

S A F E T Y A N D C O N T R O L

ACCESSORIES



SAFETY AND CONTROL ACCESSORIES

THE VALUE OF THE ACCESSORY IN AUTOMATED INSTALLATIONS

With every automated installation it is necessary to install all of the control and safety accessories as recommended by the current safety standards.

Selecting an automated installation, complete with all of the CAME control and safety accessories, means precise and easy installation, thus guaranteeing you and your customer the dependability and security of an **integrated system**; uniform and compatible in all of its components.

Signalling devices

Motion lights for motorized gates in 230V(110v) and in 24V versions.



Keypad control devices

A selected **personalized code**, guarantees total secrecy of operation. Practical also in the version with illuminated keypad.



Safety devices

The modulated infrared safety edge offers a much more efficient answer to the multiple needs of protection.



Safety devices

Modulated infrared photocells available in flush and surface mount versions, also available the special synchronized infrared beam version.



Radio control

devices

Controlling the opening of the automatic gate by radio control is even SIMPLER: The CAME ATOMO series transmitter is elegant, ergonomic and safe.

Radio transmitters are available in one to four channel versions, rolling and non-rolling code.



Command and control

panels

A range of made to fit solutions, with different technologies and functional characteristics according to the specific needs of the user. In all versions the logic is managed by a micro-processing command and control system.



Key controlled command

devices

Personalized key switch in flush and surface mount versions. Also available a magnetic key version.



Proximity Control

Enable passage to authorised user only. Stand alone access control unit for up to 250 users.

ADDITIONAL GUARANTEE WITH ORIGINAL EQUIPMENT

Selecting original CAME accessories also offers a concrete advantage: a special 3-YEAR GUARANTEE on all installed products.

Don't miss out on this opportunity: ask for more information about the PRODUCT GUARANTEE.



Cycle programming

Depending upon the type of application, programmable cycles are of five-, ten-, twenty- and fifty thousand.

Integration

Of the radio reception antenna, with the possibility of mounting on both sides.

A helping light

The automatic system for programming the periodic maintenance of the automatic gate.

In addition to the traditional gate motion signalling function, KIARO is also available with the "CYCLE COUNT" function.

A special version which memorizes the number of cycles performed by the automation and automatically signals the attainment of a predetermined maximum.

KIARO is available in 230V (110V) and in 24V versions.

Maximum visibility

Shell built with a high luminosity emission polymer, set of optical lenses for the visualization of the cycle count signal.

Practicality of installation

With wall mounting supports, capable of being oriented in 4 positions.

Models

- **KIARO N** Light in 230V (110V) AC
- **KIARO N24** Light in 24V ac/dc
- **KIARO IN** Light in 230V (110) ac with "cycle count" function
- **KIARO IN24** Light in 24V ac/dc with "cycle count" function
- **KIARO S** Wall mounting support

Technical specifications

Model	KIARO N / IN
Power supply	230V (110V) ac
Power	25W
Intermittence	50 %
Dimensions	130x170x76 mm (5" x 6 7/8" x 3")

Model	KIARO 24N / 24IN
Power supply	24V ac/dc
Power	25W
Intermittence	50 %
Dimensions	130x170x76 mm (5" x 6 7/8" x 3")

More secure photocells with beam synchronization

The **DIR** functioning principle consists of the auto-synchronization of the infrared beam between the receiver and transmitter.

The synchronization takes place at the moment the device is powered.

This establishes the condition that each receiver may only read the beam of its respective transmitter, thus excluding any problem of collision or reflection of the beams in the automated installation.

Beyond the unique technology, **DIR** is distinguished by a pleasant design and easy integration into any installation.

Sturdy and Compact

For all applications in which it is desired to improve resistance against possible collisions or acts of vandalism, the **DIR** photocell can be supplied in a metal version.

Easy to choose

Single model for surface, flush or support post mounts.

Simplification of the Installation

Thanks to the synchronization of the beams, **DIR** is especially adaptive to multiple applications excluding any possibility of interference among the infrared beams.



Modularity

The **DIR L** and **DIR LN** posts, made in anodised aluminium and in black anodised aluminium, are also modular and fitted in order to reach desired height (0,5 – 1 m / 19 æ"–39 æ").

