

CATALOGUE **2014**

**TELCOMA**  
GATE AUTOMATION SINCE 1980







## TELCOMA: INNOVATION LIVES HERE.

Talking of research today means having faith in tomorrow, imagining real, practical and sustainable development: a future tailored to our needs.

With this spirit, the Telcoma Research and Development Centre plays a central role in all company business, piloting developments in the design of systems, solutions and original patents with increasing reliability, but above all ever oriented towards the ease of use and energy savings. Testimonies to this approach are the new systems ASY and ACE601, which respectively represent the new generation of operators and gearmotors for swing and sliding gates and doors. Jewels of technology, a direct expression of Telcoma design and expertise. The same philosophy also lies behind the brand new PRG-LINK wireless connection systems, the innovative strategy that through the R&D centre invests in increasingly more human and technological resources, to guarantee quality levels destined to redefine sector standards.

## THE TELCOMA IMAGE, THE NEW FACE OF EFFICIENCY.

In line with its position as an advanced technological leader, increasingly oriented towards evolution, Telcoma is proud to present its new company graphics, now even more in harmony with the personality of the Riello Elettronica Group.

At the basis of the restyling lies the logo, with a professional, strong visual impact, highlighting from the very first business pragmatism and consistency with the reference sector. At the centre of the logo, the orange characters suggest the icon form of a lock, to underline the company mission and all the values of safety, strength and reliability of Telcoma.

At the foot of the logo, the trademark is completed by a pay-off, which with "gate automation" defines the unmistakable core business, while "since 1980" capitalises on the history of the trademark to enhance prestige.





**NEW**

## **ASY,** ASY, STRENGTH IN THE ARM.

Sturdy, stylish, practical; the key features of the Telcoma design of ASY, the new electromechanical operator for swing gates with high potential and painstaking design down to the smallest detail. And talking of performance, ASY can transfer all the power of the new electric motors (24 and 230V) thanks to an innovative mechanical reduction and shutdown system. As regards practicality, ASY is highly versatile and adaptable to most power-operated doors and gates, achieving maximum precision and smooth operation when controlled by the Encoder sensor and Telcoma electronic control units.

The release section has also been completely renewed, making it even easier and more intuitive for the user. Overall product aesthetics are also top quality, available in a variety of colours to blend in with any type of architecture.

## **ACE601,** THE MIDDLEWEIGHT CHAMPION.

This is the exclusive gearmotor in the intermediate range, destined to revolutionise the ACE range for sliding doors from 400 to 600Kg. The components and their layout have been completely revised, starting from the control unit, located at the top and placed horizontally for more rational and quick connections. ACE 601 offers the new features of a 24V electric motor, versatile in terms of both loads and speed, with integrated board protection in insulating material and new mechanical solutions to increase smoothness of movement and sensitivity to obstacles.

An optimised and highly competitive product, perfectly in line with the new Telcoma philosophy aimed at reducing installation times, with no compromise in terms of quality and safety.

## **PRG-LINK.** CONNECTED TO THE FUTURE.

Telcoma once again confirms its record achievements in research and innovation with the system PRGLINK, a Wi-Fi interface dedicated to programming, control and diagnostics of the latest generation of control units. Exploiting the graphic potential of an application managed via a normal web browser, PRG - LINK enables the operator to access an infinite range of options to customise each individual systems, to ensure constant optimal operation. A laptop, tablet or smart phone is all that's needed, and obviously a PRG-LINK connection, to run precise diagnostic processes for targeted and successful intervention. A new way of working, quickly and practically, designed for those working daily on automatic doors and gates, and who in the future wish to manage systems also via remote and long distance Wi-Fi connections.



## ICONS

# LEGEND



NEW

New 2013



24V

24 Vdc power supply



ENCODER

System equipped with encoder for safe and precise operations



SLOWING

System with slowing down in opening and closing



SUN POWER

Article predisposed to work with Sun Power, Telcoma's PV system



WiFi

Article predisposed for WiFi



OIL BATH

Oil bath system



HYDRAULIC

Hydraulic system



INTENSIVE

Intensive use



INDUSTRIAL

Industrial use



TÜV APPROVED

TÜV Rheinland certified product, following EMC and LVD Rules and EN ISO 13849-1:2008



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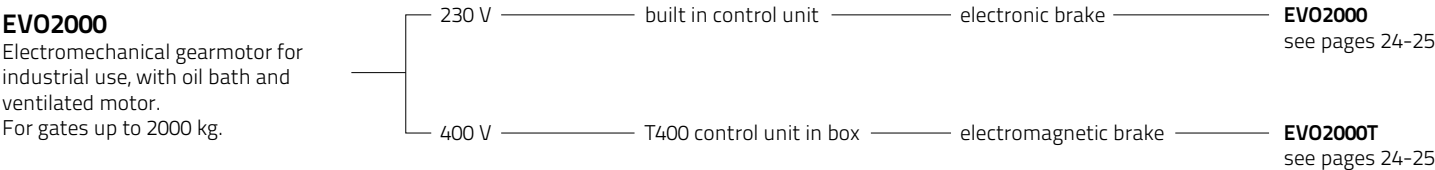
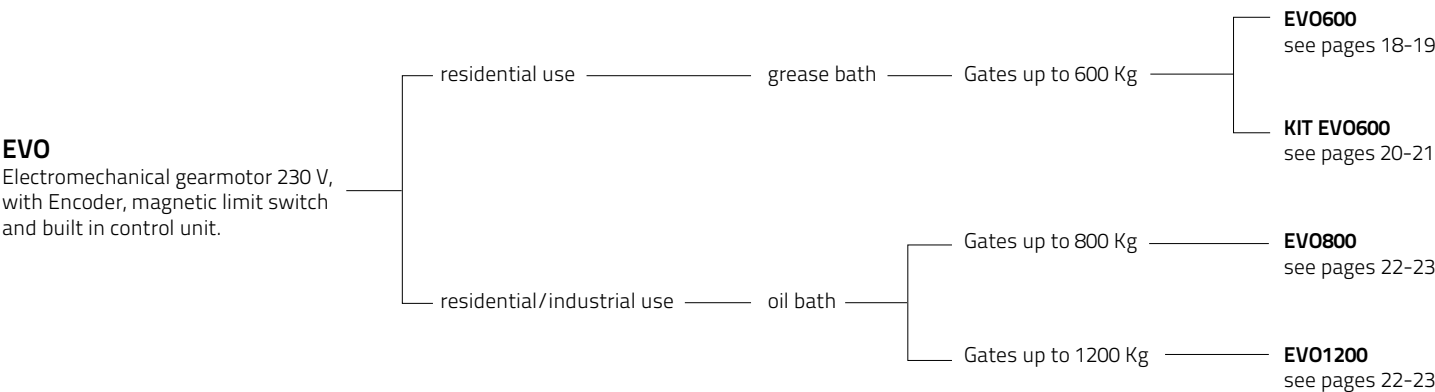
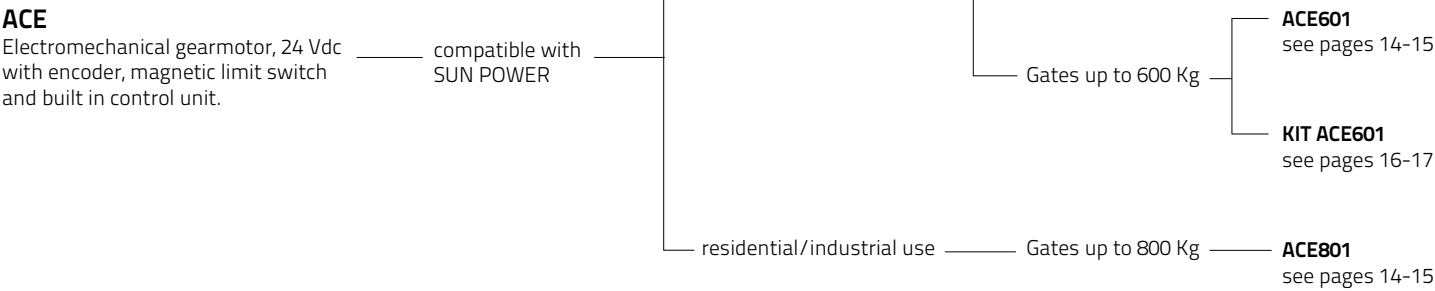




# SLIDING **GATES**

SLIDING GATES

# SELECTION GUIDE





**ACE FAST**



**ACE 401/601/801**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE



WiFi

Available on all 4 models

Only ACE  
401/601/801



**EVO600/800/1200**



ENCODER



SLOWING



OIL BATH



INTENSIVE



INDUSTRIAL

Available on all 3 models

Only EVO800/1200



**EVO2000/2000T**



ENCODER



SLOWING



OIL BATH



INDUSTRIAL

Only EVO2000

Available on both models

# KIT ACEFAST N

## IRREVERSIBLE GEARMOTOR FOR SLIDING GATES



ENCODER



SLOWING



24V



SUN POWER

Kit with electromechanical gearmotor ideal for residential sliding gates. Complete with encoder, magnetic limits and advanced built-in control unit.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function. The buffer batteries (optional) are housed directly inside the motor.

**Fast** adjustable speed up to 16 m/minute.

**Reliable** with a sturdy aluminum base treated against oxidation and a powerful 24 Vdc motor on bearings.

### KIT CONTAINING:

#### ACE FAST

24 V electromechanical gearmotor, with encoder, magnetic limit switch and built in control unit. **For gates up to 300 kg.**



#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).



#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).



#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).



#### LACO 24AL

Flashing light with built in antenna (see also page 115).

#### SUPLACO

Flashing light support (see also page 115).

Fixing accessories and warning sign included.

TECHNICAL SPECIFICATIONS	KIT ACE FAST N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT ACE FAST N	GENERAL DATA	KIT ACE FAST N
Motor power supply	24 V	Model	AF124	Working temperature	-20 +55 °C
Max. motor current	4 A	Power supply	230 V	Protection level	IP 44
Motor power	100 W	Max. current	0,5 A	Weight	9,5 Kg
Max. torque	15 Nm	Electronic slow down	YES	Pallet	21 pz
Thrust	340 N	Compatible with Sun Power	YES		
Max. gate weight	300 Kg				
Actuator speed	10-16 m/min				
Work cycles	40%				
Encoder	YES				
Magnetic limit switch	YES				
Grease lubricant	TS10				



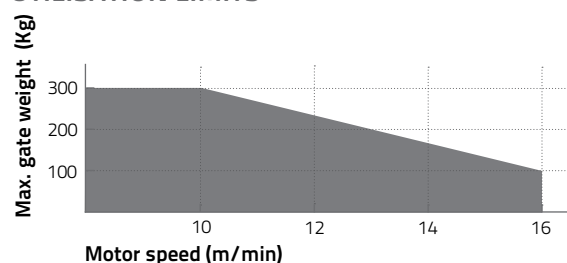
# KIT ACEFAST N

## INSTALLATION DIAGRAM

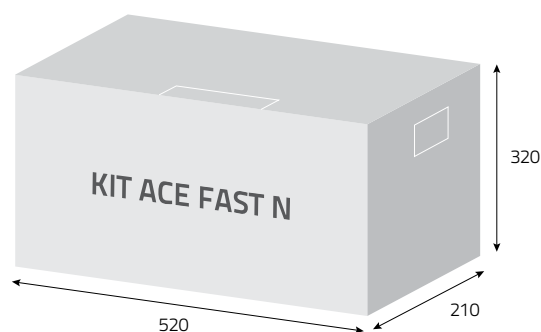
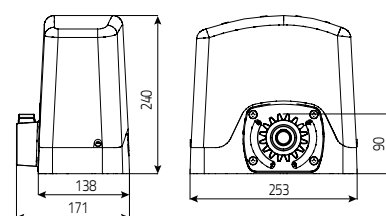


- 1. Motor
- 2. Transmitter
- 3. Photocells
- 4. Flashing light
- 5. Selector
- 6. Sun Power
- 7. Photovoltaic panel

## UTILISATION LIMITS



## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### CREM8

Metal rack. M4 30x8 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAC

Screwable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



### CB24

24 V battery charger. Suitable for 24 V control units. **BAT12V1A2PI** Battery 12V 1,2Ah. To be added on board of the motor.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### RVS

Mechanical brake for gates on sloping ground.



# ACE401 / 601 / 801

**TELCOMA**  
GATE AUTOMATION SINCE 1980



Electromechanical gearmotors with integrated control unit.

Three models with different application limits guaranteed by new mechanical solutions and 24V motor with encoder control. The control units are intuitive in programming and easy to connect thanks to the new internal layout. Possibility of connecting two gearmotors in Master and Slave configuration for automations with opposing door leaves.

**Safe** thanks to the sensitivity of internal sensors that detect the obstacle, slowing down ramps and the option of direct control of 8K2 safety edges.

**Versatile** with the new Prg-LINK which enables control and programming of main control unit parameters. Height and positioning of gearmotor with millimetric settings and release with encoded key.

**Reliable** with sturdy base in corrosion treated aluminium and magnetic limit switch with integrated sensor.



## ACE 401

Gearmotor for **sliding gates up to 400 Kg.**

## ACE 601

Gearmotor for **sliding gates up to 600Kg.**

## ACE 801

Gearmotor for **sliding gates up to 800Kg.**

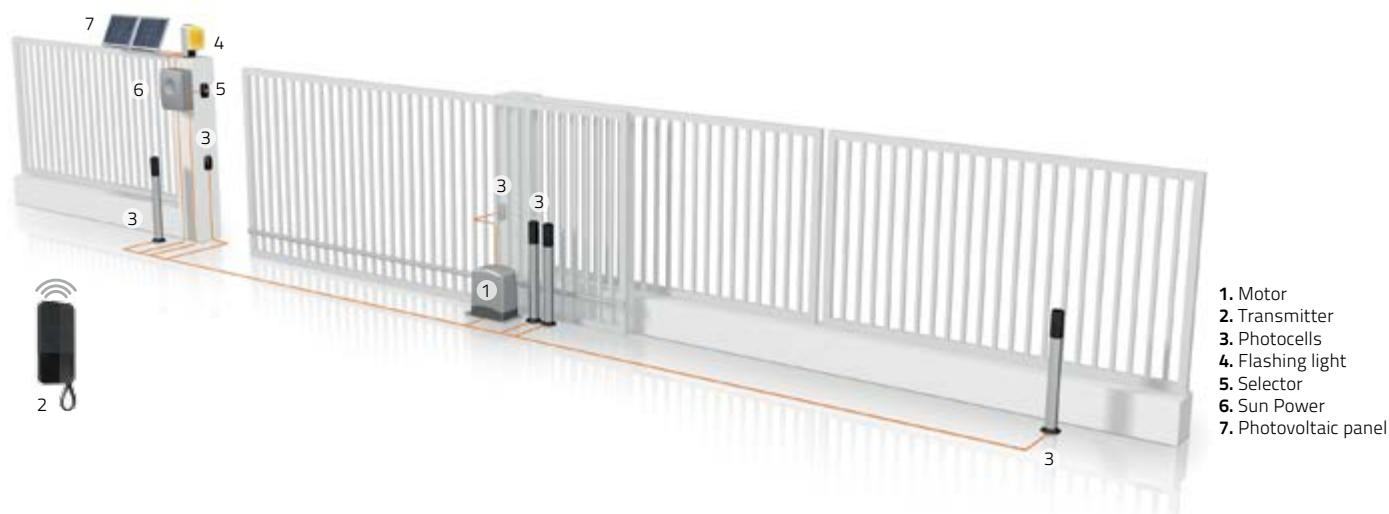


Central unit

TECHNICAL SPECIFICATIONS	ACE401	ACE601	ACE801	TECHNICAL SPECIFICATIONS A124A4/6/8 BUILT IN CONTROL UNIT		GENERAL DATA	ACE401	ACE601	ACE801
Motor power supply	24 Vdc	24 Vdc	24 Vdc	Voltage supply	230 V	Working temperature	-20 +55°C	-20 +55°C	-20 +55°C
Max. motor current	6 A	8 A	12 A	Power supply	2 A	Protection level	IP44	IP44	IP44
Motor power	150 W	250 W	300 W	Max. current	YES	Weight	12,5 Kg	13 Kg	13,5 Kg
Max thrust	400 N	600 N	800 N	Speed regulation	YES	Pallet	30 pcs	30 pcs	30 pcs
Max gate weight	400 Kg	600 Kg	800 Kg	Master and Slave configuration YES					
Actuator speed (m/min)	10	16	10	Double input 8K2 for safety edges	YES				
Work cycles	intensive	intensive	intensive	Compatible with Prg-LINK	YES				
Type of central unit	A124A4	A124A6	A124A8	Compatible with Sun Power	YES				
Encoder	YES	YES	YES						
Magnetic limit switch	YES	YES	YES						
Grease lubricant	TS10	TS10	TS10						

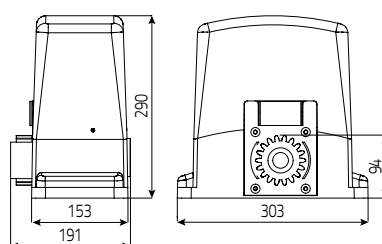
# ACE401/601/801

## INSTALLATION DIAGRAM



1. Motor
2. Transmitter
3. Photocells
4. Flashing light
5. Selector
6. Sun Power
7. Photovoltaic panel

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### SERIE OC2

2 channels plug in receiver.



### CREM8

Metal rack. M4 30x8 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### CB24

24 V battery charger. Suitable for 24 V control units.



### SPB24

External box with 2 batteries 12V 7Ah. For Ace601/801



### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### CPEVO

Base plate.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



### RVS

Mechanical brake for gates on sloping ground.



# KIT ACE601 N

## IRREVERSIBLE GEARMOTOR FOR SLIDING GATES

**TELCOMA**  
GATE AUTOMATION SINCE 1980



Kit with electromechanical gearmotors with integrated control unit. New mechanical solutions and 24V motor with encoder control. Control units are intuitive in programming and easy to connect thanks to the new internal layout. Possibility of connecting two gearmotors in Master and Slave configuration for automations with opposing door leafs.

**Safe** thanks to the sensitivity of internal sensors that detect the obstacle, slowing down and the option of direct control of 8K2 safety edges.

**Versatile** with the new Prg-LINK which enables control and programming of main control unit parameters. Height and positioning of gearmotor with millimetric settings and release with encoded key.

**Reliable** with sturdy base in corrosion treated aluminium and magnetic limit switch with integrated sensor.

### KIT CONTAINING:

#### ACE601

24 V electromechanical gearmotor, with encoder, magnetic limit switch and built in control unit. **For gates up to 600 kg.**



#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).



#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).



#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).



#### LACO 24AL

Flashing light with built in antenna (see also page 115).

#### SUPLACO

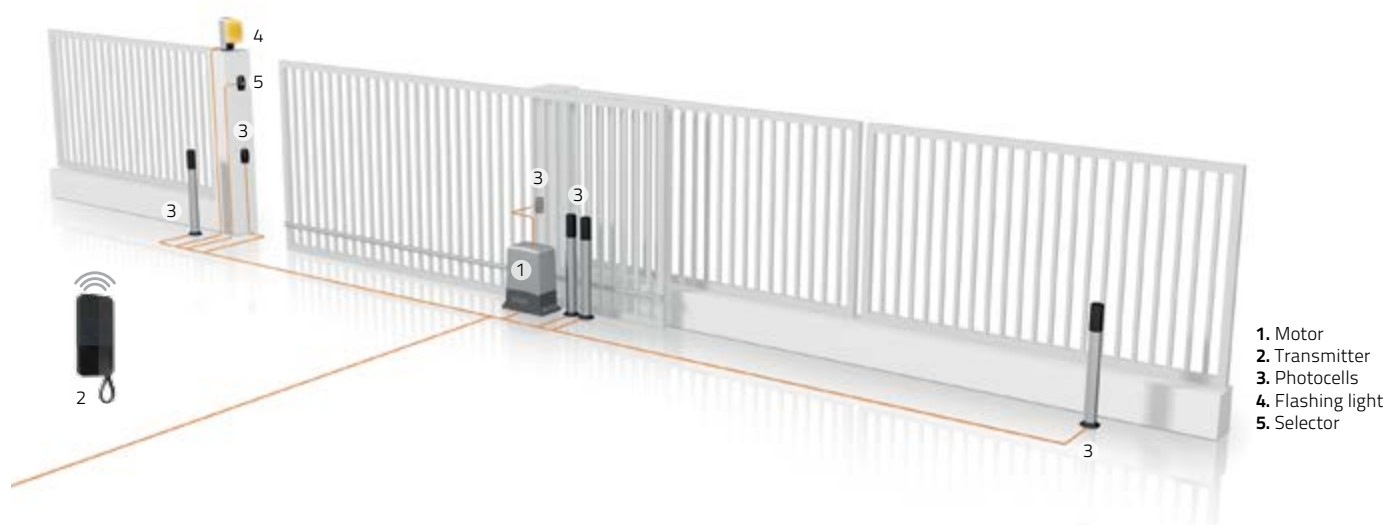
Flashing light support (see also page 115).

Fixing accessories and warning sign included.

TECHNICAL SPECIFICATIONS	ACE601	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	A124A6	GENERAL DATA	ACE601
Motor power supply	24 Vdc	Tensione di alimentazione	230 V	Working temperature	-20 +55°C
Max. motor current	8A	Power supply	2 A	Protection level	IP44
Motor power	250 W	Max. current	YES	Weight	13 Kg
Max. torque	600 N	Speed regulation	YES	Pallet	21 pcs
Max gate weight	600 Kg	Master and Slave configuration	YES		
Actuator speed (m/min)	16	Double input 8K2 for safety edges	YES		
Work cycles	intensive	Compatible with Prg-LINK	YES		
Type of central unit	A124A6	Compatible with Sun Power	YES		
Encoder	YES				
Magnetic limit switch	YES				
Grease lubricant	TS10				

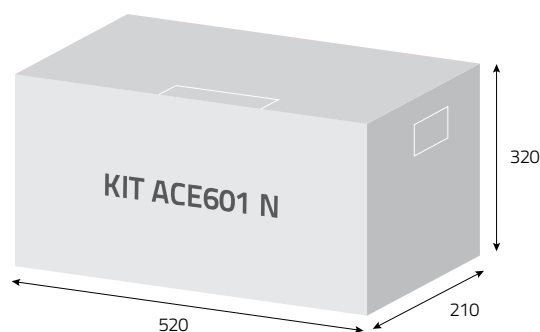
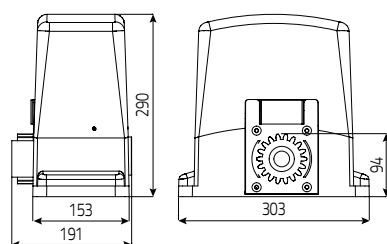
# KIT ACE601

## INSTALLATION DIAGRAM



1. Motor
2. Transmitter
3. Photocells
4. Flashing light
5. Selector

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### CREM8

Metal rack. M4 30x8 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



### CB24

24 V battery charger. Suitable for 24 V control units.

### SPB24

External box with 2 batteries 12V 7Ah. For Ace601/801



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### CPEVO

Base plate.



### RVS

Mechanical brake for gates on sloping ground.



# EVO600

## IRREVERSIBLE GEARMOTOR FOR SLIDING GATES



SLOWING



ENCODER

Electromechanical gearmotor ideal for sliding gates up to 600 Kg. Complete with encoder, magnetic limits and built built-in control unit.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Versatile** fixing plate with adjustable height and depth.

**Reliable** with a sturdy aluminum base treated against oxidation and a powerful 230 Vac motor on bearings. Manual release with coded lock.

### EVO 600

230 V electromechanical gearmotor in grease bath with electronic limit switch, encoder and built in central unit. **For gates up to 600 kg.**



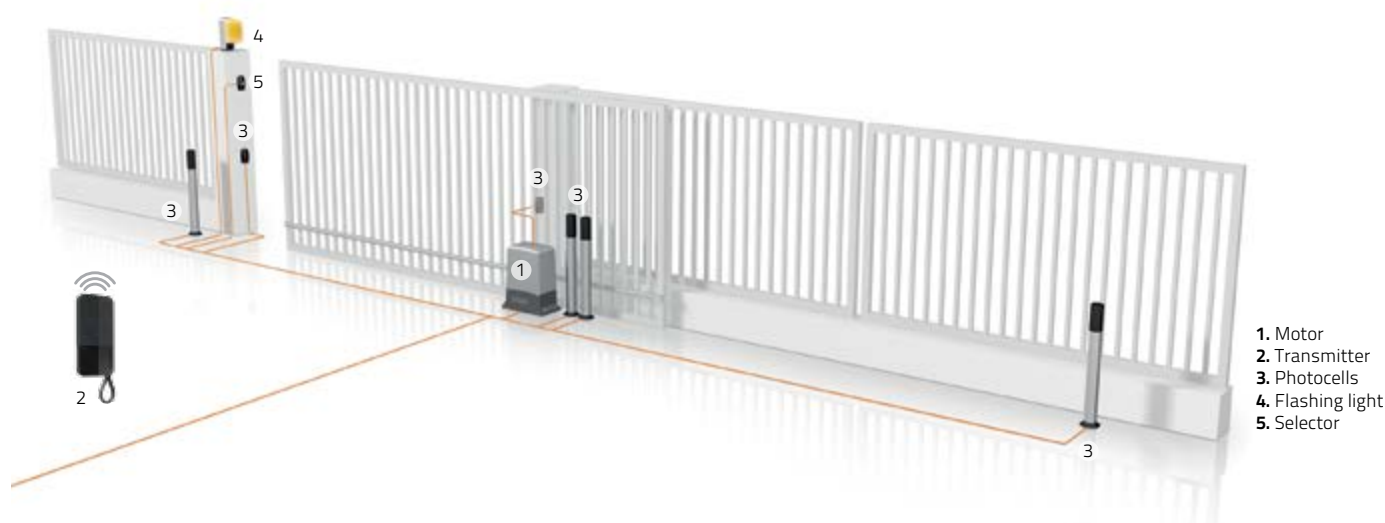
release key

TECHNICAL SPECIFICATIONS	EVO600	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	EVO600	GENERAL DATA	EVO600
Motor power supply	230 V	Model	T101	Working temperature	-20+55 °C
Max. motor current	3,4 A	Power supply	230 V	Protection level	IP 44
Motor power	800 W	Max. current	6,3 A	Weight	14 Kg
Max. torque	21 Nm	Electronic slow down	YES	Pallet	30 pcs
Thrust	540 N				
Max gate weight	600 Kg				
Actuator speed	10 m/min				
Work cycles	40%				
Encoder	YES				
Magnetic limit switch	YES				
Thermal protection	150 °C				
Grease lubricant	TS10				



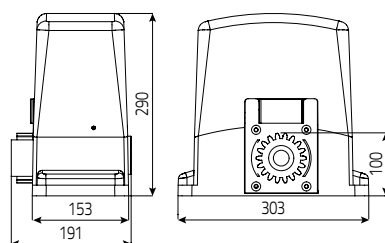
# EVO600

## INSTALLATION DIAGRAM



- 1. Motor
- 2. Transmitter
- 3. Photocells
- 4. Flashing light
- 5. Selector

## QUOTE



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### KIT SBLESTEVO

External unlocking kit.



### CREM8

Metal rack. M4 30x8 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### SERIE OC2

2 channels plug in receiver.



### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### CPEVO

Base plate.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### RVS

Mechanical brake for gates on sloping ground.



### DAC

Screwable spacers for CREM12 and CREM8. Pack of 30 pcs



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



# KIT EVO600 N

## IRREVERSIBLE GEARMOTOR FOR SLIDING GATES

**TELCOMA**  
GATE AUTOMATION SINCE 1980



SLOWING



ENCODER

Kit with electromechanical gearmotor ideal for sliding gates up to 600 Kg. Complete with encoder, magnetic limits and built-in control unit.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Versatile** fixing plate with adjustable height and depth.

**Reliable** with a sturdy aluminum base treated against oxidation and a powerful 230 Vac motor on bearings. Manual release with coded lock.



### KIT CONTAINING:

#### EVO 600

230 V electromechanical gearmotor in grease bath with electronic limit switch, encoder and built in control unit. **For gates up to 600 kg.**

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).

#### LACO 220A

Flashing light with antenna (see also page 115).

#### SUPLACO

Flashing light support (see also page 115).

Fixing accessories and warning sign included.

