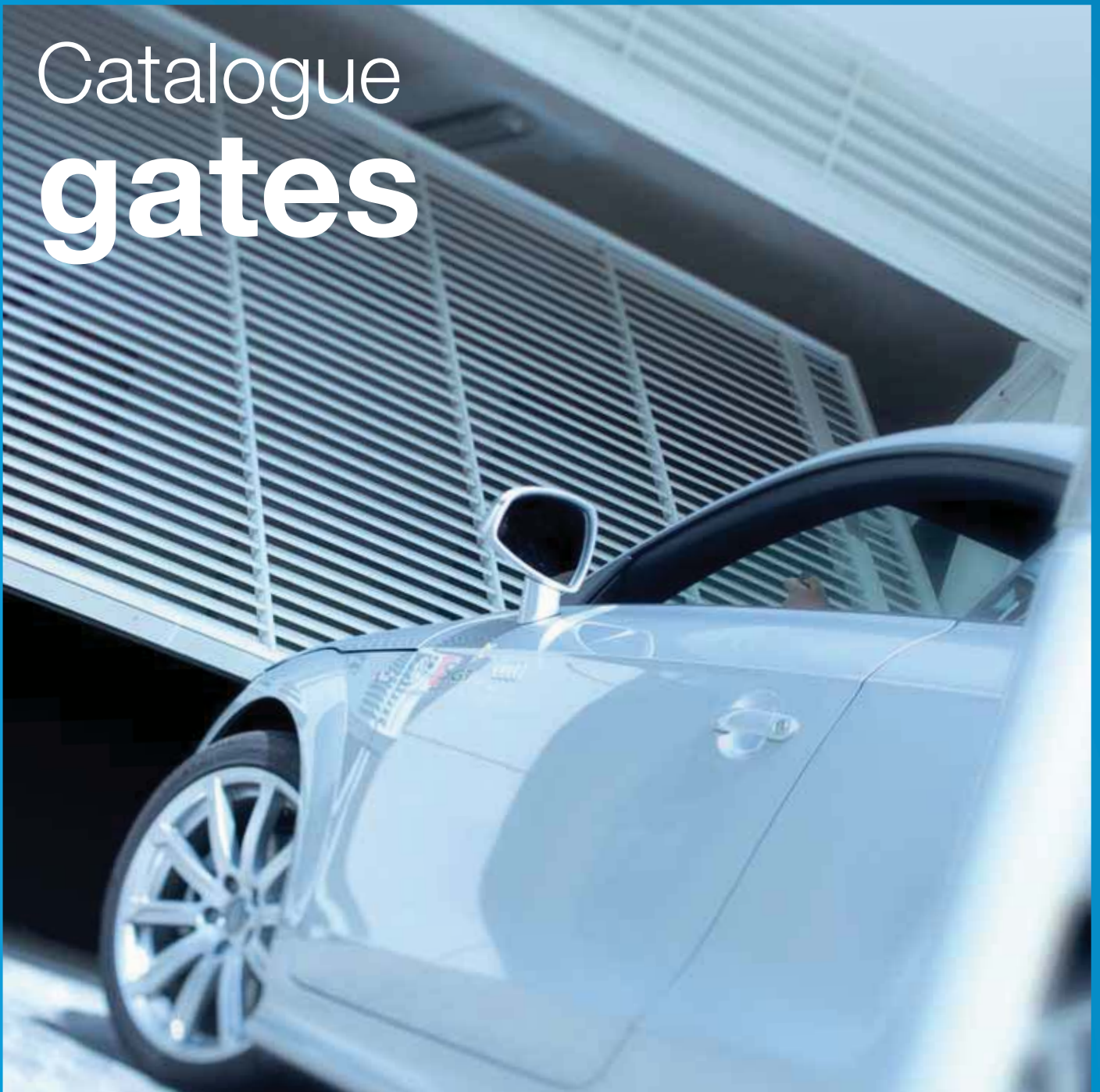


Catalogue gates



GATES



CAME



CAME



CAME

www.came.com

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Legend



New for
2012



OPERATORS TESTED
in compliance with
maximum impact force
standards established by
European Norms



Operator with
ENCODER



The 24 V DC versions
are specifically designed
for intensive use and are
guaranteed to work even
during blackouts



PRATICO SYSTEM
remote control radio
release system



**The TRIPHASE
230 – 400 V AC**
versions are intended
for industrial use as they
guarantee greater surge
rates of the gearmotors in
the starting phase



ENERGY SAVINGS
The control panel featuring
SLEEP MODE
saves you energy
consumption



**BATTERY-POWERED,
CORDLESS**
product with wireless
connection

Came offers training courses to its customers

Ask for the "Came Professional Training" brochure
or visit our website at www.came.com

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Fast40

**Simplify
life with
a gesture.**

Swing gate operators

Up to 2.3 m / 7.5 ft per gate leaf

Fast40, Came's signature operator, is ideal for swing gates with leaves up to 2.3 m / 7.5 ft long and for fitting to medium to large pillars. Besides the traditional command and safety features, Fast40's new electronics bring new special features for permanent control and optimal operation.



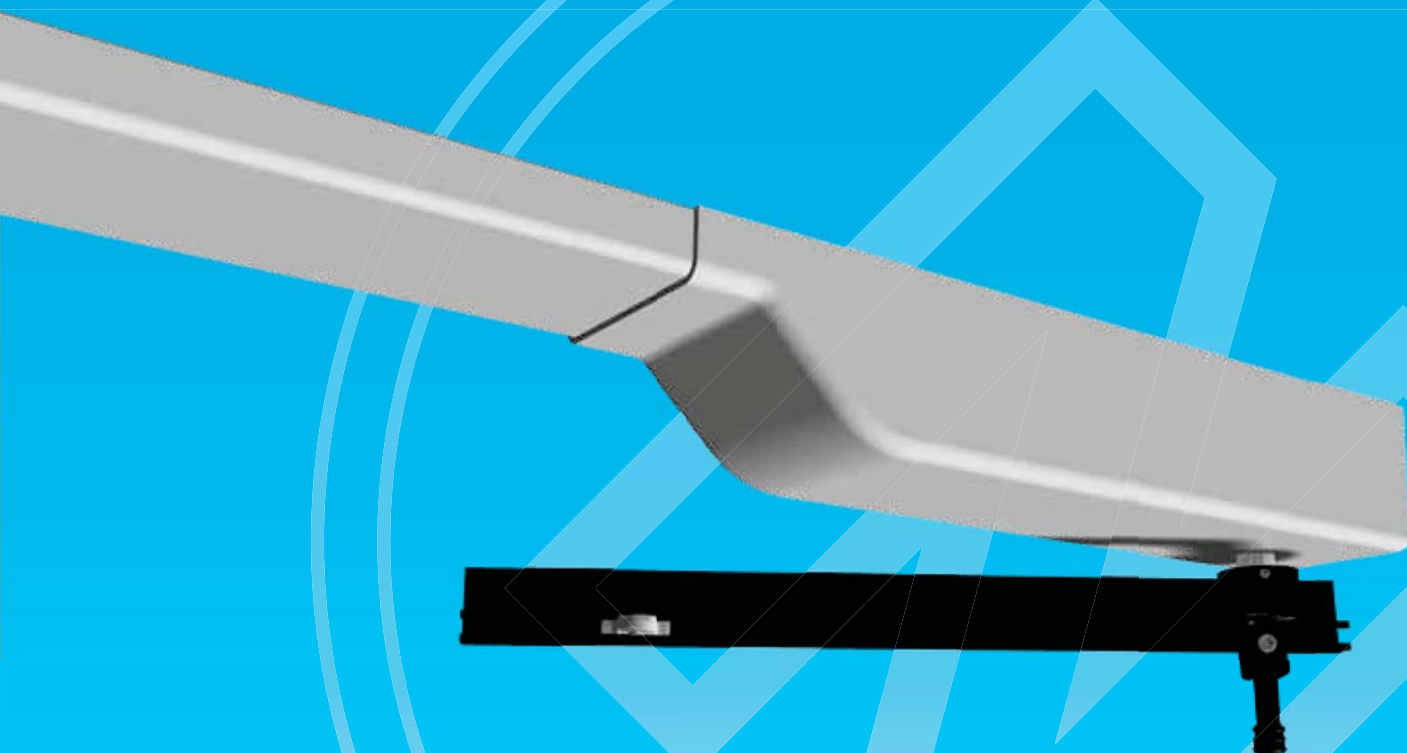
Volare

**Put
wings
on windows.**

Operators for windows and shutters

Up to 35 Kg / 77.2 lb per leaf

Volare is Came's first operator for opening and closing one or two swing-leaf windows and shutters. It is suited for any type of window or shutters weighing maximum 35 Kg / 77.2 lb per leaf.



Sipario

**Technology
goes
on stage.**

Operators for sliding doors

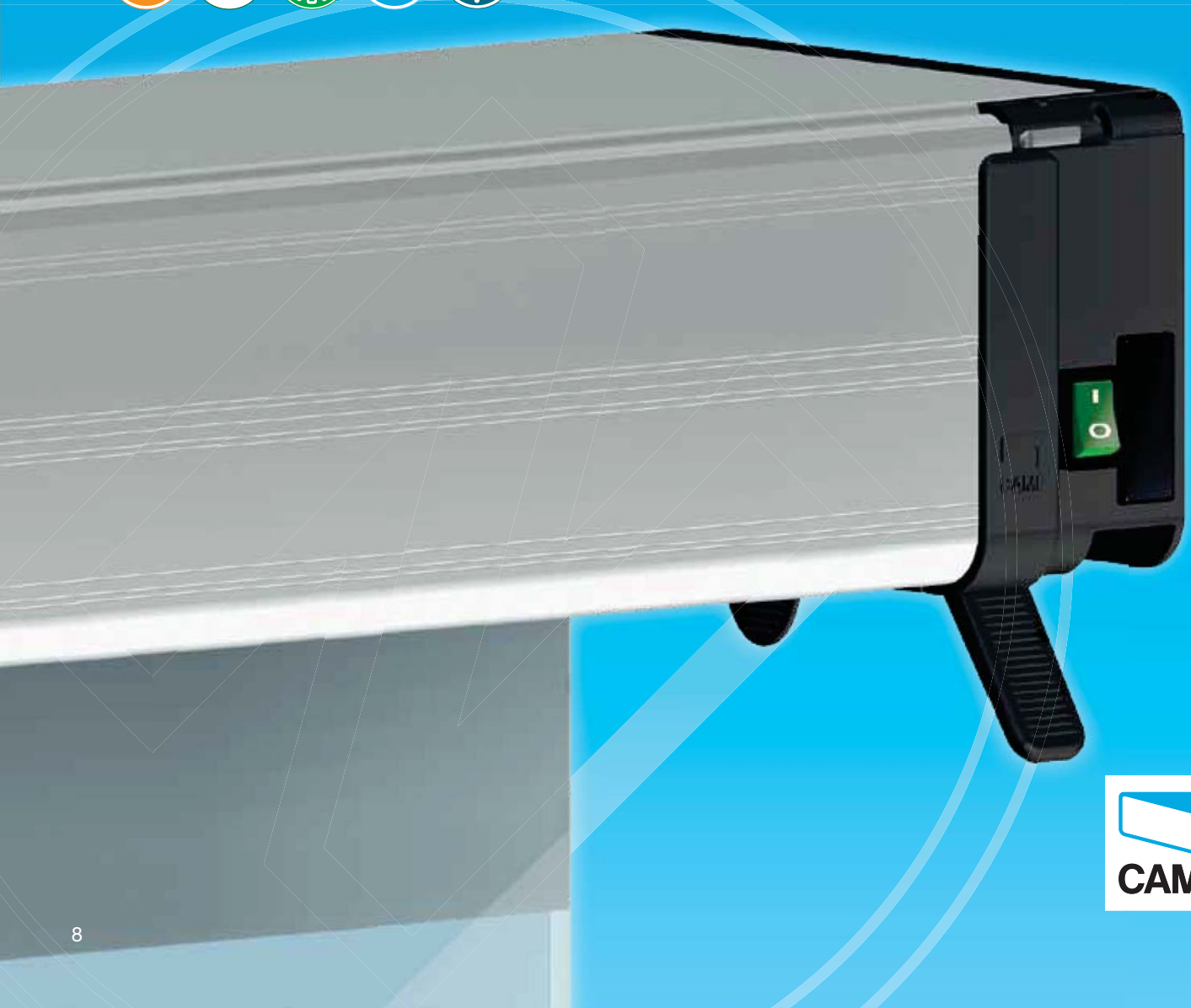
Up to 100 Kg / 220 lb per door leaf

Sipario is Came's new solution for sliding doors.

Easy to install, the new Sipario automatic door is highly performant and features cutting-edge technology, in just 10 cm / 3.93 in height of the cross beam profile.

An intelligent, refined-design, versatile and flexible system.

From simple installations to large commercial or business systems.



Zero-E

The operator with new energy.

Solar panels

Where electric power is unavailable

Zero-E is Came's new solar energy powered system. It is designed for street barriers and gate operators in places where electric power is unavailable.

Also ideal for residential use, it provides significant energy savings over time, as it is guaranteed to work for many years with no expenses. Zero-E, a new eco-friendly technology.



European Norms

EN 12453 - EN 12445



The EN 12453 and EN 12445 standards specify the compliance and safety requirements for automated closures that may come into contact with people. They help define the technical solutions needed to ensure both system and user safety. The position of the system, the command device used and the user-type are all fundamental points to consider.



THE SYSTEM MUST BE:

- **IN A PRIVATE AREA** (and clearly indicated)
- **IN A PUBLIC AREA** or adjacent to a public area while being in a private area.

USERS CAN BE EITHER:

- **TRAINED:** users are trained when they are briefed on how the operator works.
Normally, trained users activate operators found in **private areas**.
- **UNTRAINED:** users are not briefed on how the operator works.
Normally, untrained users activate operators found in **public areas**.

THE COMMAND CAN BE:

- **Non self-holding type** (maintained action - dead man's control).
The operator is only activated by **automatically resetting buttons or switches** (for example, to activate an operator you need to press a button and when you release it, the operator will stop). The operator is in the line of sight of the user.
- **Impulse sending with system control from fixed station.**
The command is of the impulse type and that it is sent from a fixed station from which the system can be controlled.
There is no need for the button to be self-holding, that is, neither the button nor switch reset automatically.
- **Radio command** (impulse sending without system control from fixed station).
Each impulse sent corresponds to a function, such as open, close, stop, and so on.
- **Automatic.**
Each impulse sent corresponds to a complete manoeuvre cycle and not a single open and close function, i.e.: an open and close cycle.



The command		Non self-holding	Impulse sending with system control from fixed station	Radio command	Automatic
The system and the user	Private area Trained user	A	C	C	C + D
	Private area Untrained user	C	C	C + D	C + D
	Public area Trained user	B	C	C + D	C + D
	Public area Untrained user	-	C + D	C + D	C + D

The mandatory safety devices

- A** Operator present with automatic re-setting of the command device
- B** Operator present with manual re-setting of the command device
- C** **Mechanical devices** (sensitive safety-edges) **and electronic devices** (encoder)
Check compliance to standards on maximum impact forces.
Such standards are defined in the Technical Reference Standards
- D** **Infrared beam photocells**
For detecting obstacles in the operator's range of operation.



Standard installation

Compliant with European standards



Installation:

IN PUBLIC AREA

The system is in a public area or adjacent to one.

Example: a private gate where the entrance and exit are on a sidewalk or street.



Type of user:

TRAINED

The system is only activated by trained users.



Command type required by law:

RADIO COMMAND

Radio command

(impulse sending without control of the system even from a fixed station).



EN TESTED: CAME's added value

By employing only EN TESTED operators and control panels you don't need to install sensitive safety edges.

The impact forces, however, must still be tested so to make sure they comply with the required standards.

The solutions

For the safety of your system



SENSITIVE SAFETY EDGES AND INFRARED BEAM PHOTOCELLS

Thanks to a special internal mechanism, the sensitive edges are completely soft and have no rigid parts.
A guarantee of maximum protection.



INFRARED BEAM PHOTOCELLS

Came operators are set up to connect to any type of infrared beam photocells, providing added safety for users.



FLASHING LIGHT

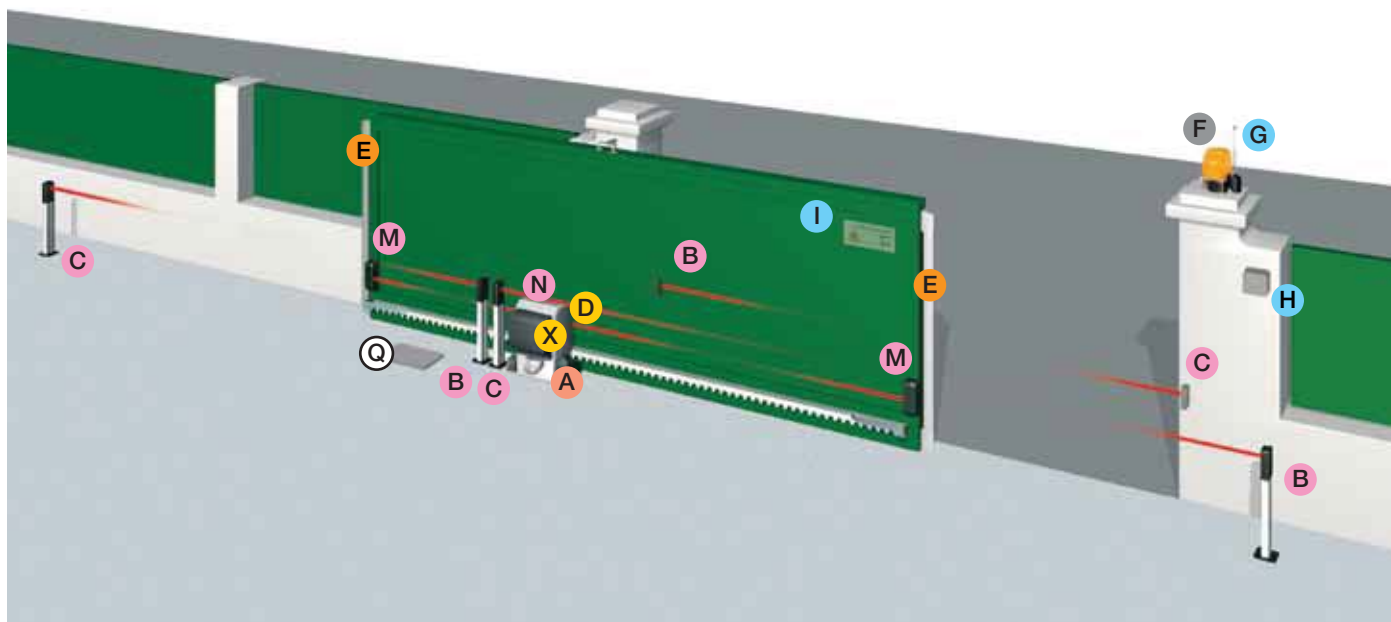
Came suggests also fitting a flashing light to warn when mechanical parts are moving.
KIAROIN and KIARO24IN let you easily programme any periodic maintenance required by law, thanks to its cycle counter feature.



MADE IN ITALY product!

The 100% Made in Italy original marking certifies that all Came products come out of a quality manufacturing process, designed to supply technologically reliable and efficient products.
The products have been tested for up to 15 years of intensive wear and tear, using extreme temperature and electromagnetic interference tests (both inductive and conductive).

Standard installation: SLIDING GATE



THE PRODUCTS

- A** Sliding gate operator
- B** TX photocells
- C** RX photocells
- D** Emergency batteries recharge and management card
- E** Sensitive safety-edge
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- I** Plate
- M** Tx cordless photocells
- N** TX photocells
- Q** Junction box
- X** Radio receiver

The control panel and radio receiver are built-into the operator
(except for: 001BK-2200T)

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: SWING GATE WITH ARTICULATED ARM



THE PRODUCTS

- A** Swing-gate operator with built-in control panel
- Z** Swing-gate operator
- B** TX photocells
- C** RX photocells
- F** Flashing light
- G** Antenna
- H** Command switch

(Key - Code - Card or transponder keyfob)

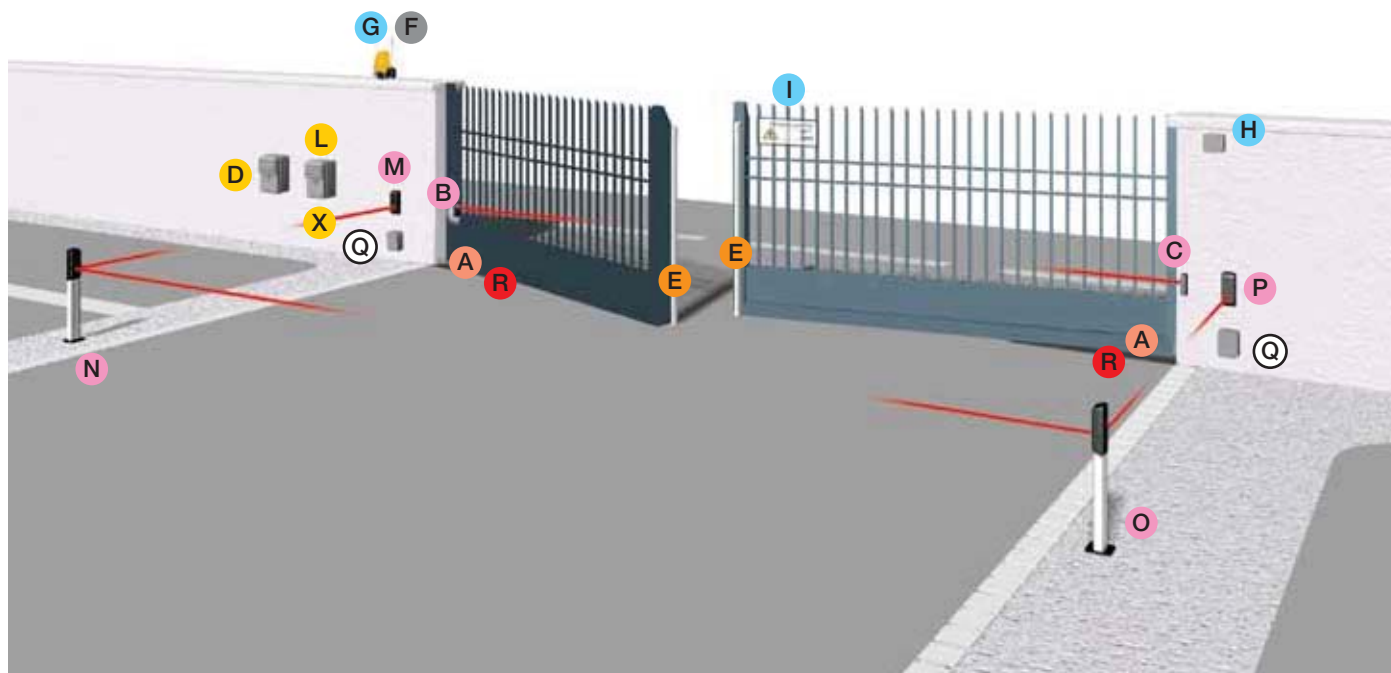
- I** Plate
- M** TX cordless photocells
- N** TX/RX cordless photocells or TX photocells
- O** TX/RX cordless photocells or RX photocells
- P** RX photocells
- R** Transmission levers
- X** Radio receiver

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
12 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1.5 mm ² / AWG14
24 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: SWING GATE