Models

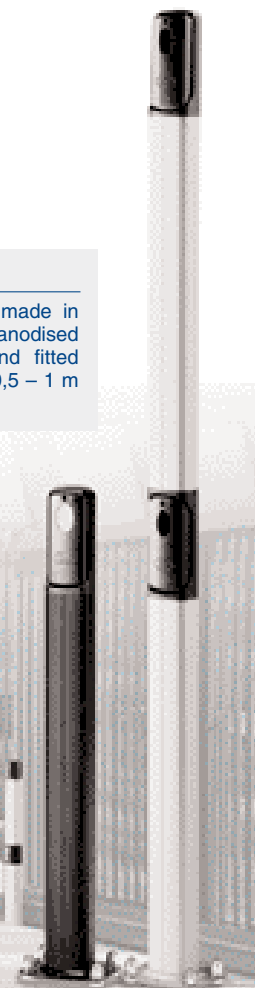
- **DIR 10** Photocell for gates up to 10 m (33ft)
- **DIR 20** Photocell for gates up to 20 m (66ft)
- **DIR 30** Photocell for gates up to 30 m (99ft)

Support accessories

- DIR Z** Metal covert
- DIR S** Flush mount back box
- DIR L/LN** Post in anodised aluminium / black anodised aluminium (H=0,5m/ 19 æ")
- DIR P/PN** Aluminium extension / black anodised aluminium (H=0,5m/ 19 æ")

Technical Specifications

Model	DIR 10/20/30
Power supply	12/24V ac/dc
Relay contact range	1A max a 24V
Electrical input	60 mA
Temp. of functionality	From -20°C to +70°C (-4°F to 158°F)
Materials	Container in ABS with covering in polycarbonate
Protection grade	IP 54 (NEMA 3)





Presence sensor photocells

DOC photocells are modulated infrared presence detector devices.

Their unity of transmission and reception guarantee functionality up to distances of 18 m (59ft), even under bad atmospheric conditions.

The interruption of the infrared beam, coming from the passage of a vehicle or person, is decoded by the CAME control panel into a stop signal or movement inversion.

No infrared beam interference

Enabled for multiple installations (2 pairs positioned side by side) the DOC series sensory devices require no special precautions during the installation procedure (such as inversion between receivers and transmitters).

TEST statistics

SMT technology and the shielding of electronic circuitry render the devices immune to electromagnetic effects and solar interference.



Models

- DOC I Photocell for flush mount with back box.
- DOC E Photocell for surface mount.

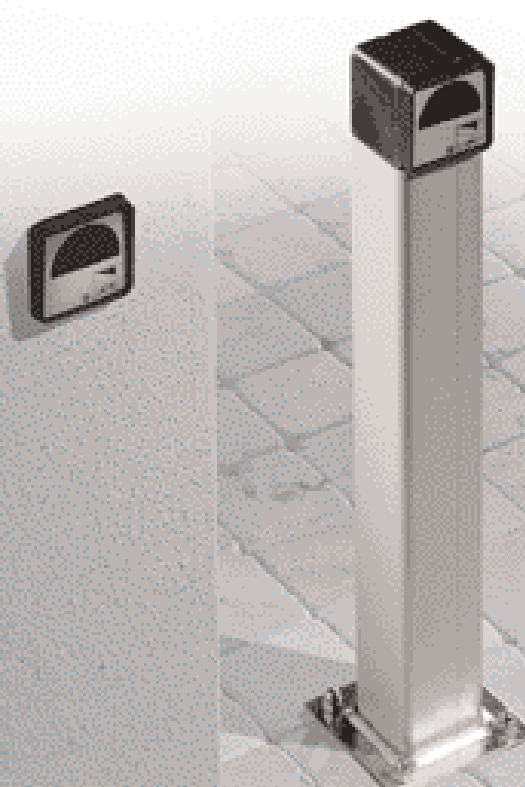


Support accessories

- DOC-L/LN Post in natural or black anodised aluminium
- DOC-S Back box
- DOC-R Steel bracket for surface mount photocell

Technical specifications

	DOC I / DOC E
Model	DOC I / DOC E
Infra-red frequency	1000Hz
Range	18 m (59ft) guaranteed even under bad atmospheric conditions
Power supply	12/24V ac/dc
Relay contact range	1A max a 24V
Temp. of functionality	From -20° to +70°C (-4°F to 158°F)
Electrical input	60 mA
Dimensions DOC I	70x70 mm (2 Ω " x 2 Ω") (Back box: ø60x75 mm / ø2 3/8" x 3")
Dimensions DOC E	70x70 mm, depth 34 mm (2 Ω " x 2 Ω" x 1 3/8")
Container materials	Nylon reinforced glass
Protection grade	IP 54 (NEMA 3)



Total protection safety edges

The infrared photoelectric safety edges ensure a very efficient response to the multiple active protection needs required by current safety standards.