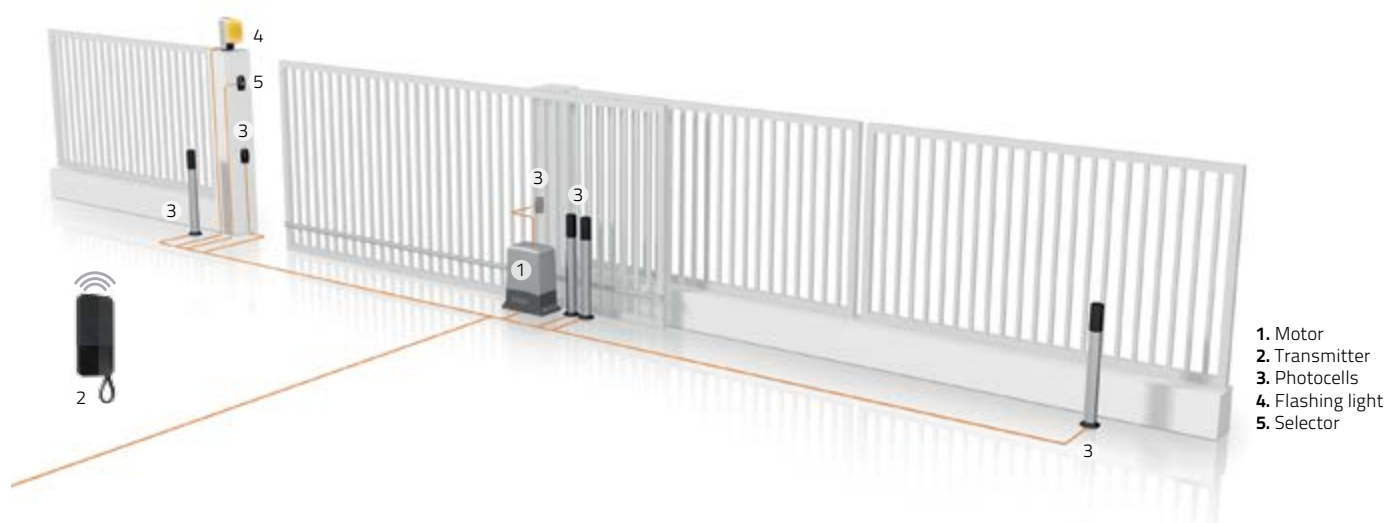


TECHNICAL SPECIFICATIONS	KIT EVO600 N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT EVO600 N	GENERAL DATA	KIT EVO600 N
Motor power supply	230 V	Model	T101	Working temperature	-20 +55 °C
Max. motor current	3,4 A	Power supply	230 V	Protection level	IP 44
Motor power	800 W	Max. current	6,3 A	Weight	15 Kg
Max. torque	21 Nm	Electronic slow down	YES	Pallet	21 pcs
Thrust	540 N				
Max gate weight	600 Kg				
Actuator speed	10 m / min				
Work cycles	40%				
Encoder	YES				
Magnetic limit switch	YES				
Thermal protection	150 °C				
Grease lubricant	T510				

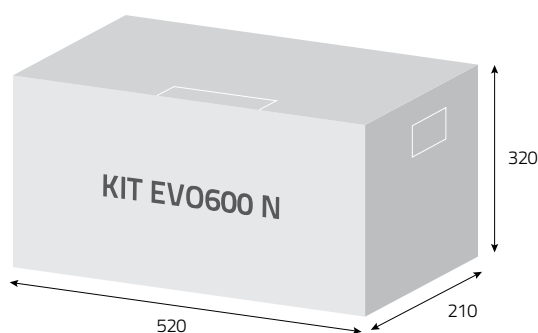
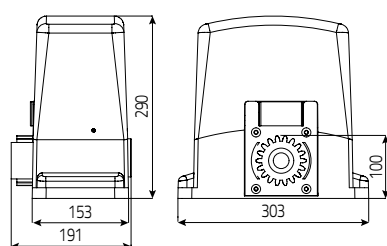


# KIT EVO600 N

## INSTALLATION DIAGRAM



## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### KIT SBLESTEVO

External unlocking kit.



### CREM8

Metal rack. M4 30x8 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### CPEVO

Base plate.



### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### RVS

Mechanical brake for gates on sloping ground.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAC

Screwable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



# EVO800/1200

## OILBATH GEARMOTORS FOR SLIDING GATES



ENCODER



SLOWING



OIL BATH



INTENSIVE



INDUSTRIAL

Electromechanical gearmotor in oilbath ideal for industrial sliding gates up to 800/1200 Kg. Complete with encoder, magnetic limits and built built-in control unit.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Versatile** fixing plate with adjustable height and depth

**Reliable** with a sturdy aluminum base treated against oxidation and all moving parts in oilbath.

**Constant performance** over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature using HOT (optional). Manual release with coded lock.

### EVO 800

230 V electromechanical gearmotor in oil bath with electronic limit switch, encoder and built in control unit. **For gates up to 800 kg.**

### EVO 1200

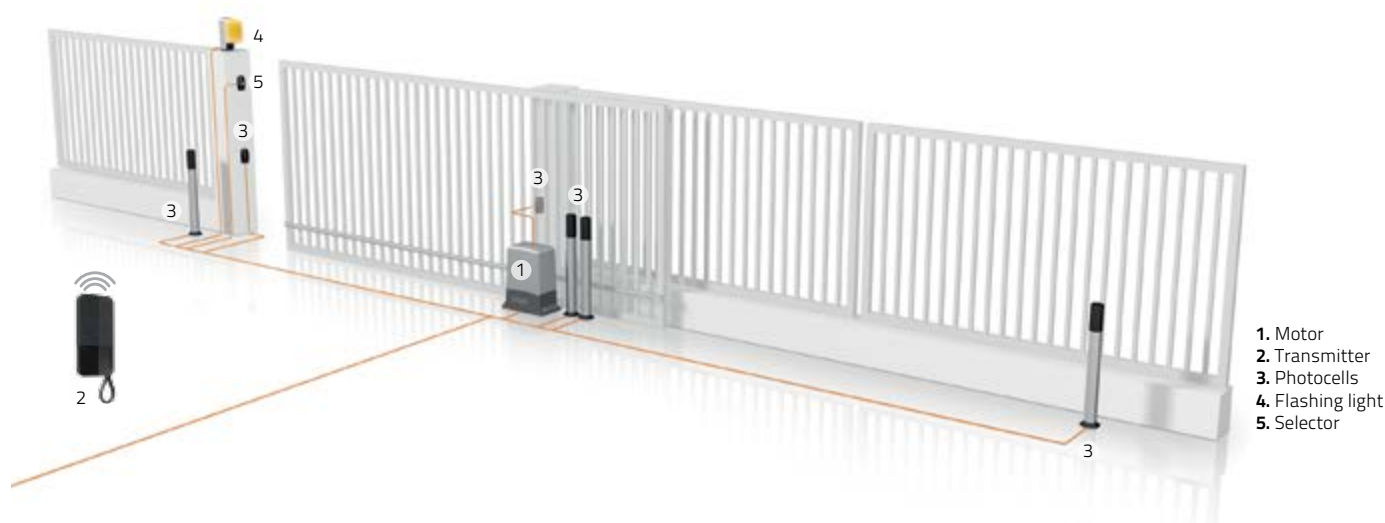
230 V electromechanical gearmotor in oil bath with electronic limit switch, encoder and built in control unit. **For gates up to 1200 kg.**



TECHNICAL SPECIFICATIONS	EVO800	EVO1200	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	EVO 800/1200	GENERAL DATA	EVO800	EVO1200
Motor power supply	230 V	230 V	Model	T101	Working temperature	-20 +55 °C	-20 +55 °C
Max. motor current	3,4 A	5,2 A	Power supply	230 V	Protection level	IP 44	IP 44
Motor power	800 W	1100 W	Max. current	6,3 A	Weight	15 Kg	17 Kg
Max. torque	24 Nm	45 Nm	Electronic slow down	YES	Pallet	30 pcs	30 pcs
Thrust	640 N	1200 N					
Max gate weight	800 Kg	1200 Kg					
Actuator speed	10 m/min	10 m/min					
Work cycles	intensive	intensive					
Encoder	YES	YES					
Magnetic limit switch	YES	YES					
Thermal protection	150 °C	150 °C					
Oil lubricant	TS20	TS40					

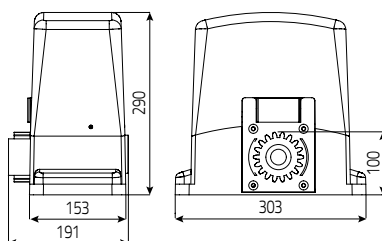
# EVO800/1200

## INSTALLATION DIAGRAM



- 1. Motor
- 2. Transmitter
- 3. Photocells
- 4. Flashing light
- 5. Selector

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM P

Plastic rack with steel core. M4 28x22 mm, complete with washers and self boring screws 6,3x25. Pack of 10 pcs 1 m each.



### KIT SBLESTEVO

External unlocking kit.



### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### SERIE OC2

2 channels plug in receiver.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### HOT

Electronic heating system with temperature sensor, for 230V motors..



### DAC

Screwable spacers for CREM12 and CREM8. Pack of 30 pcs.



### TS20

Oil for EVO800. 5 liters.

### TS40

Oil for EVO1200. 5 liters.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



### CPEVO

Base plate.



### RVS

Mechanical brake for gates on sloping ground.



# EVO2000/2000T

## OILBATH GEARMOTORS FOR SLIDING GATES



ENCODER

only EVO2000



SLOWING



OIL BATH



INDUSTRIAL

available on all 3 models

Electromechanical gearmotor in oilbath ideal for industrial sliding gates up to 2000 Kg. Complete with magnetic limits and available in two versions: 230 V and 400 V.

**Safe and precise** thanks to the encoder and the slowing down in opening and closing (230 V), and motor with electromagnetic brake (400 V).

**Versatile** fixing plate with adjustable height and depth.

**Reliable** with a sturdy aluminum base treated against oxidation, all gears in oilbath. **Constant performance** over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature using HOT (optional). Manual release with coded lock.

### EVO2000

**230 V** irreversible electromechanical gearmotor. Electronic brake and built in control unit.

### EVO2000T

**400 V** irreversible electromechanical gearmotor. Dry clutch, electromagnetic brake. Without control unit.

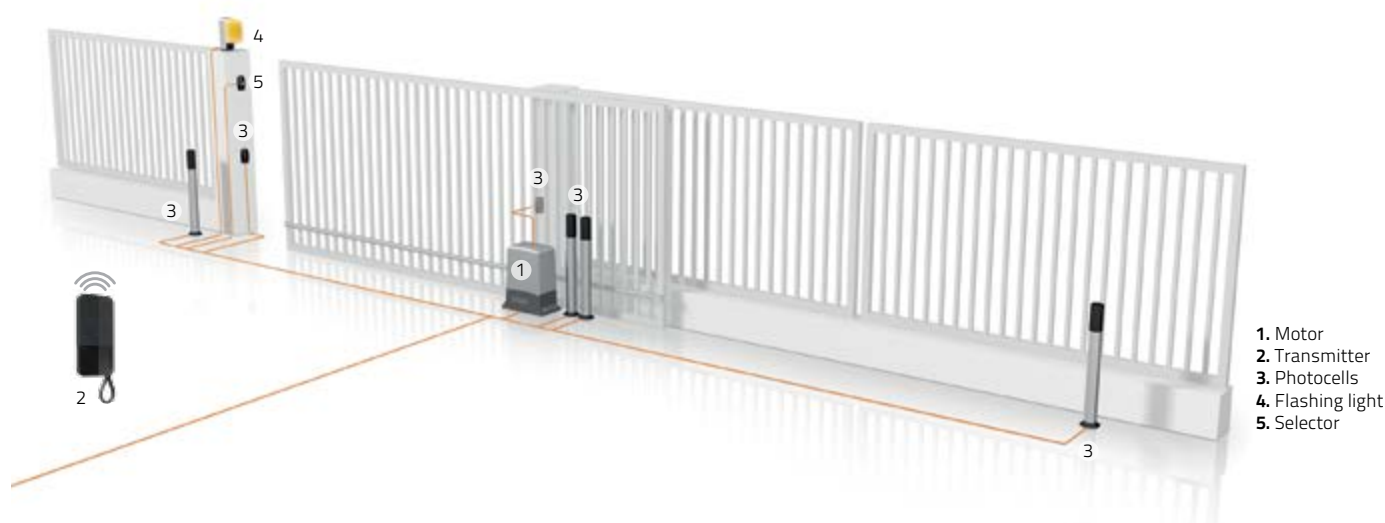


release key

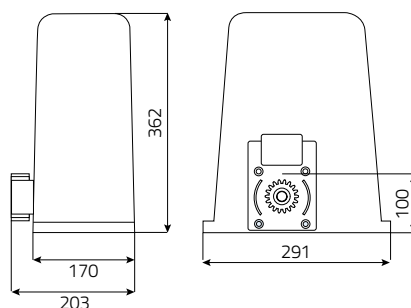
TECHNICAL SPECIFICATIONS	EVO2000	EVO2000T	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	EVO2000	GENERAL DATA	EVO2000	EVO2000T
Motor power supply	230 V	400 V	Model	T101	Working temperature	-20 +55 °C	-20 +55 °C
Max. motor current	4,3 A	2,7 A	Power supply	230 V	Protection level	IP 44	IP 44
Motor power	1000 W	1800 W	Max. current	6,3 A	Weight	21 Kg	22 Kg
Max. torque	50 Nm	90 Nm	Electronic slow down	YES	Pallet	20 pcs	20 pcs
Thrust	1400 N	2500 N					
Max gate weight	2000 Kg	2000 Kg					
Actuator speed	10 m/min	10 m/min					
Work cycles	50%	intensive					
Capacitor	20 µF	-					
Encoder	YES	-					
Magnetic limit switch	YES	YES					
Thermal protection	160 °C	160 °C					
Electromagnetic brake	-	YES					
Oil lubricant	TS60	TS60					

# EVO2000/2000T

## INSTALLATION DIAGRAM



## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### CREM12

Metal rack. M4 30x12 mm, complete with weldable spacers DSC, screws M8x25 TE and washers Ø 8. Pack of 4 pcs 1 m each.



### CREM22

Metal rack. M4 22x22 mm, weldable without spacers. Pack of 4 pcs 1 m each.



### DSC

Weldable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAC

Screwable spacers for CREM12 and CREM8. Pack of 30 pcs.



### DAP

Screwable and adjustable spacers for CREM12 and CREM8. Pack of 3 pcs.



### T400

Control unit for 230V mono-phase or 400V tri-phase motors. Perfect for EVO 2000T.

#### SERIE OC2

2 channels plug in receiver.



### HOT

Electronic heating system with temperature sensor, for 230V motors.



### TS60

Oil for EVO2000 and EVO2000T. 1 liter.



### RVS

Mechanical brake for gates on sloping ground.



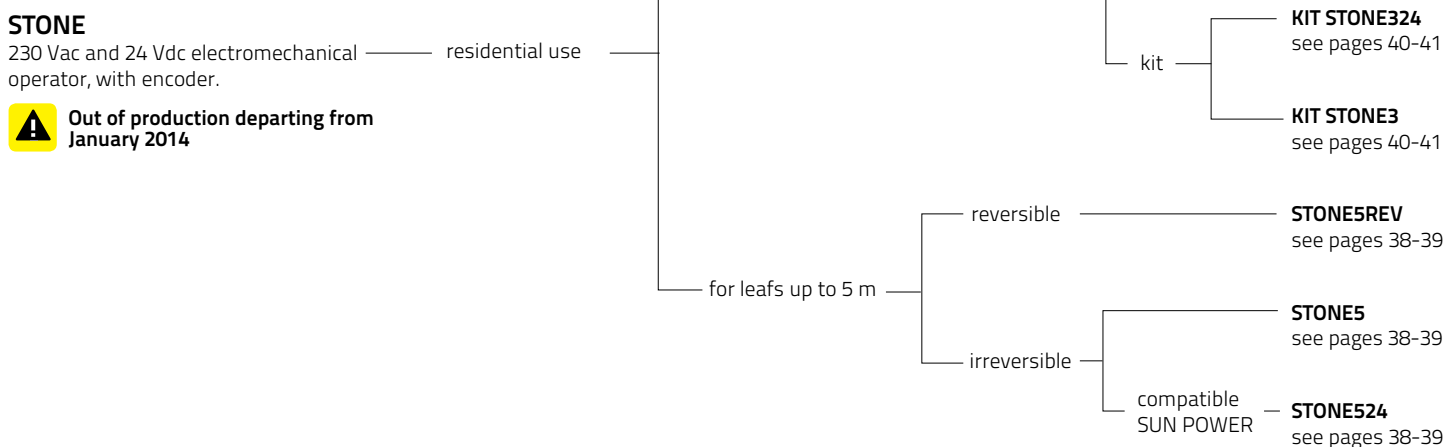
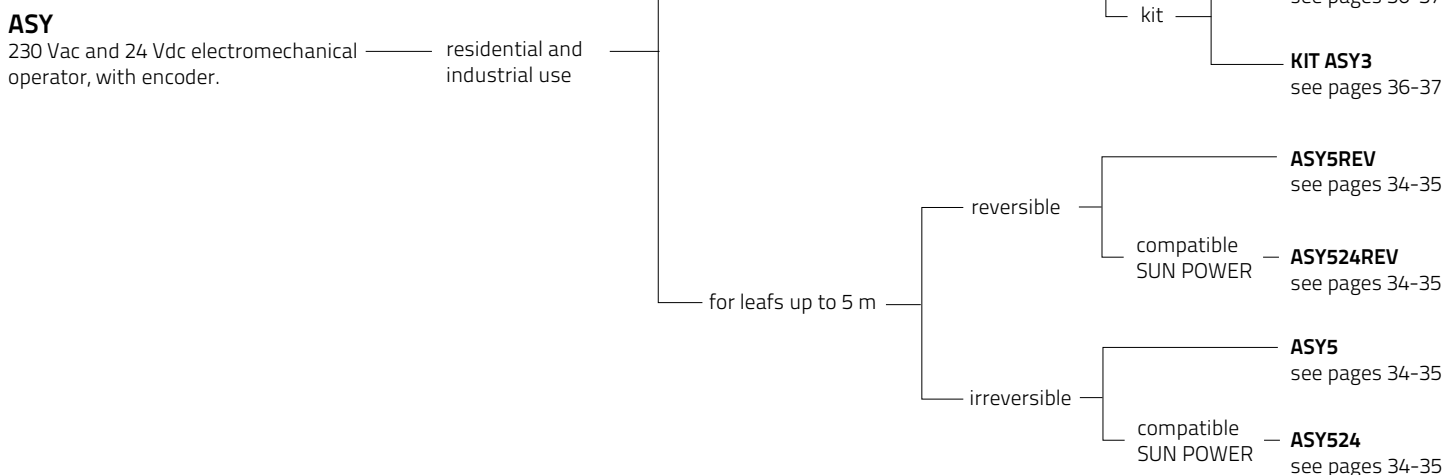




NO  
ADMITTANCE  
AUTHORIZED  
PERSONNEL ONLY



# SWING **GATES**







**ASY**



NEW



ENCODER



SLOWING



INDUSTRIAL



24V



SUN POWER



INTENSIVE

available on all Asy

only ASY3/5 24 V



**STONE**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

available on all Stone

only STONE3/5 24 V

**TAG**  
Reversible electromechanical actuator 24 Vdc with encoder. ——— residential use ——— for leafs up to 2 m ——— compatible SUN POWER ——— **KIT TAG**  
see pages 42-43

**BLUES**  
230 Vac hydraulic actuator. ——— residential/ industrial use ———

- for leafs up to 2,5 m
  - reversible ——— **BLUES3R**  
see pages 44-45
  - irreversible ——— **BLUES3**  
see pages 44-45
- for leafs up to 4,5 m
  - slow down in opening and closing
    - reversible ——— **BLUES5R**  
see pages 44-45
    - irreversible ——— **BLUES5**  
see pages 44-45

**TEN**  
Reversible electromechanical actuator 24 Vdc with encoder. ——— residential use ——— compatible SUN POWER ———

- for pedestrian gates up to 1,2 m ——— **KIT TEN1**  
see pages 46-47
- for 2 leafs up to 1,5 m ——— **KIT TEN2**  
see pages 48-49

**WIKI**  
Irreversible electromechanical actuator 24 Vdc with encoder and mechanical stops. Articulated arm. ——— residential use ——— for leafs up to 2,3 m ——— compatible SUN POWER ——— **KIT WIKI**  
see pages 50-51



**TAG**



ENCODER



SLOWING



24V



SUN POWER



**BLUES**



SLOWING



INTENSIVE



INDUSTRIAL



HYDRAULIC



**TEN1**



**TEN2**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE



**WIKI**



ENCODER



SLOWING



24V

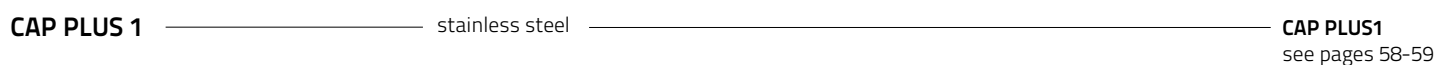
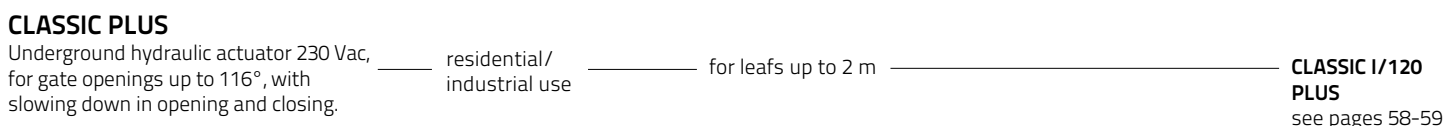
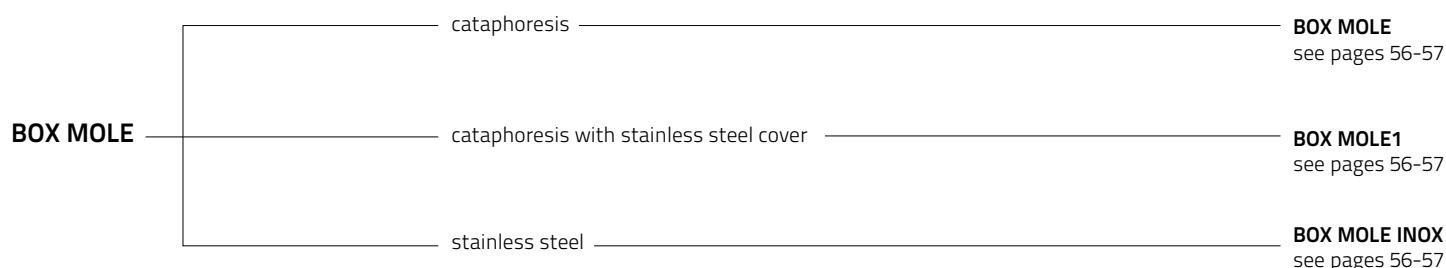
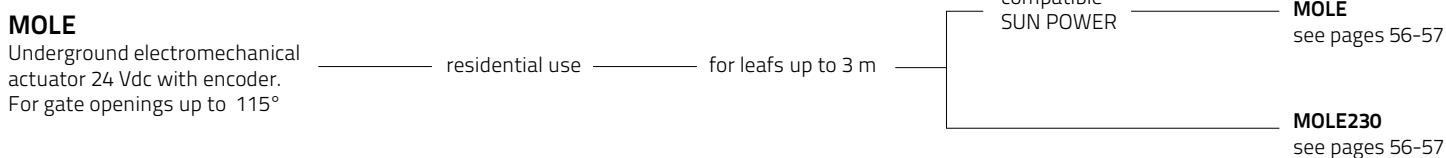
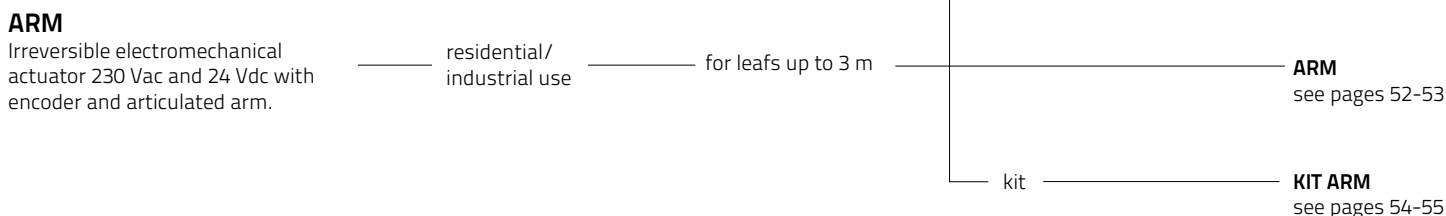


SUN POWER



INTENSIVE

# SELECTION GUIDE





**ARM**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

available on all Arm

only ARM24



**MOLE**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE



**CLASSIC PLUS**



SLOWING



INTENSIVE



HYDRAULIC

# ASY3/5

## ELECTROMECHANICAL PISTON 230/24V FOR SWING GATES



NEW



ENCODER



SLOWING



INDUSTRIAL



24V



SUN POWER



INTENSIVE

available on all Asy

only ASY3/5 24 V



Electromechanical operator, ideal for swing gates up to 5 metres. Equipped with encoder, release with encoded key and rear swing support.

**Safe** thanks to the precision and sensitivity of the encoder.

**Practical** electrical connections and manual release.

**Versatile** in all models and accessories.

**Reliable** with sturdy structure in corrosion treated aluminium.

### ASY3

230 V irreversible electromechanical piston.

**For leafs up to 3 m.**

### ASY3REV

230 V reversible electromechanical piston.

**For leafs up to 3 m.**

### ASY324

24 V irreversible electromechanical piston.

**For leafs up to 3 m.**

### ASY5

230 V irreversible electromechanical piston.

**For leafs up to 5 m.**

### ASY5REV

230 V reversible electromechanical piston.

**For leafs up to 5 m.**

### ASY524

24 V irreversible electromechanical piston.

**For leafs up to 5 m.**

### ASY524REV

24 V reversible electromechanical piston.

**For leafs up to 5 m.**

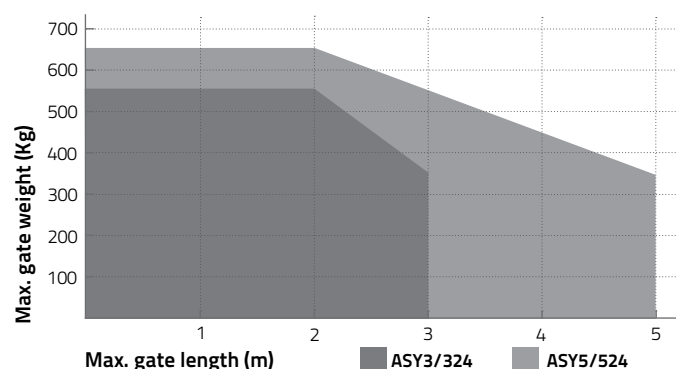
TECHNICAL SPECIFICATIONS	ASY3	ASY3REV	ASY324	ASY5	ASY5REV	ASY524	ASY524REV
Motor power supply	230 V	230 V	24 V	230 V	230 V	24 V	24 V
Max. motor current	1,6 A	1,4 A	5 A	1,6 A	1,4 A	5 A	5 A
Motor power	370 VA	330 VA	120 VA	370 VA	330 VA	120 VA	120 VA
Thrust	1900 N	1900 N	1900 N	1900 N	1900 N	1900 N	1900 N
Max opening	120°	120°	120°	120°	120°	120°	120°
Rod stroke	350 mm	350 mm	350 mm	500 mm	500 mm	500 mm	500 mm
Actuator speed	16 mm/s	16 mm/s	16 mm/s	16 mm/s	16 mm/s	16 mm/s	16 mm/s
Work cycles	30 %	30 %	intensive	30 %	30 %	intensive	intensive
Capacitor	10 µF	10 µF	-	10 µF	10 µF	-	-
Encoder	YES	YES	YES	YES	YES	YES	YES
Electrical limit switches (forseen)	optional	optional	optional	optional	optional	optional	optional
Mechanical limit switches (forseen)	AP / CH	AP / CH	AP / CH	AP / CH	AP / CH	AP / CH	AP / CH
Grease lubricant	TS10	TS10	TS10	TS10	TS10	TS10	TS10
GENERAL DATA							
Working temperature	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C
Protection level	44 IP	44 IP	44 IP	44 IP	44 IP	44 IP	44 IP
Weight	10 Kg	10 Kg	9 Kg	10 Kg	10 Kg	9 Kg	11 Kg
Pallet	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs

# ASY3/5

## INSTALLATION DIAGRAM

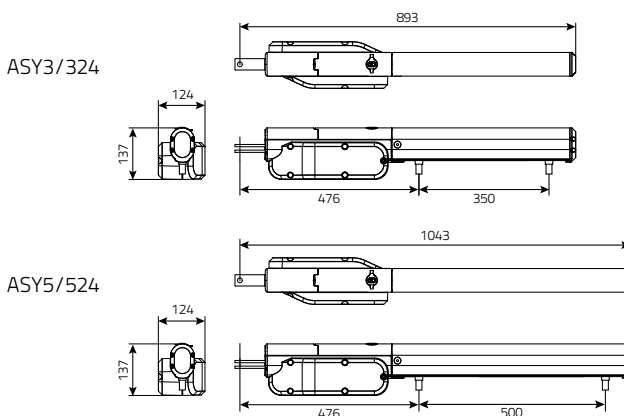


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### BLA

Leaf stopper.



### SRA

Adjustable front bracket. Pack of 2pcs.

### SRP

Adjustable rear bracket. Pack of 2pcs.



### FCMASY

Mechanical opening and closing limit switches. Pack of 4 pcs.



### FCEASY

Electrical opening and closing limit switches. Pack of 2 pcs.



### SUPBAT

Pair of brackets to fix 2 BAT12V2a to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### T201

Control unit for 1/2 motors 230 V, with encoder control, torque adjustment and slowing down. For ASY3 and ASY5.

### T224

Control unit for 1/2 motors 24 V, with encoder control, torque adjustment and slowing down. For ASY3 and ASY5.

### SERIE OC2

2 channels plug in receiver.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT ASY3 N

## ELECTROMECHANICAL PISTON 230/24V FOR SWING GATES



NEW



ENCODER



SLOWING



INDUSTRIAL



24V



SUN POWER



INTENSIVE

available on all Asy

only ASY324

Kit with two electromechanical operator, ideal for swing gates up to 3 metres. Equipped with encoder, release with encoded key and rear swing support.