THE PRODUCTS

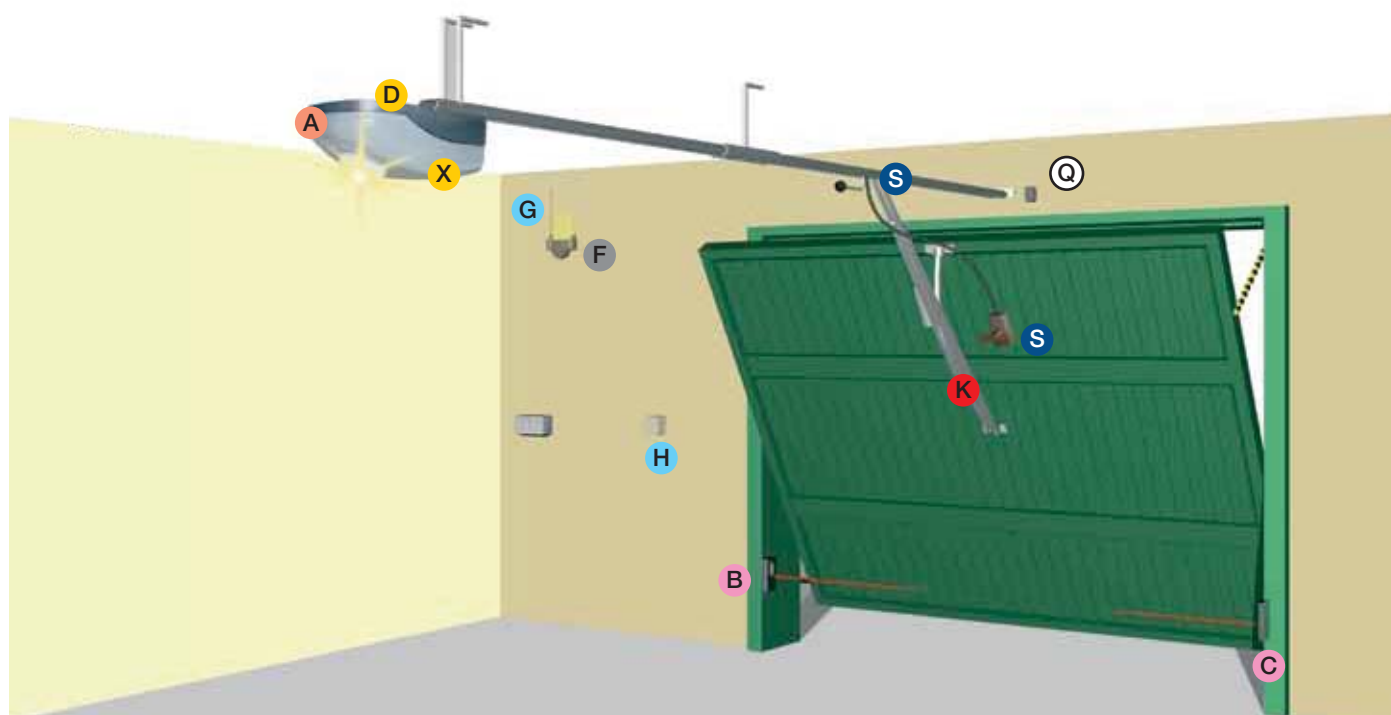
- A** Swing-gate operator
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- E** Sensitive safety-edge
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- I** Plate
- L** Control panel
- M** TX cordless photocells
- N** TX/RX cordless photocells or RX photocells
- O** TX/RX cordless photocells or RX photocells
- P** RX photocells
- Q** Foundation box (only for the Frog series)
- R** Transmission levers
- X** Radio receiver

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: COUNTERWEIGHTED PARTIALLY RETRACTING OVERHEAD GARAGE DOOR



THE PRODUCTS

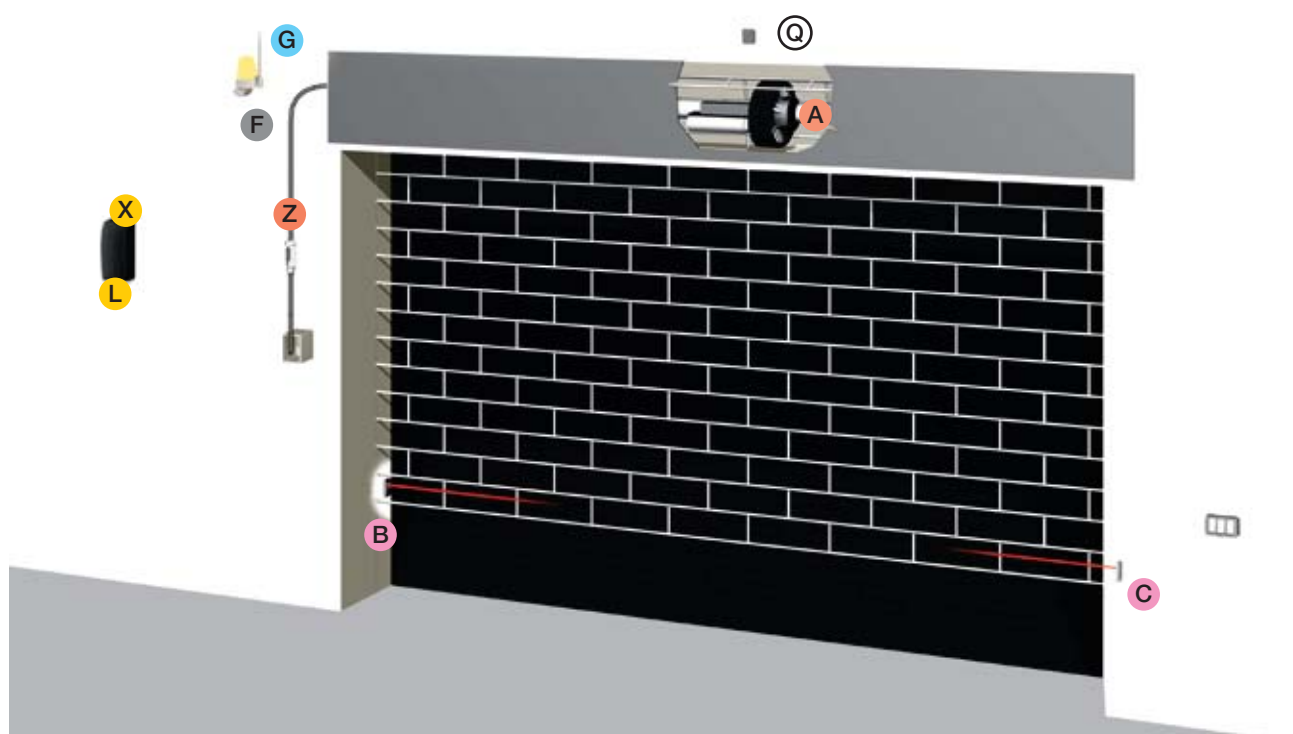
- A** Overhead and sectional door operators
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
- (Key - Code - Card or transponder keyfob)
- K** Adaptor arm
- Q** Junction box
- S** Pull-cord release device
- X** Radio receiver

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
24 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: ROLLING SHUTTER



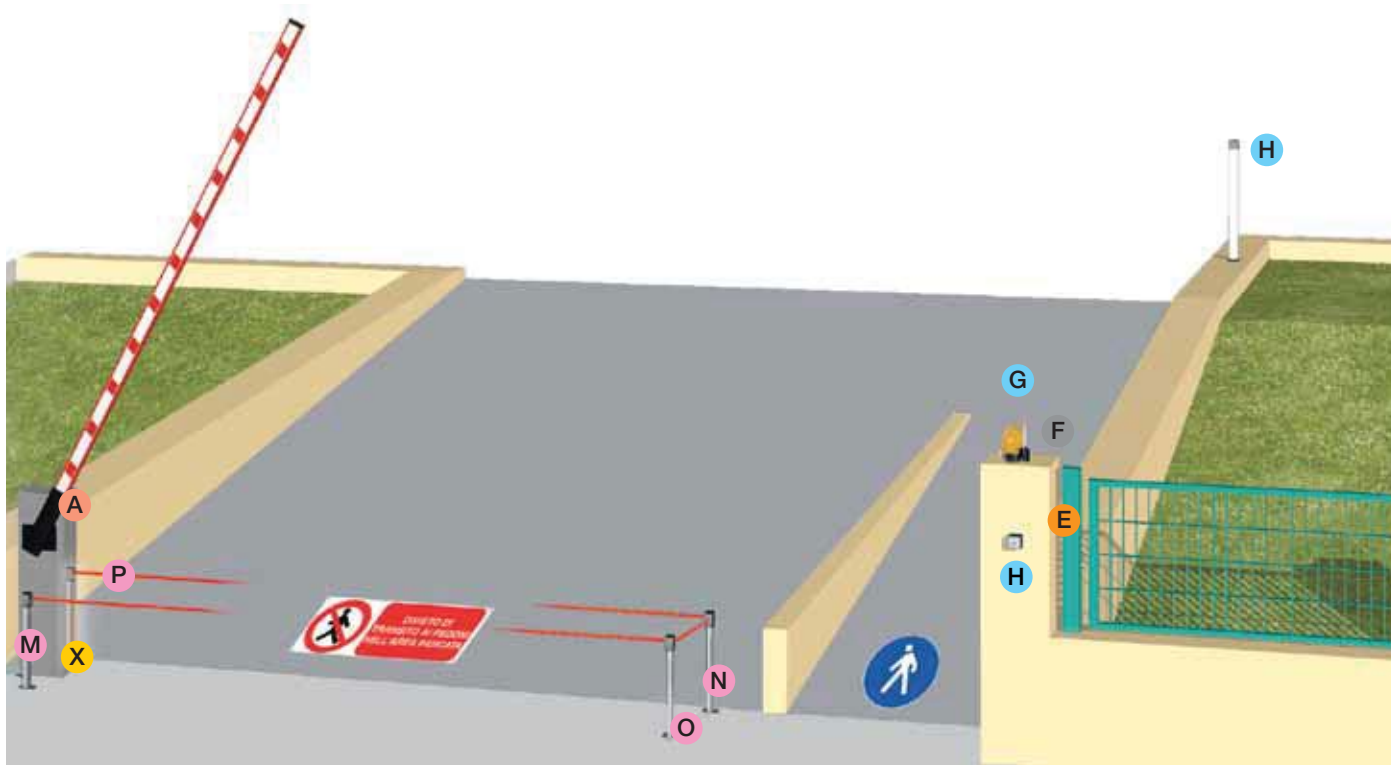
THE PRODUCTS

- A** Operator for rolling shutters
- B** TX photocells
- C** RX photocells
- F** Flashing light
- G** Antenna
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
12 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1.5 mm ² / AWG14
24 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.



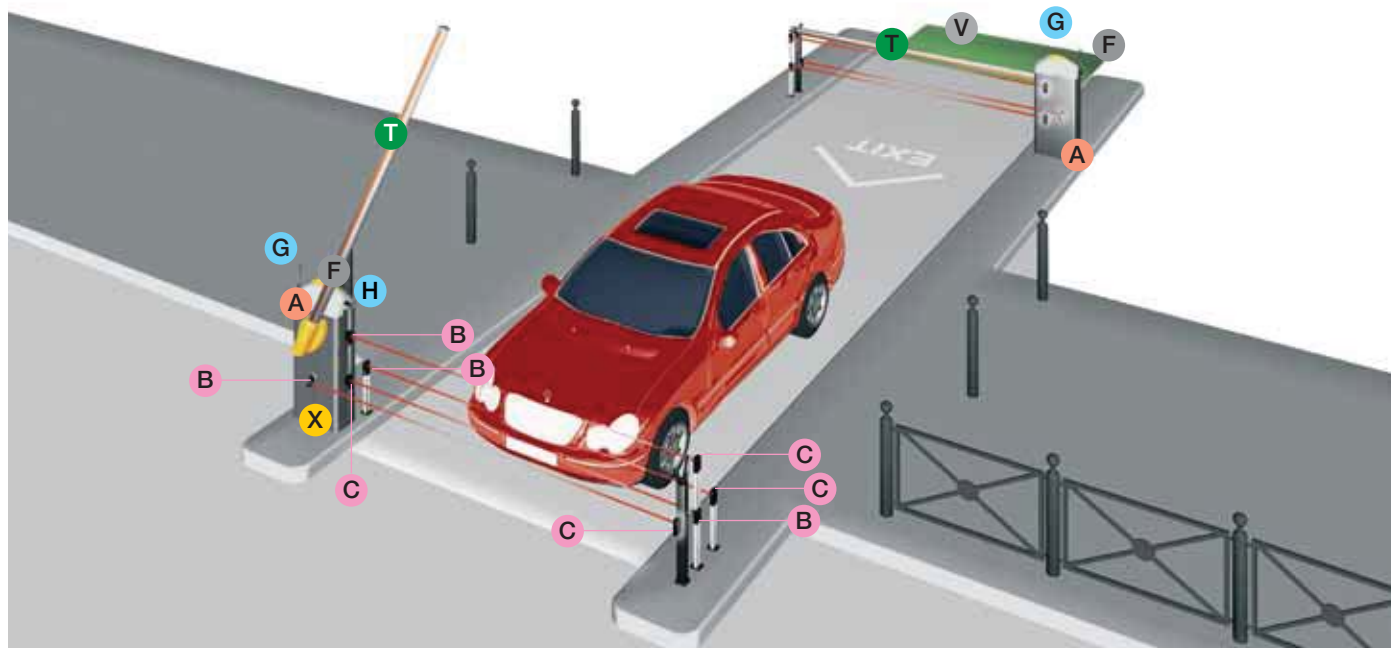
A Barrier
F Flashing light
G Antenna
H Command switch
 (Key - Code - Card or transponder keyfob)

M TX cordless photocells
N TX/RX cordless photocells or TX photocells
O TX/RX cordless photocells or RX photocells
P RX cordless photocells
X Radio receiver

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: BARRIER



THE PRODUCTS

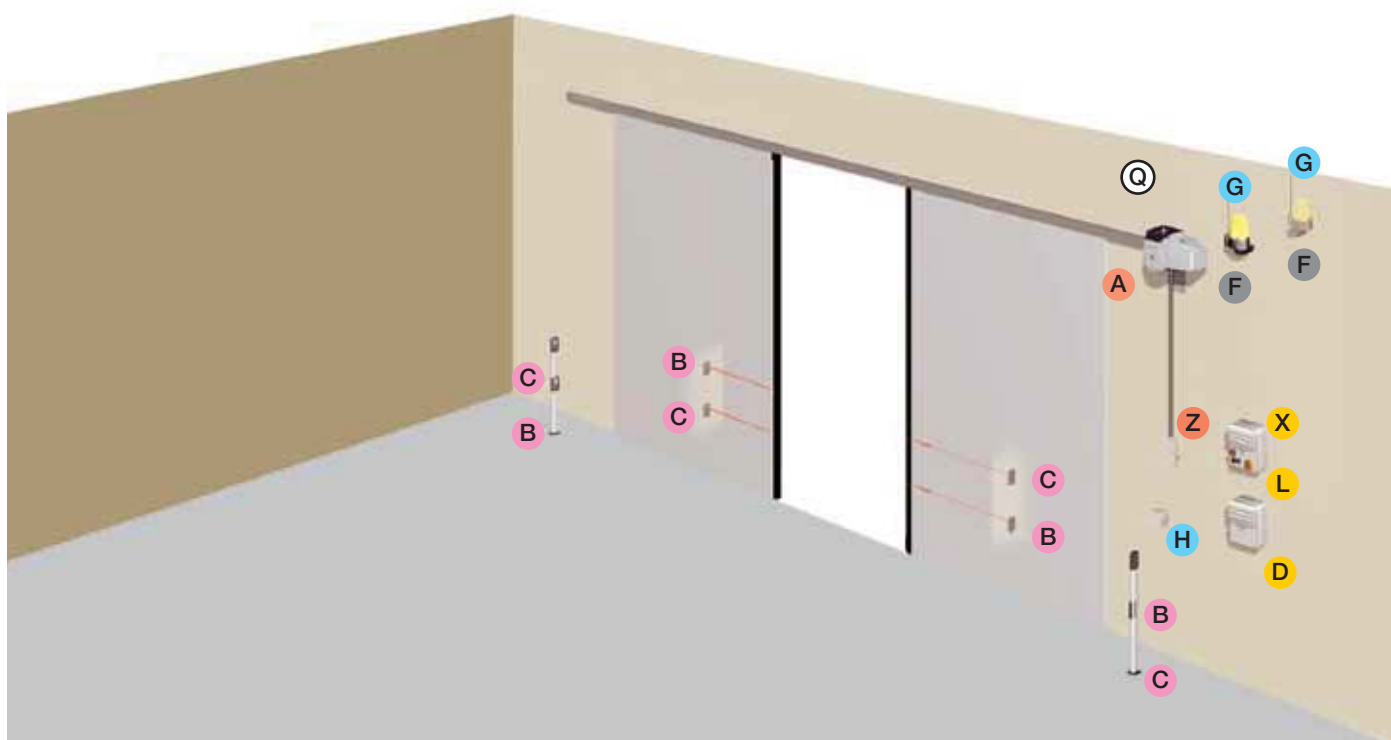
- A** Barrier
- B** TX photocells
- C** RX photocells
- F** Flashing light
- G** Antenna
- H** Command switch
- (Key - Code - Card or transponder keyfob)
- T** Barrier boom with luminous cord
- X** Radio receiver
- V** Metal mass detection sensor

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: LARGE SLIDING DOOR WITH CHAIN TRANSMISSION



THE PRODUCTS

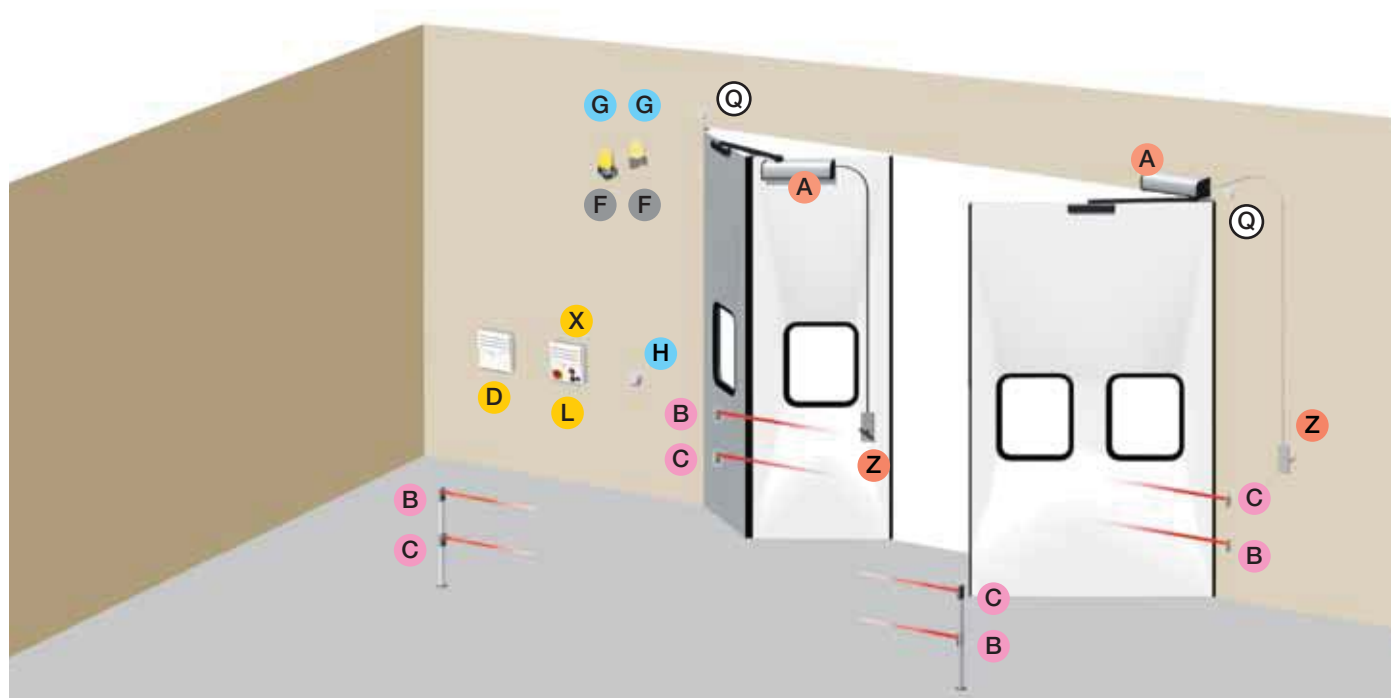
- A** Operator for large sliding doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: LARGE FOLDING DOOR WITH TELESCOPIC TRANSMISSION ARM



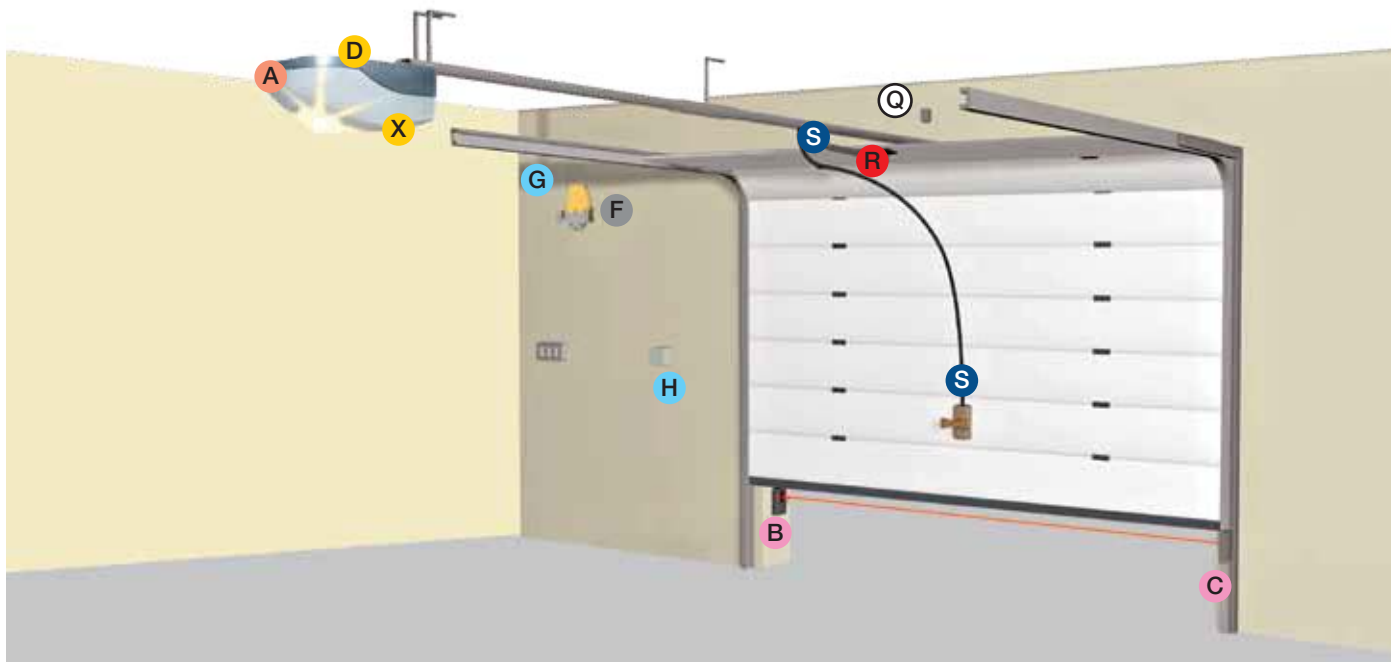
THE PRODUCTS

- A** Operator for large folding doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.



THE PRODUCTS

- A** Operator for sectional-type garage door
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- Q** Junction box
- R** Transmission levers
- S** Pull-cord release device
- X** Radio receiver

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
24 V DC electric lock	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: SECTIONAL DOOR WITH DIRECT GRIP TRANSMISSION



THE PRODUCTS

- A** Operator for sectional doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC TRIPHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.