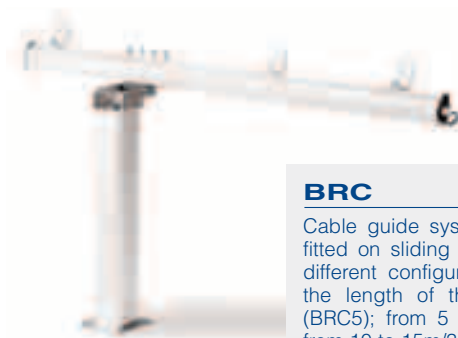
Safety is guaranteed even in the case of the rubber cover is cut or deteriorated, thanks to the infra-red beam used for detection.

DOC MS is a fundamental device for the maintenance of safety on motorized gates, when determined safety distances cannot be respected or for special application needs.



Ready to Install

The DOC MS protection device is available in 3 **PRE-MOUNTED** versions, for heights up to 1.5m (59"), 1.7m (67") and 2m (78"). For longer detection ranges (up to 8m/26ft) it is enough to employ the sensitive optical/electronic device in an appropriate aluminium and rubber enclosure.



BRC

Cable guide system for DOC MS edges fitted on sliding gates. Available in three different configurations, depending upon the length of the gate: up to 5m/16ft (BRC5); from 5 to 10m/16-32ft (BRC10); from 10 to 15m/32-49ft (BRC15).

Technical specifications

Model	DOC MS
Power supply	12/24V ac/dc
Relay contact range	1A max a 24V
Electrical input	80 mA
Protection grade	IP 54 (NEMA 3)
Range	The device may be applied to edges up to 8 m/ 26ft in length May be regulated with a trimmer
Sensitivity	May be regulated with a trimmer
Temp. of functionality	From -20°C to +70°C (-4°F to 158°F)

Pneumatic edges



CD71/CP30	Soft rubber and aluminium casing
TD70/TP30	Rubber cap
TBP	Connection tube
PPC/PPA	Contact pressure switch N.C.-N.O.

DETECTION

DOC MS



Functionality and Safety with CAME digital keypads

CAME digital keypads are control devices using PERSONALIZED CODES. More than 16 million possible combinations protect the Code security.

Additionally, a special TAMPER PROOF system protects the device, an even safer and more functional system for activating the opening of the gate or automatic door.

Courtesy lights

Practical in external or poorly light environments, the S5000 features courtesy lights for keypad illumination.

S 5000

Outdoor surface mount, solid metal device with illuminated keypad; S 5000 provides a personal code up to 8 digits and 16.777.216 combinations.



Security block

The control logic of the device allows for up to 4 input errors, thereafter, the device becomes temporarily deactivated.

S 6000

Outdoor flush mount, solid metal keypad and back box; provides a personal code up to 6 digits and 1.679.616 combinations. Can be mounted on a support post model CSS.



S 7000

Outdoor surface mount solid metal keypad; provides a personal code of up to 6 digits and 1.679.616 combinations.



Functionality and Security

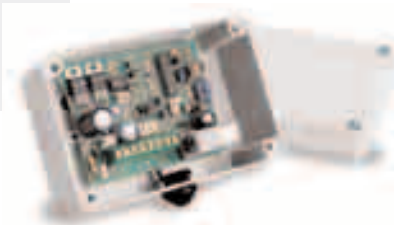
All control cards may be used with up to 5 keypads in parallel, thus allowing a single control of a wider range of services:

The opening of one or more automatic systems, garden light control, the activation or deactivation of alarm systems, as well as any other remote activation of auxiliary devices.

Control cards for S5000/6000/7000 keypads

S0001 and S0002 are single and dual channel control cards for keypads mounted within a container for outdoor use, these cards can also be housed inside the CAME control panel.

S0004 is a 4 CHANNEL control card, enabled for radio control from one channel.