**Safe** thanks to the precision and sensitivity of the encoder.

**Practical** electrical connections and manual release.

**Versatile** in all models and accessories.

**Reliable** with sturdy structure in corrosion treated aluminium.

### KIT CONTAINING:

#### ASY 3 or ASY 324

230 V or 24 V irreversible electromechanical piston, for leaves up to 3 m (see also pages 34-35).

#### T201 (for ASY 3) or T224 (for ASY 324)

Control unit (see also pages 88-89).

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).

#### LACO 220A (for ASY 3) or LACO24AL (for ASY 324)

Flashing light with antenna (see also page 115).

#### SUPLACO

Flashing light support (see also page 115).

Fixing accessories and warning sign included.



TECHNICAL SPECIFICATIONS			GENERAL DATA		
	KIT ASY3 N	KIT ASY324 N		KIT ASY3 N	KIT ASY324 N
Motor power supply	230 V	24 V	Working temperature	-20+55 °C	-20+55 °C
Max. motor current	1.6 A	5 A	Protection level	44 IP	44 IP
Motor power	370 VA	120 VA	Weight	24 Kg	24 Kg
Thrust	1900 N	1900 N	Pallet	40 pcs	40 pcs
Max opening	120°	120°			
Rod stroke	350 mm	350 mm			
Actuator speed	16 mm/s	16 mm/s			
Work cycles	30 %	intensive			
Capacitor	10 µF	-			
Encoder	YES	YES			
Electrical limit switches (forseen)	optional	optional			
Mechanical limit switches (forseen)	AP / CH	AP / CH			
Grease lubricant	TS10	TS10			

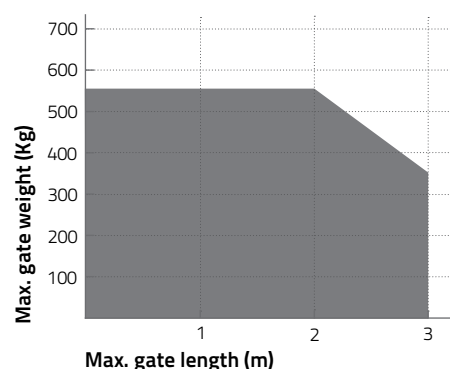


# KIT ASY3/324

## INSTALLATION DIAGRAM

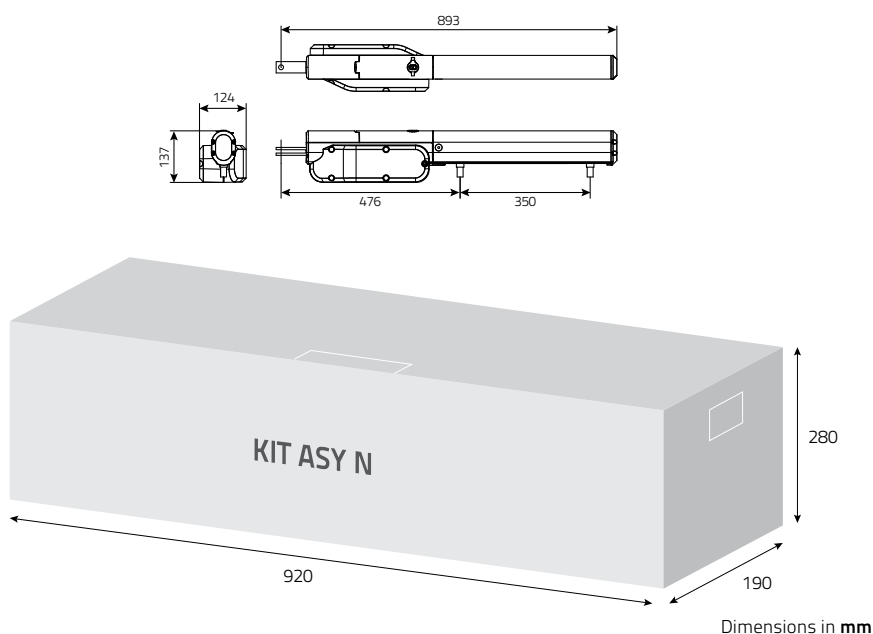


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



## ACCESSORIES

**ELV**  
Vertical/horizontal electric lock 12 V.



**SRA**  
Adjustable front bracket. Pack of 2pcs.  
**SRP**  
Adjustable rear bracket. Pack of 2pcs.



**BLA**  
Leaf stopper.



**SUN POWER**  
Solar power kit with solar panel and battery.  
Suitable for all 24 V control units.



**FCMASY**  
Mechanical opening and closing limit switches.  
Pack of 4 pcs.



**FCEASY**  
Electrical opening and closing limit switches.  
Pack of 2 pcs.



**SUPBAT**  
Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

**BAT12V2A**  
Battery 12V 2Ah.  
**CB24**  
24 V battery charger. Suitable for 24 V control units.



# STONE3/5

## ELECTROMECHANICAL PISTON 230/24V FOR SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

available on all Stone

only STONE3/5 24 V



Out of production departing from  
January 2014



Electromechanical actuator ideal for swing gates up to 3/5 meters. Equipped with encoder, release mechanism with coded key, and oscillating rear bracket.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Reliable** with a sturdy aluminum body treated against oxidation and the oscillating rear bracket that absorbs the possible sagging of the leafs.

### STONE3

230 V irreversible electromechanical piston.  
**For leafs up to 3 m.**

### STONE3REV

230 V reversible electromechanical piston.  
**For leafs up to 3 m.**

### STONE324

24 V irreversible electromechanical piston.  
**For leafs up to 3 m.**

### STONE 5

230 V irreversible electromechanical piston.  
**For leafs up to 5 m.**

### STONE5REV

230 V reversible electromechanical piston.  
**For leafs up to 5 m.**

### STONE524

24 V irreversible electromechanical piston.  
**For leafs up to 5 m.**



safe an protected  
connections

TECHNICAL SPECIFICATIONS	STONE3	STONE3REV	STONE324	STONE5	STONE5REV	STONE524
Motor power supply	230 V	230 V	24 V	230 V	230 V	24 V
Max. motor current	1,6 A	1,4 A	5 A	1,6 A	1,4 A	5 A
Motor power	370 W	330 W	120 W	370 W	330 W	120 W
Thrust	1600 N	1500 N	1600 N	1600 N	1500 N	1600 N
Max. gate weight	250 Kg	250 Kg	250 Kg	200 Kg	200 Kg	200 Kg
Max. gate length	3000 mm	3000 mm	3000 mm	5000 mm	5000 mm	5000 mm
Max opening	120°	120°	120°	120°	120°	120°
Rod stroke	435 mm	435 mm	435 mm	535 mm	535 mm	535 mm
Actuator speed	19 mm/s	25 mm/s	20 mm/s	14 mm/s	25 mm/s	20 mm/s
Work cycles	30%	30%	intensive	30%	30%	intensive
Capacitor	10 µF	10 µF	-	10 µF	10 µF	-
Encoder	YES	YES	YES	YES	YES	YES
Mechanical stops	AP	AP	AP	AP	AP	AP
Thermal protection	150 °C	150 °C	-	150 °C	150 °C	-
Grease lubricant	TS10	TS10	TS10	TS10	TS10	TS10
GENERAL DATA						
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C
Protection level	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Weight	9 Kg	9 Kg	8 Kg	10 Kg	10 Kg	9 Kg
Pallet	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs

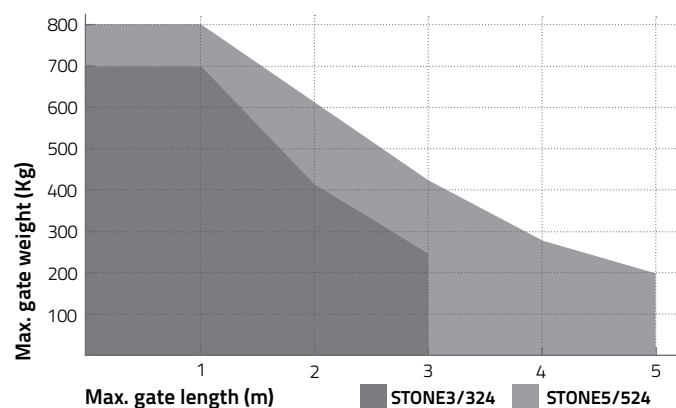
# STONE3/5

## INSTALLATION DIAGRAM



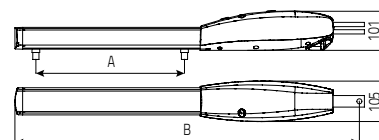
1. Motor
2. Transmitter
3. Photocells
4. Control unit
5. Flashing light
6. Selector
7. Sun Power
8. Photovoltaic panel

## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



	STONE3	STONE5
A	435	535
B	900	1000

Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### BLA

Leaf stopper.



### FC STONE

Mechanical limit switch. Pack of 2 pcs.



### SRA

Adjustable front bracket. Pack of 2pcs.

### SRP

Adjustable rear bracket. Pack of 2pcs.



### SUPBAT

Pair of brackets to fix 2 BAT12V2a to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### T201

Control unit for 1/2 motors 230 V, with encoder control, torque adjustment and slowing down. For STONE3 and STONE5.

### T224

Control unit for 1/2 motors 24 V, with encoder control, torque adjustment and slowing down. For STONE324 and STONE524.

### SERIE OC2

2 channels plug in receiver.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT STONE3 N

## ELECTROMECHANICAL PISTON 230/24V FOR SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

available on all Stone

only STONE324



Out of production departing from  
January 2014

Kit with two electromechanical actuators ideal for swing gates up to 3 meters. Equipped with encoder, release mechanism with coded key, and oscillating rear bracket.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing. **Practical** thanks to the control unit with plug-in receiver and self-learning function. **Reliable** with a sturdy aluminum body treated against oxidation and the oscillating rear bracket that absorbs the possible sagging of the leaves.

### KIT CONTAINING:

#### STONE 3 or STONE 324

230 V or 24 V irreversible electromechanical piston, for leaves up to 3 m (see also pages 32-33).



#### T201 (for STONE 3) or T224 (for STONE 324)

Control unit (see also pages 88-89).

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).



#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).



#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 118).



#### LACO 220A (for STONE 3) or LACO24AL (for STONE 324)

Flashing light with antenna (see also page 116).



#### SUPLACO

Flashing light support (see also page 116).



Fixing accessories and warning sign included.

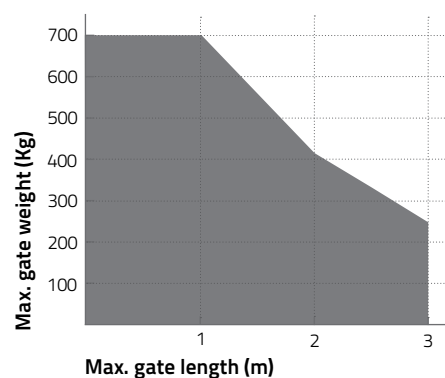
TECHNICAL SPECIFICATIONS	KIT STONE3 N	KIT STONE324 N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT STONE3 N	KIT STONE324 N	GENERAL DATA	KIT STONE3/324 N
Motor power supply	230 V	24 V	Model	T201	T224	Working temperature	-20 +55 °C
Max. motor current	2x1,6 A	2x5 A	Power supply	230 V	230 V	Protection level	IP 44
Motor power	2x370 W	2x120 W	Max. current	6,3 A	1 A	Weight	22 Kg
Thrust	1600 N	1600 N	Electronic slow down	YES	YES	Pallet	12 pcs
Max gate weight	250 Kg	250 Kg	Compatible with Sun Power	NO	YES		
Max. gate length	3000 mm	3000 mm					
Max opening	120°	120°					
Rod stroke	435 mm	435 mm					
Actuator speed	19 mm/s	20 mm/s					
Work cycles	30%	intensive					
Capacitor	10 µF	-					
Encoder	YES	YES					
Mechanical stops	AP	AP					
Thermal protection	150 °C	-					
Grease lubricant	TS10	TS10					

# KIT STONE3 N

## INSTALLATION DIAGRAM

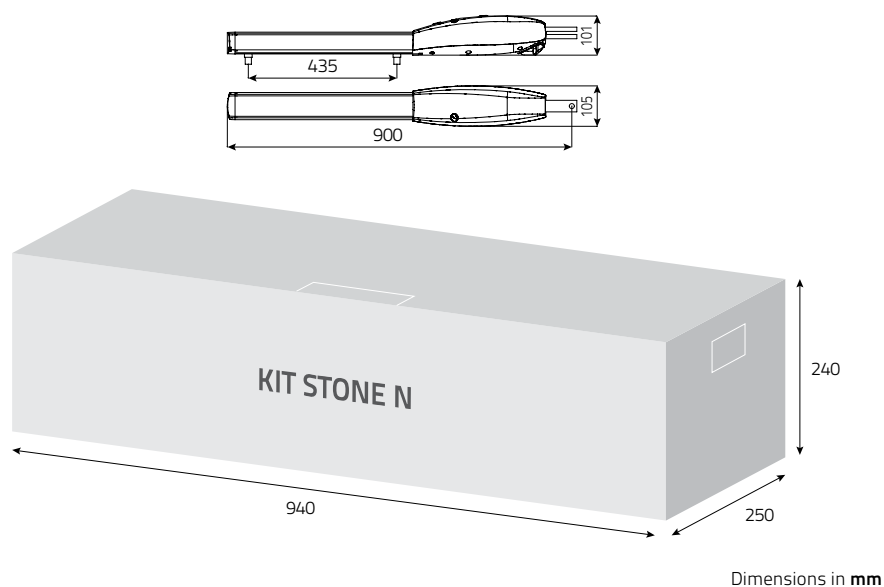


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### BLA

Leaf stopper.



### FC STONE

Mechanical limit switch. Pack of 2 pcs.



### SRA

Adjustable front bracket. Pack of 2pcs.

### SRP

Adjustable rear bracket. Pack of 2pcs.



### SUPBAT

Pair of brackets to fix 2 BAT12V2a to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT TAG N

## ELECTROMECHANICAL PISTON 24V FOR SWING GATES



ENCODER



SLOWING



24V



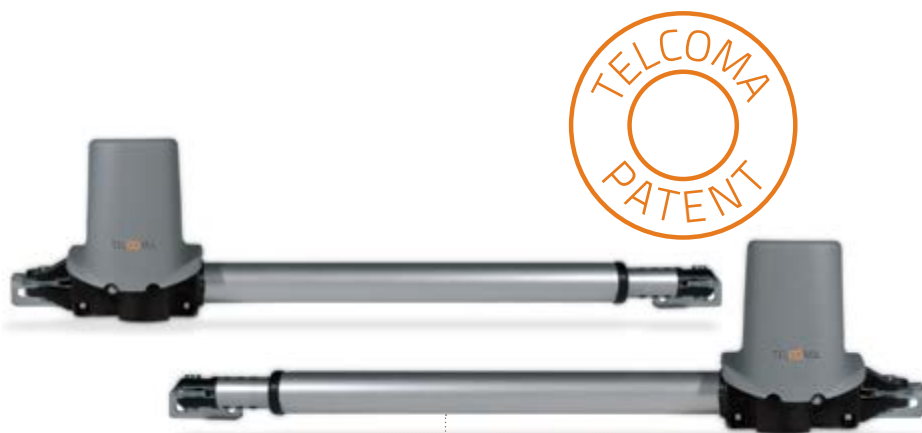
SUN POWER

Kit with two 24 V electromechanical actuators ideal for residential swing gates up to 2 meters. Equipped with encoder and key release with micro switch.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Reliable** because it is entirely made out of quality materials as aluminum, stainless steel and techno polymers.



### KIT CONTAINING:

#### TAG DX and TAG SX

Couple of electromechanical pistons.

#### T224

Control unit (see also pages 88-89).

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

Fixing accessories and warning sign included.



TECHNICAL SPECIFICATIONS	KIT TAG N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT TAG N	GENERAL DATA	KIT TAG N
Motor power supply	24 V	Model	T224	Working temperature	-20 +55 °C
Max. motor current	2x3 A	Power supply	230 V	Protection level	IP 44
Motor power	2x70 W	Max. current	1 A	Weight	12,5 Kg
Thrust	1500 N	Electronic slow down	YES	Pallet	20 pcs
Max gate weight	150 Kg	Compatible with Sun Power	YES		
Max. gate length	2000 mm				
Max opening	100°				
Rod stroke	360 mm				
Actuator speed	20 mm/s				
Work cycles	50 %				
Encoder	YES				
Grease lubricant	TS10				

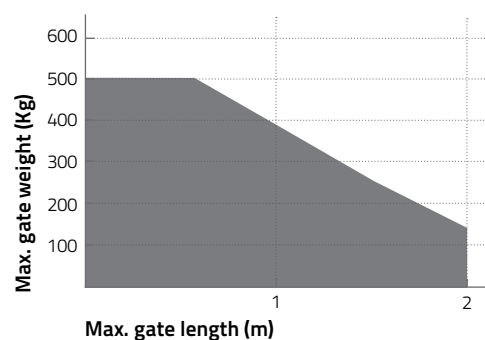


# KIT TAG

## INSTALLATION DIAGRAM

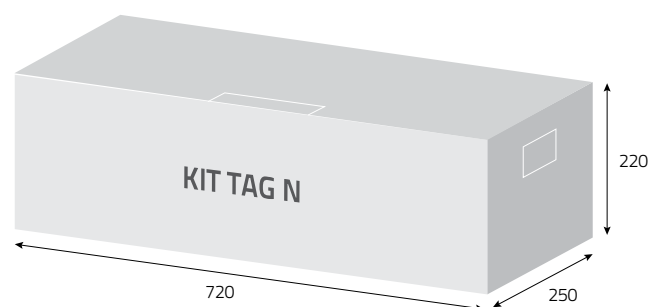
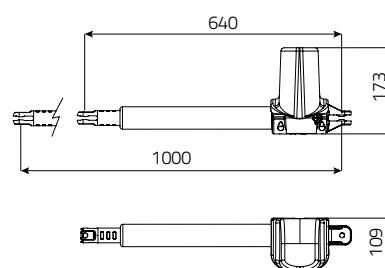


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### SUPBAT

Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



# BLUES

## HYDRAULIC PISTON FOR SWING GATES



SLOWING



INTENSIVE



INDUSTRIAL



HYDRAULIC



Heavy duty hydraulic motor, ideal for intensive use on swing gate up to 2.5/4,5 meters. Available in reversible or irreversible version. The elegantly classic design hides a powerful mechanism delivering smooth and silent operations.

**Safe and Precise** thanks to the speed and force/thrust setting independently in opening and closing and the hydraulic deceleration function.

**Constant performance** over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature using HOT (optional).

### BLUES 3R

230 V reversible hydraulic piston.  
**For leafs up to 2,5 m.**

### BLUES 5R

230 V reversible hydraulic piston.  
With slow down in opening and closing.  
**For leafs up to 4,5 m.**

### BLUES 3

230 V irreversible hydraulic piston.  
**For leafs up to 2,5 m.**

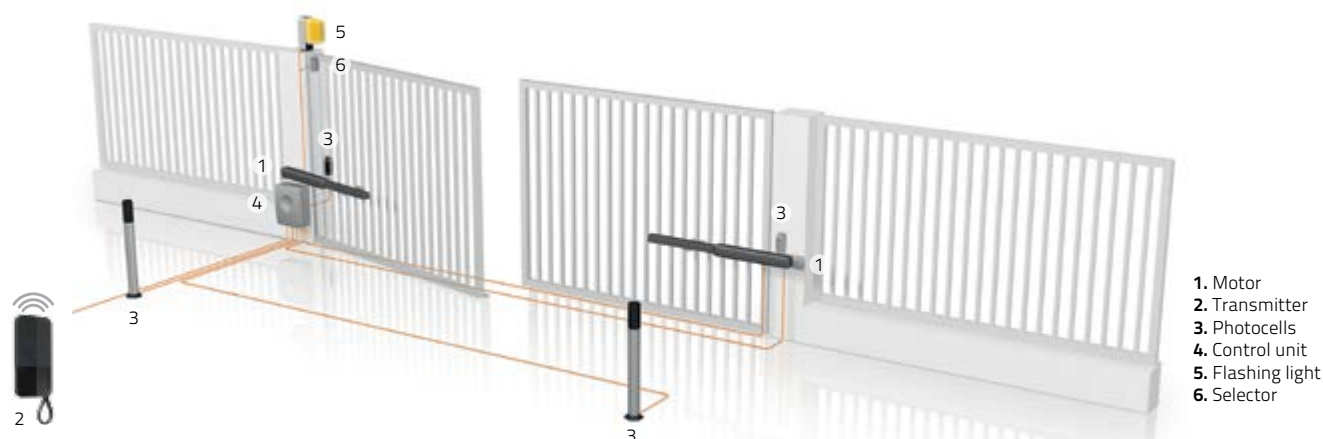
### BLUES 5

230 V irreversible hydraulic piston.  
With slow down in opening and closing.  
**For leafs up to 4,5 m.**

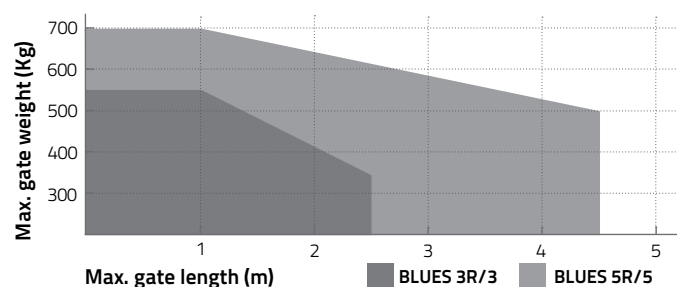
TECHNICAL SPECIFICATIONS	BLUES3R	BLUES5R	BLUES3	BLUES5
Motor power supply	230 V	230 V	230 V	230 V
Max. motor current	1,2 A	1,2 A	1,2 A	1,2 A
Motor power	280 W	280 W	280 W	280 W
Thrust	0-3000 N	0-3000 N	0-3000 N	0-3000 N
Max gate weight	350 Kg	500 Kg	350 Kg	500 Kg
Max. gate length	2500 mm	4500 mm	2500 mm	4500 mm
Max opening	105°	105°	105°	105°
Rod stroke	270 mm	378 mm	270 mm	378 mm
Actuator speed	12 mm/s	12 mm/s	12 mm/s	12 mm/s
Work cycles	intensive	intensive	intensive	intensive
Capacitor	8 µF	8 µF	8 µF	8 µF
Hydraulic slowing down	NO	YES	NO	YES
Thermal protection	105 °C	105 °C	105 °C	105 °C
Oil lubricant	TS30	TS30	TS30	TS30
GENERAL DATA				
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C
Protection level	IP 56	IP 56	IP 56	IP 56
Weight	13 Kg	15 Kg	13 Kg	15 Kg
Pallet	30 pcs	30 pcs	30 pcs	30 pcs

# BLUES

## INSTALLATION DIAGRAM

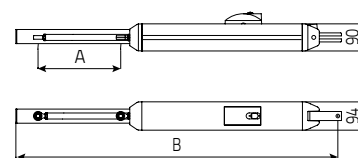


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



	BLUES 3R/3	BLUES 5R/5
A	270	378
B	1080	1320

Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### BLA

Leaf stopper.



### TS30

Oil for hydraulic actuators. 5 liters.



### T201

Control unit for 1/2 motors 230 V, with encoder control, torque adjustment and slowing down.

#### SERIE OC2

2 channels plug in receiver.



### HOT

Electronic heating system with temperature sensor, for 230 V motors.



### CK160/CK200

Resistive sensitive edge, compliant with EN12978, to be installed with electronic card CSSENSOR, length 160/200 cm. With caps.



### CSSENSOR

Control card for sensitive edges CK and CS. 24 V power supply.



# KIT TEN1 N

## REVERSIBLE ACTUATOR FOR PEDESTRIAN GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

Kit with one electromechanical 12 V actuator for swing gates.

**Compact** ideal for pillars as small as 10 cm width.

**Fast** no more waiting in front of the gate, KitTen1 opens in just 5 seconds. Perfect for pedestrian gates.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing. Connection dedicated to resistive edges 8.2 kΩ (EN12978)

**Practical** thanks to the control unit with plug-in receiver and self-learning function.



### KIT CONTAINING:

#### TEN1

Single gearmotor, complete with arm and guide.

#### E124

Control unit.

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

Fixing accessories and warning sign included.



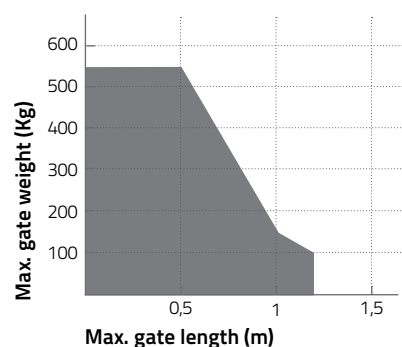
TECHNICAL SPECIFICATIONS	KIT TEN1 N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT TEN1 N	GENERAL DATA	KIT TEN1 N
Motor power supply	12 V	Model	E124	Working temperature	-20 +55 °C
Max. motor current	4 A	Power supply	230 V	Protection level	IP 44
Motor power	60 W	Max. current	1 A	Weight	8,5 Kg
Max. torque	70 Nm	Electronic slow down	YES	Pallet	25 pcs
Max gate weight	100 Kg	Compatible with Sun Power	YES		
Max. gate length	1200 mm				
Max opening	100°				
Work cycles	intensive				
Encoder	YES				
Grease lubricant	T510				

# KIT TEN1

## INSTALLATION DIAGRAM

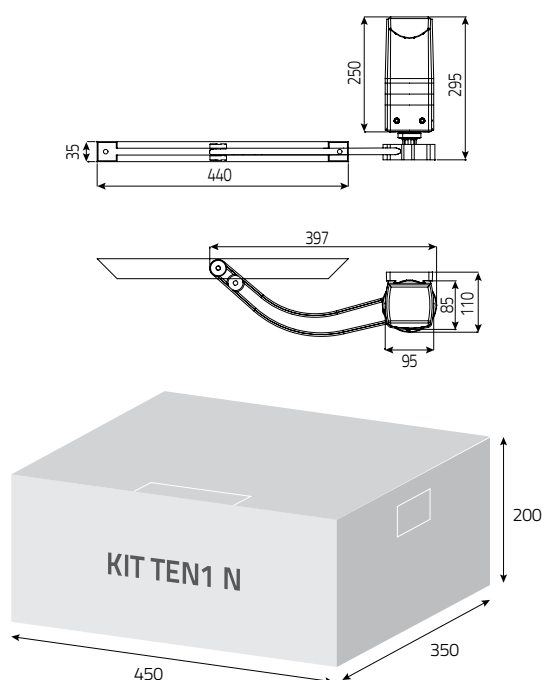


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

**ELV**  
Vertical/horizontal electric lock 12 V.



**SUPBAT**  
Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

**BAT12V2A**  
Battery 12V 2Ah.

**CB24**  
24 V battery charger. Suitable for 24 V control units.



**SUN POWER**  
Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT TEN2 N

## ARTICULATED ARM FOR RESIDENTIAL SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

Kit with two electromechanical 12 V actuator ideal for residential swing gates up to 1,5 meters.

**Compact** ideal for pillars as small as 10 cm width.

**Fast** no more waiting in front of the gate, KitTen2 opens in just 8 seconds.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing. Connection dedicated to resistive edges 8.2 kΩ (EN12978)

**Practical** thanks to the control unit with plug-in receiver and self-learning function.



### KIT CONTAINING:

#### TEN2

Couple of gearmotors, with articulated arms.

#### E224

Control unit.

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

Fixing accessories and warning sign included.