THE PRODUCTS

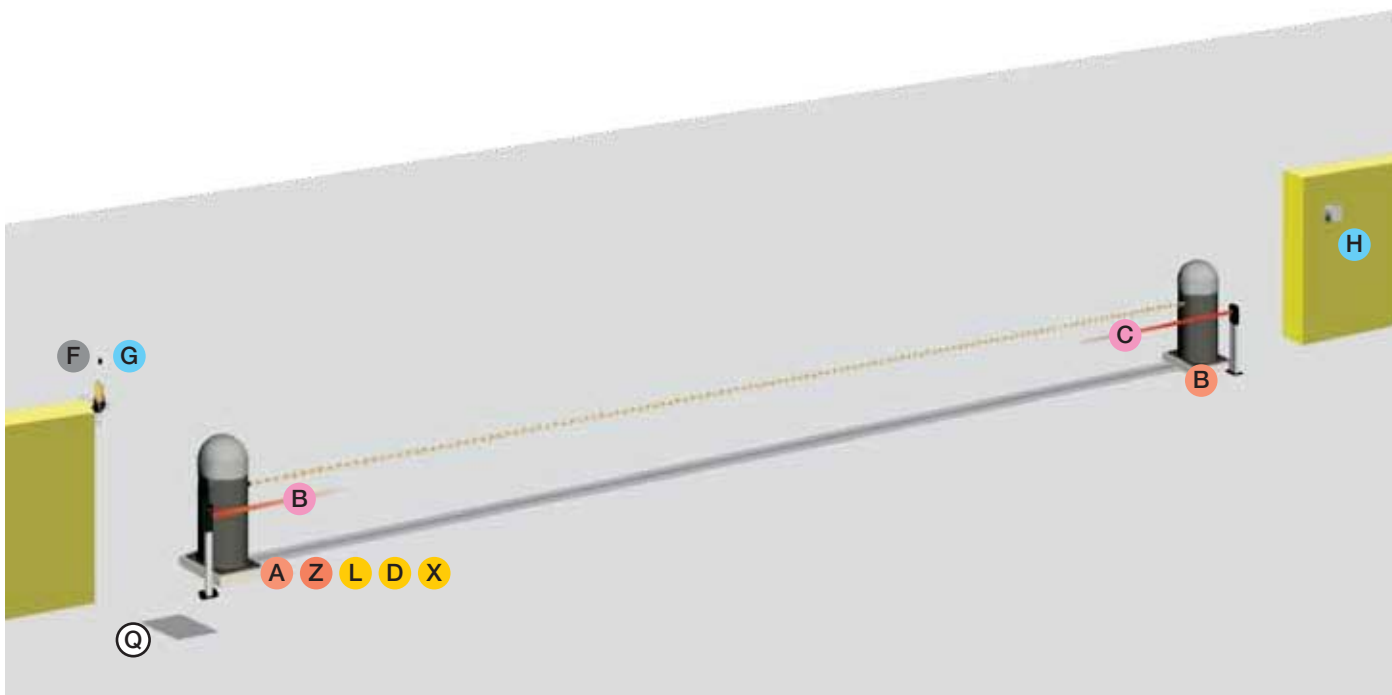
- A** Operator for parking space savers
- D** Emergency batteries management and recharging card
- G** Antenna
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: CHAIN BARRIER



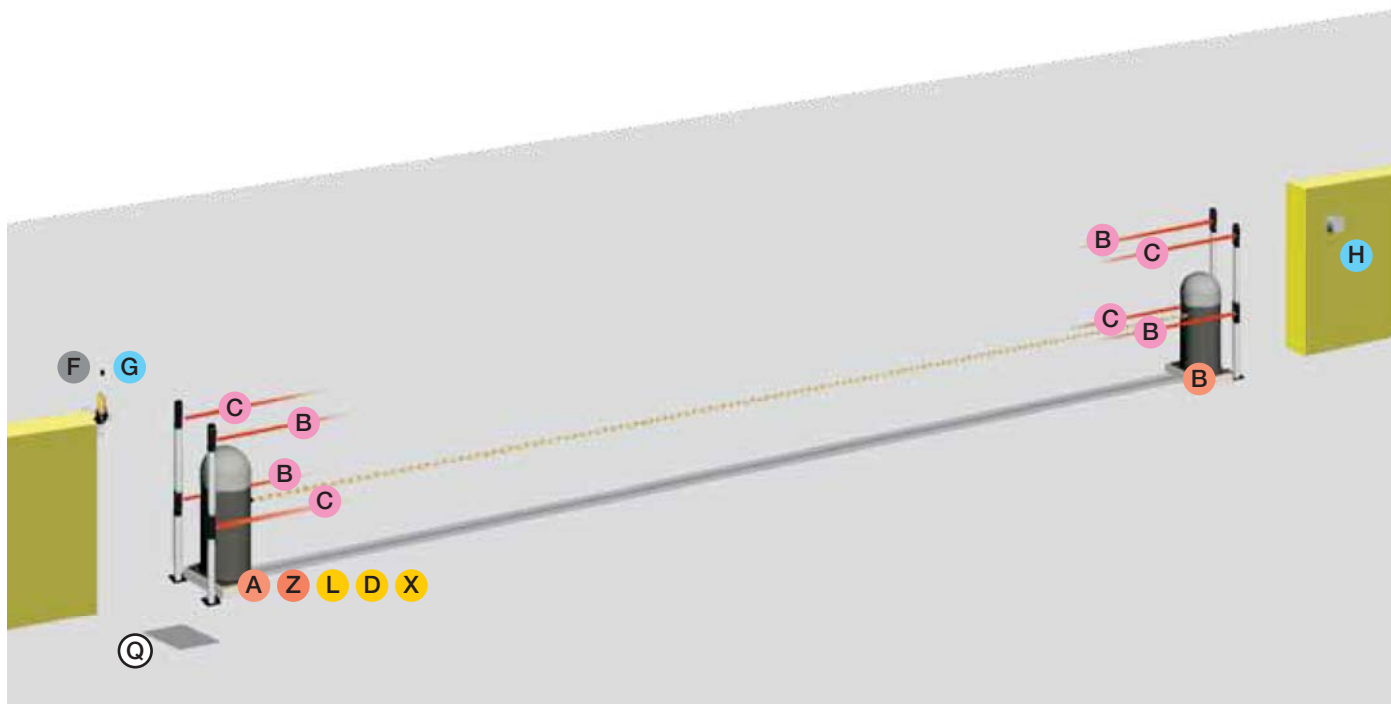
THE PRODUCTS

- | | |
|---|---|
| A Post with operator | H Command switch |
| B Post with counterweight and chain hooking | (Key - Code - Card or transponder keyfob) |
| B TX photocells | L Control panel |
| C RX photocells | Q Junction box |
| D Emergency batteries management and recharging card | X Radio receiver |
| F Flashing light | Z Release device |
| G Antenna | |

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna		RG58 max 10 m / 32.8 ft	

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.



THE PRODUCTS

- A** Post with operator
- B** Post with counterweight and chain hooking
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- F** Flashing light
- G** Antenna
- H** Command switch
(Key - Code - Card or transponder keyfob)
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop micro-switches	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
24 V AC - DC / 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC / 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20
Antenna	RG58 max 10 m / 32.8 ft		

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation:
SWING SHUTTERS



THE PRODUCTS

- A

 Operator for swing shutters
- D

 Control panel
- G

 Command switch
- L

 Transmission levers
- Q

 Junction box
- X

 Radio receiver
- Z

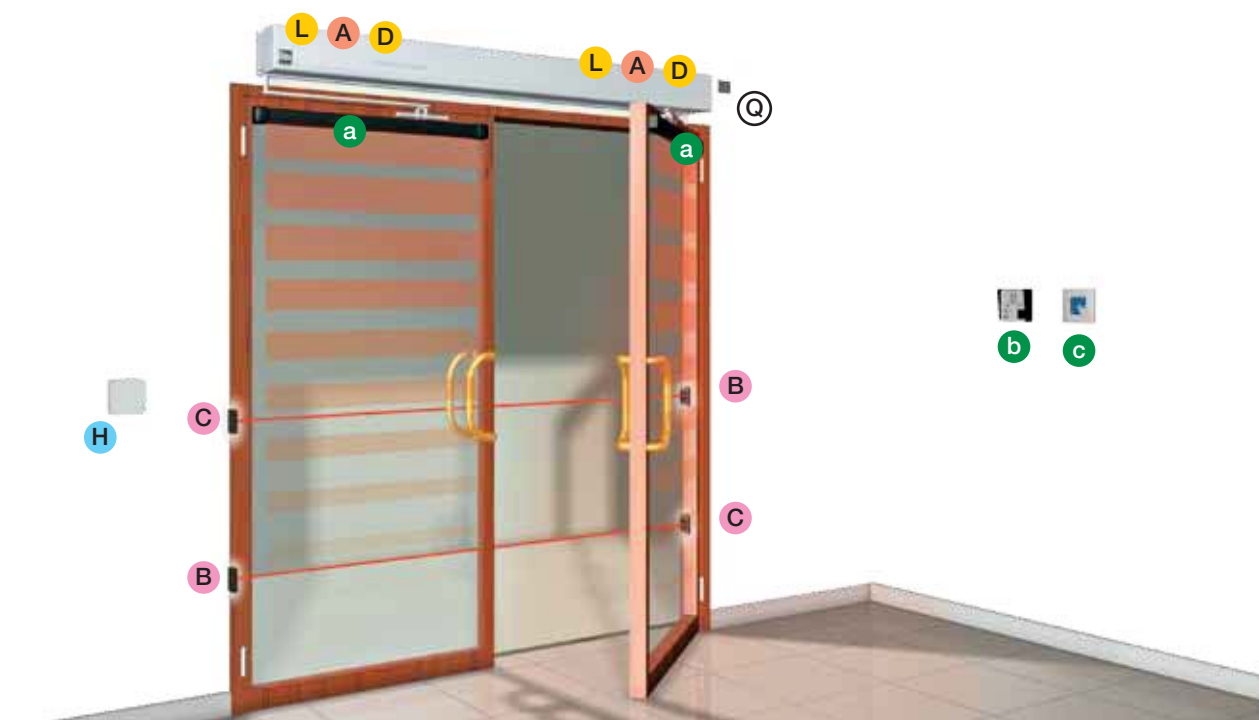
 Release device

THE CABLES TO USE

Cable length (m / ft)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: TWO-LEAF SWING DOORS



THE PRODUCTS

- A** Operator for swing doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- H** Command switch
(Key - Code - Card or transponder keyfob)
- L** Control panel
- Q** Junction box
- a** Radar
- b** Function selector
- c** Swipe sensor

THE CABLES TO USE

Cable length (m)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Function selector switch	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20
12 - 24 V AC - DC swipe sensor	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: ONE-LEAF SLIDING DOOR



THE PRODUCTS

- A** Operator for sliding doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- X** Pull-cord release device
- L** Control panel
- Q** Junction box
- a** Radar
- b** Function selector
- c** Swipe sensor

THE CABLES TO USE

Cable length (m)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Function selector switch	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20
12 - 24 V AC - DC swipe sensor	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Standard installation: TWO-LEAF SLIDING DOOR



THE PRODUCTS

- A** Operator for sliding doors
- B** TX photocells
- C** RX photocells
- D** Emergency batteries management and recharging card
- X** Pull-cord release device
- L** Control panel
- Q** Junction box
- a** Radar
- b** Function selector
- c** Swipe sensor

THE CABLES TO USE

Cable length (m)	up to 10 m / 32.8 ft	from 10 to 20 m / from 32.8 to 65.62 m	from 20 to 30 m / from 65.62 to 98.42 m
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Function selector switch	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20	7 x 0.5 mm ² / AWG20
12 - 24 V AC - DC swipe sensor	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16	4 x 1 mm ² / AWG16
Command devices	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20	*n. x 0.5 mm ² / AWG20

*n. = See product assembly instructions - **Warning:** the cable section varies depending on the power of the motor and length of the cable.

Operators for:

RESIDENTIAL KITS

34	Your selection guide	
36	BX-243	001U9615
37	BX	001U2914
38	AXO	001U7311
39	AXO	001U7411
40	ATI	001U7124
41	KRONO	001U1481
42	FERNI	001U1271
43	FERNI	001U1210
44	FAST40	001U1802
45	FAST40	001U1807
46	STYLO	001U8117
47	STYLO	001U8211
48	MYTO	001U1115
49	FROG-J	001U1314
50	EMEGA	001U5074
51	VER	001U4483
52	VER	001U4510
53	VER	001U4610
54	VER	001U4611
55	VER	001U4612
56	VER	001U4621
57	VER	001U4622
58	VER	001U4623
60	TOP	001TRA03
60	TOP	001TRA08
61	TOP	001TRA10
61	H	001TRA04

Your selection guide

Gates and door operators

The table summarises the series and models according to their limits to use.

Series		SWING GATES									
	Model	Code	Control panel/ board	Antenna	Transmitter n. x MHz	Pedestrian opening	Two-channel radio receiver	Electric lock	Max. length of leaf (m/ft)	C max (mm/in)	EN TESTED
Stylo	STYLO-ME	001U8117	ZL92	YES	1 x 868.35	YES	YES	YES	1.8 / 6	0 to 150 / 0 to 5.9	YES
	STYLO-RME	001U8211	ZL92	NO	1 x 868.35	YES	YES	YES	1.8 / 6	0 to 150 / 0 to 5.9	YES
Myto	MYTO-ME	001U1115	ZLJ24	YES	1 x 433.92	YES	YES	YES	1.8 / 6	from 0 to infinite	YES
Fast40	FR0G-J	001U1314	ZL92	NO	1 x 433.92	YES	YES	YES	1.8 / 6	from 0 to infinite	YES
	FA40230CB+FA40230	001U1802	ZF4	NO	1 x 433.92	YES	YES	YES	2.3 / 7.5	0 to 200 / 0 to 7.87	YES
	FA4024CB+FA4024	001U1807	ZL94	YES	1 x 433.92	YES	YES	YES	2.3 / 7.5	0 to 200 / 0 to 7.87	YES
Ferni	FE40230	001U1271	ZM3E	YES	2 x 433.92	YES	YES	YES	4 / 13	0 to 380 / 0 to 14.96	YES
	FE40230V	001U1210	ZA3N	YES	2 x 433.92	YES	YES	YES	4 / 13	0 to 380 / 0 to 14.96	YES
Krono	KR310D + KR310S	001U1481	ZA3N	NO	1 x 433.92	YES	YES	YES	3 / 10	0 to 60 / 0 to 2.36	YES
Ati	A3024N	001U7124	ZL180	NO	1 x 433.92	YES	YES	YES	3 / 10	0 to 60 / 0 to 2.36	YES
Axo	AX3024	001U7311	ZLJ24	YES	2 x 433.92	YES	YES	YES	3 / 10	0 to 60 / 0 to 2.36	YES
	AX302304	001U7411	ZM3E	YES	2 x 433.92	YES	YES	YES	3 / 10	0 to 60 / 0 to 2.36	YES

● 230 V AC - ● 24 V DC INTENSIVE USE

Series		SLIDING GATES								
	Model	Code	Control panel/ board	Antenna	Transmitter n. x MHz	Pedestrian opening	Two-channel radio receiver	Max. length leaf (m/ft)	Max. weight of the leaf (Kg/lb)	EN TESTED
Bx-243	BX-243	001U9615	ZN2	NO	1 x 433.92	YES		8.5/27.88	300/660	YES
Bx	BX-74	001U2914	ZBX-74	NO	1 x 433.92	YES	YES	14/45.93	400/1,760	YES

● 230 V AC - ● 24 V DC INTENSIVE USE

Series		OVERHEAD AND SECTIONAL GARAGE DOORS								
	Series - Model	Code	Control panel/ board	Antenna	Transmitter n. x MHz	Pedestrian opening	Chain guide Belt guide	Traction force (N)	Max surface (m² / ft²)	EN TESTED
Ver	V700E	001U4510	ZL56A	NO	1 x 433.92	YES	CHAIN	850		YES
	V900E	001U4483	ZL56	NO	1 x 433.92	YES	CHAIN	500		YES
	V6000	001U4610		NO	1 x 433.92		CHAIN	500		YES
	V6000	001U4611		NO	1 x 433.92		CHAIN	500		YES
	V6000	001U4612		NO	1 x 433.92		CHAIN	500		YES
	V6000	001U4621		NO	1 x 433.92		BELT	500		YES
	V6000	001U4622		NO	1 x 433.92		BELT	500		YES
	V6000	001U4623		NO	1 x 433.92		BELT	500		YES
Emega	E1024N	001U5074	ZL170N	NO	1 x 433.92	YES			14/150	YES

● 230 V AC - ● 24 V DC INTENSIVE USE



SWING GATES

Underground operator

So low-profile you'll hardly know it's there. It provides more passage width room when space is an issue.

Series: Frog - Frog-J



SWING GATES

External operator

Simple installation requiring no prep work. The most popular product when it comes to swing-gate operators.

Series: Ati - Axo - Krono - Amico



SWING GATES

Operator with articulated arm

When little room is available, instead of a traditional above-ground operator, one with an articulated arm solves the space issue.

Series: Stylo - Fast - Ferni



SLIDING GATES

Right or left opening

All Came sliding gate operators are made to fit on the left (operator side view). To fit on the right, invert the motor phases and the endpoint connection, as shown in the installation manuals.

Series: Bx-243 - BX



GARAGE DOORS

Partially retracting counterweighted or spring-balanced overhead garage door (with traction-type operator)

This type of door features a counterbalancing or spring-loaded system.

When opening and closing the door retract into the garage for about 2/3 of its overall surface area.

Series: Ver



GARAGE DOORS

Fully retracting, protruding spring-balanced overhead garage door (with traction-type operator)

This type of door features a spring-loaded balancing system. When opening and closing the door retract fully into the garage.

This door type features a spring-balanced system. When opening and closing the door retracts entirely into the garage.

Series: Ver



GARAGE DOORS

Sectional door

This type of door features a spring-loaded balancing system. It is made up of horizontal, hinged panels. When opening and closing the door recesses fully into the garage.

Series: Ver

BX-243 - 001U9615

001BX-243 - 24 V

Sliding gates

up to 300 Kg / 660 lb



Sliding operator for use in single homes and apartment blocks

BX-243's highlights:

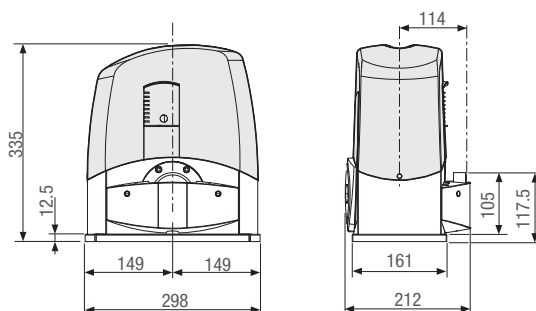
- Enhanced protection and insulation
- Horizontal control board makes for easier cabling

Code	Description	Quantity
001BX-243	Automation system with module 4 pinion complete with control board, radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.	1
001AF43S	Plug-in radio frequency card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells Range: 10 m / 32.8 ft.	1
001KIARO24N	Flashing light.	1
	Gate plate.	



NOTE: For gate racks, see SLIDING GATES section

Dimensions (mm)



Limits to use

MODEL	BX-243
Max gate-leaf weight (Kg/lb)	300/660
Max gate-leaf length (m/ft)	8.5/27.88
Pinion module (m)	4

NOTE:

All models of operators for sliding gates are products for LEFT SIDE installation.

● 24 V DC

BX - 001U2914

001BX-74 - 230 V AC

Sliding gates

up to 400 Kg / 880 lb



Sliding operator for use in single homes and apartment blocks

BX's highlights:

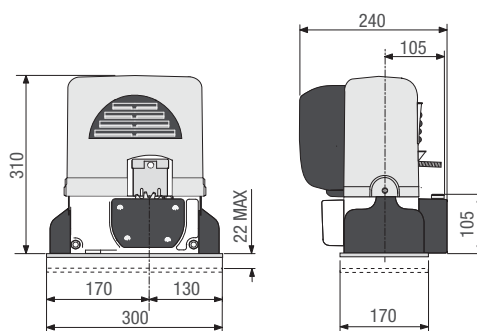
- Built-in radio decoder
- Safety device built-into the release systems

Code	Description	Quantity
001BX-74	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 400 Kg / 880 lb and max 14 m / 45.93 ft in length.	1
001AF43S	Plug-in radio frequency card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARON	Flashing light.	1
	Gate plate.	



NOTE: For gate racks, see SLIDING GATES section

Dimensions (mm)



Limits to use

MODEL	BX-74
Max gate-leaf weight (Kg/lb)	400/880
Max gate-leaf length (m/ft)	14/45.93
Pinion module (m)	4

NOTE:

All models of operators for sliding gates are products for LEFT SIDE installation.

● 230 V AC

AX0 - 001U7311

001AX3024 - 24 V DC

Two-leaf swing gates
up to 3 m / 10 ft per gate leaf



Operator with worm screw for use in single homes and apartment blocks

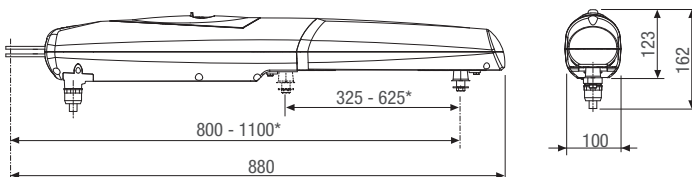
Axo's highlights:

- Excellent quality and extremely silent operator thanks to its aluminium half-shell fitted over the motor
- Innovative design at the service of technology

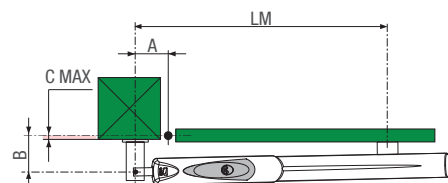
Code	Description	Quantity
001AX3024	Self-locking operator with encoder for gates up to 3 m / 10 ft per leaf. Adjustable opening times (90°).	2
002ZLJ24	Multifunction control panel for two-wing swing gates with notification display, self-diagnosing safety devices, and built-in radio decoding.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	2
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DIR10	Pair of photocells. Range 10 m.	1
001KIARO24N	Flashing warning light.	1
001KIAROS	Wall-fastening support for flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	AX3024			
Max gate-leaf width (m/ft)	3/10	2.5/8.2	2/6.6	
Max gate-leaf weight (Kg/lb)	500/1,100	600/1,330	800/1,770	

Application dimensions (mm/in)

MODEL	AX3024			
GATE-LEAF OPENING (°)	A	B	C MAX	LM
90°	130/5.11	130/5.11	70/2.75	800/31.49
120°	140/5.51	100/3.93	50/1.96	800/31.49

● 24 V DC

● 24 V DC

AXO - 001U7411

001AX302304 - 230 V AC

Two-leaf swing gates
up to 3 m / 10 ft per gate leaf



Operator with worm screw for use in single homes and apartment blocks

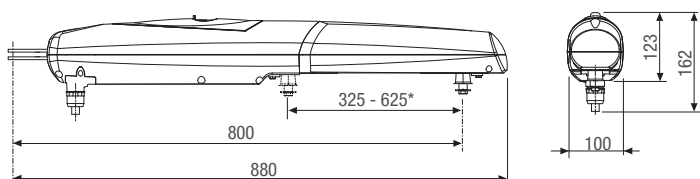
Axo's highlights:

- An excellent quality and extremely silent operator thanks to the supporting aluminium half shells fitted over the motor
- Innovative design at the service of technology

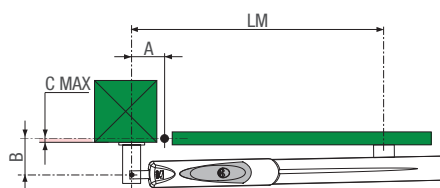
Code	Description	Quantity
001AX302304	Self-locking operator with encoder for gates up to 3 m / 10 ft per leaf. Opening time 20 secs. (90°).	2
002ZM3E	Multifunction control panel with warning display, self-diagnosing safety devices and on board radio decoding.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	2
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DIR10	Pair of photocells. Range 10 m.	1
001KIARON	Flashing warning light.	1
001KIAROS	Wall-fastening support for flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	AX302304			
Max gate-leaf width (m/ft)	3/10	2.5/8.2	2/6.6	
Max gate-leaf weight (Kg/lb)	500/1,100	600/1,330	800/1,770	

● 230 V AC

Application dimensions (mm/in)

MODEL	AX302304			
GATE-LEAF OPENING (°)	A	B	C MAX	LM
90°	130/5.11	130/5.11	70/2.75	800/31.49
120°	140/5.51	100/3.93	50/1.96	800/31.49

