Power (W)	420
Thrust (N)	475
Speed (m/sec)	0.12 ÷ 0.18
Protection class (IP)	44
Weight (kg)	10
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	560x210x360
Package weight (kg)	11.80
Palletization (pz)	21
EAN Code	8032595792284

The content of the package may vary: consult the retailer

Each Kit GD0N contains:

1 GD0N Electromechanical 24 V gear motor with integrated control unit and 433.92 MHz variable code receiver, belt drive on galvanized steel guide, emergency release device.
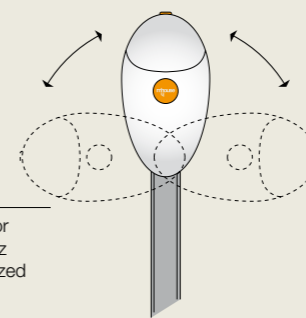
2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

Optional accessories

GA1 Oscillating arm sliding on bearings. **Compulsory for counterbalanced up-and-over doors.**

GU1 Kit for external release using steel cord.

Optional accessories

PH00 Pair of wall-mounted autosynchronized photocells.

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

DS1 13-key digital switch with programmable code, via radio.

FL100 Adjustable flashing light, with built-in aerial.

User-friendly and quick to install in any garage
GD0N

Kit for automation of a sectional door up to 3.7 m in width and up to 2.4 m high and up-and-over doors* up to 3.5 m in width and up to 2.8 m high.

* with GA1 accessory

New:

New Design for accessories.

For quick installation in any space, with 180° adjustable head.

Reliable and noiseless: mechanical parts made of metal, belt drive with sturdy steel core, high-resistance galvanized steel guide **(three 1-meter pieces).**

Powerful timed courtesy light: 21 W.

No waiting in front of the gate: only 18 seconds to open and close (in perfect installation conditions, for a sectional door 2.5 m high).

Maximum safety ensured by the low voltage connections (24 V), the safety accessories and the magnetic encoder: automatic obstacle detection feature, with extra sensitive cut-in threshold thanks to **mapping of the force along the entire travel.**

Auto-programming: GD0N automatically calculates the most suitable operating parameters for each door.

Autodiagnostic system: identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
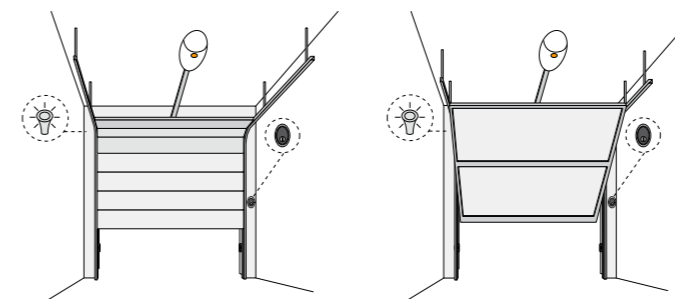- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Manual release for manual door operation in case of power failures.

Installation

min. 0 mm
max. 400 mm

min. 40 mm
max. 400 mm

212 mm

3 m

154

392

Technical characteristics

Power supply (Vac)	230
Power (W)	200
Thrust (N)	550
Speed (m/sec)	0.08 ÷ 0.14
Travel (mm)	2500
Protection class (IP)	40
Weight (kg)	3
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	1.033x245x188
Package weight (kg)	14.50
Palletization (pz)	15
EAN Code	8032595792253

The content of the package may vary: consult the retailer

mhouse
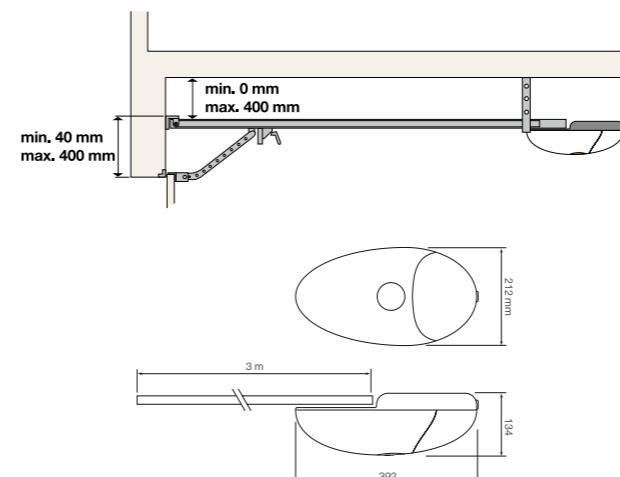
Safety and comfort, for garage doors
GD1N

Kit for automation of a residential sectional garage up to 4.4 m wide and up to 2.4 m high and up-and-over doors* up to 4.2 m wide and up to 2.8 m high.