CONTROLS



Now the keypad is also WIRELESS

All the comfort of a keypad, now without wires.

The CAME S9000 digital keypad does not require pre-installed facilities or electrical connections; it can be installed in the desired position at any time;

It is therefore, a product that can be integrated into an existing automation system with the possibility of operating in conjunction with a CAME radio system at 433.92MHz (TAM / TOP series).

Sturdy and compact

A stainless-steel front panel and aluminium alloy case protect it from collision, tampering and vandalism. Flush, surface or post mounts.

Code security

Only one master code enables the keypad for programming.

External reception antenna

To obtain the maximum performance of radio reception.

Radio receiver at 433.92MHz

The S9000 keypad may be used in combination with the plug-in radio receiver cards of the CAME control panel, or with the external universal 2 or 4 channel receivers.

Advantages of the cordless

Comfort of use, flexibility of application, and possibility to control up to four devices: make the S 9000 the ideal product for command and control. Furthermore, the CAME cordless keypad may also be integrated into a global access management system for use in different business or service applications.

S9000

RADIO CONTROL



Personalised key control

A complete line of products for the selection of remote control operation; many solutions to solve the numerous application needs, but also to offer a product to fit the needs of the end user.

Made in die cast aluminium. The SET key switches are immune to possible acts of vandalism thanks to a special TAMPER PROOF device.

SET I

Key switch flush mount, metal front and PVC back box; also enabled for mounting on a support column. The key cylinder may be personalised to match other CAME devices.



SET E

Key switch surface mount, all metal, also available in black enamel finish (SET EN). The key cylinder may be personalised to match other CAME devices.



SEM 2

Ideal for commercial applications, the SEM-2 is a magnetic key reader for outdoor surface mount, solid metal with a TAMPER PROOF system. It may be mounted on a post model CLM. The SEM magnetic key is encoded with a personal combination excluding the possibility of cloning.



SET J - SET K

Functionality and service in a simplified version.

SET J e SET K, surface or flush mount versions, are the most recommended solutions for all residential control needs. The key switches are compact in size and a dust proof cover protects the key cylinder.



SEC

Magnetic key.



TSP01

Access proximity reader

Stand alone proximity reader for up to 250 users. The most practical and secure access control system for commercial and residential applications.

The opening impulse is activated by a special ISO proximity card or by a proximity TAG fitted within a CAME ATOMO or TOPSA radio remote control.

MS 9502

Volumetric sensor

Recommended for indoor applications to provide maximum ease of operation of an automatic door or touch less activation of any device by children, the elderly or disabled.



SMA

Magnetic loop detector

Connected to an in ground loop, the SMA detects the presence of metal objects.

Mostly used as a safety device or as a free exit command in gated communities, commercial and parking applications.

The SMA can be used, as well, in parking management applications to signal "SPACE OCCUPIED". Available in 230V (110v) and 24 V AC/DC versions, single or dual channel.



COMMAND

TOP SA

RADIO CONTROL



The radio control of the multi-use series

Thanks to the technology of its integrated encoding system, the new generation of transmitters of the TOP SA series (433.92 MHz supereterodyne), can be programmed with a different and individual code for every single button, fully meeting the various needs of gated communities. Compatible with all CAME 433.92Mhz radio receivers.

Multi-user

Standard on every transmitter, each button corresponds to a different code.

Increased autonomy

Of functionality thanks to the double lithium batteries.

Self-learning

The technology allows an infinite number of transmitters to be programmed with the same secret code and fast programming to the radio receiver.

Shape and design

Completely new. COMFORTABLE to handle and an EASY to activate.

Proximity keyfob function

The TOP SA transmitters can be equipped with a special microchip (TAG) to activate the proximity function.