● 230 V AC

ATI - 001U7124

001A3024N - 24 V DC

Two-leaf swing gates
up to 3 m / 10 ft per gate leaf



Operator with worm screw for use in single homes and apartment blocks

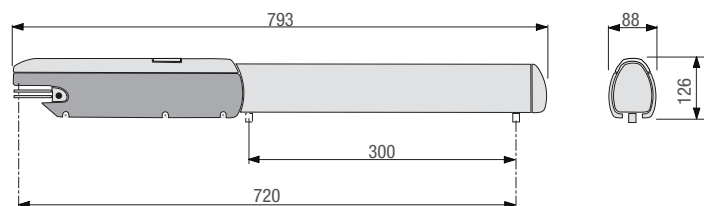
Ati's highlights:

- Mechanism fitted with an electronic break for maximum safety
- Operator release system protected by a hatch for easy, safe manual opening

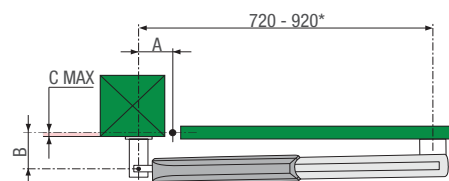
Code	Description	Quantity
001A3024N	Self-locking operator for gate leaves of up to 3 m / 10 ft (adjustable 90° opening time).	2
002ZL180	Control panel for two-leaf swing gates with radio decoder.	1
001AF43S	Plug-in radio frequency card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARO24N	Flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	A3024N
Max gate-leaf width (m/ft)	3/10 2.5/8.2 2/6.6
Max gate-leaf weight (Kg/lb)	600/1,330 800/1,770 1000/2,200

Application dimensions (mm / in)

MODEL		A3024N	
GATE-LEAF OPENING (°)	A	B	C MAX
90°	130/5.11	130/5.11	60
120°	130/5.11	110/4.33	50/1.96

● 24 V DC

● 24 V DC

KRONO - 001U1481

001KR310D/S - 230 V AC

Two-leaf swing gates

up to 3 m / 10 ft per gate leaf



Operator with worm screw for single home use

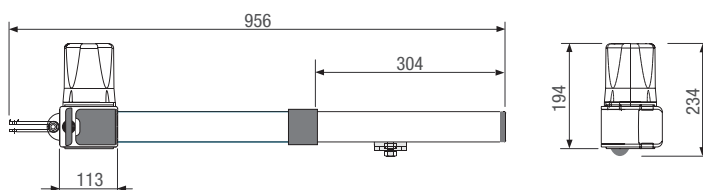
Krono's highlights:

- Reliable and durable thanks to its special aluminium structure
- Robust thanks to its full metal composition

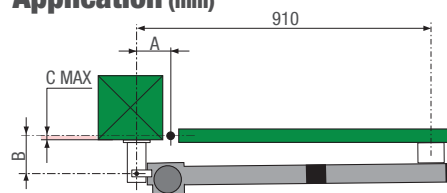
Code	Description	Quantity
001KR310D	Right-hand self-locking operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	1
001KR310S	Left-hand self-locking operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	1
002ZA3N	Multifunction control panel for two-leaf swing gates with radio decoder.	1
001AF43S	Plug-in radio frequency card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARON	Flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	KR310D - KR310S		
Max gate-leaf width (m/ft)	3/10	2.5/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	600/1,330	800/1,770

● 230 V AC

Application dimensions (mm / in)

MODEL	KR310D - KR310S		
GATE-LEAF OPENING (°)	A	B	C MAX
90°	130/5.11	130/5.11	60
120°	130/5.11	110/4.33	50/1.96

● 230 V AC

FERNI - 001U1271

001FE40230 - 230 V AC

Two-leaf swing gates
up to 4 m / 13 ft per gate leaf



Articulated arm operator for use in single homes and apartment blocks

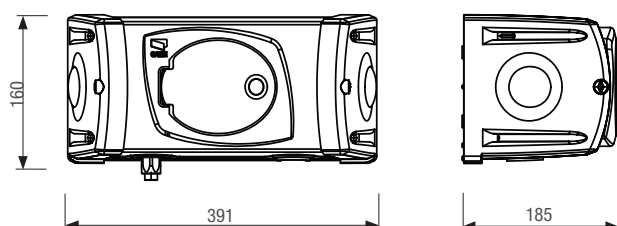
Ferni's highlights:

- Ideal for large gate posts
- A solid and powerful operator

Code	Description	Quantity
001FE40230	Self-locking operator complete with articulated transmission arm for gate leaves of up to 4 m / 13 ft.	2
002ZM3E	Multifunction control panel with warning display, self-diagnosing safety devices and on board radio decoding.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	2
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DIR10	Pair of photocells. Range 10 m.	1
001KIARON	Flashing warning light.	1
001KIAROS	Wall-fastening support for flashing light.	1
	Gate plate.	



Dimensions (mm)



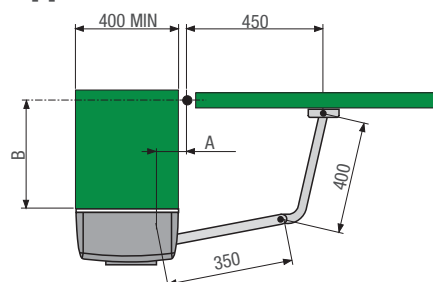
NOTE:
The electric lock on the gate leaf is mandatory.

Limits to use

MODEL	FE40230				
Max gate-leaf width (m/ft)	4*/13	3.5*/11.5	3*/10	2.5*/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	450/992	500/1,100	600/1,330	800/1,770

● 230 V AC

Application (mm)



Application dimensions (mm/in)

MODEL	ALL MODELS	
GATE-LEAF OPENING (°)	B	A
90°	0 ÷ 300 / 0 ÷ 11.81	110/4.33
90°	300 ÷ 380 / 11.81 ÷ 14.96	150/5.9

FERNI - 001U1210

001FE40230V - 230 V AC

Two-leaf swing gates
up to 4 m / 13 ft per gate leaf



Articulated arm operator for use in single homes and apartment blocks

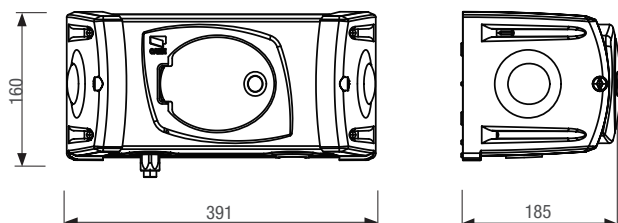
Ferni's highlights:

- Ideal for large gate posts
- A solid and powerful operator

Code	Description	Quantity
001FE40230V	Self-locking operator complete with articulated transmission arm for gate leaves of up to 4 m / 13 ft (fast version)..	2
002ZA3N	Multi-feature control panel for two-leaved swing gate with on-board radio decoding.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	2
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DIR10	Pair of photocells. Range 10 m.	1
001KIARON	Flashing warning light.	1
001KIAROS	Wall-fastening support for flashing light.	1
	Gate plate.	



Dimensions (mm)



NOTE:

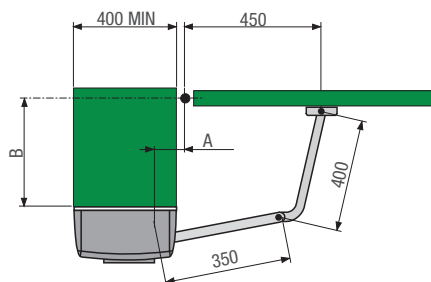
The electric lock on the gate leaf is mandatory.

Limits to use

MODEL	FE40230				
Max gate-leaf width (m/ft)	4*/13	3.5*/11.5	3*/10	2.5*/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	450/992	500/1,100	600/1,330	800/1,770

● 230 V AC

Application (mm)



Application dimensions (mm/in)

MODEL	ALL MODELS	
GATE-LEAF OPENING (°)	B	A
90°	0 ÷ 300 / 0 ÷ 11.81	110/4.33
90°	300 ÷ 380 / 11.81 ÷ 14.96	150/5.9

FAST40 - 001U1802

001FA40230CB + 001FA40230 - 230 V AC

Two-leaf swing gates

up to 2.3 m / 7.5 ft per gate leaf



Articulated arm operator for use in single homes and apartment blocks

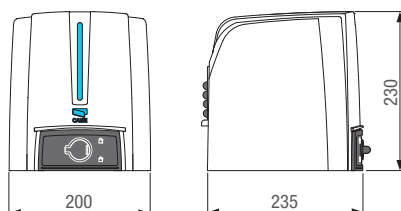
Fast's highlights:

- Perfectly suited for installing on large gate posts
- Ideal wherever other operators cannot be installed

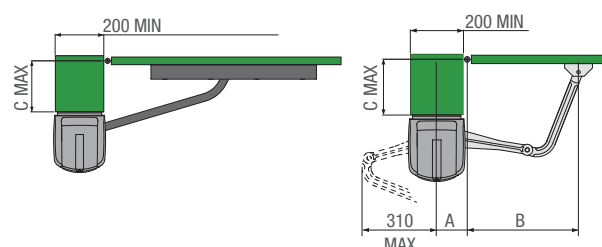
Code	Description	Quantity
001FA40230CB	Automation system complete with control board and articulated transmission arm, for swing gate leaves of up to 2.3 m / 7.5 ft.	1
001FA40230	Self-locking operator complete with articulated transmission arm for swing gate leaves up to 2.3 m / 7.5.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells. Range 10 m.	1
001KIARON	Flashing warning light.	1
001KIAROS	Wall-fastening support for flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODELE	FA40230CB - FA40230			
Max gate-leaf width (m/ft)	2.3/7,5	2/6.56	1.5/4.92	1/3.28
Max gate-leaf weight (Kg/lb)	200/441	215/474	250/551	300/661

Application dimensions (mm/in)

MODEL	ALL MODELS		
GATE-LEAF OPENING (°)	A	C MAX	B
90°	140/5.51	0÷200/0÷7.87	420/16.53
90°	160÷180/6.29÷7.08	200/7.87	380/14.96
110°	200÷220/7.87÷8.66	0÷50/0÷1.96	400/15.74

● 230 V AC

FAST40 - 001U1807

001FA4024CB + 001FA4024 - 24 V DC

Two-leaf swing gates
up to 2.3 m / 7.5 ft per gate leaf



Articulated arm operator for use in single homes and apartment blocks

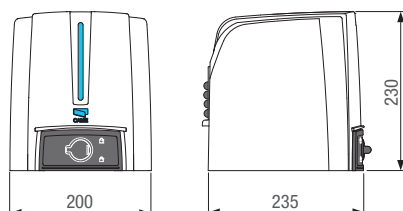
Fast's highlights:

- Perfectly suited for installing on large gate posts
- Ideal wherever other operators cannot be installed

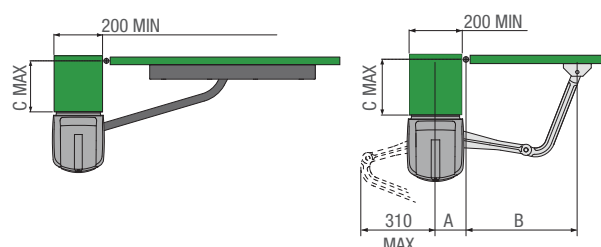
Code	Description	Quantity
001FA4024CB	Automation system complete with control board and articulated transmission arm, for swing gate leaves of up to 2.3 m / 7.5 ft.	1
001FA4024	Self-locking operator complete with articulated transmission arm for swing gate leaves up to 2.3 m / 7.5.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DIR10	Pair of photocells. Range 10 m.	1
001KIARO24N	Flashing warning light.	1
001SET-J	Surface mounted key switch, with aluminium alloy case and lock and cylinder protective flap.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODELE	FA4024CB - FA4024			
Max gate-leaf width (m/ft)	2.3/7.5	2/6.56	1.5/4.92	1/3.28
Max gate-leaf weight (Kg/lb)	200/441	215/474	250/551	300/661

● 24 V DC

Application dimensions (mm/in)

MODEL	ALL MODELS		
GATE-LEAF OPENING (°)	A	C MAX	B
90°	140/5.51	0÷200/0÷7.87	420/16.53
90°	160÷180/6.29÷7.08	200/7.87	380/14.96
110°	200÷220/7.87÷8.66	0÷50/0÷1.96	400/15.74

STYLO - 001U8117

001STYLO-ME - 24 V DC

Two-leaf swing gates
up to 1.8 m / 6 ft per gate leaf



Articulated arm operator for use in single homes and apartment blocks

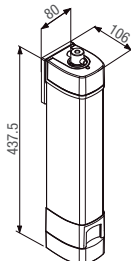
Stylo's highlights:

- Self-locking operator with customised key release system
- Can be installed on posts starting from ones 8 cm / 3.14 in wide

Code	Description	Quantity
001STYLO-ME	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.	2
002ZL92	Control panel for two gearmotors with on board radio decoding.	1
001STYLO-BD	Straight transmission arm and slide guide.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DELTA-SE	Pair of photocells for visible application. Range 20 m	1
001KIARO24N	Flashing warning light.	1
	Gate plate.	



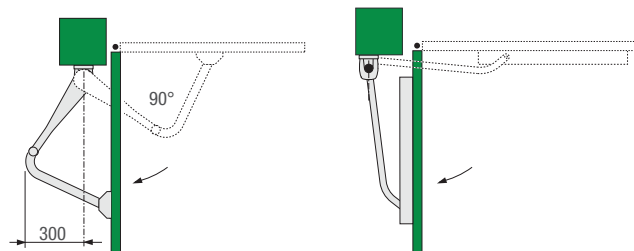
Dimensions (mm)



Limits to use

MODEL	STYLO-ME		
Max gate leaf width (m)	1.8/6	1.2/3.9	0.8/2.6
Maxi gate-leaf weight (Kg)	100/220	125/275	150/330
Max gate-leaf opening (°)	120 (with 001STYLO-BS) - 135 (with 001STYLO-BD)		

Application (mm)



STYLO - 001U8211

001STYLO-RME - 24 V DC

Two-leaf swing gates
up to 1.8 m / 6 ft per gate leaf

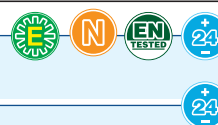


Articulated arm operator for use in single homes and apartment blocks

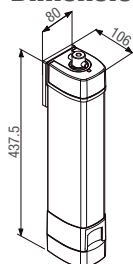
Stylo's highlights:

- Self-locking operator with customised key release system
- Can be installed on posts starting from ones 8 cm / 3.14 in wide

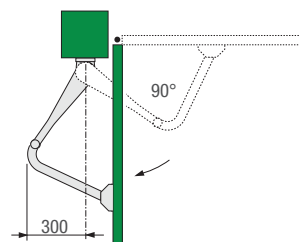
Code	Description	Quantity
001STYLO-RME	Reversible operator with encoder for gate leaves of up to 1.8 m / 6 ft.	1
002ZL92	Control panel for two gearmotors with on board radio decoding.	1
001STYLO-BS	Articulated pull-arm.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	STYLO-RME		
Max gate leaf width (m)	1.8/6	1.2/3.9	0.8/2.6
Maxi gate-leaf weight (Kg)	100/220	125/275	150/330
Max gate-leaf opening (°)	120 (with 001STYLO-BS) - 135 (with 001STYLO-BD)		

● 24 V DC

MYTO - 00U1115

001MYTO-ME - 24 V DC

Two-leaf swing gates

up to 1.8 m / 6 ft per gate leaf



Slide arm operator for use in single homes and apartment blocks

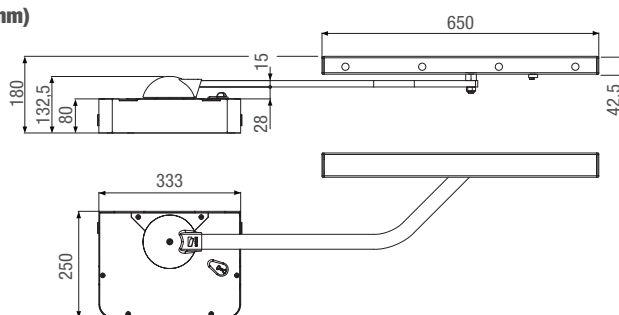
Myto's highlights:

- Self-locking operator with customised key release system
- Easy to install solution for swing gates

Code	Description	Quantity
001MYTO-ME	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.	2
001MYTO-C	Foundation casing for external fixing or for underground installation.	2
001MYTO-BD	Transmission arm and slide guide.	2
002ZLJ24	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.	1
001AF43S	Plug in radio card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001TOP-A433N	Antenna.	1
001TOP-RG58	Cable to connect antenna.	m 5
001DELTA-E	Pair of photocells for visible application. Range 20 m	1
001KIARO24N	Flashing warning light.	1
	Gate plate.	



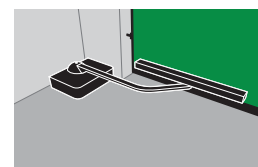
Dimensions (mm)



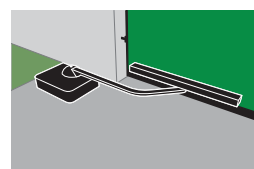
Application (mm)



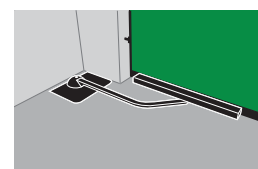
Below-ground motor in standard position



Above-ground motor positioned to the side (when space is an issue)



Above-ground motor in standard position



Below-ground motor positioned to the side (when space is an issue)

Limits to use

MODEL	MYTO-ME
Max gate-leaf width (m/ft)	1.8/6
Max gate-leaf weight (Kg/lb)	200/441
Max gate-leaf opening (°)	125

● 24 V DC

FROG-J - 001U1314

001FROG-J - 24 V DC

Two-leaf swing gates
up to 1.8 m / 6 ft per gate leaf

Underground operator for single home use

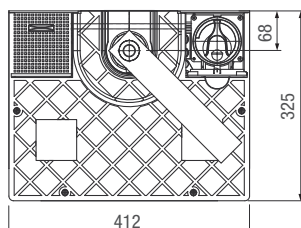
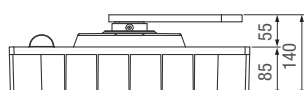
Frog-J's highlights:

- Hatch door protected release system
- Encoder and ABS box

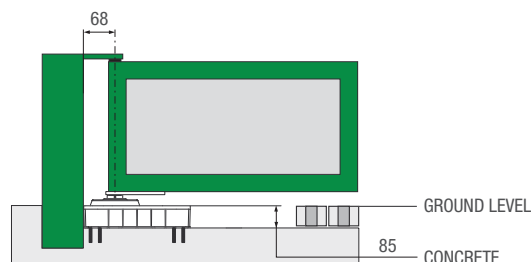
Code	Description	Quantity
001FROG-J	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.	2
001FROG-JC	Foundation casing.	2
001A4617	Release group with customized key.	2
002ZL92	Control panel for two-leaf swing gates with radio decoder.	1
001AF43S	Plug-in radio frequency card.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARO24N	Flashing light.	1
	Gate plate.	



Dimensions (mm)



Application (mm)



Limits to use

MODEL	FROG-J
Max gate-leaf width (m/ft)	1.8/6
Max gate-leaf weight (Kg/lb)	200/441
Max gate-leaf opening (°)	105

● 24 V DC

EMEGA - 001U5074

001E1024- 24 V DC

Overhead garage doors





max door surface up to 14 m² / 150 ft²



Garage Door operator for single homes and apartment blocks

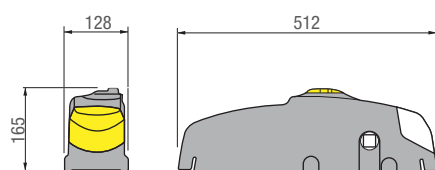
Emega's highlights:

- Operator designed for small and medium overhead garage doors
- Release lever for manually opening the door in case of blackout

Code	Description	Quantity
001E1024	Self-locking operator for doors of up to 14 m ² / 150 ft ² .  	1
002ZL170N	Control panel for overhead garage doors with one gearmotor and with radio decoder. 	1
001E781A	Accessories to assemble the lateral transmission.	2
001E785A	Pair of straight telescopic arms with 40 x 10 mm / 1.57 x 0.39 in rectangular shaft.	1
001AF43S	Plug-in radio frequency card.	1
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARO24N	Flashing light. 	1
	Gate plate.	



Dimensions (mm)

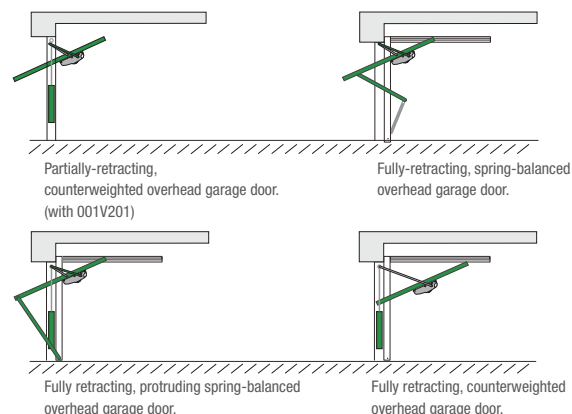


Limits to use

MODEL	E1024
Door surface (m ² / ft ²)	14/150

● 24 V DC

Application (mm)



VER - 001U4483

001V900E - 24 V DC

Overhead and sectional garage doors
traction force 850 N



Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

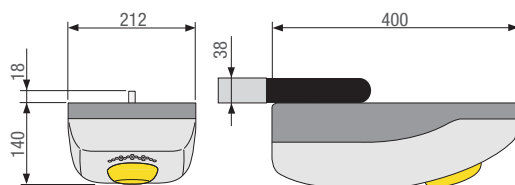
Code	Description	Quantity
001V900E	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 500 N).	1
001V0679	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001AF43S	Plug-in radio frequency card.	1
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARO24N	Flashing light.	1
	Gate plate.	



NOTES

* BC = Counterweighted overhead - BM = Spring-balanced overhead - STA = Sectional type A - STB = Sectional type B

Dimensions (mm)



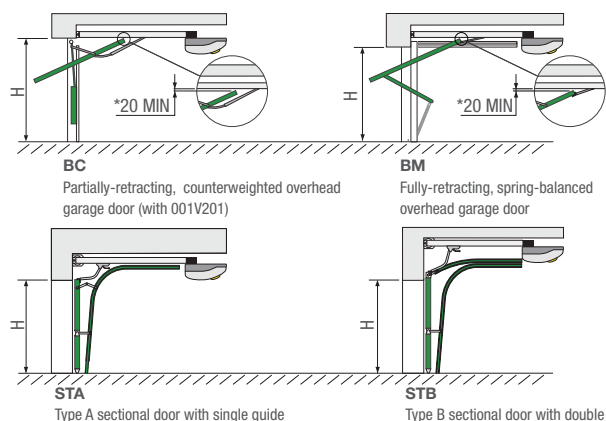
H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V900E
Traction force (N)	500

● 24 V DC

Application (mm)



VER - 001U4510

001V700E - 24 V DC

Overhead and sectional garage doors

Traction force 850 N



Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

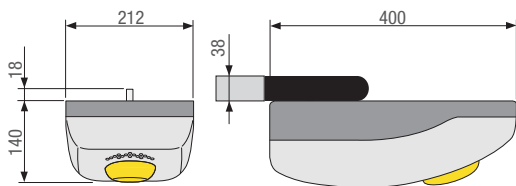
Code	Description	Quantity
001V700E	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 850 N).	1
001V0679	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001AF43S	Plug-in radio frequency card.	1
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001DIR10	Pair of photocells. Range 10 m / 32.8 ft.	1
001KIARO24N	Flashing light.	1
	Gate plate.	