* with GA1 accessory

New:

New Design for accessories.

Pre-assembled for quick installation in any space, with 360° adjustable head.

Reliable and noiseless: mechanical parts made of metal, belt drive with sturdy steel core, high-resistance galvanized steel guide **(three 1-meter pieces).**

Powerful timed courtesy light: 21 W.

No waiting in front of the gate: only 15 seconds to open and close (in perfect installation conditions, for a sectional door 2.5 m high).

Maximum safety ensured by the low voltage connections (24 V), the safety accessories and the magnetic encoder: automatic obstacle detection feature, with extra sensitive cut-in threshold thanks to **mapping of the force along the entire travel.**

Auto-programming: GD1N automatically calculates the most suitable operating parameters for each door.

Autodiagnostic system: identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
- Automatic recognition of NC-NO- 8.2 KOhm safety devices, if installed.

Manual release for manual door operation in case of power failures.

Each Kit GD1N contains:

1 GD1N Pre-assembled electromechanical 24 V gear motor with integrated control unit and 433.92 MHz variable code receiver, belt drive on galvanized steel guide, emergency release device.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

Optional accessories

GA1 Oscillating arm sliding on bearings. **Compulsory for counterbalanced up-and-over doors.**

GU1 Kit for external release using steel cord.

Optional accessories

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PH100 Pair of wall-mounted autosynchronized photocells.

DS1 13-key digital switch with programmable code, via radio.

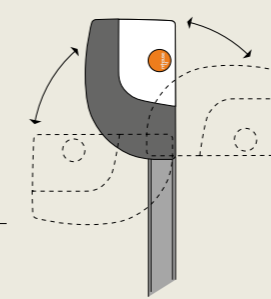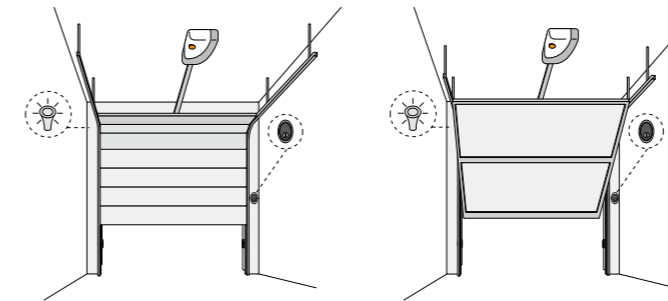**FL100** Adjustable flashing light, with built-in aerial.

PT50 Two 485 mm high posts including one pair of photocells.

Installation

min. 40 mm max. 400 mm

min. 0 mm max. 400 mm

4 m

376

246 mm

125

Technical characteristics

Power supply (Vac)	230
Power (W)	250
Thrust (N)	600
Speed (m/sec)	0.10 ÷ 0.18
Travel (mm)	2500
Protection class (IP)	40
Weight (kg)	4
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	1.050x215x250
Package weight (kg)	14.90
Palletization (pz)	15
EAN Code	8032595792277

The content of the package may vary: consult the retailer

GD1N

mhouse

Each Kit GD10N contains:

1 GD10N Pre-assembled electromechanical 24 V gear motor with integrated control unit and 433.92 MHz variable code receiver, belt drive on galvanized steel guide, emergency release device.

2 GTX4 433.92 MHz, 4 button variable code transmitters. Practical wall rest included in the package.

Optional accessories

GA1 Oscillating arm sliding on bearings. **Compulsory for counterbalanced up-and-over doors.**

GU1 Kit for external release using steel cord.

Optional accessories

KS100 Two-position (open/stop) key-operated selector switch with pair of metal keys.