Models

MULTI-USE Transmitters
a 433.92 MHz supereterodyne

- **TOP 432SA** 2 channel Transmitters
- **TOP 434MA** 4 channel Transmitters

Transmitters 433.92 MHz supereterodyne

- **TOP 432S** 2 channel Transmitter
- **TOP 432M** 2 channel Transmitter
- **TOP 434M** 4 channel Transmitter

Depending upon the needs of installation and function, it is possible to choose from:

- Plug in radio frequency cards for use with all CAME control panels.
- 2 channel EXTERNAL UNIVERSAL receiver
- 4 channel EXTERNAL UNIVERSAL receiver

Technical specifications

Model	TOP432SA / TOP434MA
Frequency	433.92 MHz
Battery type	CR 2016 3V dc/ 12V dc
Electrical input	10 mA
Range	50 ÷ 150 m (160-490ft)
Code comb.	1024
Dimensions	32x68x13mm
	1 2/8"x2 5/8"x Ω" (TOP432SA)
	40x85x12mm
	1 Ω"x3 3/8"x Ω" (TOP432MA)
Weight	16 g (TOP432SA)
	22 g (TOP432MA)

The rolling code radio control designed for your security

A winning combination of design and technology, an elegant, ergonomic, high autonomy device built of quality materials, but above all secure. The ATOMO, ROLLING CODE technology guarantees the maximum security and secrecy of the emitted signal.

Code security: The ROLLING CODE technology prevents any possibility of cloning the transmitter. With every impulse, the transmitter emits a different code with more than 4 billion possible combinations, using an algorithm only recognizable by the respective receiver that uses a double decoding control.

Elegant, refined and pleasing

To the touch, thanks to the special SOFT finish which distinguishes it.

Increased autonomy

Of functionality thanks to the double lithium batteries.

Self-learning

Makes it faster for programming the radio receiver, but also for a rapid reproduction of all of the transmitters present in the installation.

Ergonomic

Thanks to its EASY TO HANDLE form and to its particularly reduced dimensions.

Proximity keyfob function

The ATOMO transmitters can be equipped with a special microchip (TAG) to activate the proximity function

Models

Radio rolling code transmitters at 433.92MHz

- **AT01** 1 channel radio Transmitter
- **AT02** 2 channel radio Transmitter
- **AT04** 4 channel radio Transmitter

Rolling code radio receivers at 433.92MHz

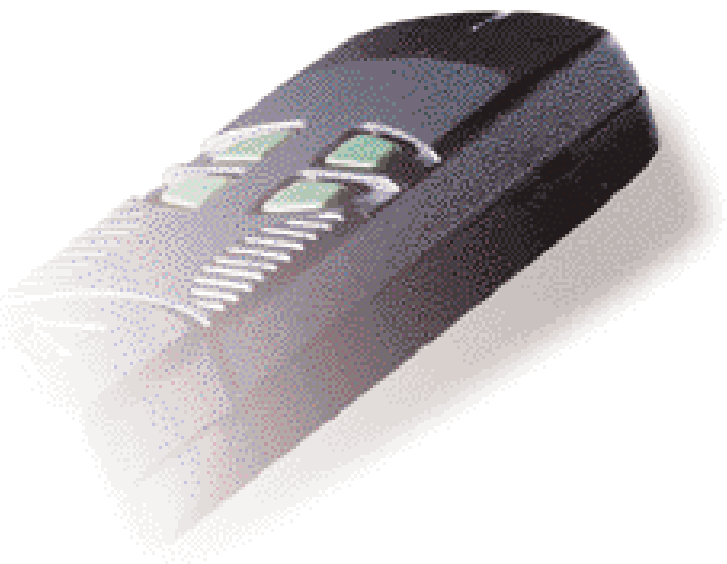
- **AF43SR** Plug in Radio frequency cards for use with all CAME control panels (manages up to 25 transmitters with different codes).
- **RE432RC** Dual channel EXTERNAL UNIVERSAL radio receiver (manages up to 25 transmitters with different codes).
- **RBE4RC** Four channel EXTERNAL UNIVERSAL radio receiver complete with a MASTER AT04 transmitter unit (manages up to 25 transmitters with different codes).

Technical specifications

Model	AT01/AT02/AT04
Frequency	433.92 MHz
Battery type	CR 2016 3V d.c.
Electrical input	12 mA
Range	50 ÷ 150m (160-490ft)
Combinaz. codice	4.294.967.296
Dimensions	32x68x13mm (AT01/AT02) 1 2/8"x2 5/8"x Ω" 40x85x12mm (AT04) 1 Ω"x3 3/8"x Ω"
Weight	16 g (AT01/AT02) 22 g (AT04)

RADIO CONTROL

ATOMO



Quartz controlled radio control

Quartz controlled radio controls with digitally programmed codes at 30.900 MHz. The digital encoding system, used in all models, improves the security and the secrecy of the personal code.