NOTES

* BC = Counterweighted overhead - BM = Spring-balanced overhead - STA = Sectional type A - STB = Sectional type B

Dimensions (mm)



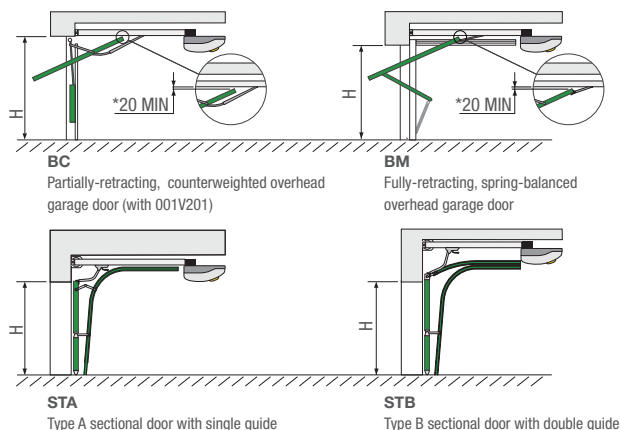
H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V700E
Traction force (N)	850

● 24 V DC

Application (mm)



VER - 001U4610

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N



Operator for garage doors in single homes and apartment blocks

Silent and powerful garage doors

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

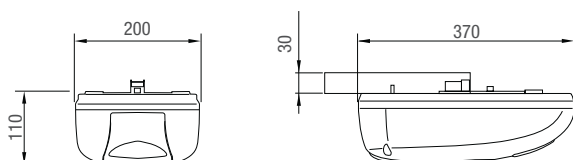
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06001	Chain guide L = 3.02 m * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BC = Counterweighted overhead - BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)



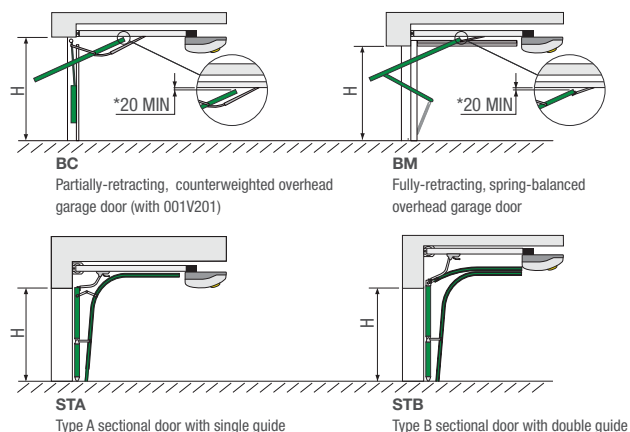
H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

● 24 V DC

Application (mm)



VER - 001U4611

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N



Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

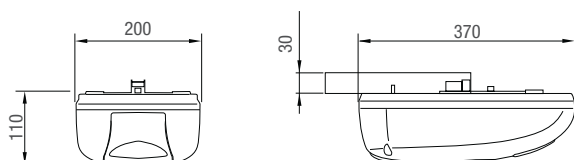
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06002	Chain guide L = 3.52 m / 11.54 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)

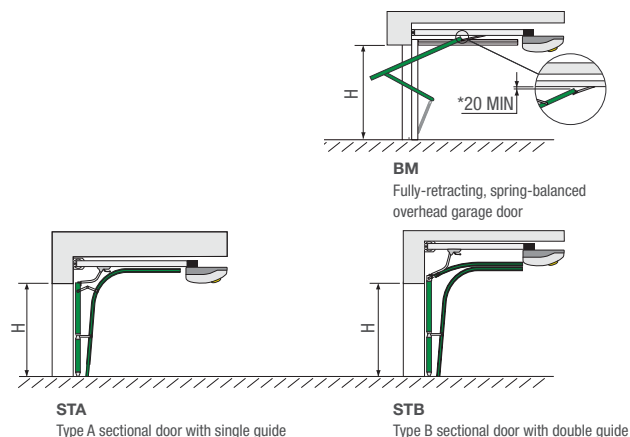


H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

Application (mm)



VER - 001U4612

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N

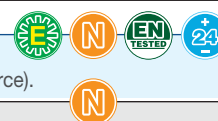


Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

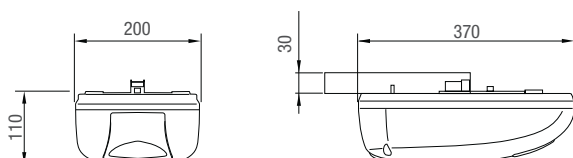
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06003	Chain guide L = 4.02 m / 13.18 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)

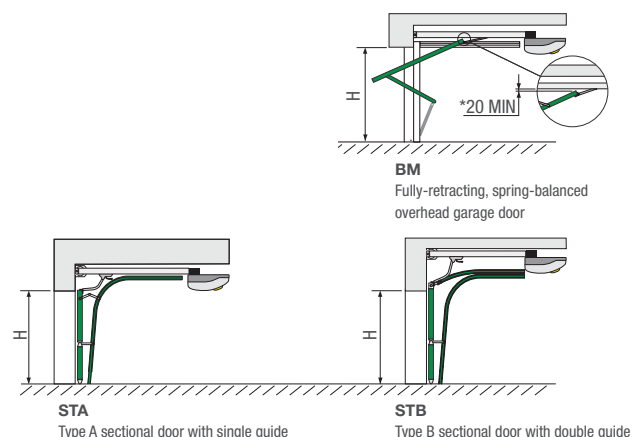


H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

Application (mm)



● 24 V DC

VER - 001U4621

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N



Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

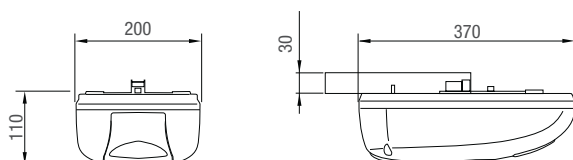
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06005	Belt guide L = 3.02 m / 13.18 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)

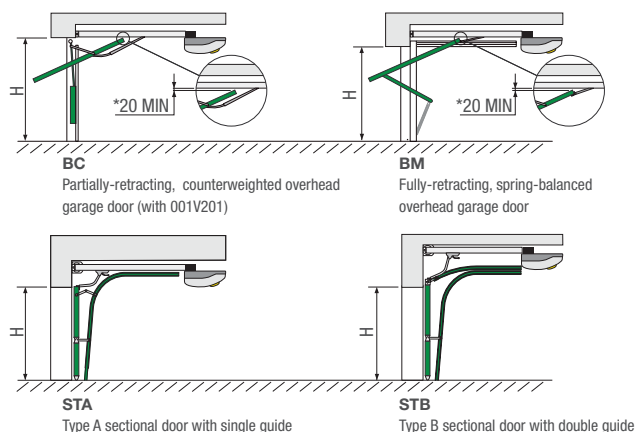


H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

Application (mm)



VER - 001U4622

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N

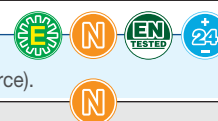


Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

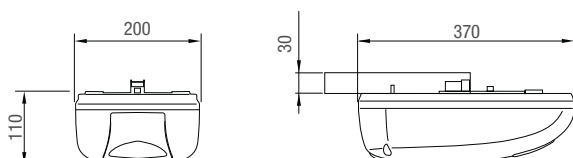
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06006	Belt guide L = 3.52 m / 11.54 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)

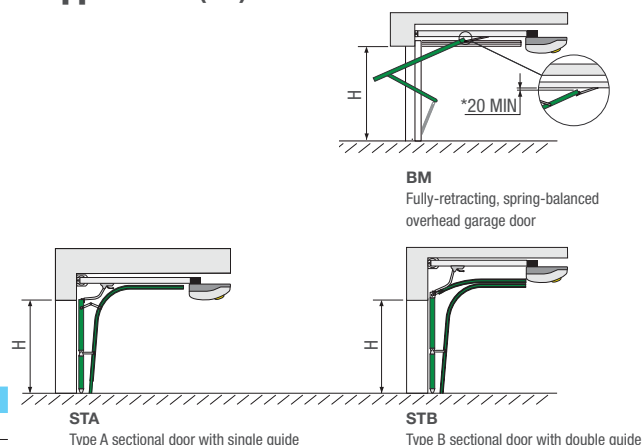


H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

Application (mm)



● 24 V DC

VER - 001U4623

001V6000 - 24 V DC

Overhead and sectional garage doors

Traction force 500 N



Operator for garage doors in single homes and apartment blocks

- Ver's highlights:

- Featuring courtesy lighting
- Slow-down and obstacle detection

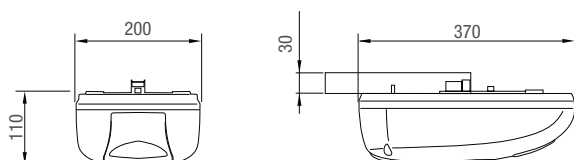
Code	Description	Quantity
001V6000	Operator complete with control panel with encoder for doors overhead counterweighted doors, spring loaded doors and sectional doors (500 N traction force).	1
001V06007	Belt guide L = 4.02 m / 13.18 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.	1
001TOP-432EV	Two-channel multi user 433.92 MHz transmitter. 4,096 combinations with self-learning.	1



NOTES

* BM = Spring-balanced overhead - STA = Sectional type A

Dimensions (mm)



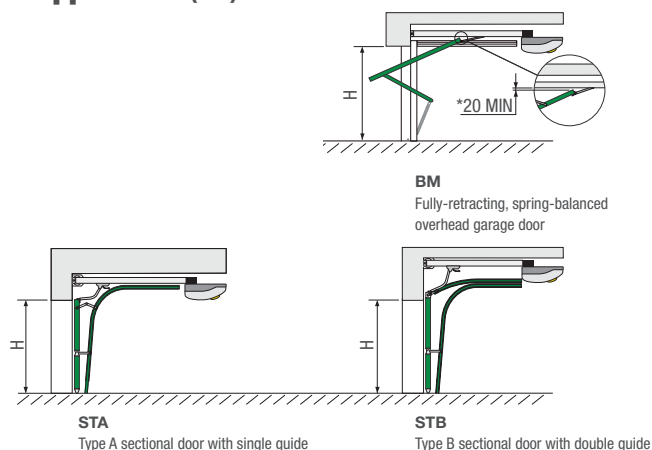
H = max door height* max overall dimensions in height of the door during movement (about 2/3 of the opening)

Limits to use

MODEL	V6000
Traction force (N)	500

● 24 V DC

Application (mm)



TOP - 001TRA03

Complete radio system for universal use
(433.92 MHz - 12 - 24 V DC)



Code	Description	Quantity
001 TOP-432EV	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	2
001 RE432	12 - 24 V AC - DC IP54 surface-mounted bi-channel receiver.	1
001 TOP-A433N	Antenna	1
001 TOP-RG58	Antenna cable.	m 5



TOP - 001TRA08

Complete radio system for universal use
(433.92 MHz - 230 V AC)



Code	Description	Quantity
001 TOP-434EV	Four-channel multi-user transmitter. 4,096 combinations with self-learning function.	2
001 AF43S	Plug-in radio frequency card.	1
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.	1
001 TOP-A433N	Antenna.	1
001 TOP-RG58	Antenna cable.	m 5



TOP - 001TRA10

Complete multi-user radio system up to 999 codes
(433.92 MHz - 12 - 24 V DC)



Code	Description	Quantity
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	2
001RBE4MT	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user receiver to store up to 999 codes (users).	1
001TOP-A433N	Antenna	1
001TOP-RG58	Antenna cable.	m 5



H - 001TRA04

Complete command systems for rolling shutters
(230 V AC)



Code	Description	Quantity
002ZR24	Control panel with built-in radio decoder.	1
001TOP-432EV	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001AF43S	Plug-in radio frequency card.	1



Operators for: **SLIDING GATES**

64	Your selection guide
66	Bx-243
68	Bx
70	Bk
72	By-3500T
74	Electronic features
75	Control panels for: SLIDING GATES

Your selection guide

Sliding gate operators

The table summarises the series and models with their maximum limits to use based only on the weight of the gate-leaf.

Series	Model	Max gate-leaf weight (Kg/lb)
Bx-243	BX-243	300/660
	BX-243C	
Bx	BX-74	400/880
	BX-246	600/1,320
	BX-P	
	BX-78	800/1,760
	BX-10	
Bk	BK-800	● 230 V AC INTENSIVE USE
	BK-1200	1200/2,640
	BK-1200P	
	BKE-1200	
	BK-1800	1800/3,970
	BKE-1800	
	BK-2200	2200/4,850
	BK-221	● 230 V AC INTENSIVE USE
	BKE-2200	
	BK-2200T	
By-3500T	BY-3500T	3500/7,720

● 230 – 400 V AC TRIPHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE





RIGHT OR LEFT OPENING

All Came sliding gate operators are made to fit on the left (operator side view). To fit on the right, invert the motor phases and the endpoint connection, as shown in the installation manuals.

Series: Bx-243 - Bx



SIMULTANEOUS OPENING

Came's range of sliding gate operators includes fitting two operators opposite each other.

Series: Bx - Bk



INDUSTRIAL APPLICATION

At industrial facilities with vehicles like semi-trucks, trailer trucks and forklift trucks passing through access ways, it's always best to fit infrared beam photocells at two separate heights to prevent gate-closing when halting in the passage way.

Series: By-3500T

The flashing light: additional safety!

Came suggests also fitting a flashing light to warn when mechanical parts are moving.

KIAROIN and KIARO24IN let you easily programme any periodic maintenance required by law, thanks to its manoeuvre counter feature. Installers set the number of cycles and, once the limit is reached, an additional light signal warns that scheduled maintenance is required.



Bx-243

Gates up to 300 Kg / 660 lb

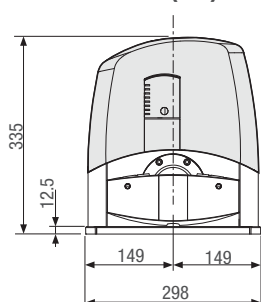


The ideal solution to apply to residential gates

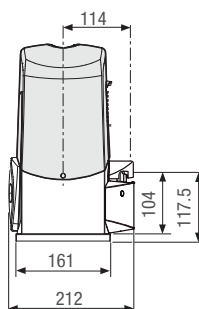
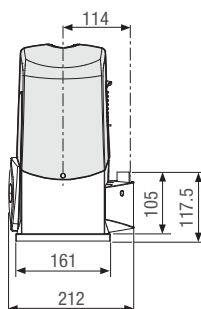


- Tested according to the parameters dictated by current rules and regulations.
- Can work in emergency mode during power outages.
- Thanks to the built-in, protected endstops, installing in areas with critical weather conditions is no longer a problem.
- Encoder-based movement control.
- Self-diagnosing safety devices.
- The control board is placed horizontally, to make for easier connections.
- Comes in two versions: with rack or chain.

Dimensions (mm)



001BX-243



001BX-243C

Limits to use

MODEL	BX-243	BX-243C
Max gate-leaf weight (Kg/lb)	300/660	300/660
Max gate-leaf length (m/ft)	8.5/27.88	8.5/27.88
Pinion module (m)	4	-

● 24 V DC

Technical features

Type	BX-243 - BX-243C
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	7 MAX
Power (W)	170
Manoeuvre speed (m/min - ft/min)	12/39.37
Duty cycle (%)	INTENSIVE USE
Thrust (N)	300
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The full range



Code	Description
Complete automation systems with 24 V DC gearmotor tested in compliance with EN12453 - EN12445	
001 BX-243	Automation system with module 4 pinion complete with control board, radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.
001 BX-243C	Automation system with chain transmission device complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and 8.5 m / 27.88 ft in length.
Accessory for: 001BX-243 - 001BX-243C	
002 LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Racks for: 001BX-243	
009 CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in module 4.
009 CGZP	Rack in PA6 nylon and fibreglass with steel core 20 x 20 mm / 0.78 x 0.78 in, with securing holes and distancers, for sliding gates of up to 300 Kg / 660 lb, module 4.
009 CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in module 4 with securing holes and distancers.



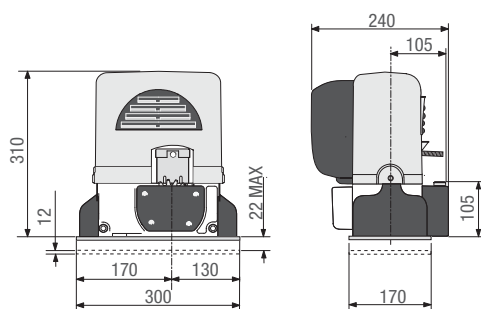
Gates up to 800 Kg / 1,760 lb

Ideal solution for fitting onto gates under intensive use



- Models 001BX-74 and 001BX-246 are tested according to the parameters established by the current standards.
- The Bx range is composed of several operators to meet all of the customers' needs.
- Self-diagnosing safety devices.
- 001BX-10: evolved electronics with programming display, encoder for managing slow downs, plus obstacle detections, memorising up to 250 users.
- PRATICO SYSTEM: for activating the radio release patented by Came, you need to add a plug-in radio-frequency card (this is not a feature of the 001AF40 card).
- 001BX-246: can work in emergency mode during power outages.

Dimensions (mm)



Limits to use

MODEL	BX-74	BX-P	BX-246	BX-10	BX-78
Max gate-leaf weight (Kg/lb)	400/880	600/1,320	600/1,320	800/1,760	800/1,760
Max gate-leaf length (m/ft)	14/45.93	14/45.93	18/59.05	20/65.61	14/45.93
Pinion module (m)	4	4	4	4	4

● 230 V AC ● 24 V DC

NOTE:

To activate the release for the 001BX-P, you will need a plug-in radio frequency card of the same series as that of the operator's radio transmitter (001AF40 excluded).




Technical features

Type	BX-74	BX-P	BX-246	BX-10	BX-78
Protection rating IP	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	24 DC	230 AC	230 AC
Current draw (A)	2.6	2	10 MAX	2.4	2.4
Power (W)	200	230	400	300	300
Manoeuvre speed (m/min - ft/min)	10.5/34.44	17/55.77	6 ÷ 12 / 19.68 ÷ 39.37	10.5/34.44	10.5/34.44
Duty cycle (%)	30	30	INTENSIVE USE	30	30
Thrust (N)	300	600	700	800	800
Operating temperature (°C/°F)			-20 ÷ +55 / -4 ÷ +131		
Motor thermo protection (°C/°F)	150/302	150/302	-	150/302	150/302

● 230 V AC - ● 24 V DC

The full range



Code	Description
Complete automation system with 230 V AC gearmotor tested in compliance with EN12453 - EN12445	
001 BX-74	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 400 Kg / 880 lb and max 14 m / 45.93 ft in length.
	
Complete automation systems with 230 V AC gearmotor	
001 BX-P	Automation system complete with control board, radio decoder and PRATICO SYSTEM radio release system with a 12 V – 1.2 Ah battery for sliding gates of up to 600 Kg / 1,320 lb and max 14 m / 45.93 ft in length.
	
001 BX-78	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 800 Kg / 1,760 lb and max 14 m / 45.93 ft in length.
001 BX-10	Automation system complete with control board featuring function programming display, radio decoder, encoder-based movement control and obstacle detection devices for sliding gates of up to 800 Kg / 1,760 lb and 20 m / 65.61 ft in length.
Complete automation system with 24 V DC gearmotor tested in compliance with EN12453 - EN12445	
001 BX-246	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 600 Kg / 1,320 lb and max 18 m / 59 ft in length. Fitted to take n. 2 12 V - 1.2 Ah batteries.
 	
Accessories for: 001BX-10	
002 RSE	Function management card.
Accessories	
002 LBD2	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Accessories for chain transmission	
001 R001	Lock cylinder with DIN key.
001 B4337	Chain transmission device.
009 CCT	1/2 in simple chain.
009 CGIU	Joint for 1/2 in chain.
Racks	
009 CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in module 4.
009 CGZP	Rack in PA6 nylon and fibreglass with steel core 20 x 20 mm / 0.78 x 0.78 in, with securing holes and distancers, for sliding gates of up to 300 Kg / 660 lb, module 4.
009 CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in module 4 with securing holes and distancers.





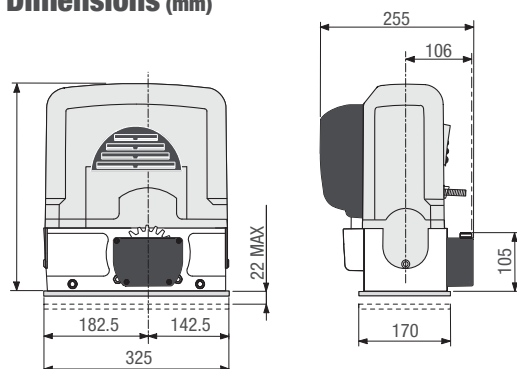
Gates up to 2200 Kg / 3,970 lb

Ideal solution for fitting onto very large gates or industrial facility gates



- Flexibility and safety thanks to a complete range engineered around different types of use - from industrial to intensive.
- Self-diagnosing safety devices.
- A broad range of operators even with encoder-based movement control.
- Can control the auxiliary lighting in the passage area.
- PRATICO SYSTEM: for activating the radio release patented by Came, you need to add a plug-in radio-frequency card (this is not a feature of the 001AF40 card).
- Module 4 or 6 pinions for transmitting fluid and linear movement to the rack.
- The 001BK-2200T model is triphase powered to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BK-800	BK-1200	BK1200P	BK-1800	BK-2200	BK-221	BK-2200T
Max gate-leaf weight (Kg/lb)	800/1,760	1200/2,640	1200/2,640	1800/3,970	2200/4,850	2200/4,850	2200/4,850
Max gate-leaf length (m/ft)	20/65.61	20/65.61	14/45.93	20/65.61	20/65.61	20/65.61	23/75.45
Pinion module (m)	4	4	4	4	6	4	6

MODEL	BKE-1200	BKE-1800	BKE-2200
Max gate-leaf weight (Kg/lb)	1200/2,640	1800/3,970	2200/4,850
Max gate-leaf length (m/ft)	13/42.65	13/42.65	13/42.65
Pinion module (m)	4	4	6

● 230 V AC - ● 230 – 400 V AC TRIPHASE

NOTE:

To activate the release device for the 001BK-1200P, you will need a plug-in radio frequency card of the same series used for the operator's radio transmitter (001AF40 excluded).

Technical features

Type	BK-800	BK-1200 - BKE-1200	BK-1200-1200P	BK-1800 - BKE-1800	BK-2200 - BKE-2200	BK-221	BK-2200T
Protection rating IP	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC	230 – 400 V AC TRIPHASE
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC	230 – 400 V AC TRIPHASE
Current draw (A)	4.5	3.3	3.3	4.2	5.1	5.1	1.5
Power (W)	520	380	380	480	580	580	600
Manoeuvre speed (m/min - ft/min)	10.5/34.44	10.5/34.44	14.5/47.57	10.5/34.44	10.5/34.44	10.5/34.44	10.5/34.44
Duty cycle (%)	INTENSIVE USE	50	30	50	50	INTENSIVE USE	50
Thrust (N)	800	850	850	1150	1500	1500	1650
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131						
Motor thermo protection (°C/°F)	150/302						

● 230 V AC - ● 230 – 400 V AC TRIPHASE

The full range



Code	Description
Complete automation systems with 230 V AC gearmotor	
001BK-800	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 800 Kg / 1,760 lb and max 20 m / 65.62 ft in length.
001BK-1200	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 1200 Kg / 2,640 lb and max 20 m / 65.62 ft in length.
001BK-1200P	Automation system complete with control board, radio decoder and PRATICO SYSTEM radio release system with a 12 V – 1.2 Ah battery for sliding gates of up to 1200 Kg / 2,640 lb and max 14 m / 45.93 ft in length.
001BK-1800	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 1800 Kg / 3,970 lb and 20 m / 65.62 ft in length.
001BK-2200	Automation system with module 6 pinion, complete with control board, radio decoder and mechanical endstops for sliding gates of up to 2200 Kg / 4,850 lb and max 20 m / 65.62 ft in length.
001BK-221	Operator with electronic card, on-board radio decoding and mechanical stop for sliding gates up to 20 m weighing up to 200 Kg.
001BKE-1200	Automation system complete with control board, radio decoder, encoder-based movement control device for sliding gates of up to 1200 Kg / 2,640 lb and max 13 m / 42.65 ft in length.
001BKE-1800	Automation system complete with control board, radio decoder, encoder-based movement control device for sliding gates of up to 1800 Kg / 3,970 lb and max 13 m / 42.65 ft in length.
001BKE-2200	Automation system complete with control board, radio decoder, encoder-based movement control device for sliding gates of up to 2200 Kg / 4,850 lb and max 13 m / 42.65 ft in length.
230 - 400 V 3-phase operator	
001BK-2200T	Operator for sliding gates of up to 2200 Kg / 4,850 lb and max 23 m / 75.45 ft with module 6 pinion.
230 - 400 V 3-phase control panels	
002ZT6	Control panel with radio decoder and auto-diagnosis of safety devices.
002ZT6C	Control panel complete with safety block and buttons, including radio decoder and auto-diagnosis of safety devices.
Accessories for chain transmission	
001R001	Lock cylinder with DIN key.
001B4353	Chain transmission device.
009CCT	1/2 in simple chain.
009CGIU	Joint for 1/2 in chain.
Racks	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in module 4.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in module 4 with securing holes and distancers.
Rack for: 001BK-2200 - 001BKE-2200 - BK-2200T	
009CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in module 6.