PH100 Pair of wall-mounted autosynchronized photocells.

DS1 13-key digital switch with programmable code, via radio.

FL100 Adjustable flashing light, with built-in aerial.

PT50 Two 485 mm high posts including one pair of photocells.

PR1 24 V buffer battery for emergency power supply.

The maximum power, for garage doors
GD10N

Kit for automation of a residential sectional garage up to 5.2 m wide and up to 3.4 m high and up-and-over doors* up to 5 m wide and up to 3.5 m high.

* with GA1 accessory.

New:

New Design for accessories.

Pre-assembled for quick installation in any space, with 360° adjustable head.

Reliable and noiseless: mechanical parts made of metal, belt drive with sturdy steel core, high-resistance galvanized steel guide **(four 1-meter pieces).**

Powerful timed courtesy light: 21 W.

No waiting in front of the gate: only 23 seconds to open and close (in perfect installation conditions, for a sectional door 3.5 m high).

Maximum safety ensured by the low voltage connections (24 V), the safety accessories and the magnetic encoder: automatic obstacle detection feature, with extra sensitive cut-in threshold thanks to **mapping of the force along the entire travel.**

Auto-programming: GD10N automatically calculates the most suitable operating parameters for each door.

Autodiagnostic system: identifies and immediately signals any connection errors or malfunctions.

Modular control card with integrated receiver
- 2 speeds
- Timed and adjustable automatic closing function
- Programming of new transmitters (up to 150)
- Adjustable partial opening function
- Pause time adjustment
- Obstacle sensitivity adjustment
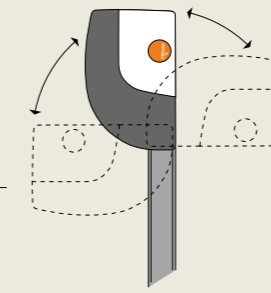- Automatic recognition of NC-NO-8.2 KOhm safety devices, if installed.

Manual release for manual door operation in case of power failures.

No black-out: the buffer batteries guarantee up to ten opening and closing manoeuvres even in the event of power outages (accessory).

Installation

min. 0 mm
max. 400 mm

min. 40 mm
max. 400 mm

245 mm

4 m

125

376

Technical characteristics

Power supply (Vac)	230
Power (W)	370
Thrust (N)	1000
Speed (m/sec)	0.10 ÷ 0.15
Travel (mm)	3500
Protection class (IP)	40
Weight (kg)	5
Certification	CE

For updated and complete information, consult the product technical manual.

Packaging characteristics

Package dimensions (mm	1.050x215x250
Package weight (kg)	15.90
Palletization (pz)	15
EAN Code	8032595792260

The content of the package may vary: consult the retailer

GD10N

1 RM 45 mm diameter 230 Vac tubular gear motor with mechanical limit-switch, equipped with hardware pack.
RM15, 15 Nm torque
RM30, 30 Nm torque
RM45, 45 Nm torque.

Ø48
17
M5
Ø61,5
Ø36
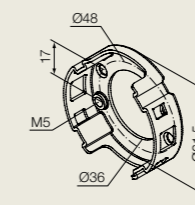
1 535.10010 Plate support with 2 M5 threaded holes

60 mm

1 515.06000 Octagonal 60 wheel + crown

585.10200 Key for limit switch adjustment

Optional accessories

RT3N Awnings and rolling shutters radiocontrol Kit:
- 1 RC1 control unit
- 3 button STX1 transmitter with wall bracket.

78 mm

515.17800 Round Ø 80 Notch 78 wheel + crown.

70 mm

515.17000 Notch Ø 70 wheel + crown.

Comfort and safety, for all shutters and sun awnings
RM15 - RM30 - RM45

Kit for rolling shutter or awning automation, featuring 45 mm diameter tubular motors.

Reduced dimensions: only 507 mm in total length ideal for the narrowest of shutters and awnings and in the most confined of roller enclosures.

Convenience: powerful, noiseless and reliable motor mounted on bearings.

Easy installation
- avec les adaptateurs de type octogonal
- with the special octagonal adapter and support provided
- simple and precise adjustment of limit positions on opening and closing thanks to mechanical limit switch
- pre-connected 3-metre motor cable; immediate connection to activation buttons.