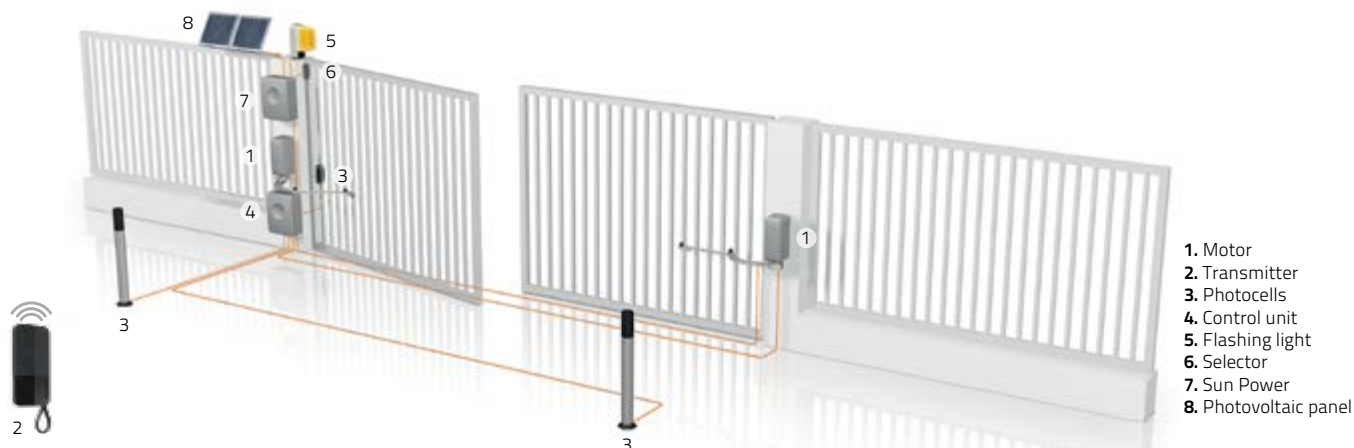


TECHNICAL SPECIFICATIONS	KIT TEN2 N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT TEN2 N	GENERAL DATA	KIT TEN2 N
Motor power supply	12 V	Model	E224	Working temperature	-20 +55 °C
Max. motor current	2x4 A	Power supply	230 V	Protection level	IP 44
Motor power	2x60 W	Max. current	1 A	Weight	13 Kg
Max. torque	70 Nm	Electronic slow down	YES	Pallet	20 pcs
Max gate weight	170 Kg	Compatible with Sun Power	YES		
Max. gate length	1500 mm				
Max opening	110°				
Work cycles	intensive				
Encoder	YES				
Grease lubricant	T510				

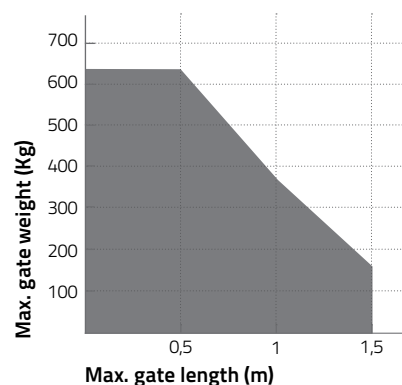


# KIT TEN2

## INSTALLATION DIAGRAM

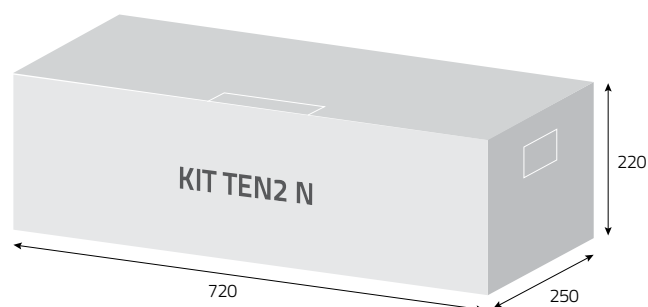
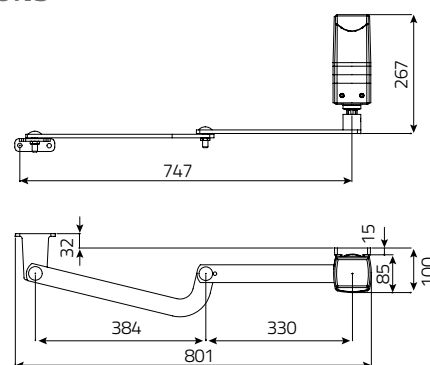


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### SUPBAT

Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT WIKI N

## ARTICULATED ARM FOR SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

Kit two electromechanical 24 V actuators for swing gates up to 2,3 meters. Ideal for wide columns and where the articulated arms delivers a smooth and fluid movement.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function. Adjustable mechanical stops on.

### KIT CONTAINING:

#### WIKI

Couple of gearmotors, with articulated arms.

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).

#### LACO 24AL

Flashing light with antenna (see also page 115).

#### SUPLACO

Flashing light support (see also page 115).

Fixing accessories and warning sign included.



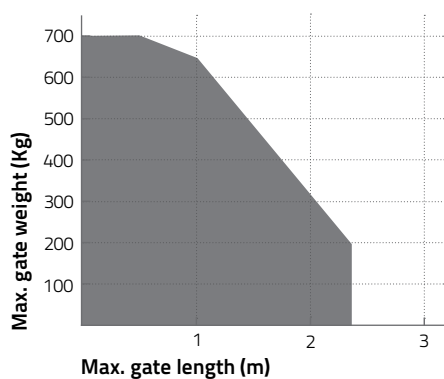
TECHNICAL SPECIFICATIONS	KIT WIKI N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT WIKI N	GENERAL DATA	KIT WIKI N
Motor power supply	24 V	Model	T224W	Working temperature	-20 +55 °C
Max. motor current	2x4 A	Power supply	230 V	Protection level	IP 44
Motor power	2x110 W	Max. current	1 A	Weight	22,5 Kg
Max. torque	180 Nm	Electronic slow down	YES	Pallet	12 pcs
Max gate weight	200 Kg	Compatible with Sun Power	YES		
Max. gate length	2300 mm				
Max opening	130°				
Work cycles	intensive				
Encoder	YES				
Mechanical limiters	YES				
Grease lubricant	EP004				

# KIT WIKI

## INSTALLATION DIAGRAM

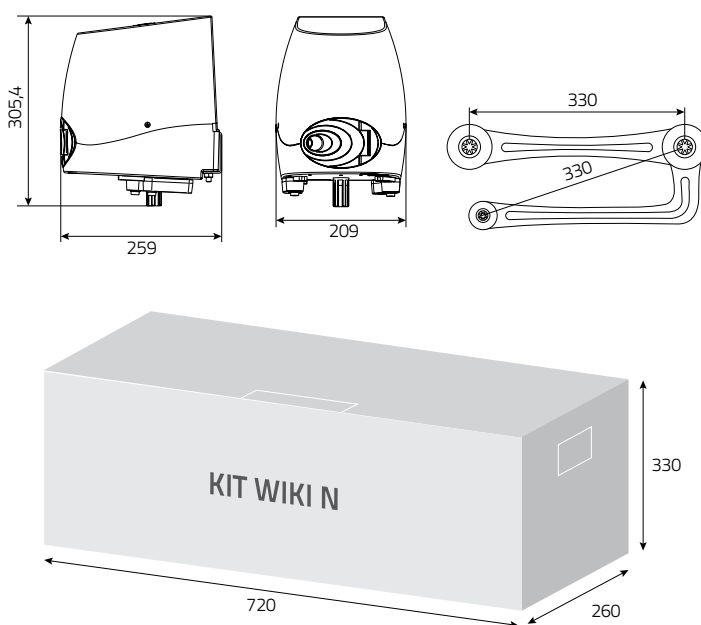


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

**ELV**  
Vertical/horizontal electric lock 12 V.



### SPB24

External box with 2 batteries 12V 7Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# ARM

## ARTICULATED ARM FOR SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

available on all Arm

only ARM24

Electromechanical 24V/230 V actuators for swing gates up to 3 meters. Ideal for very wide columns and where the articulated arms delivers a smooth and fluid movement.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Reliable** thanks to the sturdy mechanical parts and the powerful motor.

### ARM

230 V irreversible electromechanical gearmotor, with painted articulated arm.

**For leafs up to 3 m.**

### ARM24

24 Vdc irreversible electromechanical gearmotor, with painted articulated arm.

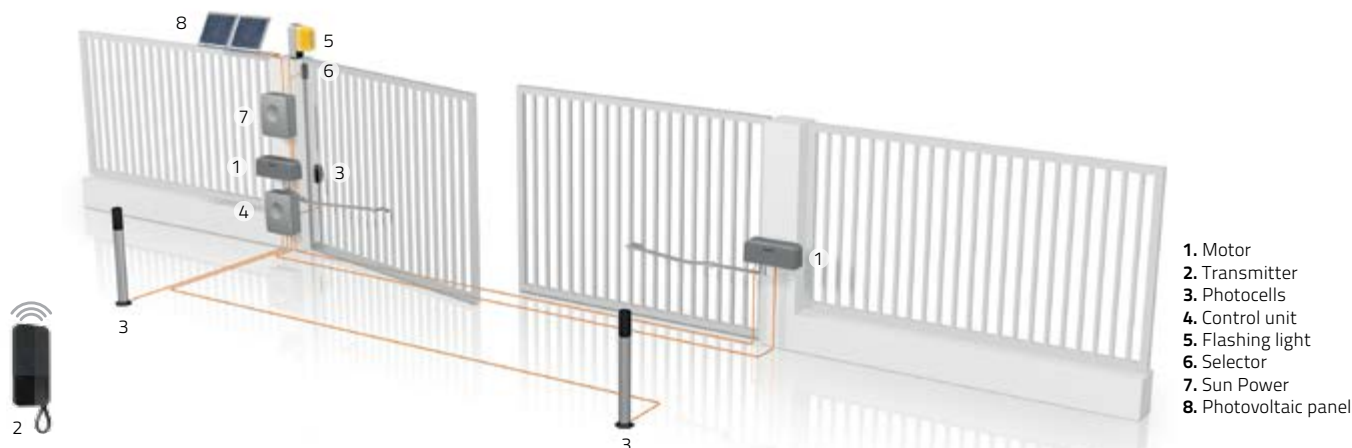
**For leafs up to 3 m.**



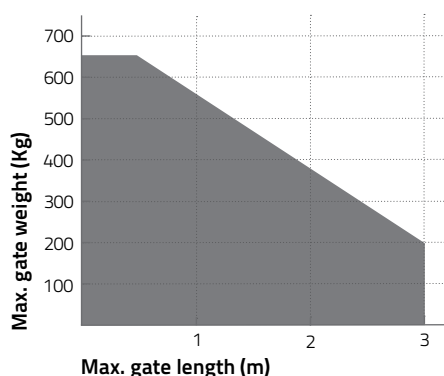
TECHNICAL SPECIFICATIONS	ARM	ARM24	GENERAL DATA	ARM	ARM24
Motor power supply	230 V	24 V	Working temperature	-20+55 °C	-20+55 °C
Max. motor current	1,9 A	5 A	Protection level	IP 44	IP 44
Motor power	400 W	120 W	Weight	14,5 Kg	13,5 Kg
Max. torque	400 Nm	385 Nm	Pallet	24 pcs	35 pcs
Max gate weight	200 Kg	200 Kg			
Max. gate length	3000 mm	3000 mm			
Max opening	130°	130°			
Work cycles	30%	intensive			
Capacitor	10 µF	-			
Encoder	YES	YES			
Limit switches	YES	YES			
Thermal protection	150 °C	-			
Grease lubricant	TS10	TS10			

# ARM

## INSTALLATION DIAGRAM

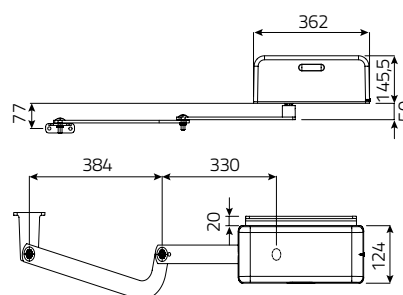


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

**ELV**  
Vertical/horizontal electric lock 12 V.



**BLA**  
Leaf stopper.



**BRLARM**  
Longer articulated arm for leafs up to 3,5 m.



**SUPBAT**  
Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

**BAT12V2A**  
Battery 12V 2Ah.

**CB24**  
24 V battery charger. Suitable for 24 V control units.



**T201**  
Control unit for 1/2 motors 230 V, with encoder control, torque adjustment and slowing down.

**T224**  
Control unit for 1/2 motors 24 V, with encoder control, torque adjustment and slowing down.

**SERIE OC2**  
2 channels plug in receiver.



**SUN POWER**  
Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# KIT ARM N

## ARTICULATED ARM FOR SWING GATES



ENCODER



SLOWING

Kit with two electromechanical 230 V actuators for swing gates up to 3 meters. Ideal for very wide columns and where the articulated arms delivers a smooth and fluid movement.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** thanks to the control unit with plug-in receiver and self-learning function.

**Reliable** thanks to the sturdy mechanical parts and the powerful motor.

### KIT CONTAINING:

#### ARM

Couple of 230 V irreversible electromechanical gearmotors, with painted articulated arm.



#### T201

Control unit (see also pages 88-89).

#### NOIRE OC2

2 channels plug in receiver (see also pages 102-103).

#### NOIRE 2E

2 channels rolling code transmitter (see also pages 102-103).

#### APRO

Key selector (see also page 118).

#### VEDO 180

Pair of adjustable photocells (see also page 117).

#### LACO 220A

Flashing light with antenna (see also page 115).

#### SUPLACO

Flashing light support (see also page 115).

Fixing accessories and warning sign included.



TECHNICAL SPECIFICATIONS	KIT ARM N	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	KIT ARM N	GENERAL DATA	KIT ARM N
Motor power supply	230 V	Model	T201	Working temperature	-20 +55 °C
Max. motor current	2x1,9 A	Power supply	230 V	Protection level	IP 44
Motor power	2x400 W	Max. current	6,3 A	Weight	33 Kg
Max. torque	400 Nm	Electronic slow down	YES	Pallet	9 pcs
Max gate weight	250 Kg	Compatible with Sun Power	NO		
Max. gate length	3000 mm				
Max opening	130°				
Work cycles	30%				
Capacitor	10 µF				
Encoder	YES				
Limit switches	YES				
Thermal protection	150 °C				
Grease lubricant	TS10				

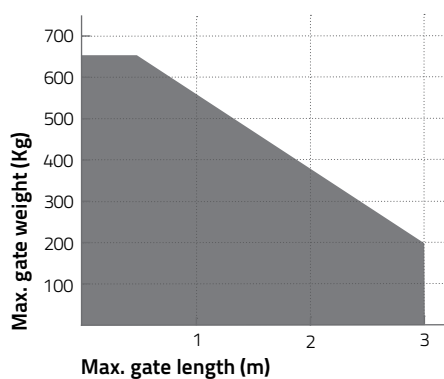


# KIT ARM

## INSTALLATION DIAGRAM

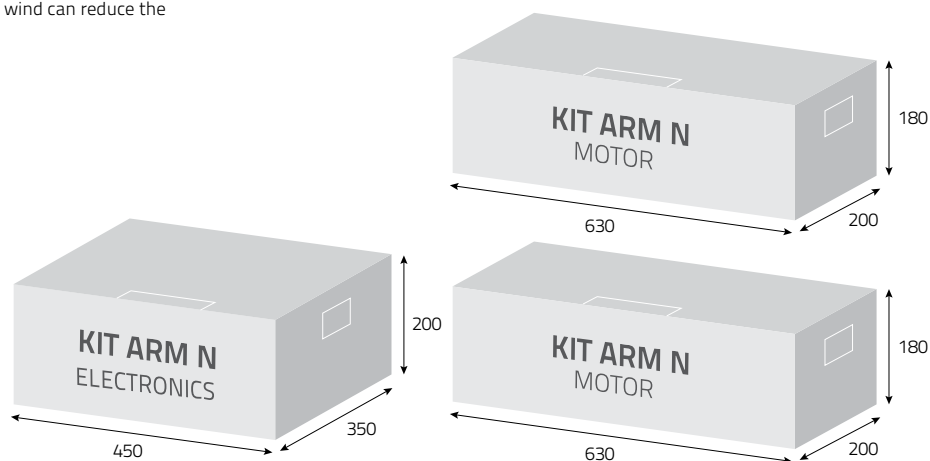
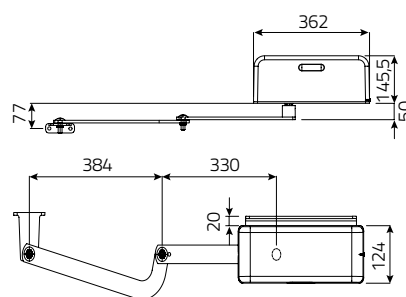


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

**ELV**  
Vertical/horizontal electric lock 12 V.



**BRLARM**  
Longer articulated arm for leaves up to 3,5 m.



**BLA**  
Leaf stopper.



## UNDERGROUND ACTUATOR FOR SWING GATES



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

Underground gearmotor 24 V ideal for swing gates up to 3 meters. Complete with encoder and easy release for manual operation it is safe, practical and reliable.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing

**Practical** thanks to the control unit with plug-in receiver and self-learning function. Adjustable mechanical limits in the foundation box.

**Reliable** thanks to the sturdy mechanical parts and the powerful motor in perfectly water resistant aluminum shells.

### MOLE

24 V electromechanical underground gearmotor, **for leafs up to 3 m.**

### MOLE 230

230 V electromechanical underground gearmotor, **for leafs up to 3 m.**

### BOX MOLE

Foundation box, complete with connection levers and mechanical stops on opening and closing.  
With cataphoresis finish.

### BOX MOLE 1

Foundation box, complete with connection levers and mechanical stops on opening and closing.  
With cataphoresis finish and stainless steel cover.

### BOX MOLE INOX

Complete stainless steel foundation box, with connection levers and mechanical stops on opening and closing.



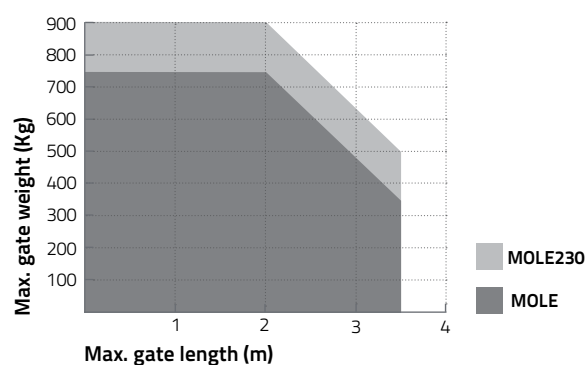
TECHNICAL SPECIFICATIONS	MOLE	MOLE230	GENERAL DATA	MOLE	MOLE230
Motor power supply	24 V	230 V	Working temperature	-20 +55 °C	-20 +55 °C
Max. motor current	5 A	2 A	Protection level	IP 67	IP 67
Motor power	200 W	370 W	Weight	11 Kg	12 Kg
Max. torque	400 Nm	500 Nm	Pallet	25 pcs	25 pcs
Max gate weight	350 Kg	450 Kg			
Max. gate length	3500 mm	3500 mm			
Max opening	115°	115°			
Work cycles	intensive	30%			
Encoder	YES	NO			
Mechanical stops	YES	NO			
Grease lubricant	TS10	TS10			

# MOLE

## INSTALLATION DIAGRAM

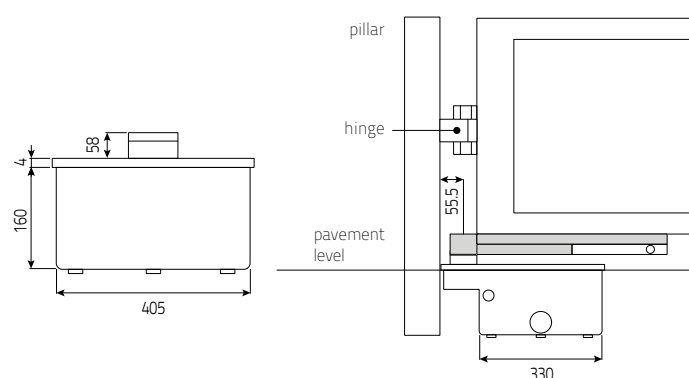


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### T224

Control unit for 1/2 motors 24 V, with encoder control, torque adjustment and slowing down.

### SERIE OC2

2 channels plug in receiver.



### BLA

Leaf stopper.



### SUPBAT

Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### ACCMOLE 360

Accessory for opening up to 360°, complete with pinion and chain.



### SBLMOLE

Release system with tri-lobed key.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# CLASSIC PLUS

## UNDERGROUND HYDRAULIC ACTUATOR FOR SWING GATES



SLOWING



INTENSIVE



HYDRAULIC

Underground heavy duty hydraulic motor for swing gates up to 2 meters. Includes a sturdy steel underground box and a powerful hydraulic unit delivering smooth and fluid operations.

**Safe and Precise** thanks to the speed and force/thrust setting independently in opening and closing and the hydraulic deceleration function.

**Constant performance** over time and in any condition thanks to reduced wear&tear and the possibility to maintain the oil at the ideal temperature using HOT (optional). Manual release with coded lock.

### CLASSIC/I 120 PLUS

230 V hydraulic underground gearmotor.

For openings up to 116° and **leafs up to 2 m.**

### CAP PLUS 1

Foundation box with cataphoresis finish and stainless steel cover.



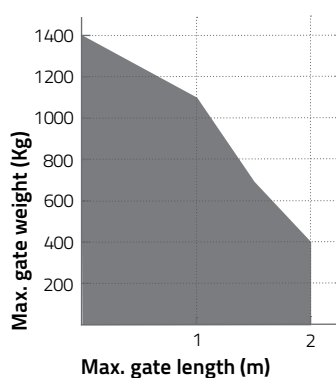
TECHNICAL SPECIFICATIONS	CLASSIC/I 120 PLUS	GENERAL DATA	CLASSIC/I 120 PLUS
Motor power supply	230 V	Working temperature	-20+55 °C
Max. motor current	1,2 A	Protection level	IP 67
Motor power	280 W	Weight	15 Kg
Max. torque	400 Nm	Pallet	24 pz
Max gate weight	400 Kg		
Max. gate length	2000 mm		
Max opening	116°		
Work cycles	intensive		
Capacitor	8 µF		
Hydraulic slowing down	YES		
Thermal protection	130 °C		
Oil lubricant	TS30		

# CLASSIC PLUS

## INSTALLATION DIAGRAM

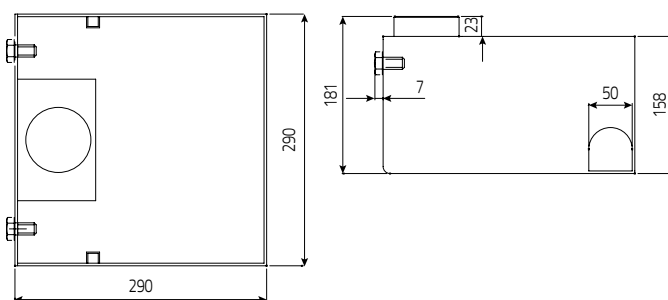


## UTILISATION LIMITS



The leaf shape, the non correct installation and the presence of wind can reduce the utilisation limits shown in the chart.

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### ELV

Vertical/horizontal electric lock 12 V.



### T201

Control unit for 1/2 motors 230 V, with encoder control, torque adjustment and slowing down.

### SERIE OC2

2 channels plug in receiver.



### BLA

Leaf stopper.



### HOT

Electronic heating system with temperature sensor, for 230 V motors.



### TS30

Oil for hydraulic actuators. 5 liters.



### CK160/CK200

Resistive sensitive edge, compliant with EN12978, to be installed with electronic card CSSENSOR, length 160/200 cm. With caps.



### CSSENSOR

Control card for sensitive edges CK and CS. 24 V power supply.

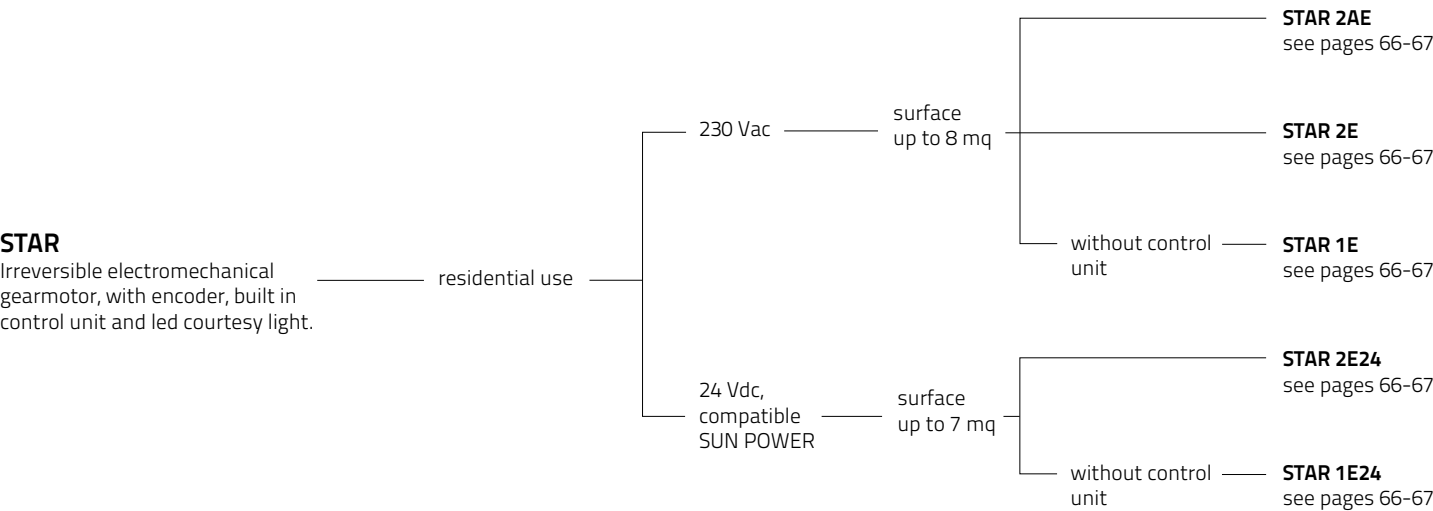








# GARAGE **DOORS**





ZEN

- ENCODER
- SLOWING
- 24V
- SUN POWER
- TÜV APPROVED



STAR

- ENCODER
  - SLOWING
  - 24V
  - SUN POWER
- available on all Star      only STAR 24 V

## ELECTROMECHANICAL ACTUATOR FOR SECTIONAL DOORS



ENCODER



SLOWING



24V



SUN POWER



TÜV APPROVED



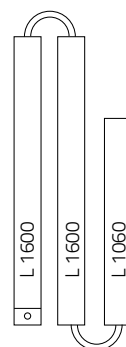
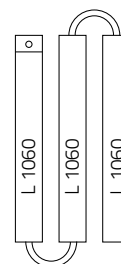
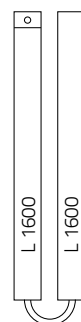
Electromechanical gearmotor 24 V ideal for sectional and overhead doors, up to 12 sqm. Complete with encoder and in-built control it is available with belt or chain transmission.

TUV tested and approved.

**Safe and Precise** thanks to the encoder and the slowing down in opening and closing. LED courtesy light.

**Practical** thanks to the control unit with plug-in receiver and self-learning function and the dedicated connection to resistive edges 8.2kΩ (EN12978)

**Versatile** available with guide in one single piece or in sections. Both versions have chain or belt and all accessories preinstalled.



### ZEN60E

Irreversible electromechanical gearmotor for residential use. 24 Vdc motor with encoder, **max force 600 N**. Built in control unit with LED courtesy light.

### ZEN100E

Irreversible electromechanical gearmotor for residential use. 24 Vdc motor with encoder, **max force 1000 N**. Built in control unit with LED courtesy light.

### ZEN GB1E

Assembled single guide with belt and accessories.

### ZEN GB2E

Modular guide in 2 pieces with belt and assembled accessories.

### ZEN GB3E

Modular guide in 3 pieces with belt and assembled accessories.

### ZEN GB4E

Modular guide in 4 pieces with belt and assembled accessories.

### ZEN GC1E

Assembled single guide with chain and accessories.

### ZEN GC2E

Modular guide in 2 pieces with chain and assembled accessories.

### ZEN GC3E

Modular guide in 3 pieces with chain and assembled accessories.

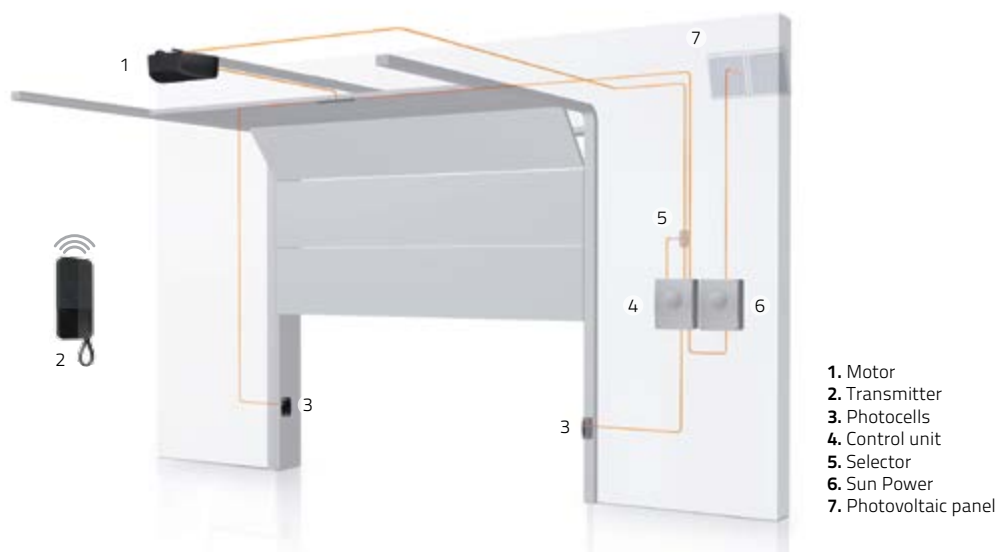
### ZEN GC4E

Modular guide in 4 pieces with chain and assembled accessories.

TECHNICAL SPECIFICATIONS	ZEN60E	ZEN100E	TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT	ZEN 60/100E	GENERAL DATA	ZEN60E	ZEN100E
Motor power supply	24 V	24 V	Model	Z124	Working temperature	-20 +55 °C	-20 +55 °C
Max. motor current	4 A	5 A	Power supply	230 V	Protection level	IP 30	IP 30
Motor power	100 W	130 W	Max. current	0,5 A	Weight	5 Kg	5,5 Kg
Thrust	600 N	1000 N	Electronic slow down	YES	Pallet	36 pcs	36 pcs
Max. surface	9 m <sup>2</sup>	12 m <sup>2</sup>	Compatible with Sun Power	YES			
Opening time	20 sec	20 sec					
Work cycles	intensive	intensive					
Encoder	YES	YES					
Mechanical limiters	YES	YES					

# ZEN

## INSTALLATION DIAGRAM

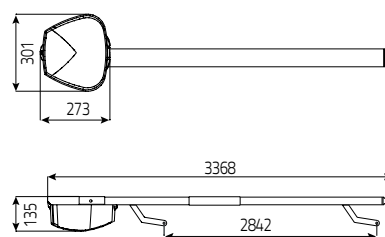


## UTILISATION LIMITS

### Using the maximum travel

	NON-PROJECTING UP-AND-OVER DOOR		PROJECTING UP-AND-OVER DOOR		SECTIONAL	
	H	L	H	L	H	L
ZEN60E	2,3 m	3,9 m	2,6 m	3,4 m	2,4 m	3,7 m
ZEN100E	2,3 m	4,6 m	2,6 m	4,6 m	2,4 m	5,0 m

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### KSN

External release kit for overhead and sectional doors. With coded key.