By-3500T

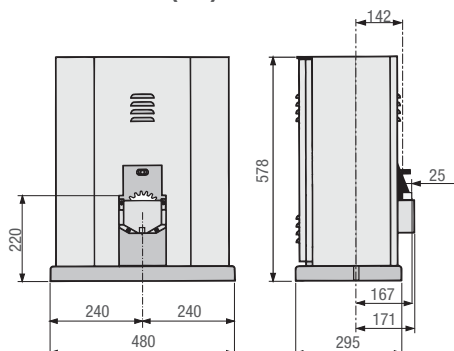
Gates up to 3500 Kg / 7,720 lb



Ideal solution for fitting onto very large gates under intensive use conditions

- For very large sliding gates.
- Can control auxiliary lighting in the passage area.
- Sturdy mechanics ensure exceptional performance.
- Self-diagnosing safety devices.
- Power supply via triphase voltage to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BY-3500T
Max gate-leaf weight (Kg/lb)	3500/7,720
Max gate-leaf length (m/ft)	23/75.45
Pinion module (m)	6

● 230 – 400 V AC TRIPHASE

Technical features

Type	BY-3500T
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 – 400 V AC TRIPHASE
Motor power supply (V - 50/60 Hz)	230 – 400 V AC TRIPHASE
Current draw (A)	2
Power (W)	750
Manoeuvre speed (m/min - ft/min)	10.5/34.44
Duty cycle (%)	50
Thrust (N)	3500
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	150/302

● 230 – 400 V AC TRIPHASE

The full range



CAME

Code

Description

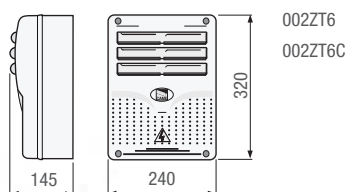
230 - 400 V 3-phase automation system	
001 BY-3500T	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 3500 Kg / 7.7 lb and max 23 m / 75.45 ft in length with module 6 pinion.
Cable collecting devices	
001 BRC15	Power cable collecting device for safety sensitive edges for sliding gates of up to 15 m / 49.21 ft in length.
001 BRCP	Aluminium profile for extension L = 5.10 m / 16.4 ft to couple with a 001BRC15. Application example: on 15 m / 49.21 ft sliding gate set up n. 1 001BRC15 + n. 3 001BRCP.
Racks	
009 CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in module 6.



Electronic features

The table shows all of the features of the sliding-gate operator specific control panels. Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)



The models

										
	BX-243 BX-243C	BX-74 BX-78	BX-P	BX-246	BX-10	BK-800 BK-1200 BK-1800 BK-2200	BKE-1200 BKE-1800 BKE-2200	BK-1200P	BK-221	BK-2200T BY-3500T
Type	ZN2	ZBX74 ZBX-78	ZBX8	ZD2	ZBX10	ZBK	ZBKE	ZBK8	ZBK10	ZT6 ZT6C

SAFETY

SELF-DIAGNOSIS of safety devices	●			●	●	●	●	●	●	●
Opening and closing PRE-FLASHING	●	●	●	●	●	●	●	●	●	●
RE-OPENING during closing	●	●	●	●	●	●	●	●	●	●
RE-CLOSING during opening	●	●		●	●	●	●		●	●
Obstacle STALL					●				●	
TOTAL STOP	●	●	●	●	●	●	●	●	●	●
PARTIAL STOP	●	●	●	●	●	●	●	●	●	●
OBSTACLE DETECTION in front of photocells	●	●	●	●	●	●	●	●	●	●
ENCODER	●						●			
MOVEMENT CONTROL and OBSTACLE DETECTION device		●		●	●				●	
AMPEROMETRIC DETECTION	●			●						

COMMAND

1 leaf PEDESTRIAN OPENING										
1 leaf PARTIAL OPENING	●	●	●	●	●	●	●	●	●	●
OPEN ONLY from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
OPEN ONLY or CLOSE ONLY button connection				●**	●	●	●	●	●	●
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
MAINTAINED ACTION	●	●	●	●	●	●	●	●	●	●
1st leaf DELAYED OPENING										
2nd LEAF DELAYED CLOSING										
IMMEDIATE CLOSING										
EMERGENCY RELEASE from the transmitter			●					●		

FEATURES AND SETTINGS

FLASHING LIGHT connection	●	●	●	●	●	●	●	●	●	●
CYCLE LAMP connection		●	●		●	●	●		●	●
COURTESY LAMP connection					●	●	●		●	●
Antenna	●	●	●	●	●	●	●	●	●	●
OPEN WARNING LIGHT connection	●	●	●	●	●	●	●	●	●	●
CLOSE WARNING LIGHT connection		●	●							●
Contact output for 2nd RADIO CHANNEL		●		●		●	●			●
RUNNING TIME adjustment					●				●	
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●	●	●	●	●	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection										
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	●	●	●	●	●	●	●	●
OPENING and/or CLOSING slow-down	●	●		●	●				●	
EMERGENCY BATTERY operation (option)	●			●						
MASTER-SLAVE						●	●			●
Adjustable RUNNING and SLOW-DOWN SPEED	●	●*		●	●*				●*	
Signalling DISPLAY					●				●	
Electronic BRAKE		●		●	●	●	●		●	●
Opening and closing endstop SELF-LEARNING										

● 230 – 400 V AC TRIPHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

NOTES

* For the 001BX-10 - 001BX-74 and 001BX-78 slow-down speed only.

** For the 001BX-246 OPEN ONLY feature.

Operators for: **SWING GATES**

78	Your selection guide
80	Frog-J
82	Myto
84	Stylo
86	Amico
88	Axo
90	Ati
94	Krono
96	Frog
100	Frog Plus
102	Fast40
104	Ferni
106	Super Frog
108	Electronic features
109	Control panels for: SWING GATES

Your selection guide

Swing gate operators

The table summarises the series and models with their maximum limits to use based only on the gate-leaf width.

Series	Model	Max gate leaf-width (m/ft)	C MAX (mm/in)
Frog	Frog-AV	1.3/4.2	-
Myto	MYTO-ME	1.8/6	0-150/0-5.9
Stylo	001STYLO-RME	N	0-180/0-7.08
	STYLO-BS		0-150/0-5.9
	STYLO-ME		0-180/0-7.08
	STYLO-BD		0-150/0-5.9
Amico	A1824		60/2.36 (90°)
Frog-J	FROG-J		-
Amico	A18230	2.2/7.2	60/2.36 (90°)
Fast40	FA40230CB	N	200/7.87
	FA40230		200/7.87
	FA4024CB		200/7.87
	FA40230		200/7.87
Ati	A3000A	3/10	60/2.36 (90°)
	A3100A		60/2.36 (90°)
	A3024N		70/2.75 (90°)
	A3000		60/2.36 (90°)
	A3100		60/2.36 (90°)
	A3106		60/2.36 (90°)
	A3006		60/2.36 (90°)
Axo	AX302304		70/2.75 (90°)
	AX312304		70/2.75 (90°)
	AX3024		70/2.75 (90°)
Krono	KR300D - KR302D		60/2.36 (90°)
	KR300S - KR302S		60/2.36 (90°)
	KR310D - KR310S		60/2.36 (90°)
Frog	FROG-A	3.5/11.5	-
	FROG-AE		-
	FROG-A24		-
	FROG-A24E		-
Axo	AX402306	4/13	150/5.9 (90°)
	AX412306		150/5.9 (90°)
Ferni	FE40230V	N	380/14.96
	FE4024V		380/14.96
	FE40230		380/14.96
	FE4024		380/14.96
Axo	AX5024	5/16	120/4.72 (90°)
Ati	A5000A		120/4.72 (90°)
	A5100A		120/4.72 (90°)
	A5024N		120/4.72 (90°)
	A5000		120/4.72 (90°)
	A5100		120/4.72 (90°)
	A5006		120/4.72 (90°)
	A5106		120/4.72 (90°)
Krono	KR510D - KR510S		120/4.72 (90°)
Frog Plus	FROG-PM4	5.5/18.04	-
Axo	AX71230	7/23	120/4.72 (90°)
Frog Plus	FROG-PM6		-
Super Frog	FROG-MD - FROG-MS	8/26	-

● 230 V AC - ● 24 V DC INTENSIVE USE - ● 230 - 400 V AC TRIPHAS



Underground OPERATOR

So low-profile you'll hardly know it's there. It provides more passage width room when space is an issue.

Series: Frog-J - Myto - Frog - Frog Plus - Super Frog



External OPERATOR

Simple installation requiring no prep work. The most popular product when it comes to swing-gate operators.

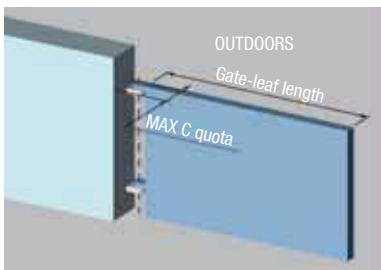
Series: Ati - Axo - Krono - Myto - Amico



Operator with ARTICULATED ARM

When little room is available, instead of a traditional above-ground operator, one with an articulated arm solves the space issue.

Series: Stylo - Fast40 - Ferni



MAXIMUM C QUOTA on swing gates

Distance between the post edge and the centre axis of on which the gate is fitted.

The flashing light: additional safety!

Came suggests also fitting a flashing light to warn when mechanical parts are moving.

KIAROIN and KIARO24IN let you easily programme any periodic maintenance required by law, thanks to its manoeuvre counter feature. Installers set the number of cycles and, once the limit is reached, an additional light signal warns that scheduled maintenance is required.



Frog-J

Gate-leaves up to 1.8 m / 6 ft

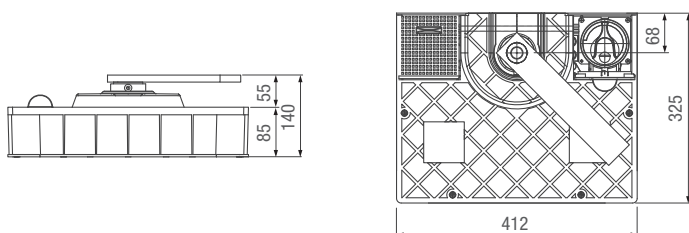


Hide-away solution to apply to residential gates

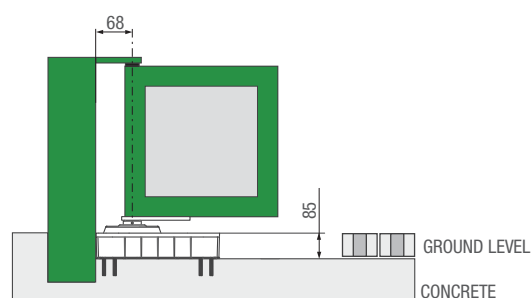


- Tested according to the parameters dictated by current rules and regulations.
- Release system protected by water-tight hatch, with customised key, reachable from either inside or outside.
- Encoder-based movement control
- Can work in emergency mode during power outages.
- Self-diagnosing safety devices.
- Simplified connections with a single, three-conductor cable.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	FROG-J
Max gate-leaf width (m/ft)	1.8/6
Max gate-leaf weight (Kg/lb)	200/441
Max gate-leaf opening (°)	105

● 24 V DC












Technical features

Type	FROG-J
Protection rating IP	IP67
Power supply (V - 50/60 Hz)	230 AC
Motor Power supply (V - 50/60 Hz)	24 DC
Current draw (A)	10 MAX
Power (W)	240
Opening times at 90° (s)	ADJUSTABLE
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	260
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The full range



Code	Description
24 V DC underground operator and control panels tested in compliance with EN12453 - EN12445	
001 FROG-J	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.
  	
002 ZLJ14	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
 	
002 ZL92	Control panel for two-leaf swing gates with radio decoder.
 	
002 ZLJ24	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
 	
Accessories for: 002ZL92 - 002ZLJ14	
002 LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Accessories for: 002ZLJ24	
002 LB180	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Mandatory accessories	
001 FROG-JC	Foundation casing.
001 A4617	Release group with customized key.

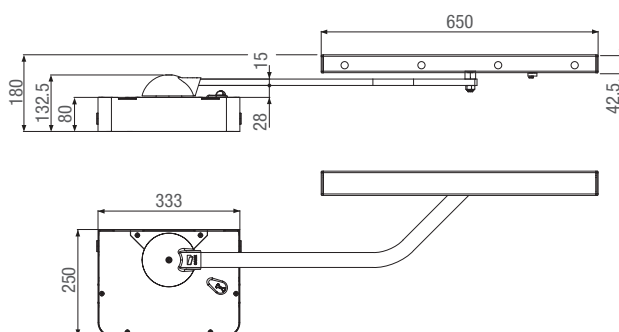




Hide-away or surface-mounted solution for residential gates

- Tested according to the parameters dictated by current rules and regulations.
- Release system with lever key protected by sliding hatch.
- Encoder-based movement control.
- Can work in emergency mode during power outages.
- Self-diagnosing safety devices.
- Simplified connections with a single, three-conductor cable.
- For both above and below ground installations.

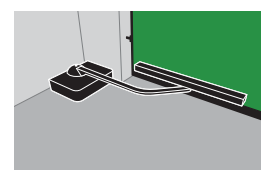
Dimensions (mm)



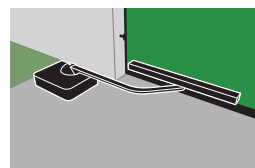
Applications



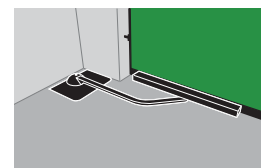
Below ground motor in standard position.



Above ground motor in lateral position (when space is an issue).



Above ground motor in standard position.



Below ground motor in lateral position (when space is an issue).

Limits to use

MODEL	MYTO-ME
Max gate-leaf width (m/ft)	1.8/6
Max gate-leaf weight (Kg/lb)	200/441
Max gate-leaf opening (°)	125

● 24 V DC

Technical features












Type	MYTO-ME
Protection rating IP	IP67
Power supply (V - 50/60 Hz)	230 AC
Motor Power supply (V - 50/60 Hz)	24 DC
Current draw (A)	10 MAX
Power (W)	240
Opening times at 90° (s)	ADJUSTABLE
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	260
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The full range



Description

24 V DC external operator and control panels tested in compliance with EN12453 - EN12445	
001 MYTO-ME	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.
  	
002 ZLJ14	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
 	
002 ZL92	Control panel for two-leaf swing gates with radio decoder.
 	
002 ZLJ24	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
 	
Accessories for: 002ZL92 - 002ZLJ14	
002 LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Accessories for: 002ZLJ24	
002 LB180	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Mandatory accessories	
001 MYTO-C	Foundation casing for external fixing or for underground installation.
001 MYTO-BD	Transmission arm and slide guide.

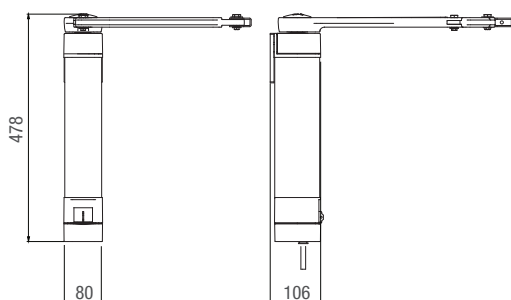




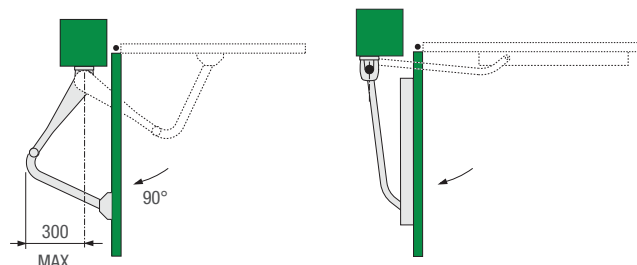
Ideal solution to fit onto small gate posts

- Encoder-based movement control
- Tested according to the parameters dictated by current rules and regulations.
- When installing onto gates with posts even just 8 cm wide, and even up against a wall or fence, thanks to the straight slide-arm option.
- Can work in emergency mode during power outages.
- Reliable and sturdy even if small, thanks to the system's self-locking mechanism.
- Release system with customised key.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	STYLO-ME STYLO-RME		
Max gate-leaf width (m/ft)	1.8/6	1.2/3.9	0.8/2.6
Max gate-leaf weight (Kg/lb)	100/220	125/275	150/330
Max gate-leaf opening (°)	120 (with 001STYLO-BS) - 135 (with 001STYLO-BD)		

● 24 V DC

Technical features

Type	STYLO-ME STYLO-RME
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor Power supply (V - 50/60 Hz)	24 DC
Current draw (A)	5 MAX
Power (W)	48
Opening times at 90° (s)	ADJUSTABLE
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	100
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The full range



Code	Description
24 V DC external operators and control panel tested in compliance with EN12453 - EN12445	
001 STYLO-ME	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.
002 ZL92	
Control panel for two-leaf swing gates with radio decoder.	
24 V DC external operators and control panel tested in compliance with EN12453 - EN12445	
001 001STYLO-RME	Reversible operator with encoder for gate leaves of up to 1.8 m / 6 ft.
002 ZL92	
Control panel for two-leaf swing gates with radio decoder.	
Accessories for: 002ZL92	
002 LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001 STYLO-BS	Articulated transmission arm.
001 STYLO-BD	Straight transmission arm and slide guide.
Accessories for: 001STYLO-RME	
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.

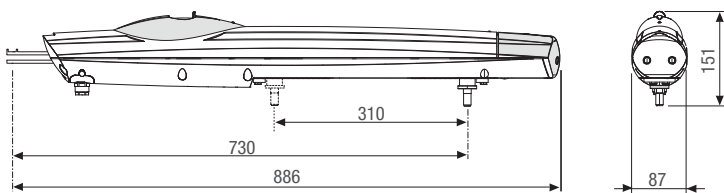


The ideal solution for residential gates

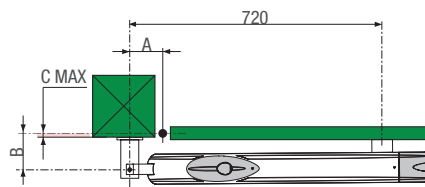
- Refined and exclusive design.
- Release system with triangular key.
- Adjustable mechanical stops for memorising the gate run.
- Simplifies connections with a single, three-conductor cable.
- Supporting diecast aluminium half-shells.
- The worm screw is always protected thanks to a specific covering.
- Can work in emergency mode during power outages.
- Self-diagnosing safety devices.
- Tested according to the parameters dictated by current rules and regulations.



Dimensions (mm)



Application (mm)



Limits to use

MODEL	A1824		
Max gate-leaf width (m/ft)	1.8/6	1.5/5	1/3.3
Max gate-leaf weight (Kg/lb)	200/441	215/474	250/550
MODEL	A18230		
Max gate-leaf width (m/ft)	2.2/7.2	1.7/5.6	1/3.3
Max gate-leaf weight (Kg/lb)	200/441	225/496	250/550

● 230 V AC - ● 24 V DC

Application dimensions (mm/in)

MODEL	A1824 - A18230		
GATE-LEAF OPENING (°)	A	B	C MAX
90°	130/5.11	130/5.11	60/2.36
120°	130/5.11	110/4.33	50/1.96

● 230 V AC - ● 24 V DC

Technical features

Type	A1824	A18230
Protection rating IP	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor Power supply (V - 50/60 Hz)	24 DC	230 AC
Current draw (A)	4 MAX	1.2
Power (W)	100	80
Opening times at 90° (s)	ADJUSTABLE	19
Duty cycle (%)	INTENSIVE USE	50
Thrust (N)	400 ÷ 2000	400 ÷ 2000
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	-	150/302

● 230 V AC - ● 24 V DC

The full range



Code	Description
230 V AC external operator	
001 A18230	Self-locking operator for gate leaves of up to 2.2 m / 7.2 ft.
Control panel for 230 V AC operators	
002 ZA3N	Multifunction control panel for two-leaf swing gates with radio decoder.
24 V DC external operator and control panels tested in compliance with EN12453 - EN12445	
001 A1824	Self-locking operator with encoder for gate leaves of up to 1.8 m / 6 ft.
002 ZLJ14	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
002 ZL92	Control panel for two-leaf swing gates with radio decoder.
002 ZLJ24	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
Accessories for: 002ZLJ14 - 002ZL92	
002 LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories for: 002ZLJ24	
002 LB180	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.

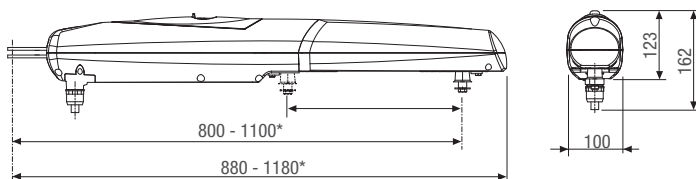




Ideal solution for fitting on gates in apartment block and residential settings

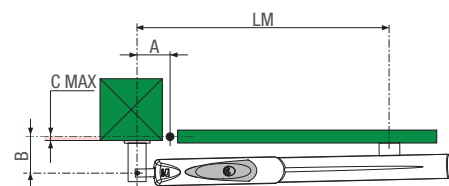
- Tested according to the parameters dictated by current rules and regulations.
- The 24 V versions can also operate during power outages.
- Available in both reversible and self-locking versions.
- The worm screw is always protected thanks to a specific covering.
- The 24 V version has a simplified connection system with a single three-conductor cable for managing both motor and encoder.
- Encoder technology for managing slow-downs.
- Adjustable mechanical stops for memorising gate run.
- Supporting diecast aluminium half-shells.
- Even for gates with gate-leaves up to 7 m / 23 ft.

Dimensions (mm)



* AX5024 - AX71230

Applications



Application dimensions (mm/in)

MODEL	AX302304 - AX312304 - AX3024	AX402306 - AX412306	AX5024 - AX71230
GATE-LEAF OPENING (°)	A	B	C MAX LM
90°	130/5.11	130/5.11	70/2.75 800/31.49
120°	140/5.51	100/3.93	50/1.96 800/31.49
MODEL	AX5024 - AX71230		
90°	200/7.87	220/8.66	150/5.9 1100/43.30
120°	220/8.66	220/8.66	100/3.93 1100/43.30

● 230 V AC - ● 24 V DC

Limits to use

MODEL	AX302304 - AX312304 - AX3024				
Max gate-leaf width (m/ft)	3/10	2.5/8.2	2/6.6		
Max gate-leaf weight (Kg/lb)	500/1,100	600/1,330	800/1,770		
MODEL	AX402306 - AX412306				
Max gate-leaf width (m/ft)	*4/13	3/10	2.5/8.2	2/6.6	
Max gate-leaf weight (Kg/lb)	300/660	500/1,100	600/1,330	800/1,770	
MODEL	AX5024				
Max gate-leaf width (m/ft)	*5/16	*4/13	3/10	2.5/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	500/1,100	700/1,543	800/1,770	1000/2,200
MODEL	AX71230				
Max gate-leaf width (m/ft)	**7/23	**6/19.7	*5/16	*4/13	3/10
Max gate-leaf weight (Kg/lb)	300/660	350/772	400/880	500/1,100	700/1,543

● 230 V AC - ● 24 V DC

NOTE:

*The electric lock on the gate leaf is mandatory.