Radio controlled **with the kit RT3N, composed of a control unit with RC1 receiver and a 3 button STX1 transmitter (optional):** easy to install and ready to use.
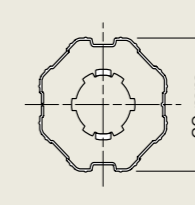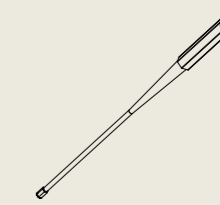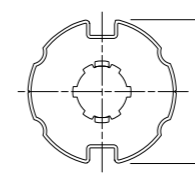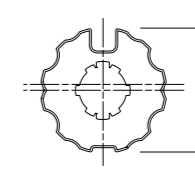
Technical characteristics

15 507 mm 31,5
1,5
17,5

Rolling shutters: measure the area of the shutter, height by width = m²

Max m²	2.8	5	5.6	9	10	16
Wood	RM15	RM30	RM30	RM45	-	-
Aluminium/PVC	RM15	RM15	RM30	RM30	RM30	RM45

With 60 mm adapter

Awnings: once the diameter of the tube has been established, intersect the projection value with the number of awning arms

Ø Tube		70		78	
Number of arms		2	4	2	4
Arm projection (m)	1.5	RM15	RM30	RM15	RM30
	2	RM30		RM30	RM45
	2.5			RM30	
	3		RM45	RM45	
	4	RM45			
	5		-	-	-

For updated and complete information, consult the product technical manual.

	RM15	RM30	RM45
Power supply (Vac)		230	
Power (W)	170	250	248
Lifted weight* (kg)	28	56	90
Torque (Nm)	15	30	45
Speed (Rpm)	17	17	12
No. of turns before stop		30	
Cable length (m)		2.5	
Certification		CE	

* Value calculated with roller diameter of 60 mm.
For updated and complete information, consult the product technical manual.

Packaging characteristics

	RM15	RM30	RM45
Package dimensions (mm)	550x100x100	550x100x100	550x100x100
Package weight (kg)	2.6	2.8	2.8
Palletization (pz)	150	150	150
EAN Code	8032595791119	8032595791126	8032595790419

The content of the package may vary: consult the retailer.

mhouse

Each Kit RMEN contains:

1 RMEN Tubular gear motor Ø 45 m, 230 Vac with built-in control unit, receiver, electronic limit-switches and hardware pack
RME15N, 15 Nm torque
RME30N, 30 Nm torque
RME45N, 45 Nm torque.

1 STX1 3 buttons variable code transmitters. Practical wall rest included in the package.

1 535.10010 Sheet steel support with two M5 threaded holes.

1 515.06000 Octagonal 60 wheel + ring.

Optional accessories

STX1, STX2, STX4 1, 2, 4 channels for the control of single automations or groups.

DS1 13-key digital switch with programmable code, via radio.

515.17800 Round Ø 80 - Cap 78 wheel + ring.

515.17000 Cap Ø 70 wheel + ring.

525.10012/M6AX **max 30 Nm** Bracket kit and square pivot 10 mm threaded holes.

Advanced performance, for rolling shutters and sun awnings
RME15N - RME30N - RME45N

Kit for rolling shutter or awning automation, including a 45 mm diameter tubular motors. Built-in control unit and receiver, electronic limit switch and encoder movement control.

New:

New Design for accessories.

Exclusive and functional design: even more compact motor head.
Reduced dimensions: only 507 mm in total length ideal for the narrowest of shutters and awnings and in the most confined of roller enclosures.

Comfort: powerful, noiseless and reliable.

Easy installation thanks to the special octagonal adapter and support provided.

Safe: shutter stop with shutdown of movement in event of obstacles and repetition of manoeuvre in the presence of ice or bolts engaged.

Built-in control unit and receivers: easy remote programming and exclusive functions.

Safe transmissions: receiver at 433,92 MHz with self-learning mode, Rolling Code with over 4.5 million billion combinations.

Easy and comfortable **(STX1) radio controlled limit switch adjustment, without having to open the shutters box.** Possibility of programming a stop at an **intermediate position.**

Visual signals simplify programming phases.