Technical specifications

Power supply	Battery of 12 V dc
Frequency	30.900 MHz (FM)
Range	From 30 to 150 m (98-490ft)
Code combinations	16.777.216
Container in ABS.	
Acoustical signal.	
Digital encoding system (series TOP quartz).	

Models

Series **TOP QUARTZ CONTROL** at 30.900 MHz

- **T 302M** 2 channel miniaturized transmitter
- **T 304M** 4 channel miniaturized transmitter
- **T 3022M** 2 channel miniaturized multi-use transmitter (double code)

Radio controls multi-use

External universal radio receivers of high dependability; ideal for commercial, transmitters of the TFM and TAM series are available in 2, 4 and up to 8 channel versions, with code differentiation for each button.



Technical specifications

Power supply	Battery of 12 V dc
Frequency	30.900 MHz in FM (series TFM)
Frequency	433,92 MHz in AM (series TAM)
Range	From 50 to 200 m (160-650ft)
Code combinations	16.777.216
Container in ABS.	
Acoustical signal.	
Digital encoding system.	
Direct programming of transmitters via supplied cable.	
Each button of the transmitter may be encoded with an independent code and channel.	

Models

Series **TFM QUARZATI** a 30.900 MHz (FM)

- **T 152** 2 channel Transmitter
- **T 154** 4 channel Transmitter
- **T 158** 8 channel Transmitter

Series **TAM SUPER REATTIVI** 433.92 MHz (AM)

- **T 432** 2 channel Transmitter
- **T 434** 4 channel Transmitter
- **T 438** 8 channel Transmitter

Radio receivers

The radio control of a CAME automation system requires only a radio frequency card and related remote controls, as the control panels are furnished with the radio receiver. For the MULTIPLE automation systems or for more specific needs requiring more than two channels independent receivers of 1,2 or 4 channels are available all in outdoors enclosures.

Models

(may be combined with the TOP/TFM/TAM/ATOMO systems).

- Plug in radio frequency cards for integration with CAME control panels
- UNIVERSAL external receivers
 - Single channel receiver
 - Dual channel receiver
 - Four channel receiver
- Reception antenna

The TOP reception antenna is equipped with a series of special fixing supports that may be easily mounted on the enclosure of the KIARO signalling lights or directly on walls or posts.

Control panel Z230 - Z24

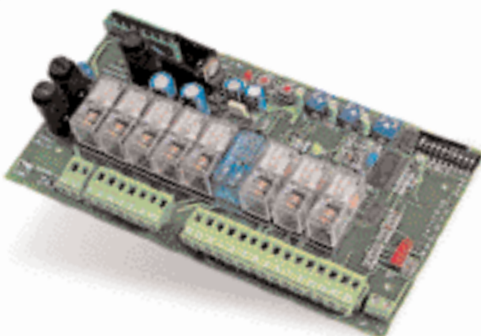
A range of solutions to fit, with technology and functional characteristics, different needs of application. All CAME control panels feature a microprocessor controlled system. Depending upon the type of automation, the control panel may be built into the operator or weather-proof containers (series Z230 and Z24).

The new container: practical and strong

Original in design and implementation, the new container is sturdy, pleasing, and above all practical. It was conceived to hold all CAME control panels, always guaranteeing the maximum space needed to operate. The closing cover incorporates hinges, which render possible to inspect the unit, without removing the entire cover. The containers may also be fitted with open/close/stop command buttons, directly on the front of the panel.

The electronics

All control panels incorporate the radio receiver, thus, requiring only a radio frequency card. The PLUS versions feature a two-channel receiver as standard equipment. One channel operates the gate opener, the second channel can operate other devices such as courtesy lights a garage door opener or another gate opener.





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CAME is Europe's leading manufacturer of a complete range of **electromechanical automatic** gate control systems. Top-quality control systems designed for external installation and with **no need of periodic maintenance** are the basis for the success of **CAME** products. **CAME** automatic systems can be fitted also on an existing gate: your local **CAME** dealer will be delighted to help you selecting the system which best suits your requirements.

The range of **CAME** automatic systems includes:

- Automation for **sliding gates**
- Automation for **swing gates**
- Automation for **garage and sectional doors**
- Automation for **shutters and industrial gates**
- Automation for **car parks and street barriers**
- Automatic Pedestrian doors**
- Systems for **access control**
- Accessories for **control and safety**