° Gate-leaves larger than 5 m / 16 ft must not be clad in panels.

In the reversible versions, if the gate is opened due to strong winds, the gate-leaf could close back.
























Technical features

Type	AX302304-AX312304	AX402306-AX412306	AX3024	AX5024	AX71230
Protection rating IP	IP44	IP44	IP44	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC
Motor Power supply (V - 50/60 Hz)	230 AC	230 AC	24 DC	24 DC	230 AC
Current draw (A)	1.5	1.5	10 MAX	10 MAX	1.5
Power (W)	175	175	120	120	175
Opening times at 90° (s)	20	28	ADJUSTABLE	ADJUSTABLE	40
Duty cycle (%)	50	30	INTENSIVE USE	INTENSIVE USE	30
Thrust (N)	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500
Operating temperature (°C/°F)			-20 ÷ +55 / -4 ÷ +131		
Motor thermo protection (°C/°F)	150/302	150/302	-	-	150/302

● 230 V AC - ● 24 V DC

The full range



Code	Description
230 V AC external operators and control panel tested in compliance with EN12453 - EN12445	
001 AX302304  	Self-locking operator with encoder for gate leaves of up to 3 m / 10 ft (opening time 90° 20 s).
001 AX312304  	Reversible operator with encoder for gate leaves of up to 3 m / 10 ft opening time 90° 20 s).
001 AX402306  	Self-locking operator with encoder for gate leaves of up to 4 m / 13 ft (opening time 90° 28 s).
001 AX412306  	Reversible operator with encoder for gate leaves of up to 4 m / 13 ft (opening time 90° 28 s).
001 AX71230  	Reversible operator with encoder for gate leaves of up to 7 m / 23 ft (opening time 90° 40 s).
002 ZM3E 	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
24 V DC external operators and control panels tested in compliance with EN12453 - EN12445	
001 AX3024   	Self-locking operator with encoder for gate leaves of up to 3 m / 10 ft (adjustable 90° opening time).
001 AX5024   	Self-locking operator with encoder for gate leaves of up to 5 m / 16 ft (adjustable 90° opening time).
002 ZLJ14  	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
002 ZLJ24  	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
Accessories for: 002ZLJ14	
002 LB90 	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories for: 002ZLJ24	
002 LB180 	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.



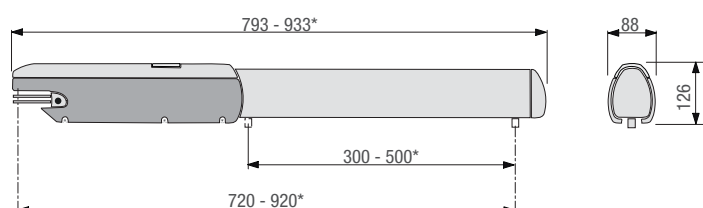
Gate-leaves up to 5 m / 16 ft

Ideal solution for fitting on gates in apartment block and residential settings



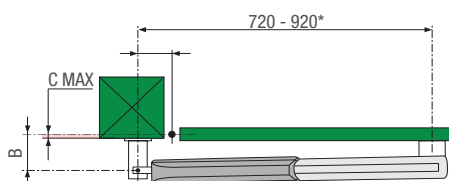
- The 24 V versions can also operate during power outages.
- Available in both reversible and self-locking versions.
- Amperometric obstacle detection.
- The worm screw is always protected thanks to a specific covering.
- The 24 V DC version has a simplified connection system with a single three-conductor cable for managing both motor and encoder.

Dimensions (mm)



* A5000 - A5000A - A5100 - A5100A - A5106 - A5006 - A5024N

Application (mm)



Limits to use

MODEL	A3000 - A3000A - A3100 - A3100A - A3106 - A3006 - A3024N				
Max gate-leaf width (m/ft)	3/10		2.5/8.2		2/6.6
Max gate-leaf weight (Kg/lb)	400/880		600/1,330		800/1,770
MODEL	A5000 - A5000A - A5100 - A5100A - A5106 - A5006 - A5024N				
Max gate-leaf width (m/ft)	*5/16	*4/13	3/10	2.5/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	500/1,100	600/1,330	800/1,770	1000/2,200

● 230 V AC - ● 24 V DC

Application dimensions (mm)

MODEL	A3000 - A3000A - A3100 - A3100A - A3106 - A3006 - A3024N		
GATE-LEAF OPENING (°)	A	B	C MAX
90°	130/5.11	130/5.11	60
120°	130/5.11	110/4.33	50/1.96
MODEL	A5000 - A5000A - A5100 - A5100A - A5106 - A5006 - A5024N		
90°	200/7.87	200/7.87	120/4.72
120°	200/7.87	140/5.51	70/2.75

● 230 V AC - ● 24 V DC

Technical features

Type	A3000 - A3000A - A3100 - A3100A - A5000 - A5000A - A5100 - A5100A	A3006 - A3106 - A5006 - A5106	A3024N - A5024N
Protection rating IP	IP44		IP44
Power supply (V - 50/60 Hz)	230 AC		230 AC
Motor Power supply (V - 50/60 Hz)	230 AC		24 DC
Current draw (A)	1.2		10 MAX
Power (W)	150		120
Opening times at 90° (s)	19 ÷ 32		ADJUSTABLE
Duty cycle (%)	50		INTENSIVE USE
Thrust (N)	400 ÷ 3000		400 ÷ 3000
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131		
Motor thermo protection (°C/°F)	150/302		-

● 230 V AC - ● 24 V DC

The full range







Code	Description
230 V AC external operators	
001 A3000	Self-locking operator for gate leaves of up to 3 m / 10 ft (opening time 90° 19 s).
001 A3000A	Self-locking operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches (opening time 90° 19 s).
001 A3100	Reversible operator for gate leaves of up to 3 m / 10 ft (opening time 90° 19 s).
001 A3100A	Reversible operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches (opening time 90° 19 s).
001 A3006	Self-locking operator for gate leaves of up to 3 m / 10 ft (opening time 90° 28 s).
001 A3106	Reversible operator for gate leaves of up to 3 m / 9.84 ft (opening time 90° 28 s).
001 A5000	Self-locking operator for gate leaves of up to 5 m / 16 ft (opening time 90° 32 s).
001 A5000A	Self-locking operator for gate leaves of up to 5 m / 16 ft with built-in gate-leaf stop microswitches (opening time 90° 32 s).
001 A5100	Reversible operator for gate leaves of up to 5 m / 16 ft (opening time 90° 32 s).
001 A5100A	Reversible operator for gate leaves of up to 5 m / 16 ft with built-in gate-leaf stop microswitches (opening time 90° 32 s).
001 A5006	Self-locking operator for gate leaves of up to 5 m / 16 ft (opening time 90° 45 s)..
001 A5106	Reversible operator for gate leaves of up to 5 m / 16 ft (opening time 90° 45 s).
Control panels for 230 V AC operators	
002 ZA3N	Multifunction control panel for two-leaf swing gates with radio decoder.
002 ZM3E	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.



The full range



Code	Description
24 V DC external operators and control panel tested in compliance with EN12453 - EN12445	
001 A3024N 	Self-locking operator for gate leaves of up to 3 m / 10 ft (adjustable 90° opening time).
001 A5024N 	Self-locking operator for gate leaves of up to 5 m / 16 ft (adjustable 90° opening time).
002 ZL180 	Control panel for two-leaf swing gates with radio decoder.
Accessories for: 002ZL180	
002 LB180 	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.
001 D001	Lock cylinder with DIN key.
001 H3000	Safety casing complete with release toggle and command button for the L = 5 m / 16.4 ft pull-cord release.



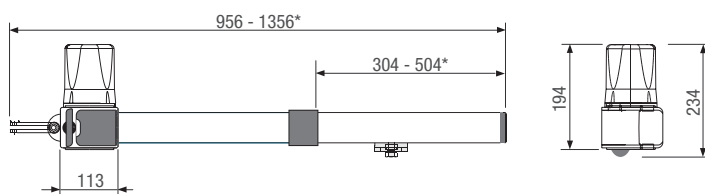
Gate-leaves up to 5 m / 16 ft

Ideal solution for fitting onto stylish gates

- Aluminium structure.
- The opening and closing endpoint micro-switches are for adjusting the gate-leaf stopping position.
- A staple of Came tradition.

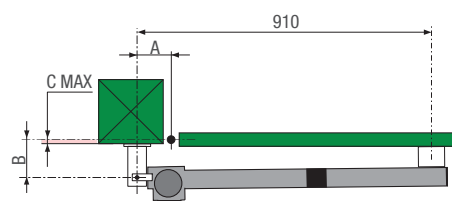


Dimensions (mm)



* KR510D - KR510S

Application (mm)



Limits to use

MODEL	KR300D - KR300S - KR302D - KR302S - KR310D - KR310S			
Max gate-leaf width (m/ft)	3/10 2.5/8.2 2/6.6			
Max gate-leaf weight (Kg/lb)	400/880 600/1,330 800/1,770			
MODEL	KR510D - KR510S			
Max gate-leaf width (m/ft)	5/16	4/13	3/10	2.5/8.2
Max gate-leaf weight (Kg/lb)	400/880	500/1,100	600/1,330	800/1,770

● 230 V AC

Application dimensions (mm)

MODEL	KR300D - KR300S - KR302D - KR302S - KR310D - KR310S		
GATE-LEAF OPENING (°)	A	B	C MAX
90°	130/5.11	130/5.11	60
120°	130/5.11	110/4.33	50/1.96
MODEL	KR510D - KR510S		
90°	200/7.87	200/7.87	120/4.72
120°	200/7.87	140/5.51	70/2.75

● 230 V AC

Technical features

Type	KR300D - KR300S - KR310D - KR310S		KR302D - KR302S	KR510D - KR510S
Protection rating IP	IP54		IP54	IP54
Power supply (V - 50/60 Hz)	230 AC		230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC		230 AC	230 AC
Power draw (A)	1.1		1.1	1.1
Power rating (W)	130		130	130
Opening times at 90° (s)	22		18	34
Duty cycle (%)	30		30	30
Thrust (N)	400 ÷ 3000		400 ÷ 3000	400 ÷ 3000
Working time (°C/°F)			-20 ÷ +55 / -4 ÷ +131	
Motor heat protection (°C/°F)			150/302	

● 230 V AC

The full range



Code	Description
230 V AC external operators	
001 KR300D	Right-hand self-locking operator for gate leaves of up to 3 m / 10 ft.
001 KR300S	Left-hand self-locking operator for gate leaves of up to 3 m / 10 ft.
001 KR302D	Right-hand self-locking operator for gate-leaves of up to 3 m / 10 ft (fast version).
001 KR302S	Left-hand self-locking operator for gate-leaves of up to 3 m / 10 ft (fast version).
001 KR310D	Right-hand self-locking operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.
001 KR310S	Left-hand self-locking operator for gate leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.
001 KR510D	Right-hand self-locking operator for gate leaves of up to 5 m / 16 ft with built-in gate-leaf stop microswitches.
001 KR510S	Left-hand self-locking operator for gate leaves of up to 5 m / 16 ft with built-in gate-leaf stop microswitches.
Control panels for 230 V AC operators	
002 ZA3N	Multifunction control panel for two-leaf swing gates with radio decoder.
002 ZM3E	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
Accessories	
001 KR001	Lock cylinder with DIN key.

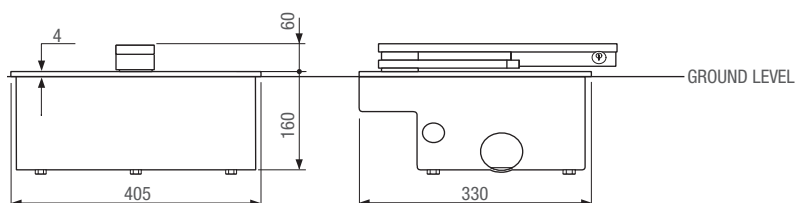




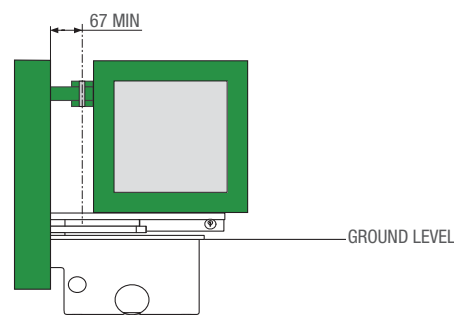
Hide-away solution ideal for fitting to gates in apartment blocks or residential settings

- The invisible gate-operating solution.
- High degree of protection (IP67) from weather agents.
- Automatic re-lock of the system after a manual override release of the gate.
- Can open up to 180° (with the 001FL-180 accessory).
- 001FROG-AE and 001FROG-A24E with encoder technology, tested according to the parameters established by law.
- The 24 V versions can also operate during power outages.
- Special cataphoresis rust-proof treated steel foundation casing.
- Built-in adjustable mechanical stops.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	FROG-AV			
Max gate-leaf width (m/ft)	1.3/4.2			
Max gate-leaf weight (Kg/lb)	300/660			
MODEL	FROG-A - FROG-AE			
Max gate-leaf width (m/ft)	*3.5/11.5	*2.5/8.2	2/6.6	-
Max gate-leaf weight (Kg/lb)	400/880	600/1,320	800/1,770	-
MODEL	FROG-A24 - FROG-A24E			
Max gate-leaf width (m/ft)	*3.5/11.5	*2.5/8.2	2/6.6	-
Max gate-leaf weight (Kg/lb)	400/880	600/1,320	800/1,770	-

● 230 V AC - ● 24 V DC

NOTE:

*We suggest fitting an electric lock on the gate leaf.
Max gate-leaf opening°.








Technical features

Type	FROG-A	FROG-AV	FROG-AE	FROG-A24 - FROG-A24E
Protection rating IP	IP67	IP67	IP67	IP67
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	24 DC
Power draw (A)	1.9	2.5	1.9	15 MAX
Power rating (W)	200	300	200	180
Opening times at 90° (s)	18	9	18	ADJUSTABLE
Duty cycle (%)	30	30	30	INTENSIVE USE
Thrust (N)	320	240	320	320
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			
Motor heat protection (°C/°F)	150/302	150/302	150/302	-

● 230 V AC - ● 24 V DC

The full range



Code	Description
230 V AC underground operators	
001 FR0G-A	Self-locking operator for gate leaves of up to 3.5 m / 11.5 ft.
001 FR0G-AV	Self-locking operator for gate leaves of up to 1.3 m / 4.2 ft (fast version)..
Control panels for 230 V AC operators	
002 ZA3N	Multifunction control panel for two-leaf swing gates with radio decoder.
002 ZM3E	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
230 V AC underground operator and control panel tested in compliance with EN12453 - EN12445	
001 FR0G-AE  	Self-locking operator with encoder for gate leaves of up to 3.5 m / 11.5 ft.
002 ZM3E 	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
24 V DC underground operator and control panels tested in compliance with EN12453 - EN12445	
001 FR0G-A24  	Self-locking operator for gate leaves of up to 3.5 m / 11.5 ft.
002 ZL170N  	Control panel for one-leaf swing gates with radio decoder.
002 ZL19N  	Control panel for two-leaf swing gates with radio decoder.
24 V DC underground operator and control panels tested in compliance with EN12453 - EN12445	
001 FR0G-A24E   	Self-locking operator with encoder for gate leaves of up to 3.5 m / 11.5 ft.
002 ZLJ14  	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
002 ZLJ24  	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.



The full range



Code	Description
Accessories for: 002ZL170N - 002ZL19N	
002 LB18	Casing with emergency card, fitted to house n. 3 12 V - 7 Ah batteries.
	
Accessories for: 002ZLJ14	
002 LB90	Card for connecting n. 2 12 V - 1.2 Ah emergency batteries.
	
Accessories for: 002ZLJ24	
002 LB180	Card for connecting n. 2 12 V - 1.2 Ah emergency batteries.
	
Accessories for: 001FROG-A24E	
001 FL-180	Chain driven transmission lever for opening arcs of up to 180° for gate leaves no wider than 2 m / 6.56 ft.
Accessories	
001 FROG-CF	Steel foundation casing with corrosion-resistant cataphoresis surface treatment with adjustable opening gate-leaf stop.
001 FROG-CFI	AISI 304 steel foundation casing, with adjustable opening gate-leaf stop.
001 A4364	Lever key release.
001 A4365	Triangular key release.
001 A4366	Customized key release and EURO-DIN cylinder.
001 A4370	Transmission lever for opening arcs of up to 140° for gate leaves no wider than 2 m / 6.56 ft.
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.



Frog Plus

Gate-leaves up to 7 m / 23 ft

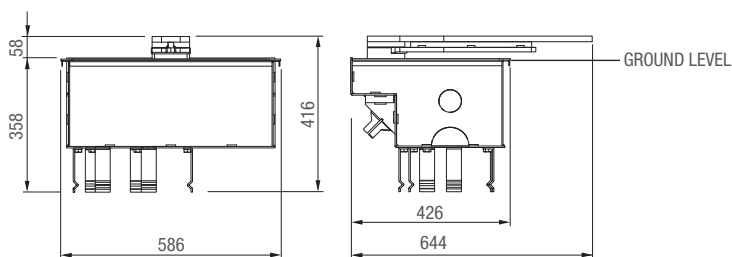


Hide-away solution ideal for fitting to gates in apartment blocks or industrial settings

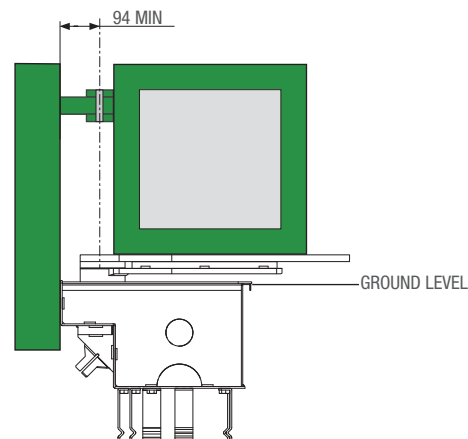
- The invisible gate-operating solution.
- High degree of protection (IP67) from weather agents.
- Built-in opening and closing limit switches for quick and easy adjusting of the gate leaf stop points.
- Encoder-based technology for total movement control.
- Powered at 230 V AC with 6 poles, for optimal system use.



Dimensions (mm)



Application (mm)



Limits to use

MODEL	FROG-PM4		
Max gate-leaf width (m/ft)	5.5*/18.04	4.5*/14.76	3.5*/11.5
Max gate-leaf weight (Kg/lb)	700/1,543	900/1,984	1100/2,425
MODEL	FROG-PM6		
Max gate-leaf width (m/ft)	7*/23	5*/16	5*/16
Max gate-leaf weight (Kg/lb)	550/1,212	650/1,433	800/1,770

● 230 V AC

NOTE:

*The electric lock on the gate leaf is mandatory.



Technical features

Type	FROG-PM4	FROG-PM6
Protection rating IP	IP67	IP67
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC
Power draw (A)	5.1	2.6
Power rating (W)	1200	600
Opening times at 90° (s)	30	45
Duty cycle (%)	50	50
Thrust (N)	800	800
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Motor heat protection (°C/°F)	150/302	

● 230 V AC

The full range



Code	Description
230 V AC underground operators	
001 FROG-PM4 	Self-locking operator with encoder for gate leaves of up to 5.5 m / 18.04 ft.
001 FROG-PM6 	Self-locking operator with encoder for gate leaves of up to 7 m / 22.96 ft.
Control panels for 230 V AC underground operators	
002 ZM3EP	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
Accessories	
001 FROG-PC	Cataphoresis rust-proof treated steel foundation casing complete with transmission lever with adjustable opening gate-leaf stop.
001 A4801	Endstop.
001 A4364	Lever key release.
001 A4365	Triangular key release.
001 A4366	Customized key release and EURO-DIN cylinder.
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.



Fast40

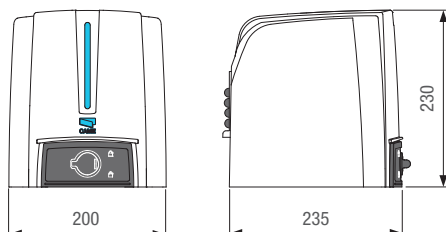
Gate-leaves up to 2.3 m / 7.5 ft



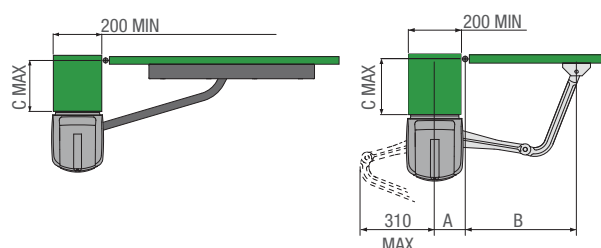
The ideal solution for fitting on medium and large gate posts in residential or apartment block settings

- For quick and easy fitting, even on medium to large gate posts.
- Handy release lever for manually opening the gate.
- All models are fitted with simplified connections featuring one single three-conductor cable.
- The 24 V versions can also operate during power outages.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	FA40230CB - FA40230 - FA4024CB - FA4024			
Max gate-leaf width (m/ft)	2.3/7.5	2/6.56	1.5/4.92	1/3.28
Max gate-leaf weight (Kg/lb)	200/441	215/474	250/551	300/661

● 230 V AC - ● 24 V DC

Application dimensions (mm/in)

MODEL	ALL MODELS		
GATE-LEAF OPENING (°)	A	C MAX	B
90°	140/5.51	0÷200/0÷7.87	420/16.53
90°	160÷180/6.29÷7.08	200/7.87	380/14.96
110°	200÷220/7.87÷8.66	0÷50/0÷1.96	400/15.74

Technical features

Type	FA40230CB - FA40230	FA4024CB - FA4024
Protection rating IP	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor Power supply (V - 50/60 Hz)	230 AC	24 DC
Current draw (A)	1.4	11 MAX
Power (W)	160	140
Opening times at 90° (s)	18	ADJUSTABLE
Duty cycle (%)	30	INTENSIVE USE
Torque (Nm)	180	180
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	150/302	-

● 230 V AC - ● 24 V DC

The full range

Code	Description
Complete automation system with 230 V AC gearmotor tested in compliance with EN 12453 - EN 12445	
001FA40230CB	Automation system complete with control board and articulated transmission arm, for swing gate leaves of up to 2.3 m / 7.5 ft.
230 V AC external operator tested in compliance with EN 12453 - EN 12445	
001FA40230	Self-locking operator complete with articulated transmission arm for swing gate leaves up to 2.3 m / 7.5 ft.
Complete automation system with 24 V DC gearmotor tested in compliance with EN 12453 - EN 12445	
001FA4024CB	Automation system complete with control board and articulated transmission arm, for swing gate leaves of up to 2.3 m / 7.5 ft.
24 V DC external operator tested in compliance with EN 12453 - EN 12445	
001FA4024	Self-locking operator complete with articulated transmission arm for swing gate leaves up to 2.3 m / 7.5 ft.
Accessory for: 001FA4024CB	
002LBF40	Card for connecting two 12 V - 1.2 Ah emergency batteries.
Accessory for: 001FA40230	
001FA001	LED electronic card.
Accessories	
001LOCK81	Electric lock with single cylinder.
001LOCK82	Electric lock with double cylinder.
001STYLO-BD	Straight transmission arm and slide guide.
001H3000	Safety casing complete with release toggle and command button for the L = 5 m / 16.4 ft pull-cord release.



ENERGY SAVINGS

The control panel features SLEEP MODE which guarantees energy savings.



FA4024CB adapts perfectly to the new ZERO-E solar power panel

Zero-E can be integrated, by applying it to a wall or post, with the new Fast40 swing gate operator, in the 24 V DC version (001FA4024CB).