Maximum functionality: STX1 transmitter included (already memorised) possibility of controlling multiple motors with optional STX4 transmitter.

Easy remote entry of transmitters with no need for connection to the motor.

Encoder technology: millimetric precision and maintenance of set values over time; stress on the shutter always optimal and constant.

Perfect closure of housing with encoder and automatic adjustment of canvas tension to avoid unsightly tension failure and guarantee constantly perfect movements.
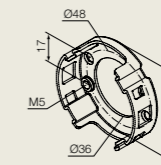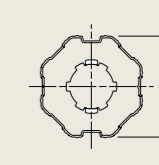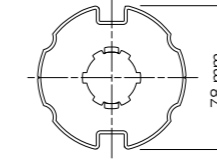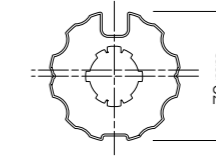
Technical characteristics

Rolling shutters: measure the area of the shutter, height by width = m²

Max m²	2.8	5	5.6	9	10	16
Wood	RME15	RME30	RME30	RME45	-	-
Aluminium/PVC	RME15	RME15	RME30	RME30	RME30	RME45

With 60 mm adapter

Awnings: once the diameter of the tube has been established, intersect the projection value with the number of awning arms

Ø Tube		70		78	
Number of arms		2	4	2	4
Arm projection (m)	1.5	RME15	RME30	RME15	RME30
	2	RME30		RME30	RME45
	2.5	RME30		RME30	RME45
	3		RME45	RME45	RME45
	4	RME45			
	5	RME45	-	-	-

For updated and complete information, consult the product technical manual.

	RM15	RM30	RM45
Power supply (Vac)		230	
Power (W)	170	250	248
Lifted weight* (kg)	28	56	90
Torque (Nm)	15	30	45
Speed (Rpm)		17	12
No. of turns before stop		< 150	
Cable length (m)		2.5	
Certification		CE	

* Value calculated with roller diameter of 60 mm.

Packaging characteristics

	RM15	RM30	RM45
Package dimensions (mm	550x100x100	550x100x100	550x100x100
Package weight (kg)	2.6	2.8	2.8
Palletization (pz)	150	150	150
EAN Code	8032595791133	8032595791140	8032595790570

The content of the package may vary: consult the retailer.

Awnings and rolling shutters radiocontrol kit
RT3N

Kit consisting of one control unit with RC1 receiver and a 3-button STX1 transmitter to radio control any rolling shutter, awning or rolling garage door.

The STX1 transmitter, produced for the control of rolling shutters and awnings, has three buttons, up, stop and down, and thanks to the 18 billion billion variable code combinations, guarantees absolute security.

Built-in 433.92 MHz radio receiver possibility of memorising up to 30 transmitters.

RC1 control unit is suitable for all RM and RS series tubular motors or any motor up to 500 W.

Compact size: only 98x26x20 mm.

Protection class: IP55.

Complete with wall bracket.

User-friendly installation and ready for use immediately.

RC1 technical characteristics

Possibility of remote control	all Mhouse transmitters range
Power supply (Vac)	230
Power (W)	500
Dimensions (mm)	98x26x20
Weight (gr)	45

STX1 technical characteristics   See page 43

Lighting, irrigation and burglar systems controlled by a single remote control
RC2

To control at a distance lighting, irrigation, burglar and alarm systems using the same STX4 transmitter used for the gate and garage door automation.

The control unit is suitable to supply loads with 230 Vac mains supply and an output of 500 W.

Compact size: only 98x26x20 mm.

Protection class: IP55

Built-in 433.92 MHz radio receiver: with over 18 billion billion combinations and the possibility of memorising up to 30 transmitters.

User-friendly installation and ready for use immediately.

Internal terminal board for connection.

Automatic switch off: possibility of programming 2 indipendent timers from a minimum of 0.5" to a maximum of approximately 9 hours.

Maximum control versatility with 2 transmitter memorisation modes Modo I: ON - OFF with separate buttons Modo II: ON - OFF - Man present - Timer.