### SPB24

External box with 2 batteries 12V 7Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### BO

Oscillating arm designed for overhead doors.



### SERIE OC2

2 channels plug in receiver.



### ZEN ST2

Kit of additional fixing brackets.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### SUPZEN

Staffa di aggancio maggiorata per porte pesanti.



## ELECTROMECHANICAL ACTUATOR FOR OVERHEAD DOORS



ENCODER



SLOWING



24V



SUN POWER

available on all Star

only STAR 24 V

Electromechanical gearmotor 24 V/230 V ideal for overhead doors up to 8 sqm. **Safe and Precise** thanks to the encoder and the slowing down in opening and closing. **Practical** thanks to the control unit with plug-in receiver and self-learning function. LED courtesy light. **Versatile**, with a wide choice of accessories for any installation need.

### STAR 1E

230 V irreversible electromechanical gearmotor.  
Without control unit.

### STAR 2E

230 V irreversible electromechanical gearmotor.  
Complete with electric limit switches, encoder and control unit.

### STAR 2AE

230 V irreversible electromechanical gearmotor.  
Complete with electric limit switches, encoder and control unit.  
With autotransformer and torque adjustment.

### STAR 1E24

24V irreversible electromechanical gearmotor.  
Without control unit.

### STAR 2E24

24V irreversible electromechanical gearmotor. Complete with electric limit switches, encoder and control unit.



TECHNICAL SPECIFICATIONS	STAR 1E	STAR 2E	STAR 2AE	STAR 1E24	STAR 2E24
Motor power supply	230 V	230 V	230 V	24 V	24 V
Max. motor current	1,7 A	1,7 A	1,7 A	5 A	5 A
Motor power	360 W	360 W	360 W	120 W	120 W
Max. torque	400 Nm	400 Nm	400 Nm	385 Nm	385 Nm
Max. door surface	8 m <sup>2</sup>	8 m <sup>2</sup>	8 m <sup>2</sup>	7 m <sup>2</sup>	7 m <sup>2</sup>
Opening time	20 sec	20 sec	20 sec	15 sec	15 sec
Work cycles	40%	40%	40%	intensive	intensive
Capacitor	10 µF	10 µF	10 µF	-	-
Encoder	optional	YES	YES	YES	YES
Limit switches	optional	-	-	optional	-
Grease lubricant	TS10	TS10	TS10	TS10	TS10
TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT					
Model	-	S101	S101A	-	T124F
Power supply	-	230 V	230 V	-	230 V
Max. current	-	6,3 A	6,3 A	-	0,5 A
Electronic slow down	-	YES	YES	-	YES
Compatible with Sun Power	-	NO	NO	-	YES
GENERAL DATA					
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C
Protection level	IP 30	IP 30	IP 30	IP 30	IP 30
Weight	9 Kg	9,5 Kg	10,5 Kg	8 Kg	10 Kg
Pallet	35 pcs	35 pcs	35 pcs	35 pcs	35 pcs



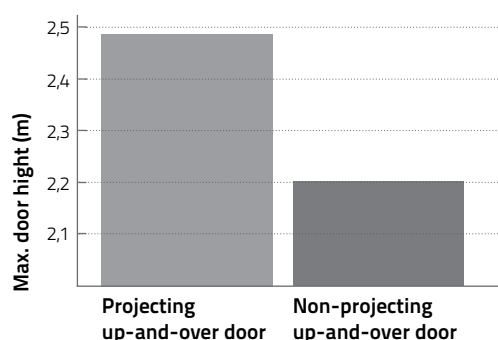
# STAR

## INSTALLATION DIAGRAM

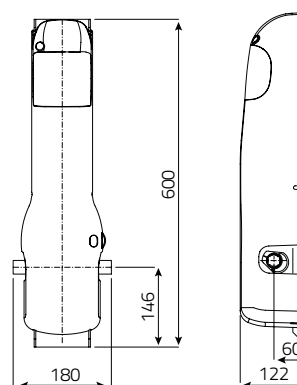


- 1. Motor
- 2. Transmitter
- 3. Photocells
- 4. Control unit
- 5. Flashing light
- 6. Selector
- 7. Sun Power
- 8. Photovoltaic panel

## UTILISATION LIMITS



## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### SS60STAR A

Support bracket 60 cm.  
Galvanized steel.



### BDB

Pair of straight arms with round bush for AT shafts.



### CB24

24 V battery charger.  
Suitable for 24 V control units.



### SS200STAR A

Support bracket 200 cm.  
Galvanized steel.



### BDBUS

Straight arm with grooved bush for motor shaft.



### SPB24

External box with 2 batteries  
12V 7Ah.



### AT20

Driving shaft 20 cm.  
Support included



### BCB

Pair of curved arms with round bush for AT shafts.



### S101B

Control unit for 1 motor 230 Vac,  
with torque adjustment, slowing  
down and encoder for overhead  
doors.



### AT150

Driving shaft 150 cm.  
Support included



### KSN

External release kit for  
sectional and overhead  
door with code key.



### SERIE OC2

2 channels plug in receiver.



### AT200

Driving shaft 200 cm.  
Support included



### FC STAR 1E

### FC STAR 1E24

Limit switch kit and encoder  
for STAR 1E/STAR 1E24.



### SUN POWER

Solar power kit with solar  
panel and battery. Suitable  
for all 24 V control units.

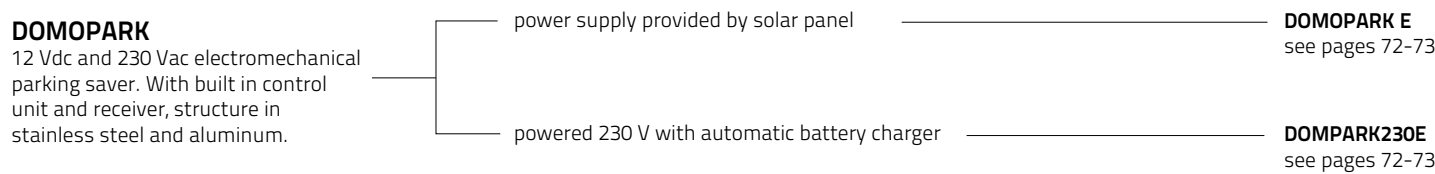
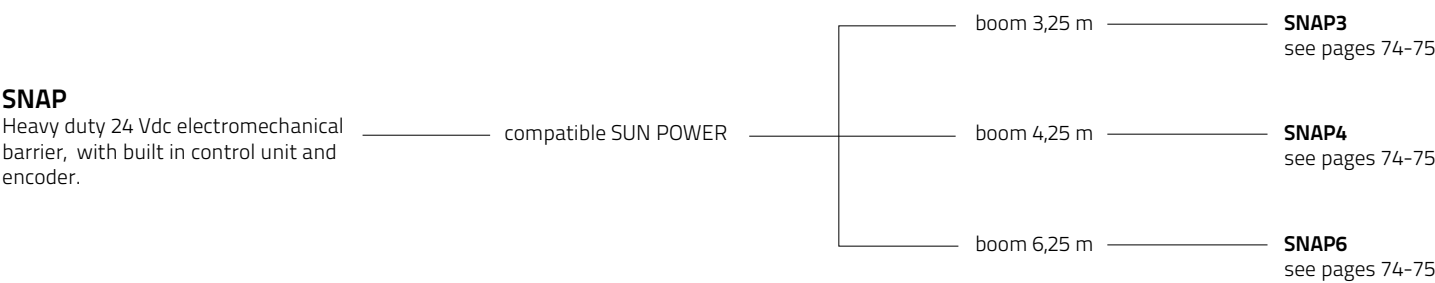




# AUTOMATIC **BARRIERS**

AUTOMATIC BARRIERS

# SELECTION GUIDE





**SNAP3/4/6**



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE



**RAP**



ENCODER



SLOWING



24V



SUN POWER



**DOMOPARK**

# DOMOPARK

## ELECTROMECHANICAL PARKING SAVER

Automatic parking saver with inbuilt control unit. Ideal to preserve your own parking space against un authorized use.

The stainless steel structure makes it virtually indestructible. In case the curved arm is hit by a vehicle, the spring system inside prevents damage and brings the arm back into position.

**Safe and precise** thanks to the encoder control, it is also simple and easy to install. After fixing it to the ground it does not require any setting. The control unit is pre-programmed.

**Practical**, it can be installed anywhere. The in-built photovoltaic panel makes it suitable for use in any condition.



NOIRE 2E

### DOMOPARK E

Automatic parking saver with inbuilt solar panel. It is completely independent from the mains power supply. Works up to 4 months in total absence of light.

### DOMOPARK 230E

Automatic parking saver with battery and transformer for 230 V mains power supply. Works up to 4 months in total absence of power supply.

#### TECHNICAL SPECIFICATIONS

	DOMOPARKE	DOMOPARK 230E
Motor power supply	12 V	12 V
Max. motor current	3 A	3 A
Motor power	40 W	40 W
Opening time	8 sec	8 sec
Encoder	YES	YES
Grease lubricant	TS10	TS10

#### TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT

	D112	D112
Model	D112	D112
Power supply	12 V	12 V
Max. current	3 A	3 A

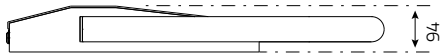
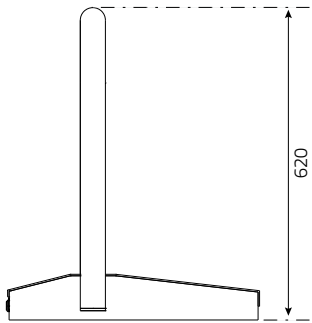
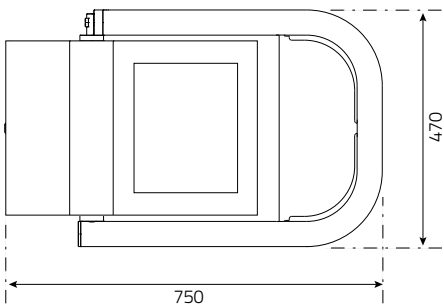
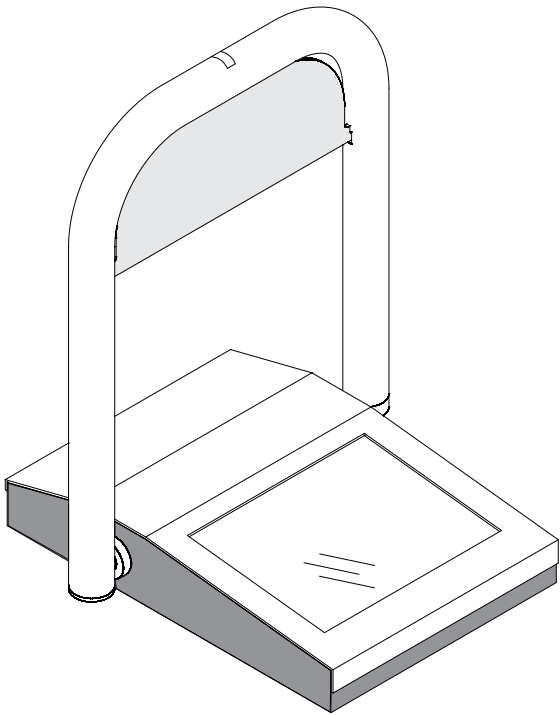
#### GENERAL DATA

	5 W	-
Photovoltaic panel power	5 W	-
Battery charger to 230 V	NO	included
Working temperature	-20 +55 °C	-20 +55 °C
Protection level	IP 54	IP 54
Weight	19 Kg	18,5 Kg
Pallet	12 pcs	12 pcs





DIMENSIONS



Dimensions in mm

# SNAP3/4/6

## ELECTROMECHANICAL BARRIER



ENCODER



SLOWING



24V



SUN POWER



INTENSIVE

Electromechanical barrier 24 Vdc, designed for fast and fluid movements with booms up to 6 m.  
Latest generation control unit and complete range of accessories.

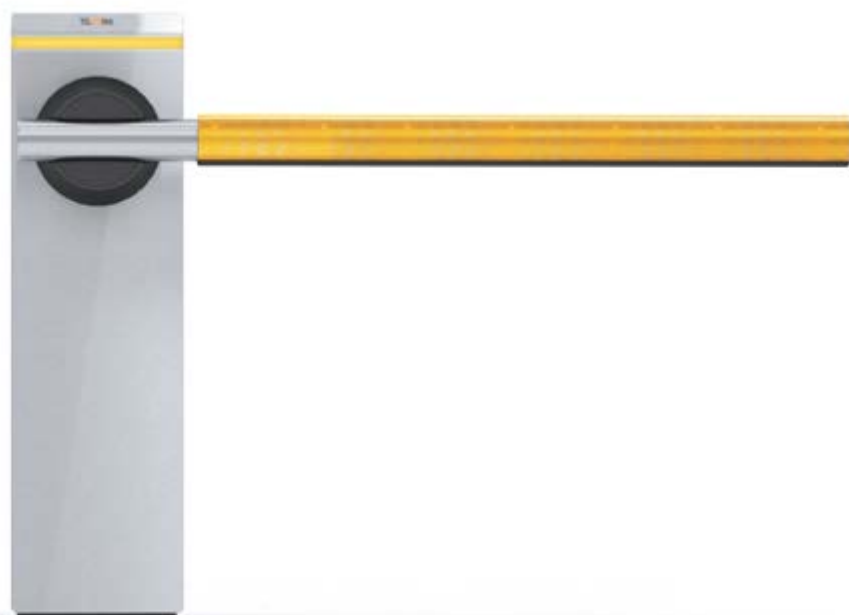
**Safe and Precise** thanks to the encoder and the slowing down in opening and closing.

**Practical** with the in-built control unit housed on top, the LED lights and various connections available for safety devices and battery back-up.

Designed to blend into modern architectures, Snap is made of a sturdy steel structure and stainless steel panels for **reliable** operations and **long lasting appearance**.

SNAP is compatible with SUN POWER Telcoma.

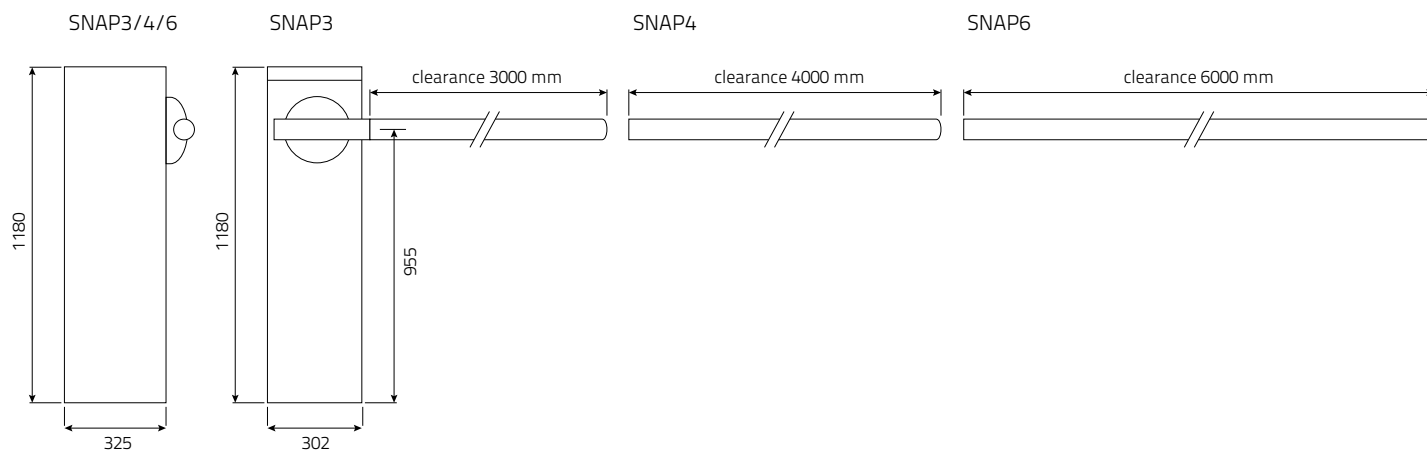
Available span of 3m, 4m, 6m.



TECHNICAL SPECIFICATIONS	SNAP3	SNAP4	SNAP6
Motor power supply	24 V	24 V	24 V
Max. motor current	12 A	12 A	12 A
Motor power	350 W	300 W	350 W
Max. torque	750 Nm	600 Nm	750 Nm
Max. boom length	3250 mm	4250 mm	6250 mm
Max opening	100°	100°	100°
Opening time	1,8 sec	3 sec	6 sec
Work cycles	intensive	intensive	intensive
Encoder	YES	YES	YES
Limit switches	YES	YES	YES
Grease lubricant	TS10	TS10	TS10
TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT			
Model	SN24/3	SN24/4	SN24/6
Power supply	230 V	230 V	230 V
Max. current	1,5 A	1,5 A	1,5 A
Electronic slow down	YES	YES	YES
Compatible with Sun Power	YES	YES	YES
GENERAL DATA			
Working temperature	-20+55 °C	-20+55 °C	-20+55 °C
Protection level	IP 54	IP 54	IP 54
Weight	50 Kg	50 Kg	50 Kg
Pallet	9 pcs	9 pcs	9 pcs

# SNAP3/4/6

## DIMENSIONS



Dimensions in mm

## ACCESSORIES

### SNAPPER3/4/6

Tubular aluminum boom painted white, Ø 7 cm, L 3,25/4,25/6.25 m. Complete with rubber profiles and end caps.



### ADEK

Reflector sticker for SNAPPER. L 1 m.



### PAF3

Adjustable fixed stand for bars.



### STICKERS

12 reflector stickers.



### PSR

Mobile stand for bars.



### LED SNAPPER 3/4/6

Led lights for SNAPPER 3/4/6.



### SRS

Plastic rack L 200 cm.



### CB24

24 V battery charger. Suitable for 24 V control units.



### SPB24

External box with 2 batteries 12V 7Ah.



### SNR SNAP

Joint for SNAP.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



### FIX SNAP

Base plate with clamps.



# RAP4

## ELECTROMECHANICAL BARRIERS



ENCODER



SLOWING



24V



SUN POWER

This barrier has a perfect movement and can operate also in absence of power supply thanks to the possibility of inserting 2 back up batteries, which could be placed in the dedicated housing.

A 24Vdc motor coupled with an encoder ensures perfect controlled boom movement.

### RAP 4

Electromechanical barrier 24 V, with cataphoretic treatment and painting. C/w control unit and encoder.

**Max boom length 4,25 m. Net span 4 m.**



#### TECHNICAL SPECIFICATIONS

	RAP4
Motor power supply	24 V
Max. motor current	5 A
Motor power	120 W
Max. torque	260 Nm
Max. boom length	4250 mm
Max opening	90°
Opening time	5,5 sec
Work cycles	50%
Encoder	YES
Limit switches	NO
Grease lubricant	TS10

#### TECHNICAL SPECIFICATIONS BUILT IN CONTROL UNIT

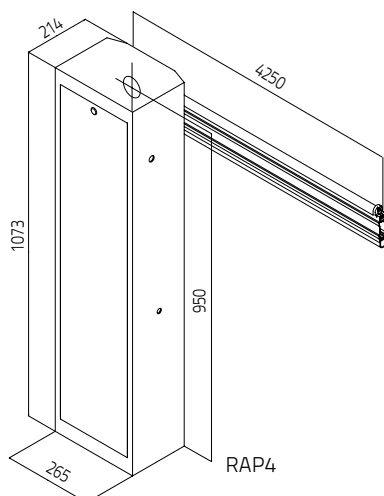
Model	T124R4
Power supply	230 V
Max. current	1,5 A
Electronic slow down	YES
Compatible with Sun Power	YES

#### GENERAL DATA

Working temperature	-20 +55 °C
Protection level	IP 54
Weight	48 Kg
Pallet	9 pcs

# RAP4

## DIMENSIONS



Dimensions in **mm**

## ACCESSORIES

**PSR**  
Mobile stand for bars.



**RAPPER4TL**  
Asta rigida tubolare in alluminio, verniciata bianca, Ø 7 cm, L 4,25 m, luce netta 4 m.



**SRS**  
Rastrelliera in plastica L 200 cm.



**PAF3**  
Adjustable fixed stand for bars.



**FIX RAP4**  
Base plate with clamps.



**SNR**  
Joint.



**SPB24**  
External box with 2 batteries 12V 7Ah.



**LACO 24AL**  
Flashing light 24 V (only lamp) with built in 433 MHz antenna.



**SUN POWER**  
Solar power kit with solar panel and battery. Suitable for all 24 V control units.



**CB24**  
24 V battery charger. Suitable for 24 V control units.

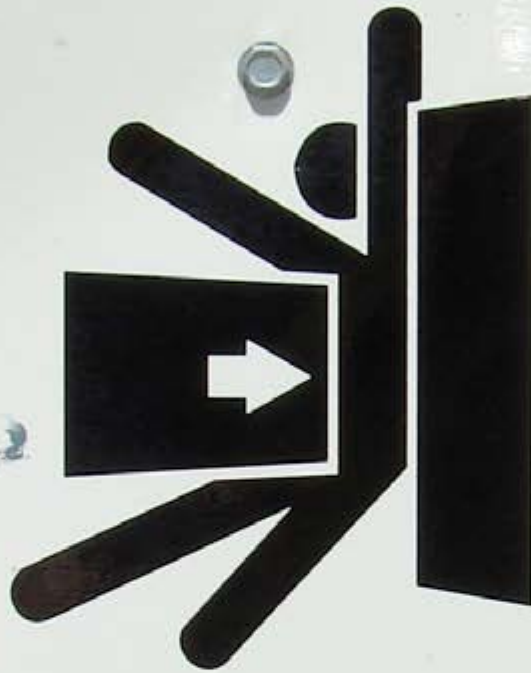


**SERIE OC2**  
2 channels plug in receiver.





**! WARNING**



## **Moving Gate Can Cause Serious Injury or Death**

**KEEP CLEAR!** Gate may move at any time without prior warning.

Do not let children operate the gate or play in the gate area.

This entrance is for vehicles only.

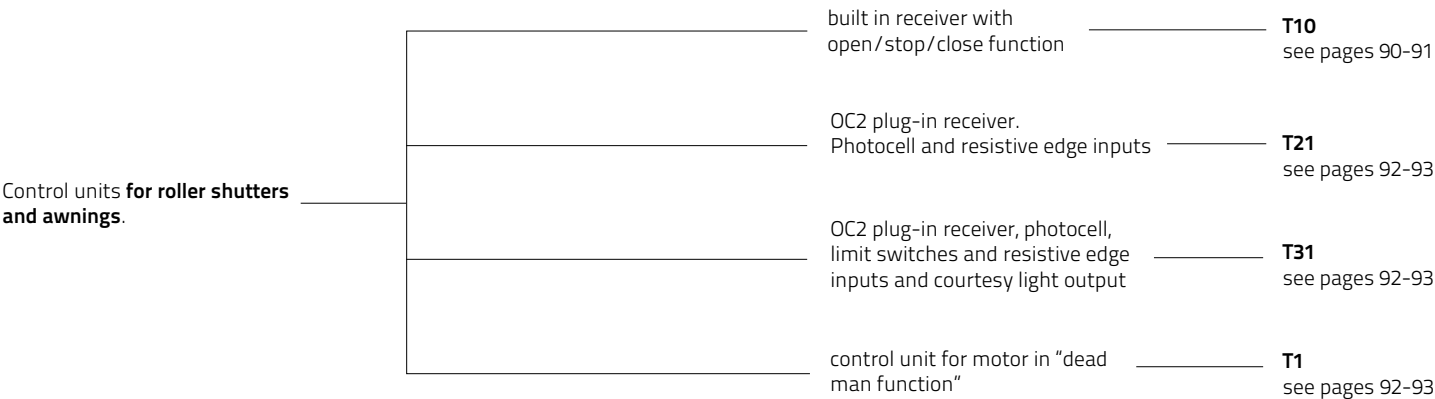
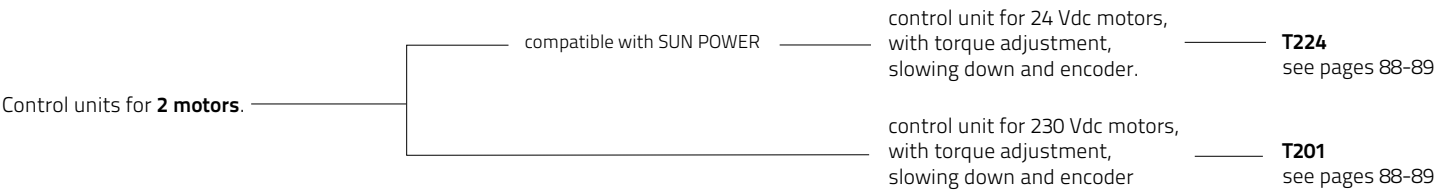
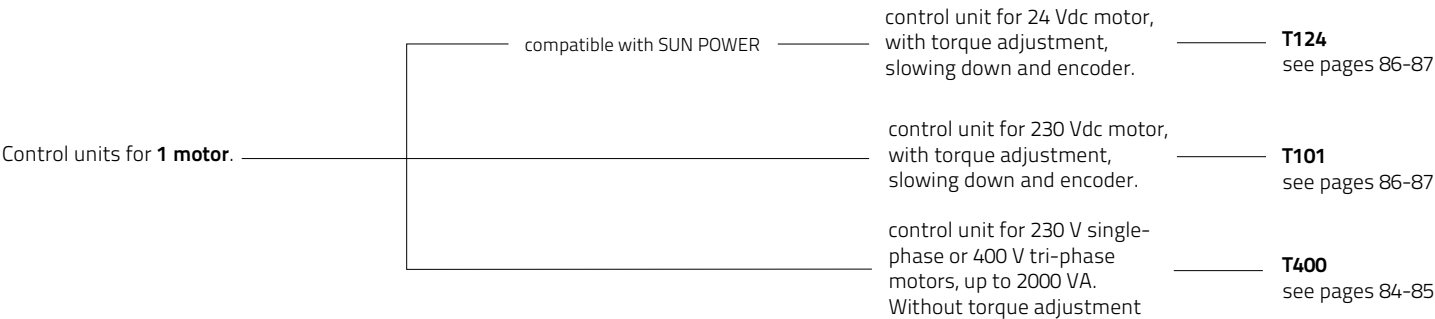
Pedestrians must use separate entrance.



# CONTROL UNITS

CONTROL UNITS

# SELECTION GUIDE





T124 T101



T400



T224 T201



T10

T21

T31

T1

# SUN POWER

## SOLAR POWER SUPPLY KIT



This product uses the solar energy to supply automations for gates, garage doors, barriers etc. situated faraway from the electric line, without making any excavation works.

SUN POWER is compatible with all Telcoma control units for 24 Vdc motors, making them independent, reducing the electricity costs and respecting the environment.

CHARACTERISTICS	SUN POWER
Power supply	24 Vdc
Output voltage	24 Vdc
Output max power	10 A
Stand by consumption	1 mA
Battery capacity	7 (x2) Ah
Panel power	5 (x2) W
Panel dimensions	290x240x35 (x2)
Working temperature	-20 +55 °C

Predisposition for OC2 receiver

# SUN POWER

## ACE



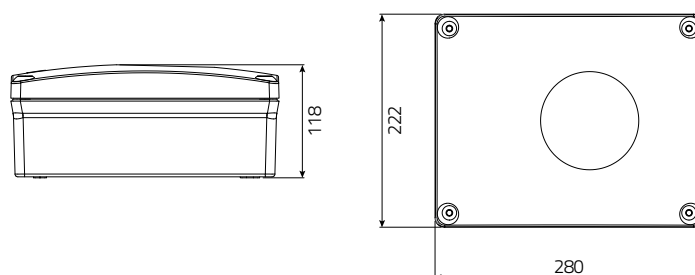
## STONE



## TEN



## DIMENSIONS



## ACCESSORIES

### SPW10

Additional solar panel.