RC2 technical characteristics

Power supply (Vac)	230
Power (W)	500
Manoeuvre duration (sec)	Timer 1 Timer 2 from 0.5" to 540'
Programmable functions (Mode 1)	On-Off
Programmable functions (Mode 2)	On - Off - Man Present - Timer 1 - Timer 2
Dimensions (mm)	98x26x20
Weight (gr)	45

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Transmitter
GTX4

Miniaturized transmitter for gates and garage doors, 433.92 MHz rolling code system with self-learning function.

Code	Description
GTX4	4 keys for control automation systems or automation groups.

Total security ensured by the variable code with 18 billion billion combinations!

Unclonable: the code varies with each transmission according to an algorithm that masks the code and does not show any relation with the following ones, which can only be recognized by the Mhouse receiver: the same technology used in antitheft systems.

Convenience: 4 keys for control of as many devices, transmission confirmation led, key ring eyelet. Very autonomous and lightweight with the two 3 V lithium batteries.

Practical wall rest included in the package.

Technical data	
Frequency (MHz)	433,92
Coding	Digital 64 bits (18 billion billion)
Range (m)	50-100
Power supply	6 V +20% -40% with CR2016 type lithium batteries
Buttons	4
Dimensions (mm)	72x31x11h
Weight (gr)	18

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Transmitter
STX1

Transmitter for awnings and rolling shutters 433.92 MHz rolling code system with self-learning function.

Code	Description
STX1	3 keys for control automation systems or automation groups. Open - Stop - Close.

The STX1 transmitter with its three up, stop and down keys, has been specifically produced for the control of rolling shutters and awnings.

Convenience: transmission confirmation led, key ring eyelet. Very autonomous and lightweight with the two 3 V lithium batteries.

Total security ensured by the variable code with 18 billion billion combinations!

Unclonable: the code varies with each transmission according to an algorithm that masks the code and does not show any relation with the following ones, which can only be recognized by the Mhouse receiver: the same technology used in antitheft systems.

All under control: management of up to 5 Open-Stop- Close automation systems or automation groups.

Practical wall rest included in the package.

Technical data	
Frequency (MHz)	433,92
Coding	Digital 64 bits (18 billion billion)
Range (m)	50-100
Power supply	6 V +20% -40% with CR2016 type lithium batteries
Buttons	3
Dimensions (mm)	72x31x11h
Weight (gr)	18

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Receiver
R2

Pre-wired receiver: 2 variable code outputs with 433.92 MHz transmission frequency and self-learning function.

Easy installation: the colour-coded terminals enable quick, error-proof connections.
This universal receiver can also be used with pre-existing automations.

Two outputs for control of as many devices, which can be freely linked to any key on the transmitter.

Convenience: programming key for transmitter memorization.
Remote code memorization using an authorized transmitter.
A LED confirms that the transmitter is operational.

Technical characteristics	
Frequency (MHz)	433.92
Memory (no. of transmitters)	256
Power supply (Vac-Vdc)	12-24
Outputs	2
Dimensions (mm)	86x57x22h
Weight (gr)	55

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Digital switch
DS1

Digital switch with programmable code, via radio.

Radio digital switch with programmable code 13-key radio digital switch: wireless easy installation. Compatible with the Mhouse receivers with rolling code technology. It generates 18 billion billion combinations, with self-learning functions.

Complete: 3 transmission channels to control as many automations. Light-up-when-necessary button.

Safe: 9.999.999.999 possible combinations by choosing a number from 0 up to 10 figures.

Clever: very easy code-changing. The same system used for mobile phone with PUK code in case you forget the one you programmed.

Cheap: extra low consumption, transmission is activated when any key is pressed and it switches itself off automatically.

Technical specifications	
Frequency (MHz)	433.92 ± 100KH
Radio coding	rolling code 64bit
Range (m)	100; 35 if inside buildings
Power supply	6 Vdc with 2 CR2430 type lithium batteries
Battery life (estimated)	2 years with 10 transmissions per day
No. of figure combination	from 0 to 10
Protection rating (IP)	44
Dimensions (mm)	65x95x33
Weight (g)	260

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Key switch
KS100

new design

Two-position key-operated selector switch.

Easy installation: the colour-coded terminals enable quick, error-proof connections.