# T400

## ELECTRONIC CONTROL UNIT

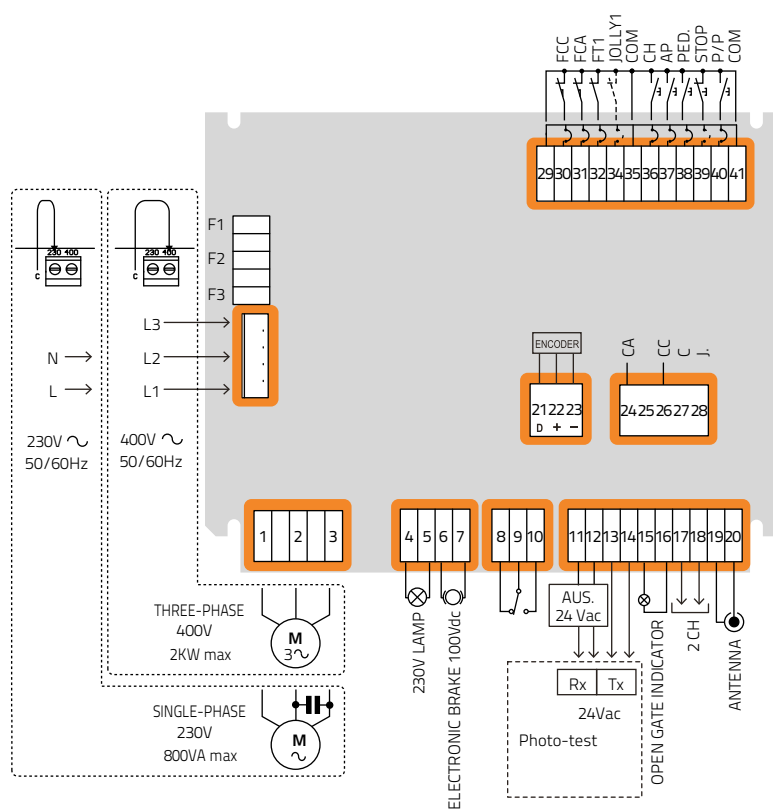


Control unit for one motor 3phase 400 V or single phase 230 V. **Ideal for EVO2000T.**

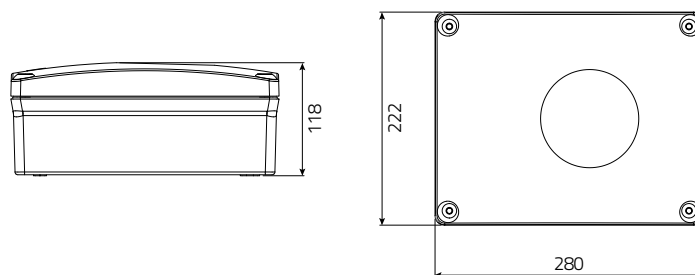
Operates with or without encoder.  
Complete with self learning function, two separate connections for latest generation sensitive edges (EN 12978). Connector for safety limit switches.

CHARACTERISTICS	T400
Power supply	230/400 Vac
Motor power supply	230/400 Vac
Motor output	n. 1
Max. motor power	2000 VA
Protection level	IP 56
Connector for OC2/SR receiver	YES
Electronic torque adjustment	NO
Encoder	YES
Self-learning times	YES
Step-by-step push button	YES
Open push button	YES
Close push button	YES
Stop push button	YES
Limit switch	YES
Photocell	YES
Automatic closure	YES
Slowing down	NO
Electronic brake	YES
Working temperature	-20 +70 °C





## DIMENSIONS



## ACCESSORIES

**LACO 220A**  
Flashing light 230 V, with built in 433 MHz antenna.



**SERIE OC2**  
2 channels plug in receiver.



**TAST 3F**  
Flat adhesive push-button panel complete with plug in connector. Easy to apply to the Telcoma controller box. For internal use only.



# T101-T124

## ELECTRONIC CONTROL UNIT



Control unit **for 1 motor** 24 V/230 V.

### T101

Control unit for 1 motor **230 Vac**, with torque adjustment, slowing down and encoder.

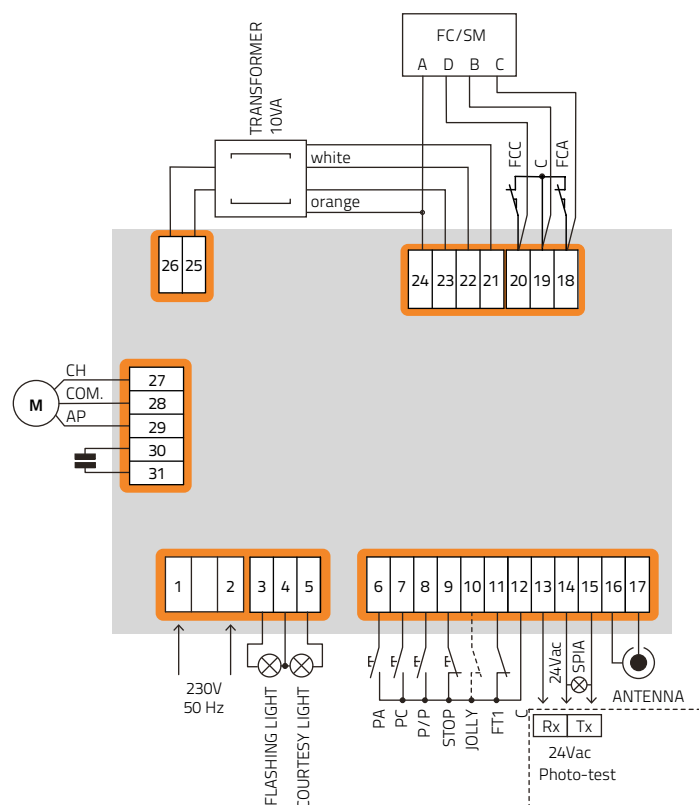
### T124

Control unit for 1 motor **24 Vdc**, with torque adjustment, slowing down and encoder.

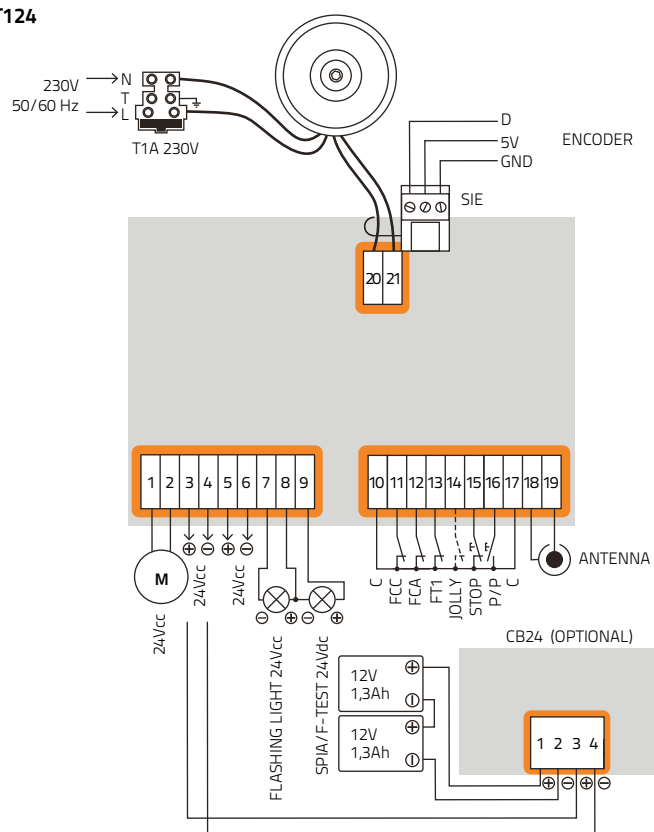
CHARACTERISTICS	T101	T124
Power supply	230 Vac	230 Vac
Motor power supply	230 Vac	24 Vdc
Motor output	n. 1	n. 1
Max. motor power	1100 VA	120 VA
Protection level	IP 56	IP 56
Connector for OC2 receiver	YES	YES
Electronic torque adjustment	YES	YES
Encoder	YES	YES
Self-learning times	YES	YES
Step-by-step push button	YES	YES
Open push button	YES	NO
Close push button	YES	NO
Stop push button	YES	YES
Limit switch	YES	YES
Photocell	YES	YES
Automatic closure	YES	YES
Slowing down	YES	YES
Electronic brake	YES	YES

# T101-T124

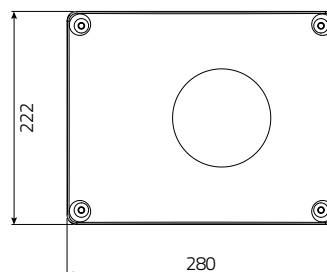
## T101



## T124



## DIMENSIONS



## ACCESSORIES

### MES

Electric lock module. For T101.



### SERIE OC2

2 channels plug in receiver.



### LACO 220A

Flashing light 230 V, with built in 433 MHz antenna. For T101.



### LACO 24AL

Flashing light 24 V (only lamp) with built in 433 MHz antenna.



### SUPBAT

Pair of brackets to fix 2 BAT12V2a to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# T201-T224

## ELECTRONIC CONTROL UNIT



Control unit **for 2 motors** 24 V/230 V.

### T201

Control unit for 1/2 motors **230 Vdc**, with torque adjustment, slowing down and encoder.

### T224

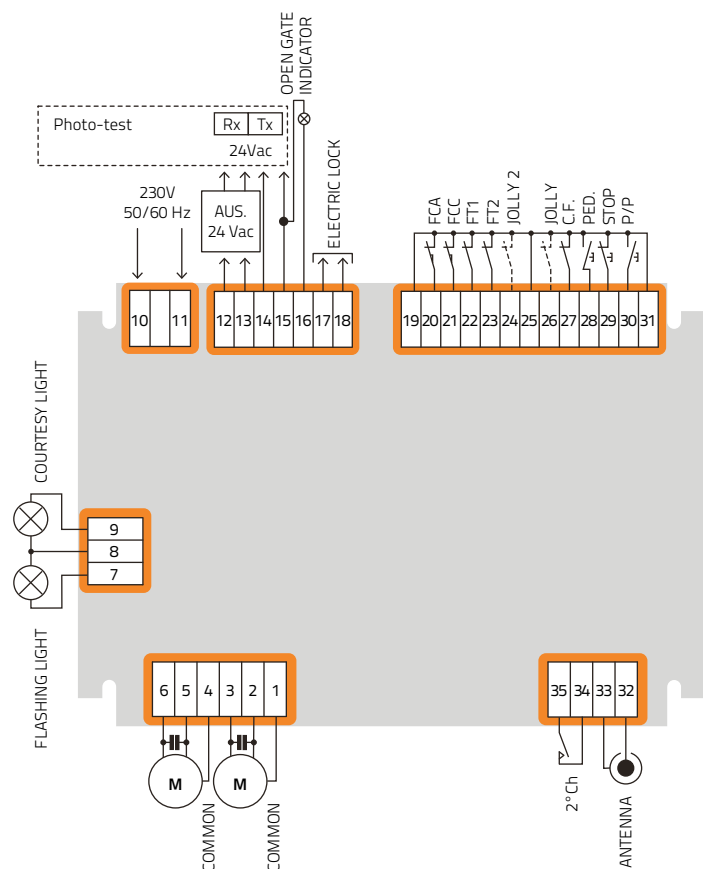
Control unit for 2 motors **24 Vdc**, with torque adjustment, slowing down and encoder.

CHARACTERISTICS	T201	T224
Power supply	230 Vac	230 Vac
Motor power supply	230 Vac	24 Vdc
Motor output	n. 2	n. 2
Max. motor power	2x800 (1x1100) VA	2x180 VA
Protection level	IP 56	IP 56
Connector for CS2/SR receiver	YES	YES
Electronic torque adjustment	YES	YES
Encoder	YES	YES
Self-learning times	YES	YES
Step-by-step push button	YES	YES
Open push button	YES*	YES*
Close push button	YES*	YES*
Stop push button	YES	YES
Limit switch	YES	YES
Photocell	YES	YES
Automatic closure	YES	YES
Slowing down	YES	YES
Electronic brake	NO	YES

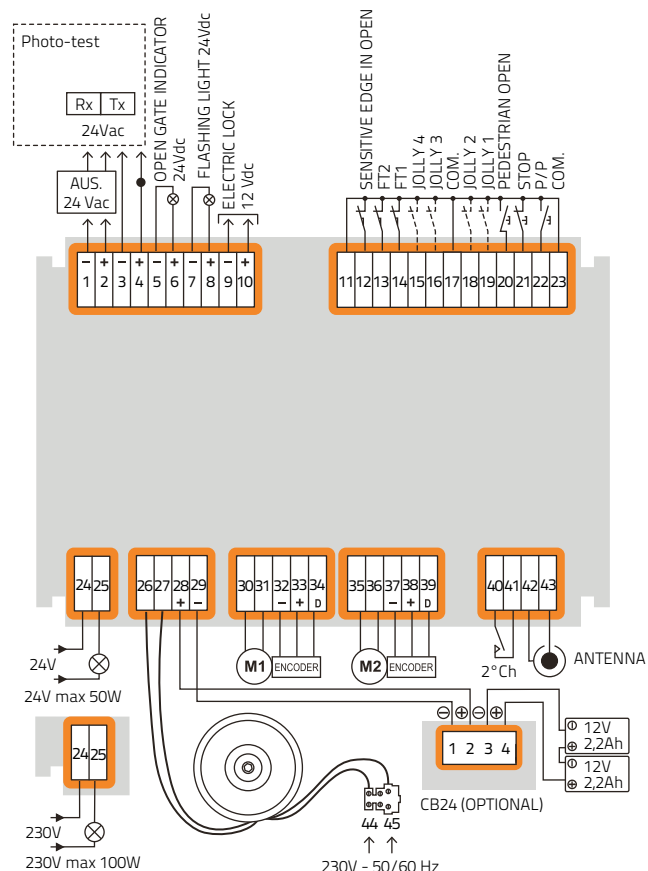
\* Jolly input

# T201-T224

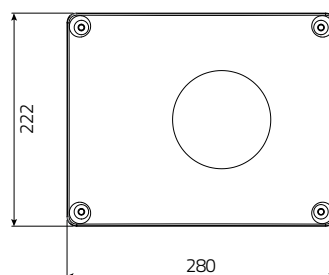
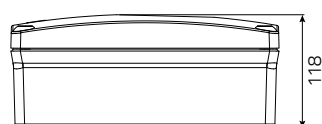
T201



T224



## DIMENSIONS



## ACCESSORIES

### SERIE OC2

2 channels plug in receiver.



### LACO 220A

Flashing light 230 V, with built in 433 MHz antenna. For T201.



### LACO 24AL

Flashing light 24 V (only lamp) with built in 433 MHz antenna. For T224.



### SUPBAT

Pair of brackets to fix 2 BAT12V2A to the cover of control units box.

### BAT12V2A

Battery 12V 2Ah.

### CB24

24 V battery charger. Suitable for 24 V control units.



### SUN POWER

Solar power kit with solar panel and battery. Suitable for all 24 V control units.



# T10

## ELECTRONIC CONTROL UNIT



Control unit **for roller shutters**, with built in receiver.  
Ideal for tubular or shutter motors.  
It can also control **lighting systems** with 2 lamps at 230V.  
Inputs for via wire controls.  
Built-in receiver compatible with EDGE, NOIRE and FM400 series.

### T10 EDGE

Control unit with built in receiver EDGE series.

### T10 NOIRE

Control unit with built in receiver NOIRE series.

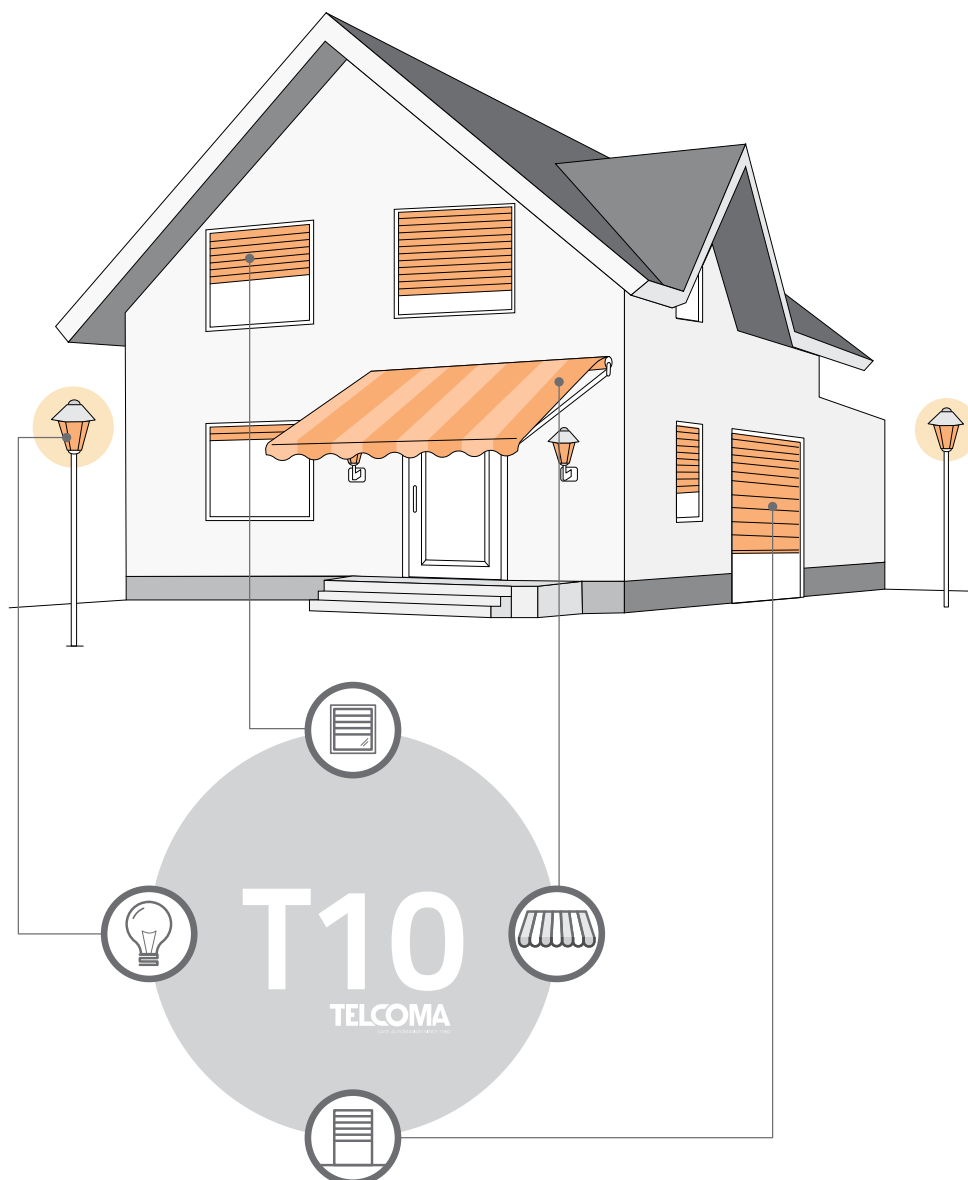
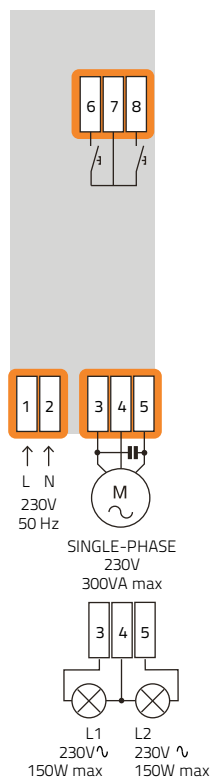
### T10 FM400

Control unit with built in receiver FM400 series.

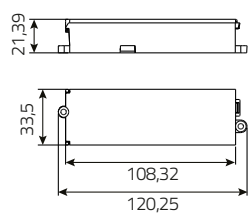
CHARACTERISTICS	T10
Power supply	230 Vac
Motor power supply	230 V
Motor output	n. 1
Max. motor power	500 VA
Built in radio	EDGE, NOIRE, FM400
Open push button	YES
Close push button	YES



# T10



## DIMENSIONS



## COMPATIBLE WITH SERIES EDGE, NOIRE AND FM



# T21-T31-T1

## ELECTRONIC CONTROL UNIT



Control unit for 1 roller shutter **motor in 230 V**.  
Plug in receiver (optional).

### T21

Control unit for roller shutters. Ideal for tubular or shutters motor with built in limit switches.

### T31

Control unit like T21, but with limit switch inputs, motor force adjustment and courtesy light output.

### T1

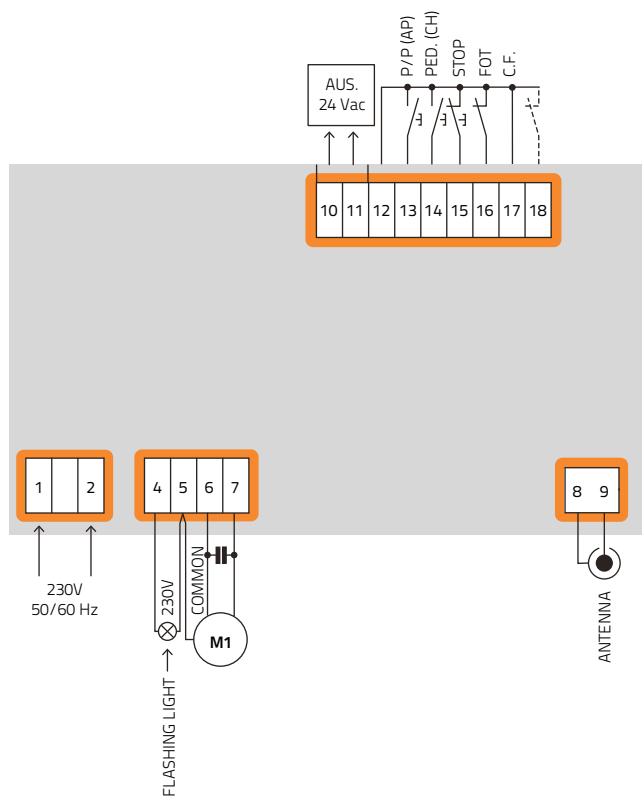
Control unit for motor in "dead man function".

CHARACTERISTICS	T21	T31	T1
Power supply	230V	230V	230V
Motor power supply	230V	230V	230V
Motor output	1	1	1
Max. motor power	1000W	1000W	1000W
Protection level	IP44	IP44	IP56
Connector for OC2 receiver	YES	YES	NO
Electronic torque adjustment	NO	YES	NO
Self-learning times	YES	YES	NO
Step-by-step push button	YES	YES	NO
Open push button	YES*	YES*	YES (U.P.)
Close push button	YES*	YES*	YES (U.P.)
Stop push button	YES	YES	NO
Limit switch	NO	YES	NO
Photocell	YES	YES	NO
Automatic closure	YES	YES	NO

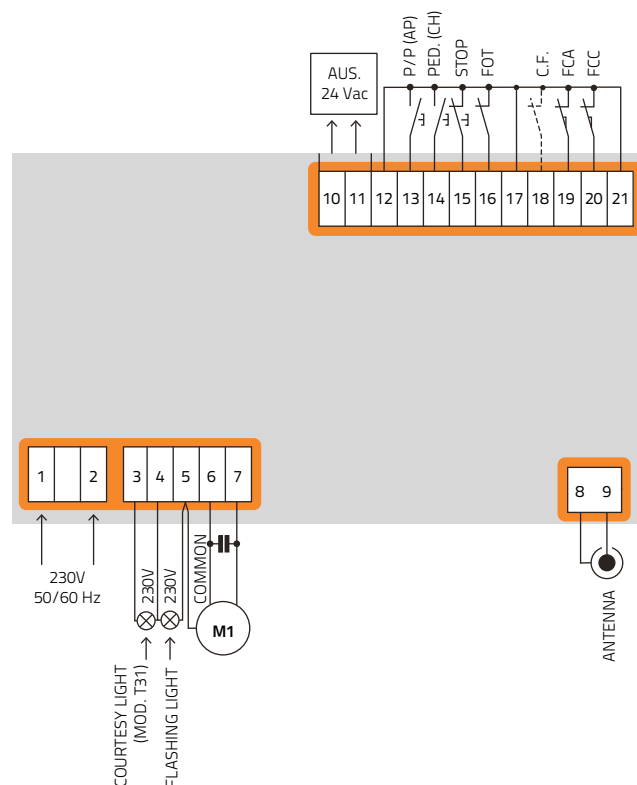
\*Can be selected through dip-switch functions

# T21-T31-T1

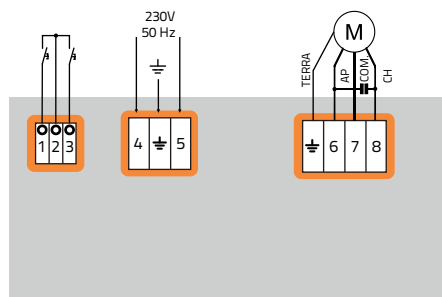
**T21**



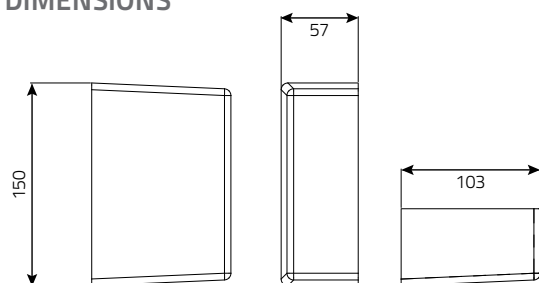
**T31**



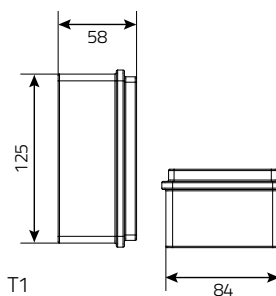
**T1**



## DIMENSIONS



T21-T31



T1

## ACCESSORIES

### LACO 220A

Flashing light 230 V, with built in 433 MHz antenna.



### SERIE OC2

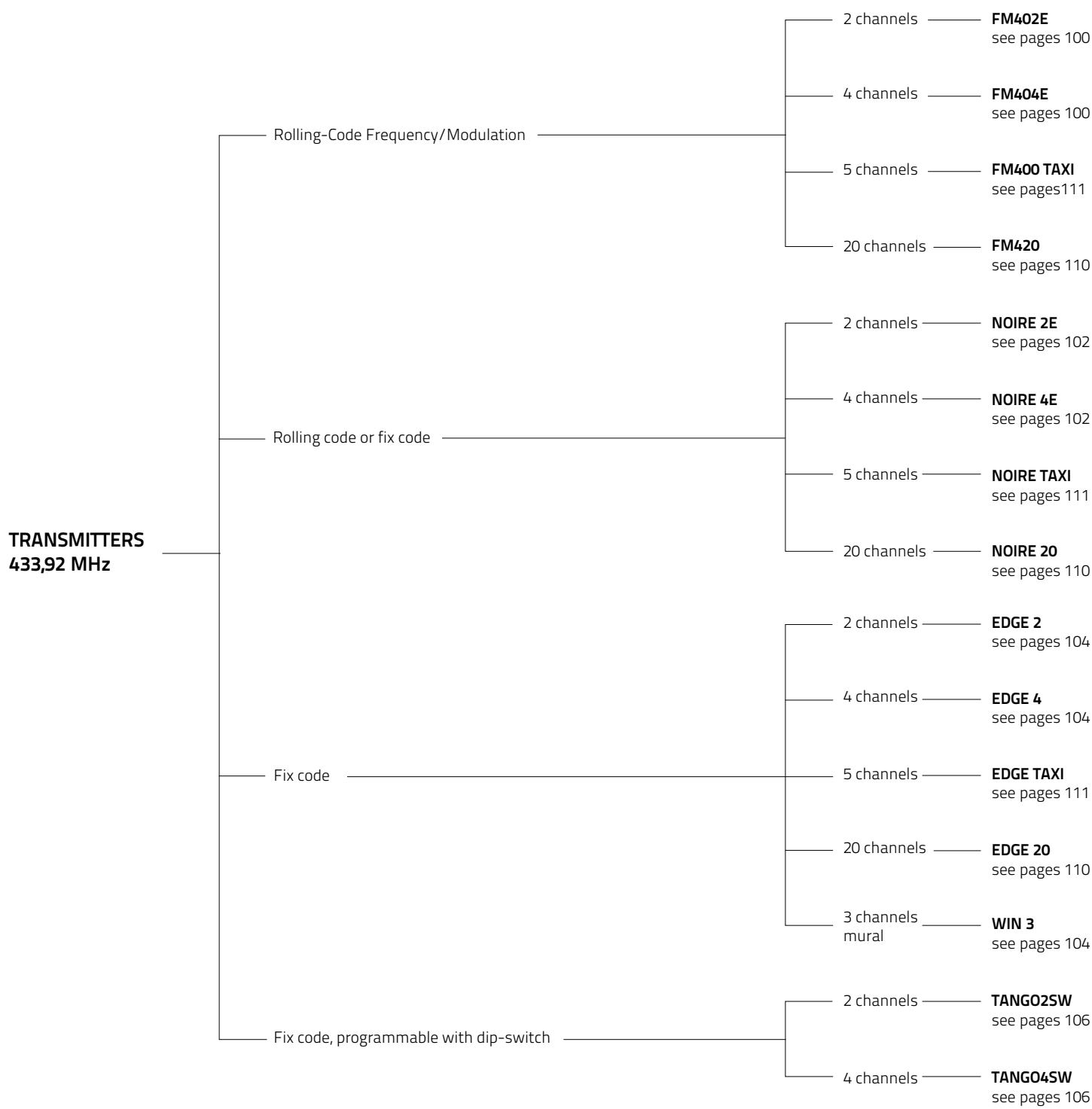
2 channels plug in receiver.