Convenience: LED helps locate the selector switch even in total darkness.
Equipped with two metal keys.
Possibility of commanding two different functions associated with the turning direction of the key.

Security: electronics protected by a second plastic enclosure to prevent damage during installation.

Sturdiness: extra thick polycarbonate body.

Protection class: IP55.

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Photocells
PH100 - PH00

new design

Pair of wall-mounted autosynchronized photocells.

PH100, easy installation with the Mhouse ECSBus system: only two wires are required for connection of the main system components, and there is no need to follow any particular order!
Wasting time connecting to the photocell terminals is no longer necessary, simply connect the two wires at any point within the system.

Convenient jumpers for selection of the required function.
Up to 7 pairs of photocells can be installed without worrying about their proximity.

PH00, pair of synchronised traditional photocells (without ECSBus System).
Only for GD0N.

Common features

Maximum security: electronics protected by a second plastic enclosure to prevent damage during installation.
The antidazzle circuit protects you from blinding glares generated by the sun or other powerful light sources.

Convenience: very simple alignment thanks to the LED signal with proportional flashing.

Sturdiness: extra thick polycarbonate body.

Technical characteristics	
PH100 power supply	Provided directly by the ECSBus system
PH00 power supply	Standard 12-24 Vac/Vdc
Protection class (IP)	55

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Posts
PT50 - PT100

High posts, with a pre-assembled photocell on each, adjustable height.

PT50 pair of 485 mm high posts, with a pre-assembled photocell on each, adjustable height.

PT100 pair of 945 mm high posts, with two pre-assembled photocells on each, adjustable height.

Easy installation with the Mhouse ECSBus system: only two wires are required for connection of the main system components.
The colour-coded terminals, enable quick, error-proof connections.
Wasting time connecting to the photocell terminals is no longer necessary, simply connect the two wires at any point within the system.

Sturdy and elegant: made of profiled aluminium with polycarbonate front and shock-resistant base.

Convenience: very simple alignment thanks to the LED signal with proportional flashing. Convenient jumpers for selection of the required function.

Maximum security: electronics protected by a second plastic enclosure to prevent damage during installation.
The antidazzle circuit protects you from blinding glares generated by the sun or other powerful light sources.
Suitable for Mhouse systems of any size, since up to 7 pairs of photocells can be installed without worrying about their proximity.

Technical characteristics

Power supply	Provided directly by the ECSBus system
Protection class (IP)	55

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Interface
EL1

12 V electric lock interface.

Practical: Electronic locks fitted on swing gate automatisms can be activated by means of the EL1 device.

Only compatible with:

1. Initial release type electronic locks (single command impulse at the beginning of the opening manoeuvre), with a maximum power supply of 12 Vac 15 VA

2. Mhouse control units having the "EL1" indication on the FLASH output.

Technical characteristics

Flashing light output	For indicator lights with 12V, max. 21W bulb.
Electronic lock output:	12 Vac - max. 15 VA
Electronic lock activation time:	approx. 2 s.
Protection class (IP)	30
Dimensions (mm)	60x59x422 with flaps, 60x38x422 without flaps
Weight (gr)	50

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new design

Flashing light
FL100

Adjustable flashing light with integrated aerial for 433.92 MHz frequency.

Easy installation: can be mounted in any position using the base designed for wall or horizontal installation.

Maximum security: with diffuser that rotates 360° to aim the signal in the most suitable direction.
High efficiency lenses optimise visibility.

Integrated aerial, invisibile from the outside for protection against vandalism.

Convenience: easy availability and replacement of the powerful lamp used in the automotive industry.

Durability: shock-resistant polycarbonate structure.

Technical characteristics

Power supply	Provided directly by the Mhouse system
Power (W)	21
Protection class (IP)	55

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Buffer battery
PR1 - PR2

24 V buffer battery for emergency power supply.

Convenience: operation during power failures guaranteed by the PR1 or PR2 buffer batteries housed inside the control unit, which can be connected using a convenient plug-in connector.

Mhouse won't let you down even during black-outs: at least ten opening and closing manoeuvres guaranteed.

Incorporated control unit: it controls batteries recharging, extending their life and always providing for the maximum charge when a black out happens.

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