# REMOTE CONTROLS

# SELECTION GUIDE



**TRANSMITTERS  
40,665 MHz**

- Fix code, programmable with dip-switch
  - 4 channels — **FOX4**  
see pages 108





FM402E



FM404E



FM400 TAXI



FM420



NOIRE 2E



NOIRE 4E



NOIRE TAXI



NOIRE 20



EDGE 2



EDGE 4



EDGE TAXI



EDGE 20



WIN 3



TANGO2SW



TANGO4SW



FOX 4

# SELECTION GUIDE

<b>FM RECEIVERS</b>	Plug-in for Telcoma control units	2 channels	<b>FM400 OC2</b> see pages 101
	Power supply 12/24 Vac/dc contact 0,5 A (30 V)	2 channels	<b>FM400 RB2</b> see pages 101
	Power supply 12/24 Vac/dc contact 4A (30 V)	4 channels	<b>FM400 R4</b> see pages 101
	Power supply 230 V contact 5 A (230 V)	4 channels	<b>FM400 230R4</b> see pages 101

<b>NOIRE RECEIVERS</b>	Plug-in for Telcoma control units	2 channels	<b>NOIRE OC2</b> see pages 103
	Power supply 12/24 Vac/dc contact 0,5 A (30 V)	2 channels	<b>NOIRE RB2</b> see pages 103
	Power supply 12/24 Vac/dc contact 4 A (30 V)	4 channels	<b>NOIRE R4</b> see pages 103
	Power supply 230 V contact 5 A (230 V)	4 channels	<b>NOIRE 230R4</b> see pages 103

<b>EDGE RECEIVERS</b>	Plug-in for Telcoma control units	2 channels	<b>EDGE OC2</b> see pages 105
	Power supply 12/24 Vac/dc contact 0,5 A (30 V)	2 channels	<b>EDGE RB2</b> see pages 105
	Power supply 12/24 Vac/dc contact 4 A (30 V)	4 channels	<b>EDGE R4</b> see pages 105
	Power supply 230 V contact 5 A (230 V)	4 channels	<b>EDGE 230R4</b> see pages 105

<b>FOX RECEIVERS</b>	External receiver	2 channels	<b>FOX RB2</b> see pages 109
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**FM400 OC2**



**FM400 RB2**



**FM400 R4P**



**FM400 230R4**



**NOIRE OC2**



**NOIRE RB2**



**NOIRE R4P**



**NOIRE 230R4**



**EDGE OC2**



**EDGE RB2**



**EDGE R4P**



**EDGE 230R4**



**FOX RB2**

# FM400

## REMOTE CONTROLS

The refined design, sober and essential assures the maximum ergonomic comfort.

FM range combines the security of the rolling code to an excellent immunity to radio interferences.

Special functions: self learning and the possibility to add codes remotely.

### FM TRANSMITTERS

#### FM 402E e FM 404E

Portable transmitters 2/4 channels.

#### FM 420

FM 420 Multichannel transmitter to control up to 20 automations.

#### FM400 TAXI

FM TAXI 5 channels transmitter specially designed to be installed in the car. Automatically repeats the radio signal improving convenience and safety for the driver.



FM 402E

FM 404E

FM 420



FM400 TAXI

CHARACTERISTICS	FM 402E	FM 404E	FM 420	FM400 TAXI
Power supply/battery type	3 V / CR2032	3 V / CR2032	3 V / CR2430	3 V / CR2430
Absorbed current in transmitting	20 mA	20 mA	50 mA	50 mA
Transmitting frequency	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz
Radiated power	400 $\mu$ W	400 $\mu$ W	900 $\mu$ W	900 $\mu$ W
Number of combinations	2 <sup>66</sup>	2 <sup>66</sup>	2 <sup>66</sup>	2 <sup>66</sup>
Number of functions	2	4	21	5
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C

### ACCESSORIES

#### SOFT FM400

Advanced software for archives management.



#### B3V2032

Lithium battery 3 V CR 2032.  
Pack of 50 pcs.



#### MEM64

1012 codes memory.



#### PTE

Transmitter-holder.



# FM400

## FM RECEIVERS

### FM 400 OC2

FM 400 OC2 2 channels plug in receiver for Telcoma control units.



FM 400 OC2



FM 400 RB2

### FM 400 RB2

FM 400 RB2 compact size universal receiver 12/24 V ac/dc power supply. 2 channels.

### FM 400 R4P

FM 400 R4P external universal receiver 4 channels. 12/24 V ac/dc power supply IP44 .



FM 400 R4P



FM 400 230 R4

### FM 400 230 R4

FM 400 230 R4 external universal receiver 4 channels. 230 V power supply. IP56.

CHARACTERISTICS	FM 400 OC2	FM 400 RB2	FM 400 R4P	FM 400 230 R4
Power supply	5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V
Consumption in Stand-by	12 mA	40 mA	40 mA	12 mA
Relay contact max capacity	-	0,5 A	4 A	5 A
Relay contact max voltage	-	30 Vdc	30 Vdc	230 V
Number of outputs	2	2	4	4
Storage codes	500	500	500	500
Storage codes with MEM64	1012	1012	1012	1012
Protection level	-	-	IP 44	IP 56
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C

## ACCESSORIES

### PRG FM400

Programming unit for adding/erasing transmitter codes and managing families of codes. Complete with power supply.



### DAMA430

Antenna for 433 MHz receivers, complete with stainless steel bracket and connection cable (3 m).



# NOIRE

## REMOTE CONTROLS AND RECEIVERS

NOIRE remote control are flexible; they can work at with fix code 433.92 MHz or with Rolling Code, to grant maximum safety. All NOIRE transmitters can be personalized though a *family code*, by using programming unit PRG NOIRE. The refined design, sober and essential, assures the maximum ergonomic comfort.

The remote control range is completed by code self-learning receivers and programmable outputs.

### NOIRE TRANSMITTERS

#### NOIRE 2E e NOIRE 4E

NOIRE 2E and NOIRE 4E Portable transmitters 2/4 channels.

#### NOIRE 20

NOIRE 20 Multichannel transmitter to control up to 20 automations.

#### NOIRE TAXI

NOIRE TAXI 5 channels transmitter specially designed to be installed in the car. Automatically repeats the radio signal improving convenience and safety for the driver.



NOIRE 2E

NOIRE 4E

NOIRE 20



NOIRE TAXI

CHARACTERISTICS	NOIRE 2E	NOIRE 4E	NOIRE 20	NOIRE TAXI
Power supply/battery type	3 V / CR2032	3 V / CR2032	3 V / CR2430	3 V / CR2430
Absorbed current in transmitting	8 mA	8 mA	50 mA	50 mA
Transmitting frequency	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz
Radiated power	150 µW	150 µW	900 µW	900 µW
Number of combinations	1048576	1048576	1048576	1048576
Number of functions	2	4	21	5
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C

### ACCESSORIES

#### SOFT NOIRE

Advanced software for archives management.



#### B3V2032

Lithium battery 3V CR 2032.  
Pack of 50 pcs.



#### MEM16

675 codes memory.



#### PTE

Transmitter-holder.





# NOIRE

## NOIRE RECEIVERS

### NOIRE OC2

Noire OC2 plug in receiver for Telcoma control units.  
2 channels.



NOIRE OC2

### NOIRE RB2

NOIRE RB2 compact size universal receiver 12/24  
Vac/dc power supply. 2 channels.



NOIRE RB2

### NOIRE R4P

NOIRE R4P external universal receiver 4 channels.  
12/24 V ac/dc power supply IP44 .



NOIRE R4P

### NOIRE 230 R4

NOIRE 230 R4 R4 external universal receiver 4  
channels. 230 V power supply. IP56.



NOIRE 230 R4

CHARACTERISTICS	NOIRE OC2	NOIRE RB2	NOIRE R4P	NOIRE 230 R4
Power supply	5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V
Consumption in Stand-by	12 mA	40 mA	40 mA	12 mA
Relay contact max capacity	-	0,5 A	4 A	5 A
Relay contact max voltage	-	30 Vdc	30 Vdc	230 V
Number of outputs	2	2	4	4
Storage codes	163CF/70RC	163	163	163
Storage codes with MEM16	675CF/289RC	675	675	675
Protection level	-	-	IP 44	IP 56
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C

## ACCESSORIES

### PRG NOIRE

Programming unit for adding/erasing transmitter  
codes and managing families of codes.  
Complete with power supply.



### DAMA430

Antenna for 433 MHz receivers, complete with  
stainless steel bracket and connection cable (3 m).



# EDGE

## REMOTE CONTROLS AND RECEIVERS

The refined design, sober and essential assures the maximum ergonomic comfort.

Edge range combines the simplicity of the fixed code to an excellent transmission range. Special functions: self learning codes and possibility to copy codes directly between transmitters.

### EDGE TRANSMITTERS

#### EDGE 2 e EDGE 4

EDGE 2E and NOIRE 4E Portable transmitters 2/4 channels.

#### EDGE 20

EDGE 20 Multichannel transmitter to control up to 20 automations.

#### EDGE TAXI

EDGE TAXI 5 channels transmitter specially designed to be installed in the car. Automatically repeats the radio signal improving convenience and safety for the driver.

#### WIN 3

WIN 3 wall-mounted transmitter compatible with EDGE series. Combined with T10 receiver permits to add one control point for motorized shutters, awnings or lights. Ideal to avoid all the masonry work usually necessary to add a wired switch.



EDGE 2

EDGE 4

EDGE 20



EDGE TAXI



WIN 3

CHARACTERISTICS	EDGE2	EDGE4	EDGE 20	EDGE TAXI	WIN3
Power supply/battery type	3 V / CR2032	3 V / CR2032	3 V / CR2430	3 V / CR2430	3 V / CR2430
Absorbed current in transmitting	8 mA	8 mA	50 mA	50 mA	15 mA
Transmitting frequency	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz
Radiated power	150 µW	150 µW	900 µW	900 µW	700 µW
Number of combinations	1048576	1048576	1048576	1048576	1048576
Number of functions	2	4	21	5	3
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C

### ACCESSORIES

#### B3V2430

Lithium battery 3 V CR 2430.  
Pack of 10 pcs.



#### B3V2032

Lithium battery 3 V CR 2032.  
Pack of 50 pcs.



#### MEM16

675 codes memory.



#### PTE

Transmitter-holder.



# EDGE

## EDGE RECEIVERS

### EDGE OC2

DGE OC2 plug in receiver for Telcoma control units.  
2 channels.



EDGE OC2

### EDGE RB2

EDGE RB2 compact size universal receiver 12/24 V  
ac/dc power supply. 2 channels.



EDGE RB2

### EDGE R4P

EDGE R4P external universal receiver 4 channels.  
12/24 V ac/dc power supply IP44.



EDGE R4P

### EDGE 230 R4

EDGE 230 R4 external universal receiver 4 channels.  
230V power supply. IP56.



EDGE 230 R4

CHARACTERISTICS	EDGE OC2	EDGE RB2	EDGE R4P	EDGE 230 R4
Power supply	5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V
Consumption in Stand-by	12 mA	40 mA	40 mA	12 mA
Relay contact max capacity	-	0,5 A	4 A	5 A
Relay contact max voltage	-	30 Vdc	30 Vdc	230 Vac
Number of outputs	2	2	4	4
Storage codes	163	163	163	163
Storage codes with MEM16	675	675	675	675
Protection level	-	-	IP 44	IP 56
Working temperature	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C

## ACCESSORIES

### PRG EDGE

Programming unit for adding/erasing transmitter  
codes. Complete with power supply, connecting cable  
to PC and software for managing codes on file.



### DAMA430

Antenna for 433 MHz receivers, complete with  
stainless steel bracket and connection cable (3 m).



# TANGO SW

## REMOTE CONTROLS AND RECEIVERS

Telcoma radio controls, models of high-technology electronic, have been designed to supply the user with an excellent functionality and very high-quality electronic grants the perfect efficiency.  
Il raffinato design sobrio ed essenziale assicura il massimo comfort ergonomico.

### TANGO TRANSMITTERS

#### TANGO 2SW

Portable transmitters 2/4 channels.

#### TANGO 4SW

Portable transmitters 2/4 channels.



TANGO 2SW



TANGO 4SW

CHARACTERISTICS	TANGO 2SW	TANGO 4SW
Power supply/battery type	12V / GP23A	12V / GP23A
Absorbed current in transmitting	10 mA	10 mA
Transmitting frequency	433,92 MHz	433,92 MHz
Radiated power	1000 µW	1000 µW
Number of combinations	1024	1024
Number of functions	2	4
Working temperature	-20 +55 °C	-20 +55 °C

### ACCESSORIES

#### B12

Battery 12V GP23A, package of 50 pcs.



#### MEM16

1012 codes memory.



# TANGO SW

## TANGO RECEIVERS

### TANGO RB2 SW

2 channels external receiver (IP30).

### TANGO OC2 SW

2 channels plug in receiver.



TANGO OC2 SW



TANGO RB2 SW

CHARACTERISTICS	TANGO OC2 SW	TANGO RB2 SW
Power supply	5 Vdc	12/24 Vac/dc
Consumption in Stand-by	12 mA	40 mA
Relay contact max capacity	-	0,5 A
Relay contact max voltage	-	30 Vdc
Number of outputs	2	2
Code storage	244	244
Code storage with MEM16	1012	1012
Working temperature	-20 +55 °C	-20 +55 °C

## REMOTE CONTROLS AND RECEIVERS

Telcoma radio controls, models of high-technology electronic, have been designed to supply the user with an excellent functionality and very high-quality electronic grants the perfect efficiency.  
Il raffinato design sobrio ed essenziale assicura il massimo comfort ergonomico.

### FOX REMOTE CONTROLS

#### FOX 4

4 channel crystal transmitter, programmable code, frequency **40,665 MHz**.



CHARACTERISTICS	FOX 4
Power supply/battery type	12V / GP23A
Absorbed current in transmitting	30 mA
Transmitting frequency	40,665 MHz
Radiated power	40 µW
Number of combinations	1024
Number of functions	4
Working temperature	-20 +55 °C

### ACCESSORIES

#### MEM16

1012 codes memory.



#### B12

Battery 12V GP23A, package of 50 pcs.





# FOX

## FOX RECEIVER

**FOX RB2**  
2 channels external receiver (IP30),  
frequency 40,665 MHz.



FOX RB2

CHARACTERISTICS	FOX RB2
Power supply	12/24 Vac/dc
Consumption in Stand-by	50 mA
Relay contact max capacity	0,5 A
Relay contact max voltage	30 Vdc
Number of outputs	2
Code storage	244
Code storage with MEM16	1012
Working temperature	-20 + 55 °C

## ACCESSORIES

**DIVA40**  
Antenna for 40 MHz receivers, complete with  
stainless steel bracket and connection cable (3 m).



# MULTICANALE

## REMOTE CONTROLS

Multicanale transmitter ideal to control numerous automations.

**Compatible with Edge, Noire and FM receivers,** Multicanale is ideal to manage domotic functions in residential and commercial buildings. Special function: associates a number of channels to a single button on the transmitter.



**FM 420  
NOIRE 20  
EDGE 20**

CHARACTERISTICS	FM 420	NOIRE 20	EDGE 20
Power supply/battery type	3 V / CR2430	3 V / CR2430	3 V / CR2430
Absorbed current in transmitting	50 mA	50 mA	50 mA
Transmitting frequency	433,92 MHz	433,92 MHz	433,92 MHz
Radiated power	900 µW	900 µW	900 µW
Number of combinations	2 <sup>66</sup>	1048576	1048576
Number of functions	21	21	21
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C



# TAXI

## REMOTE CONTROLS

High performance transmitter thanks to its special function: repeats the signal at regular intervals.

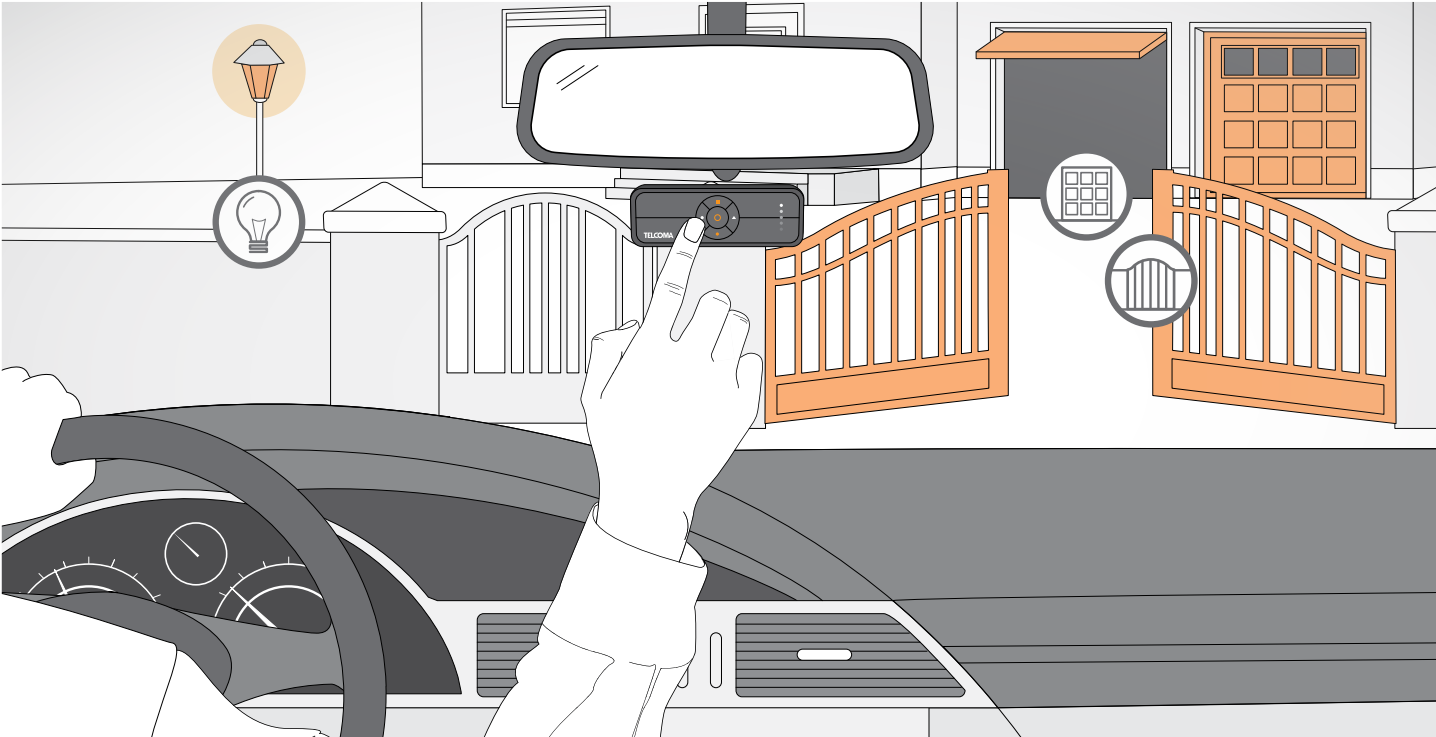
**Compatible with Edge, Noire and FM receivers,** Taxi is perfect to be installed in the car. Thanks to the practical fastening system it is always easily reachable by the driver.

The signal repetition function is adjustable from 10 to 40 seconds. The driver can press the button in advance and be certain that the gate will start opening as he approaches.  
Ideal for those gates that open onto busy streets.  
No more waiting on the street while the gate opens.



FM TAXI  
NOIRE TAXI  
EDGE TAXI

CHARACTERISTICS	FM400 TAXI	NOIRE TAXI	EDGE TAXI
Power supply/battery type	3 V / CR2430	3 V / CR2430	3 V / CR2430
Absorbed current in transmitting	50 mA	50 mA	50 mA
Transmitting frequency	433,92 MHz	433,92 MHz	433,92 MHz
Radiated power	900 µW	900 µW	900 µW
Number of combinations	2 <sup>66</sup>	1048576	1048576
Number of functions	5	5	5
Working temperature	-20 +55 °C	-20 +55 °C	-20 +55 °C





# ACCESSORIES

# FLASHING LIGHT

## WALL + LITE

### LED light

Ideal to be installed directly on Overhead doors and Sectional doors reducing both installation time and masonry works.

Resistant to shocks and vibrations and energy efficient.

Supplied with 3,5 m cable and fixing accessories. Suitable for all control units: 24/230V with or without dedicated flashing light connection.



## INSTALLATION DIAGRAM



1. Wall/Lite 2. Motor 3. Transmitter 4. Photocells 5. Control unit  
6. Selector 7. Sun Power 8. Photovoltaic panel

## ACCESSORIES

### BLINKER

Flashing card for wall. 24 Vac/dc power supply and output 24 Vdc (max. 300 mA). 2 types of flash are selectable.

### AL2VA

Transformer 230 V input and 24 Vdc (max. 80 mA) output. Ideal to connect Wall and Lite to control units with output 230 V.

# FLASHING LIGHT

## LACO

### LACO 220 A

Flashing light, 230 V power supply, with built in 433 MHz antenna.

### LACO 24 AL

Flashing light 24V (only lamp) with antenna 433 MHz.



## LACO LED

Led flashing light with antenna, from LACO series.

LACO range is renewed with a low consumption flashing light, which also resists to vibration and shocks. Available in 24 V.

### LACOLED24

Led flashing light, 24 V power supply.



## SUPLACO

Plastic support for flashing light.



## FLASH

### FLASH 220

Compact size flashing light, 230 V power supply.



See specifications **page 116**



# FLASHING LIGHT

	LACO			FLASH	WALL
FLASHING LIGHT CHARACTERISTICS	220A	24AL	LED24	220	
Power supply	230 V	24 Vdc	24 Vac/dc	230 V	24 V
Max. power	40 W	25 W	3 W	25 W	1 W
Lamp	E14	E14	LED	E14	LED
In built blinker card	YES	-	YES	YES	-
Inbuilt antenna	YES	YES	YES	-	-
Working temperature	-20 + 70 °C	-20 + 70 °C	-20 + 70 °C	-20 + 70 °C	-20 + 70 °C
Protection level	IP 54	IP 54	IP 54	IP 54	IP 54
COMPATIBILITY CHART					
T124	-	YES	YES	-	YES
T124 F	-	YES	YES	-	YES
T124 RAP	-	YES	YES	-	YES
T224	-	YES	YES	-	YES
E224	-	YES	YES	-	YES
T101	YES	-	-	YES	-
T201	YES	-	-	YES	-
S101	YES	-	-	YES	-
S101A	YES	-	-	YES	-
T21/T31	YES	-	-	YES	-
E124	YES	-	-	YES	YES
Z124	YES	-	-	YES	YES
SN24	-	YES	YES	-	YES
AF124	-	YES	YES	-	YES
T400	YES	-	YES	YES	-

# ANTENNE

## DIVA 40

Antenna for 40 MHz receivers, complete with stainless steel bracket and connection cable (3 m).

## DAMA 430

Antenna for receivers at 433 MHz, complete with stainless steel brackets and connection cable (3 m).



## VEDO180

Pair of synchronized external photocells with adjustable optics.  
The infrared beam is adjustable 180° horizontally. Range 25 m.



## VEDO180PRO

NEW

PROgrammable infrared photocell. Ideal for complex installations, up to 8 couples of photocells thanks to new synchronised system. Infrared beam could be regulated horizontally over 180°.  
The particular selfcentering lent corrects mistakes also vertically. Supply can be at 24V alternating voltage or continue, without polarity refer.  
Range 25m.



CHARACTERISTICS	VEDO 180	VEDO 180 PRO
Power supply	12/24 +/- 10% Vac/dc	12/24 +/- 10% Vac/dc
Range	25m	25m
RX consumption (a 24 Vac)	40mA	50mA
TX consumption (a 24 Vac)	50mA	20mA
Max. relay voltage	30Vdc	30Vdc
Working temperature	-20 +55°	-20 +55°
Protection level	IP44	IP44
Dimensions	102x43x34 mm	102x43x34 mm

# PHOTOCELLS AND SELECTORS

## APRO

External key selector.

CHARACTERISTICS	APRO
Max. current	2 A
Max. voltage	24 V
Dimensions	102x43x34 mm
Protection level	IP 44
Available keys	10



## PASSO

### PASSO

Digital key selector via wire, supplied with his own decoder.

### PASSO TS

Digital key selector via wire: only the key pad for multiple installations.

### PASSO R

Digital selector via radio, battery power supply, compatible with receiver Edge, TangoSW and Noire.

### PASSO FM400

Digital selector via radio, battery power supply, compatible with FM receiver.

CHARACTERISTICS	DECODER	PASSO AND PASSO TS	PASSO R AND PASSO FM400
Power supply	12/24 Vac/dc	12/24 Vac/dc	Battery CR2430
Consumption (a 24 Vac)	120 mA	60 mA	12 mA
Relay max. current	1 A	-	-
Max. relay voltage	24 Vac	-	-
Max. line distance	200 m	200 m	-
Max No. codes storage	750	-	-
Max. No. of keypad per receiver	-	4	-
Dimensions	79x48x21 mm	102x43x34 mm	102x43x34 mm
Protection level	IP 20	IP 44	IP 44



PASSO

DECODER

## **PASSO CARD** NEW

This device enables activation of relays via RFID (Radio Frequency IDentification) technology, by simply moving the transponder (CARD) close the reader.

System safety is guaranteed by the serial connection to a remote decoder which enables the connection of multiple CARD readers or PASSO digital keypads (max. 4 devices). The PASSO CARD is supplied with: a reader, a decoder, a Master CARD and a User CARD.

### PASSO CARD

Complete set of reader, receiver, CARD and CARD MASTER.

### PASSO CARD TS

Reader of CARD for multiples installations, supplied with CARD Master and Card User.

### CARD10

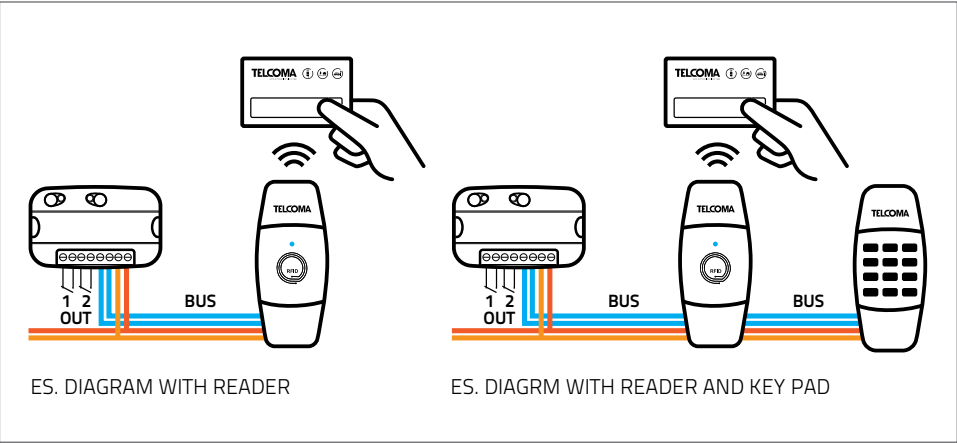
Pack of CARD 10 pcs.

### PRGCARD

Programmer of CARD.

TECHNICAL SPECIFICATIONS	DECODER	READER CARD
Power supply	12/24 +/- 10% Vac/dc	12/24 +/- 10% Vac/dc
Consumption (a 24 Vac)	120 mA	100mA
Max. relay voltage	30 Vdc	-
Max relay supply	0,5 A	-
Maximum lenght of connections	200 m	200 m
Max no. codes storage	750	-
Working temperature	-20 +55° C	-20 +55° C
Protection level	IP20	IP54
Dimensions	79x48x21 mm	102x43x34 mm

### WIRING DIAGRAMS



READER and CARD



DECODER



PRG CARD

# PHOTOCELLS AND SELECTORS

## BLINDO

Cover protection for **APRO/VEDO** and **PASSO**, aluminum cast. Pack of 2 pcs.



## COP

Finishing cover for **APRO/VEDO/PASSO**. Perfect to cover pre-existing fittings. Pack of 2 pcs.



## POS

### POS 50A

Aluminum post 55 cm height, one module for **APRO/VEDO** and **PASSO**. Pack of 2 pcs.

### POS 100A

Aluminum post 110 cm height, one module for **APRO/VEDO** and **PASSO**.

### POS 100AA

Aluminum post 110 cm height, two module for **APRO/VEDO** and **PASSO**.



## CP POS

Fixing kits for posts POS50A, POS100A and POS100AA. Pack of 1 pcs.



## ACCESSORI

### B3V2430

Lithium battery 3 V CR 2430.

Pack of 10 pcs.

For PASSO R.



# PHOTOCELLS AND SELECTORS

## SME

Aluminum external key selector.

CHARACTERISTICS	SME
Max. current	5 A
Max. voltage	24 V
Dimensions	89x77x46 mm
Protection level	IP 44
Available keys	10



## SELCH

Flush mounted plastic key selector.

CHARACTERISTICS	SELCH
Max. current	2 A
Max. voltage	24 V
Dimensions	69x69x78 mm
Protection level	IP 44
Available keys	10



## CPM

Flush mounted plastic housing for **ILB SINCRO** and **SELCH**.



# PHOTOCELLS AND SELECTORS

## FT201 SINCRO

Pair of synchronized external photocells with adjustable optics, range 60 m.

CHARACTERISTICS	FT201 SINCRO
Power supply	12/24±10% Vac/dc
Characteristics	60 m
RX consumption (a 24 Vac)	40 mA
TX consumption (a 24 Vac)	50 mA
Max. relay voltage	30 Vdc
Working temperature	-20 +55° C
Protection level	IP 44
Dimensions	87x59x40 mm



## ILB SINCRO

Pair of synchronized flush mounted photocells with adjustable optics, range 50 m.

CHARACTERISTICS	ILB SINCRO
Power supply	12/24±10% Vac/dc
Characteristics	50 m
RX consumption (a 24 Vac)	40 mA
TX consumption (a 24 Vac)	50 mA
Max. relay voltage	30 Vdc
Working temperature	-20 +55° C
Protection level	IP 44
Dimensions	69x69x78 mm



## ILBINO SINCRO

Pair of synchronized mini photocells. Range 25 m.

CHARACTERISTICS	ILBINO SINCRO
Power supply	12/24±10% Vac/dc
Characteristics	25 m
RX consumption (a 24 Vac)	40 mA
TX consumption (a 24 Vac)	50 mA
Max. relay voltage	30 Vdc
Working temperature	-20 +55° C
Protection level	IP 44
Dimensions	70x30 mm



## COL

### COL A54

Post for FT201 SINCRO. 54 cm height. Pack of 2 pcs.

### COL AA100

Post for double photocell FT201 SINCRO. 100 cm height.





# SENSITIVE SAFETY EDGES

## SRC

Wireless Radio System to connect sensitive edges and other safety devices where the wiring is not possible. Thanks to the long life batteries and the two-way radio transmission, the system communicates continuously with the automation making the application safe and versatile.

CHARACTERISTICS	SRC TXN	SRC RXN
Frequency	868 MHz*	868 MHz*
Transmission	FSK bidirectional	FSK bidirectional
Radio Range	80**	80**
Protection level	IP 54	IP 55
Power supply	2 batteries alkaline AA	12/24 Vdc/ac
Consumption	battery life 3 years	60 mA
Contact range	-	0,5/24 A/V
Working temperature	-20 +55°C	-20 +55°C
Dimensions	146x64x38 mm	130x90x60 mm
Number of functions	1	2



\* tunable on 4 different frequencies  
\*\*in optimal conditions

## CK

**CK160**  
Safety edge, as per European norm EN 12978, to be installed with CSSENSOR.  
length 160 cm, with caps.

**CK200**  
Safety edge, as per European norm EN 12978, to be installed with CSSENSOR.  
Length 200 cm, with caps.



## CS

**CS120**  
Narrow safety edge, as per European norm EN 12978, to be installed with CSSENSOR.  
Length 120 cm, without caps.

**CS180**  
Narrow safety edge, as per European norm EN 12978, to be installed with CSSENSOR.  
Length 180 cm, without caps.



## ACCESSORIES

**CSANG DX/SX**  
Right or Left corner joint.



**CSGIUN**  
Linear joint.



**CSTAP SX/DX**  
Right or left finishing cap.



## CS SENSOR

Electronic card for 8.2KOhm safety edge CK and CS. 24 V power supply.



## LD 2

Vehicle detector, 24 Vdc/ac power supply.

CHARACTERISTICS	LD 2
Power supply	24 Vdc
Consumption	100 mA
Relay contact max voltage	24 V
Relay contact max capacity	0,5 A
Number of outputs	3
Protection level	IP 54
Working temperature	-20 +55°C
Dimensions	146x64x38 mm



## INSEGNA

Neon sign 70x50 cm with side-bracket for lag-like installation.



## CANCELLO DEMO

Quadruple demo gate, delivered with:

- one Ace Fast
- one Tag
- one Asy 324
- one Arm 24
- one Passo R
- one Edge 4
- 3 Control units T124
- 4 Receivers OC2.



## NOTE

# FUNCTIONS CONTROL UNITS

## CENTRALI 230 V

### GENERAL DATA

	T21	T31	T101	S101	T201	T400
Recommended for	shutter/awning	shutter/awning	sliding gate /single swing gate/barrier	overhead door	swing gate/ double sliding gate	sliding gate/ industrial door
N. Motors	1	1	1	1	2	1
Max VA	230 Vac max 1000 VA	230 Vac max 1000 VA	230 Vac max 1100 VA	230 Vac max 1100 VA	230 Vac max 2x600 VA	230/400 Vac max 2000 VA
Power supply	230Vac 50Hz max 5 A	230Vac 50Hz max 5 A	230Vac 50Hz max 6,3 A	230Vac 50Hz max 6,3 A	230Vac 50Hz	230/400 Vac 50/60 Hz
Positions learning	/	electronic clutch	encoder/ electronic clutch	encoder/ electronic clutch	encoder/ electronic clutch	encoder
Electronic protection	timer	timer	encoder or timer	encoder or timer	encoder or timer	encoder or timer
Radio receiver	OC2 (opt.)	OC2 (opt.)	OC2 (opt.)	OC2 (opt.)	OC2 e SR (opt.)	OC2 e SR (opt.)

### MAIN FUNCTIONS

N. functions with Dip Switch	4	4	10	10	12	12
Slow down and soft-start	/	/	YES	YES	YES	/
Electronic brake	/	/	YES	YES	/	YES

### AUX OUTPUT

Power output	24 Vac max 200 mA	24 Vac max 200 mA	24 Vac 150 mA	24 Vac 150 mA	24 Vac 150 mA	24 Vac 300 mA
Flashing light	230 V max 100 W	230 V max 100 W	230 V max 200 W	230 V max 200 W	230 V max 200 W	230 V max 40 W
Courtesy light	/	230 V max 100 W	230 V max 200 W	230 V max 200 W	230 V max 200 W	contact 5A (exit US1)
Open gate indicator	/	/	24 Vac max 3 W	24 Vac max 3 W	24 Vac max 3W	24 Vac max 3W
Electric lock	/	/	with MES (opt.)	with MES (opt.)	12 Vcc max 15W	contact 5A (exit US1)
Photo test	/	/	YES	YES	YES	YES

### CONNECTIONS

STEP by STEP	YES	YES	YES	YES	YES	YES
OPEN	YES (P/P connection)	YES (P/P connection)	YES	YES	/	YES
CLOSE	YES (Pedestrian connection)	YES (Pedestrian connection)	YES	YES	/	YES
PEDESTRIAN open	YES	YES	YES	YES	YES	YES
STOP	YES	YES	YES	YES	YES	YES
Photo	/	/	YES	YES	YES	/
Photo only in close	YES	YES	YES	YES	YES	YES
Sensitive edge	YES (8.2KOhm connection)	YES (8.2KOhm connection)	YES	YES	YES	2 connections 8.2 KOhm
FC OPEN and CLOSE	/	SI	YES	YES	YES	YES
JOLLY 1	/	/	*B *F2 *O *P	*B *F2 *O *P	*A *D *G *O	*F2 *S *T1 *T2
JOLLY 2	/	/	/	/	*C *E *F3	/
JOLLY 3	/	/	/	/	/	/
JOLLY 4	/	/	/	/	/	/

\*A = Open  
 \*B = C. F.  
 \*C = Close  
 \*D = Fca  
 \*E = Fcc  
 \*F2 = Photo 2  
 \*F3 = Photo 3

\*G = Safety edge in Open  
 \*O = Timer  
 \*P = Pedestrian  
 \*S = Slave  
 \*T1 = Open timer  
 \*T2 = Pedestrian timer

## CENTRALI 24 V

### GENERAL DATA

	T124	T124F	Z124	E124	T224	E224
Recommended for	sliding gate / single swing gate	overhead door	sectional door (ZEN)	swing gate (TEN1)	overhead door and double sliding gate	swing gate (TEN2)
N. Motors	1	1	1	1	2	2
Max VA	24Vcc max 120W	24Vcc max 120W	24Vcc max 120W	24Vcc max 120W	24Vcc max 2x180W	24Vcc max 2x180W
Power supply	230Vac Battery 24V (opt.)	230Vac Battery 24V (opt.)	230Vac Battery 24V (opt.)	230Vac Battery 24V (opt.)	230Vac Battery 24V (opt.)	230Vac Battery 24V (opt.)
Positions learning	encoder or amperometrica	encoder	encoder	encoder	encoder or amperometrica	encoder or amperometrica
Electronic protection	encoder or timer	encoder	encoder	encoder	encoder or timer	encoder or timer
Radio receiver	OC2 (opt.)	OC2 (opt.)	OC2 (opt.)	OC2 (opt.)	SR/ OC2 (opt.)	SR/ OC2 (opt.)

### MAIN FUNCTIONS

N. functions with Dip Switch	10	10	10	10	12	12
Slow down and soft-start	YES	YES	YES	YES	YES	YES
Electronic brake	SlA YES	YES	YES	YES	YES	YES

### AUX OUTPUT

Power output	24Vcc max 1A	24Vcc max 1A	24Vcc 1A	24Vcc 1A	24Vcc max 1A	24Vcc max 1A
Flashing light	24Vcc max 1A	24Vcc max 1A	230V max 100W	230V max 100W	24Vcc max 1A	24Vcc max 1A
Courtesy light	/	24Vcc max 100W	12Vcc max 10W	/	Free contact max 2A	Free contact max 2A
Open gate indicator	24Vcc max 1A	/	/	/	24Vcc max 1A	24Vcc max 1A
Electric lock	/	/	/	12Vcc max 15W	12Vcc max 15W	12Vcc max 15W
Photo test	YES	/	/	/	YES	YES

### CONNECTIONS

STEP by STEP	YES	YES	YES	SI	YES	YES
OPEN	/	/	/	/	/	/
CLOSE	/	/	/	/	/	/
PEDESTRIAN open	/	/	/	/	YES	YES
STOP	YES	YES	YES	YES	YES	YES
Photo	/	/	/	/	YES	YES
Photo only in close	YES	YES	YES	YES	YES	YES
Sensitive edge	/	/	YES (8.2KOhm)	YES (8.2KOhm)	YES (sensitive edge in open)	YES (sensitive edge in open)
FC OPEN and CLOSE	YES	YES	/	/	YES	YES
JOLLY 1	*C *F2 *G *P	*C *F2 *G *P	/	/	*A *D1	*A *D1
JOLLY 2	/	/	/	/	*C *E1	*C *E1
JOLLY 3	/	/	/	/	*A *D2 *F3	*A *D2 *F3
JOLLY 4	/	/	/	/	*C *E2 *H	*C *E2 *H

\*A = Open

\*B = C. F.

\*C = Close

\*D1 = Fca M1

\*E1 = Fcc M1

\*D2 = Fca M2

\*E2 = Fcc M2

\*F2 = Photo 2

\*F3 = Photo 3

\*G = Safety edge in Open

\*H = Safety edge in Close

\*O = Timer

\*P = Pedestrian

# FUNCTIONS REMOTE CONTROLS

## TRANSMITTERS DATA

	FM				NOIRE			
	402E	404E	420	400TAXI	2E	4E	20	TAXI
Power supply/battery	3V / CR2032	3V / CR2032	3V / CR2430	3V / CR2430	3V / CR2032	3V / CR2032	3V / CR2430	3V / CR2430
Consumption	20 mA	20 mA	50 mA	50 mA	8 mA	8 mA	50 mA	50 mA
Radio frequency	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz
Power	400 µW	400 µW	900 µW	900 µW	150 µW	150 µW	900 µW	900 µW
Modulation	FM	FM	FM	FM	AM	AM	AM	AM
Rolling Code combinations	2 <sup>66</sup>	2 <sup>66</sup>	2 <sup>66</sup>	2 <sup>66</sup>	1048576	1048576	1048576	1048576
N. channels	2	4	20	5	2	4	20	5
Rolling-Code	YES	YES	YES	YES	YES	YES	YES	YES
PRG to input family code	YES	YES	YES	YES	YES	YES	YES	YES
Working temperature	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C
Dimensions (mm)	36x74,5x10,5	36x74,5x10,5	41x116x13,2	41x116x13,2	36x74,5x10,5	36x74,5x10,5	41x116x13,2	41x116x13,2

## RECEIVERS DATA

	FM400				NOIRE			
	OC2	RB2	R4P	230R4	OC2	RB2	R4P	230R4
Power supply	5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V	5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V
Stand-by consumption	12 mA	40 mA	40 mA	12 mA	12 mA	40 mA	40 mA	12 mA
A output	/	0,5 A	4 A	5 A	/	0,5 A	4 A	5 A
V output	/	30 Vdc	30 Vdc	230 V	/	30 Vdc	30 Vdc	230 V
N. channels	2	2	4	4	2	2	4	4
N. codes	500	500	500	500	163	163	163	163
N. codes with extra memory	1012	1012	1012	1012	675	675	675	675
Working temperature	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C	-20+55 °C
Protection level	/	/	IP 44	IP 56	/	/	IP 44	IP 56
Dimensions (mm)	48,2x35,6x11	48,2x35,6x11	94x155x50	118x158x76	48,2x35,6x11	79x48x21	94x155x50	118x158x76

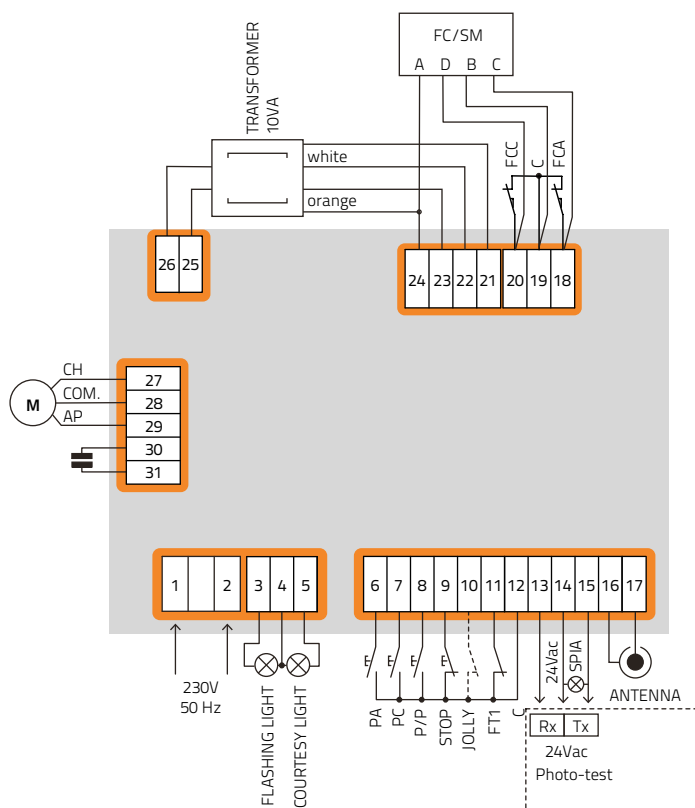
EDGE				WIN3	TANGO		FOX	
2	4	20	TAXI		25W	45W	2	4
3V / CR2032	3V / CR2032	3V / CR2430	3V / CR2430	3V / CR2430	12V / GP23A	12V / GP23A	12V / GP23A	12V / GP23A
8 mA	8 mA	50 mA	50 mA	15 mA	10 mA	10 mA	30	30
433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	433,92 MHz	40,665 MHz	40,665 MHz
150 µW	150 µW	900 µW	900 µW	700 µW	1000 µW	1000 µW	40 µW	40 µW
AM	AM	AM	AM	AM	AM	AM	AM	AM
1048576	1048576	1048576	1048576	1048576	1024	1024	1024	1024
2	4	20	5	3	2	4	2	4
/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/
-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C
36x74,5x10,5	36x74,5x10,5	41x116x13,2	41x116x13,2	82x84x16	39x78x18	39x78x18	39x78x18	39x78x18

EDGE				TANGO		FOX
OC2	RB2	R4P	230R4	OC2 SW	RB2 SW	RB2
5 Vdc	12/24 Vac/dc	12/24 Vac/dc	230 V	5 Vdc	12/24 Vac/dc	12/24 Vac/dc
12 mA	40 mA	40 mA	12 mA	12 mA	40 mA	50 mA
/	0,5 A	4 A	5 A	/	0,5 A	0,5 A
/	30 Vdc	30 Vdc	230 V	/	30 Vdc	30 Vdc
2	2	4	4	2	2	2
163	163	163	163	244	244	244
675	675	675	675	1012	1012	1012
-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C	-20 +55 °C
/	/	IP 44	IP 56	/	/	/
48,2x35,6x11	79x48x21	94x155x50	118x158x76	48,2x35,6x11	79x48x21	79x48x21

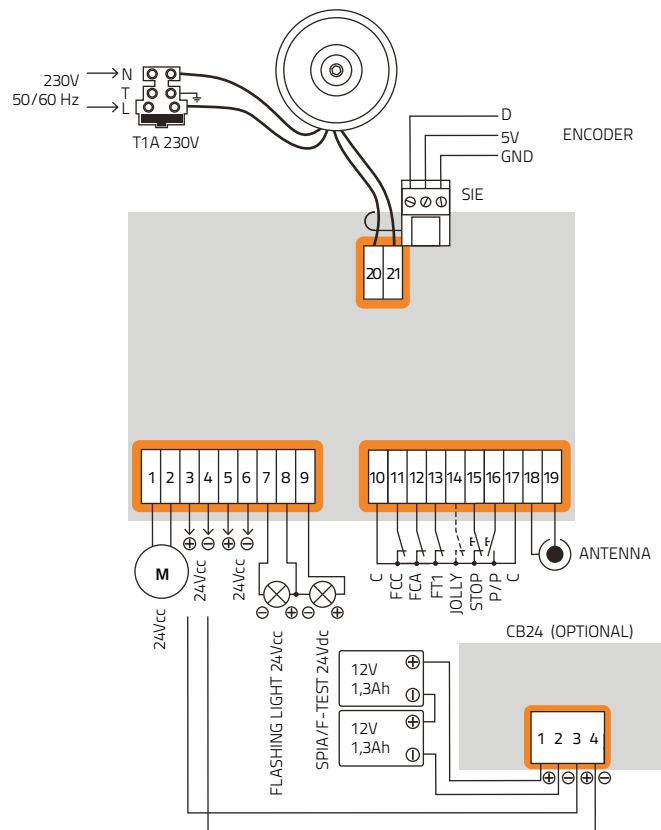


# WIRING DIAGRAMS

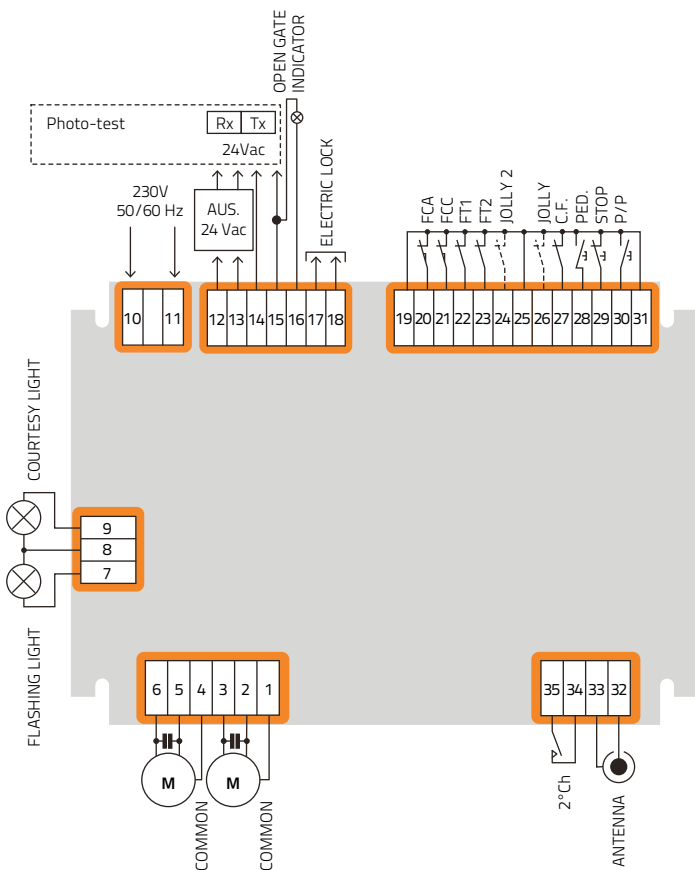
## CONTROL UNITS



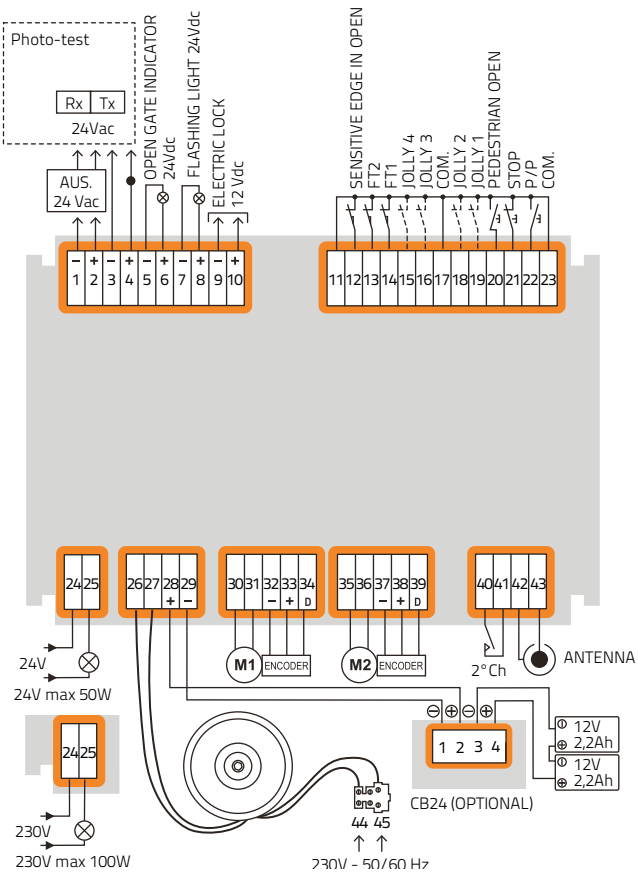
T101



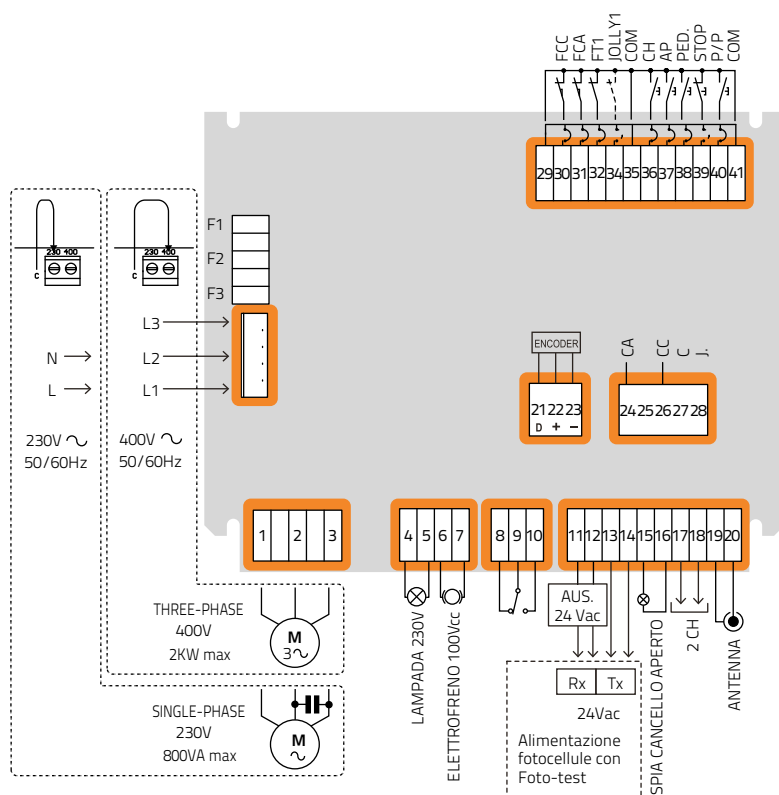
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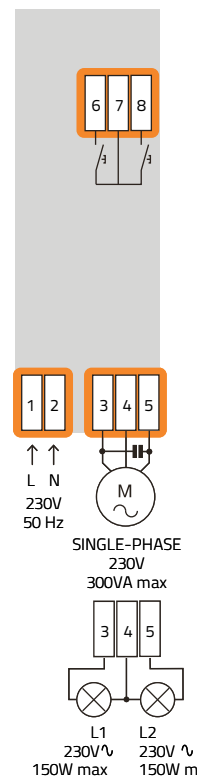
T201



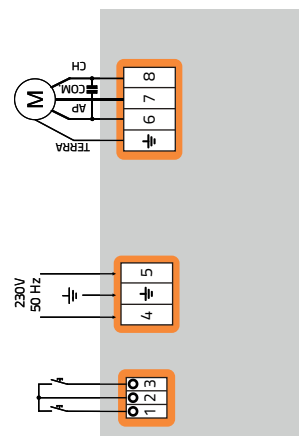
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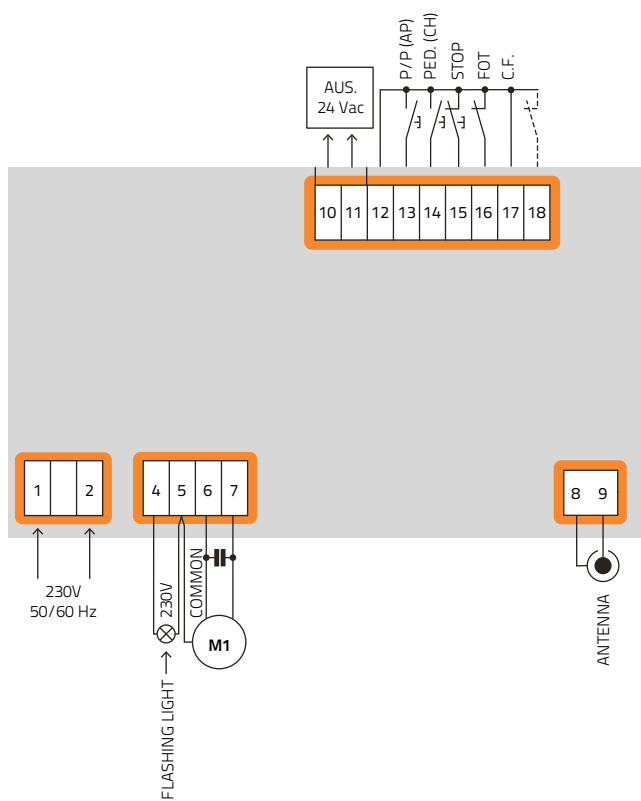
T400



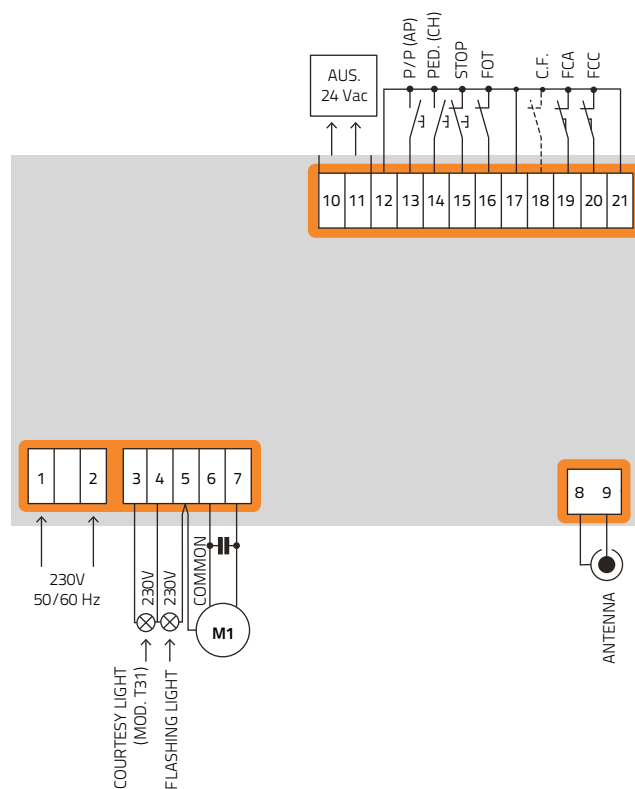
T10



T1



T21



T31

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MOLE	56	SOFTFM400	100	TS40	23
MOLE230	56	SOFTNOIRE	102	TS60	25
<b>N</b>		SPB24	15	<b>V</b>	
NOIRE20	110	SPW10	83	VED0180	117
NOIRE230R4	103	SRA	35	VED0180PRO	117
NOIRE2E	102	SRCRXN	123	<b>W</b>	
NOIRE4E	102	SRCTXN	123	WALL	114
NOIREOC2	103	SRP	35	WIN3	104
NOIRER4P	103	SRS	75	<b>Z</b>	
NOIRERB2	103	SS200STAR A	67	ZEN100E	64
NOIRE TAXI	111	SS60STAR A	67	ZEN60E	64
<b>P</b>		STAR1E	66	ZENGB1E	64
PAF3	75	STAR1E24	66	ZENGB2E	64
PASSO	118	STAR2AE	66	ZENGB3E	64
PASSOCARD	119	STAR2E	66	ZENGB4E	64
PASSOCARDTS	119	STAR2E24	66	ZENG C1E	64
PASSOFM400	118	STICKERS	75	ZENG C2E	64
PASSOR	118	STONE3	38	ZENG C3E	64
PASSOTS	118	STONE324	38	ZENG C4E	64
POS100A	120	STONE3REV	38	ZENST2	65
POS100AA	120	STONE5	38		
POS50A	120	STONE524	38		
PRGCARD	119	STONE5REV	38		
PRGEDGE	105	SUNPOWER	82		
PRGFM400	101	SUPBAT	35		
PRGNOIRE	103	SUPLACO	115		
PSR	75	SUPZEN	65		
PTE	100	<b>T</b>			
<b>R</b>		T1	92		
RAP4	76	T101	86		
RAPPER4TL	77	T10EDGE	90		
RVS	13	T10FM400	90		
<b>S</b>		T10NOIRE	90		
S101B	67	T124	86		
SB LMOLE	57	T201	88		
SB LSMOLE	57	T21	92		
SELCH	121	T224	88		

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