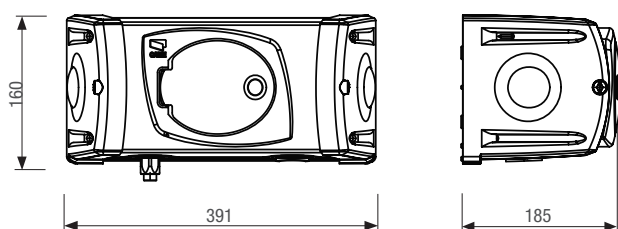
Thanks to the SLEEP MODE technology on the Fast40 control board, Zero-E works even in locations that are off the municipal power grid.



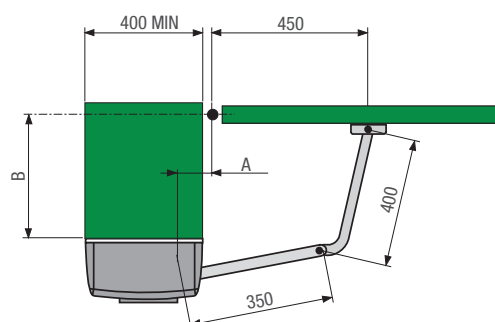
The ideal solution to apply to large gate posts in residential or apartment block settings

- Innovative design for a high-end product engineered to meet market demand.
- Elegant, sturdy and modern, anodised aluminium cover.
- An EN tested product, for both the 24 V DC and the 230 V AC versions thanks to the encoder-based electronic management.
- Standard articulated-arm, but also available is the straight arm when fitting in settings where space is limited.
- Practical hatch-door for accessing the release.
- The versatile limit-switch assembly is testimony to the ease of installation and connection.
- The quick version is available.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	FE40230 - FE40230V - FE4024 - FE4024V				
Max gate-leaf width (m/ft)	4*/13	3.5*/11.5	3*/10	2.5*/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	400/880	450/992	500/1,100	600/1,330	800/1,770

● 230 V AC - ● 24 V DC

NOTE:

*The electric lock on the gate leaf is mandatory.

Application dimensions (mm/in)

MODEL	ALL MODELS	
GATE-LEAF OPENING (°)	B	A
90°	0 ÷ 300 / 0 ÷ 11.81	110/4.33
90°	300 ÷ 380 / 11.81 ÷ 14.96	150/5.9

Technical features

Type	FE40230	FE4024	FE40230V	FE4024V
Protection rating IP	IP44	IP44	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor Power supply (V - 50/60 Hz)	230 AC	24 DC	230 AC	24 DC
Current draw (A)	1.2	5	1.3	5
Power (W)	140	130	150	130
Opening times at 90° (s)	34	ADJUSTABLE	18	ADJUSTABLE
Duty cycle (%)	30	INTENSIVE USE	30	INTENSIVE USE
Torque (Nm)	540	360	320	360
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			
Motor thermo protectione (°C/°F)	150/302	-	150/302	-

● 230 V AC - ● 24 V DC

The full range



Code	Description
230 V AC external operators and control panel tested in compliance with EN12453 - EN12445	
001 FE40230	Self-locking operator complete with articulated transmission arm for gate leaves of up to 4 m / 13 ft.
002 ZM3E	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
230 V AC external operators and control panel	
001 FE40230V	Self-locking operator complete with articulated transmission arm for gate leaves of up to 4 m / 13 ft (fast version).
002 ZM3E	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
24 V DC external operator and control panels tested in compliance with EN 12453 - EN 12445	
001 FE4024	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.
002 ZLJ14	Multifunction control panel for one-leaf swing gates featuring function programming display, auto-diagnosis of safety devices and radio decoder.
002 ZLJ24	Multifunction control panel for two-leaf swing gates with signalling display, auto-diagnosis of safety devices and radio decoder.
24 V DC external operator and control panels	
001 FE4024V	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft (fast version).
002 ZLJ14	Multi-function control panel for one-leaf swing gates with warning screen, self-diagnosis of the security and safety devices and on-board radio decoding.
002 ZLJ24	Multi-function control panel for two-leaf swing gates with warning screen, self-diagnosis of the security and safety devices and set up to take on-board radio decoding.
Accessories for: 002ZLJ14	
002 LB90	Card for connecting n. 2 12 V - 1.2 Ah emergency batteries.
Accessory for: 002ZLJ24	
002 LB180	Card for connecting two 12 V - 1.2 Ah emergency batteries.
Accessories for: 001FE40230 - 001FE40230V	
001 FERNI-BDX	Right-hand straight telescopic transmission arm for gate-leaves of up to 2 m / 6.56 ft.
001 FERNI-BSX	Left-hand straight telescopic transmission arm for gate-leaves of up to 2 m / 6.56 ft.
Accessories	
001 LOCK81	Electric lock with single cylinder.
001 LOCK82	Electric lock with double cylinder.
001 H3000	Safety casing complete with release toggle and command button for the L = 5 m / 16.4 ft pull-cord release.



Super Frog

Gate-leaves up to 8 m / 26 ft

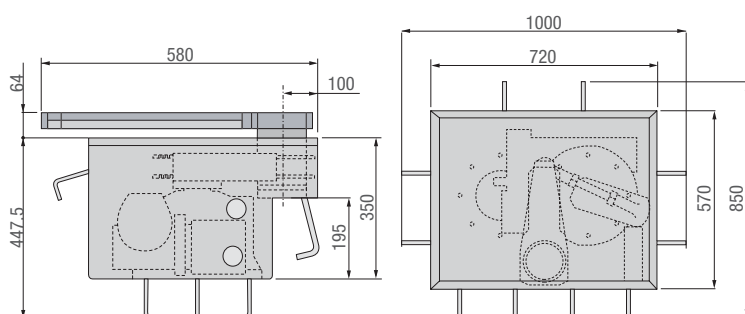


Hide-way solution for special fittings or with very large gates

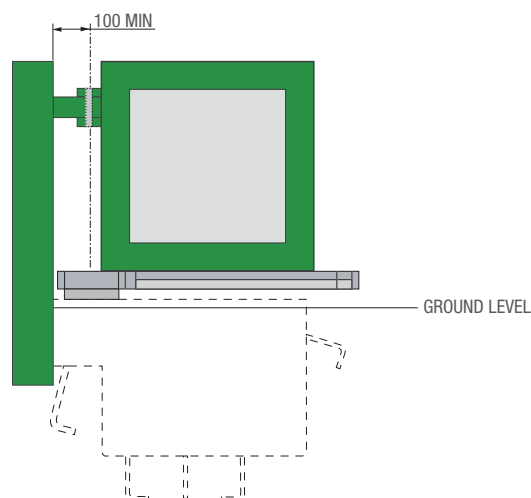
- For operating very large gates.
- High degree of protection (IP67) from weather agents.
- Built-in opening and closing limit switches for quick and easy adjusting of the gate leaf stop positions.
- Power supply via triphase voltage to ensure greater thrust.



Dimensions (mm)



Application (mm)



Limits to use

MODEL	FROG-MD - FROG-MS					
Max gate-leaf width (m/ft)	8/26	7/23	6/20	5/16.5	4/13	< 4/13
Max gate-leaf weight (Kg/lb)	600/1,320	700/1,550	800/1,770	1000/2,200	1200/2,640	1500/3,300
Max gate-leaf opening (°)	95	95	95	95	95	95

● 230 – 400 V AC TRIPHASE

Technical features




Type	FROG-MD - FROG-MS
Protection rating IP	IP67
Power supply (V - 50/60 Hz)	230 – 400 V AC TRIPHASE
Motor Power supply (V - 50/60 Hz)	230 – 400 V AC TRIPHASE
Current draw (A)	2.5 MAX
Power (W)	600
Opening times at 95° (s)	45
Duty cycle (%)	50
Torque (Nm)	1000
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 230 – 400 V AC TRIPHASE

The full range



CAME

Code	Description
230 - 400 V AC 3-phase underground operators	
001 FROG-MD	Right-hand self-locking operator for gate leaves of up to 8 m / 26 ft.
	
001 FROG-MS	Left-hand self-locking operator for gate leaves of up to 8 m / 26 ft.
	
230 - 400 V AC 3-phase control panel	
002 ZM3ES	Multifunction control panel with signalling display, auto-diagnosis of safety devices and radio decoder.
	
Foundation casings	
001 FROG-CD	Foundation casing for right-hand operator.
001 FROG-CS	Foundation casing for left-hand operator.

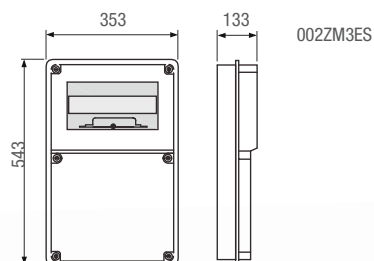
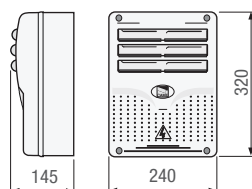
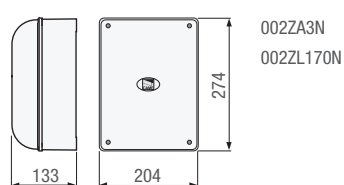


Electronic features

The table shows all of the features of the swing-gate operator specific control panels.

Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)





The models

	Ati Krono Frog Ferni	Ati Krono Frog Ferni	Frog Plus	Fast40	Super Frog	Amico Frog-J	Amico Myto Axo Frog-J Frog	Amico Myto Axo Frog-J Frog	Fast40	Frog Ferni	Frog Ferni	Ati
Type	ZA3N	ZM3E	ZM3EP	ZF4	ZM3ES	ZL92	ZLJ24	ZLJ14	ZL94	ZL170N	ZL19N	ZL180

SAFETY

SELF-DIAGNOSIS of safety devices		●	●	●	●	●	●	●	●	●	●	●
Opening and closing PRE-FLASHING	●	●	●	●	●	●	●	●	●	●	●	●
RE-OPENING during closing	●	●	●	●	●	●	●	●	●	●	●	●
RE-CLOSING during opening	●	●	●	●	●	●	●	●	●	●	●	●
Obstacle STALL		●	●	●	●	●	●	●	●	●	●	●
TOTAL STOP	●	●	●	●	●	●	●	●	●	●	●	●
PARTIAL STOP	●	●	●	●	●	●	●	●	●	●	●	●
OBSTACLE DETECTION in front of photocells	●	●	●	●	●	●	●	●	●	●	●	●
ENCODER		●	●	●	●	●	●	●	●	●	●	●
MOVEMENT CONTROL and OBSTACLE DETECTION device			●	●	●	●	●	●	●	●	●	●
AMPEROMETRIC DETECTION			●	●	●	●	●	●	●	●	●	●

COMMAND

1 leaf PEDESTRIAN OPENING		●	●	●	●	●	●	●	●	●	●	●
1 leaf PARTIAL OPENING	●	●	●	●	●	●	●	●	●	●	●	●
OPEN ONLY from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●	●	●
OPEN ONLY or CLOSE ONLY button connection	●	●	●	●	●	●	●	●	●	●	●	●
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●	●	●
MAINTAINED ACTION	●	●	●	●	●	●	●	●	●	●	●	●
1st leaf DELAYED OPENING	●	●	●	●	●	●	●	●	●	●	●	●
2nd LEAF DELAYED CLOSING	●	●	●	●	●	●	●	●	●	●	●	●
IMMEDIATE CLOSING					●							
EMERGENCY RELEASE from the transmitter					●							

FEATURES AND SETTINGS

FLASHING LIGHT connection	●	●	●	●	●	●	●	●	●	●	●	●
CYCLE LAMP connection	●	●	●	●	●	●	●	●	●	●	●	●
COURTESY LAMP connection		●	●	●	●	●	●	●	●	●	●	●
Antenna	●	●	●	●	●	●	●	●	●	●	●	●
OPEN WARNING LIGHT connection	●	●	●	●	●	●	●	●	●	●	●	●
CLOSE WARNING LIGHT connection				●	●				●			
Contact output for 2nd RADIO CHANNEL	●	●	●		●	●	●	●	●	●	●	●
RUNNING TIME adjustment	●	●	●	●	●	●	●	●	●	●	●	●
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●	●	●	●	●	●	●	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection	●	●	●	●	●	●	●	●	●	●	●	●
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	●	●	●	●	●	●	●	●	●	●
OPENING and/or CLOSING slow-down		●	●	●	●	●	●	●	●	●	●	●
EMERGENCY BATTERY operation (option)					●	●	●	●	●	●	●	●
MASTER-SLAVE					●							
Adjustable RUNNING and SLOW-DOWN SPEED		●*	●*	●	●	●	●	●	●	●	●	●
Signalling DISPLAY		●	●	●	●	●	●	●	●	●	●	●
Electronic BRAKE					●				●			
Opening and closing endstop SELF-LEARNING		●	●	●	●	●	●	●	●	●	●	●
SLEEP MODE					●				●			
Solar panel connection					●				●			

● 230 V AC - ● 24 V DC INTENSIVE USE - ● 230 – 400 V AC TRIPHASE

NOTES

* 002ZM3E and 002ZM3EP only slow-down speeds

Operators for:

OVERHEAD AND SECTIONAL GARAGE DOORS

112	Your selection guide
114	Ver
116	Emega
118	Electronic features
119	Control panels for: OVERHEAD GARAGE AND SECTIONAL DOORS

Your selection guide

Overhead and sectional garage door operators

The table summarises the series and models with maximum limits to use based only on door surface or traction force.

Series Model	
Emega	Max door surface (m ² /ft ²)
	E306 9/100
	E456 14/150
	E1024

● 230 V AC - ● 24 V DC INTENSIVE USE

Series Model	
Ver	Max traction force (N)
	V900E 500
	V700E 850

● 24 V DC INTENSIVE USE



PARTIALLY RETRACTING counterweighted or spring-balanced overhead garage door (with traction-type operator)



This type of door features a counterbalancing or spring-loaded system. When opening and closing the door retract into the garage for about 2/3 of its overall surface area.

Series: Ver



PARTIALLY RETRACTING counterweighted or spring-loaded overhead garage door (with two operators fastened onto door)

This type of door features a counterbalancing or spring-loaded system. When opening and closing the door retract into the garage for about 2/3 of its overall surface area.

The double operator is used in case of insulated and / or pedestrian door.

Series: Emega



FULLY RETRACTING, PROTRUDING spring-balanced overhead garage door (with traction-type operator)

This type of door features a spring-loaded balancing system. When opening and closing the door retract fully into the garage.

Series: Ver



FULLY RETRACTING NON PROTRUDING counterweighted overhead garage door (with operator fastened onto door)

This type of door features a counterweighted balancing system. When opening and closing the door retract fully into the garage.

Series: Emega



SECTIONAL DOOR

This type of door features a spring-loaded balancing system. It is made up of horizontal, hinged panels. When opening and closing the door recesses fully into the garage.

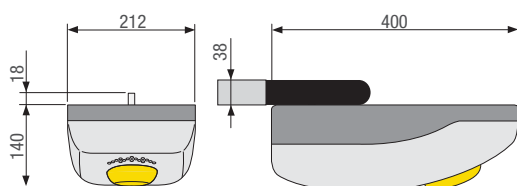
Series: Ver



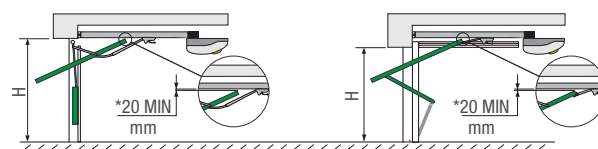
Ideal solution for sectional and overhead residential garage doors

- Operator is fastened directly onto the transmission guide-rail.
- 24 V DC system to ensure maximum security and total reliability.
- A vast range of command and security accessories to complete the operator.
- Belt or chain operated slide guides; silent and reliable, plus outside and inside pull-cord release, to fit to the door-lock-handle system.
- Tested according to the parameters dictated by current rules and regulations.
- Can work in emergency mode during power outages.

Dimensions (mm)

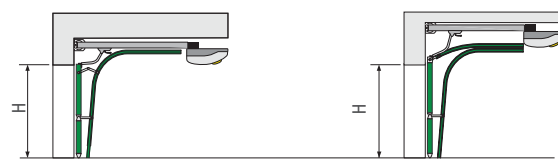


Applications (mm)



BC - Partially-retracting, counterweighted overhead garage door. (with 001V201)

BM - Fully-retracting, spring-balanced overhead garage door.



STA - Type A sectional door with single guide

STB - Type B sectional door with double guide

H = MAX DOOR HEIGHT

* Max dimension in terms of door height during movement (at about 2/3 of opening)

Limits to use

MODEL	V700E	V900E
Traction force (N)	850	500

● 24 V DC

Technical features

Type	V700E	V900E
Protection rating IP	IP40	IP40
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC
Current draw (A)	11 MAX	6 MAX
Power (W)	260	130
Manoeuvre speed (m/min - ft/min)	6/19.68	6/19.68
Duty cycle (%)	50	50
Traction force (N)	850	500
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	-	-

● 24 V DC

The full range

Code **Description**



24 V DC complete automation systems with operator tested in compliance with EN12453 - EN12445	
001V900E	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (traction force 500 N).
001V700E	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (traction force 850 N).
Accessories for: 001V900E - 001V700E	
001V0670	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001V121	Cord release device and release reset L = 3 m / 9.84 ft for application on door handle.
001V122	Transmission arm for sectional doors having distances of 300 - 600 mm / 11.81 - 23.62 in from the top edge of the door and the spring rod.
001V201	Adapter arm for partially extended counterweighted overhead doors with max door height: 2.4 m / 7.87 ft.
Chain guides	
001V0679	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.
001V0682	Chain guide L = 3.52 m / 11.54 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.
001V0683	Chain guide L = 4.02 m / 13.18 ft * Max door height: * BM = 3.25 m / 10.66 ft - STA = 3.1 m / 10.17 ft - STB = 3.2 m / 10.49 ft.
001V0684	Chain guide L = 3.02 m / 9.90 ft in two parts * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.
Accessories for: chain guides	
001V005	Chain guide extension for guide types: 001V0679 - 001V0682 - 001V0683 - 001V0684 L = 1.42 m / 4.66 ft.
Belt guides	
001V0685	Belt guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.
001V0686	Belt guide L = 3.52 m / 11.54 ft * Max door height: * BM = 2.75 m / 9.02 ft - STA = 2.6 m / 8.53 ft - STB = 2.7 m / 8.85 ft.
001V0688	Belt guide L = 4.02 m / 13.18 ft * Max door height: * BM = 3.25 m / 10.66 ft - STA = 3.1 m / 10.17 ft - STB = 3.2 m / 10.49 ft.
001V0687	Belt guide L = 3.02 m / 9.90 ft in two parts * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.

NOTES

* BC = Counterweighted overhead - BM = Spring-balanced overhead - STA = Sectional type A - STB = Sectional type B



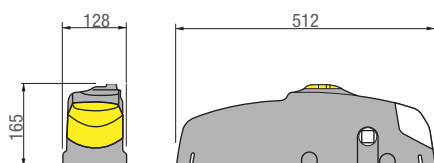
Door surface up to 14 m² / 150 ft²



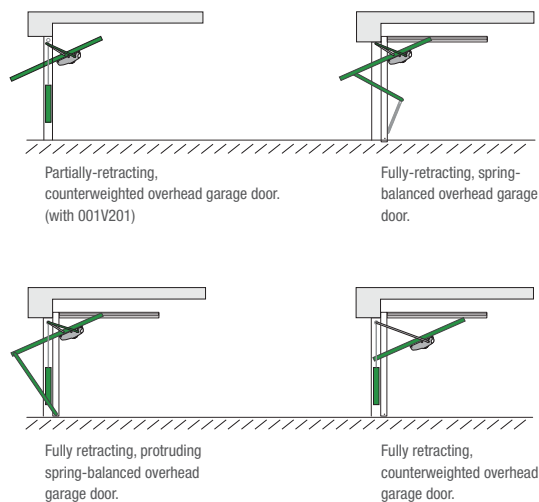
Ideal solution for overhead garage doors with fastening of the operator on door surface

- Operator engineered for large and medium overhead garage doors, even for intensive duty conditions.
- The 001E306 and 001E1024 models are tested according to parameters established by law.
- The 230 V AC versions feature encoder technology to detect obstacles and manage slow-downs.
- Release lever for manual opening of the door during power outages, can be activated even from outdoors thanks to the pull cord which can be fitted to door's handle-lock system.
- 24 V DC for adjusting the manoeuvring speed when about to strike closed or open and for electronic obstacle detection.
- Control panel 002ZE5 can be fitted on the fixing guide-base 001E001.

Dimensions (mm)



Applications



Limits to use

MODEL	E456	E1024	E306
Door surface (m ² / ft ²)	14/150	14/150	9/100

● 230 V AC - ● 24 V DC

NOTE:

001E782A always install in case of 001E1024 double operator.

Technical features

Type	E456	E1024	E306
Protection rating IP	IP50	IP50	IP50
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	24 DC	230 AC
Current draw (A)	2	15 MAX	2
Power (W)	200	180	190
Manoeuvre time at 90° (s)	25	ADJUSTABLE	25
Duty cycle (%)	50	INTENSIVE USE	50
Torque (Nm)	420	450	300
Operating temperature (°C/°F)		-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	150/302	-	150/302

● 230 V AC ● 24 V DC

The full range



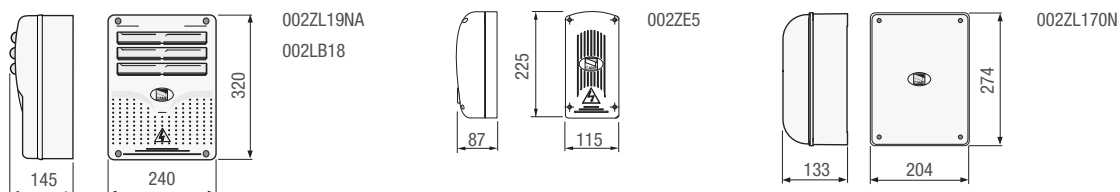
Code	Description
230 V AC operators and control panel tested in compliance with EN12453 - EN12445	
001 E306	Self-locking operator for doors of up to 9 m ² / 100 ft ² .
002 ZE5	Control panel with radio decoder to be fixed on 001E001 guide-base.
230 V AC operator	
001 E456	Self-locking operator for doors of up to 14 m ² / 150 ft ² .
Control panel for 230 V AC operator	
002 ZE5	Control panel with radio decoder to be fixed on 001E001 guide-base.
24 V DC operator and control panels tested in compliance with EN12453 - EN12445	
001 E1024	Self-locking operator for doors of up to 14 m ² / 150 ft ² .
002 ZL170N	Control panel for overhead garage doors with one gearmotor and with radio decoder.
002 ZL19NA	Control panel for overhead garage doors with two gearmotors and with radio decoder.
Accessories for: 002ZL170N - 002ZL19NA	
002 LB18	Casing with emergency card, fitted to house n. 3 12 V - 7 Ah batteries.
Accessories	
001 E001	Fixing guide-base L = 2 m / 6.56 ft.
001 V121	Cord release device and release reset L = 3 m / 9.84 ft for application on door handle.
001 E781A	Accessories to assemble the lateral transmission.
001 E782A	Square transmission shaft 25 x 25 mm L = 3 m / 0.98 x 0.98 in L = 9.84 ft.
001 E783	Pair of articulated arms.
001 E784	Extra-long lever for articulated arm for doors higher than 2.4 m / 7.87 ft.
001 E785A	Pair of straight telescopic arms with 40 x 10 mm / 1.57 x 0.39 in rectangular shaft.
001 E786A	Pair of curved telescopic arms with 40 x 10 mm / 1.57 x 0.39 in rectangular shaft.
001 E787A	Extra-long shaft for telescopic arms, for doors higher than 2.4 m / 7.87 ft.
001 E881	Closing electric lock.



Electronic features

The table shows all control panel features for overhead and sectional door-specific operators. Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)



Control panels for: OVERHEAD AND SECTIONAL GARAGE DOORS



The models

	V900E	V700E	E306 E456	E1024	E1024
Type	ZL56	ZL56A	ZE5	ZL170N	ZL19NA
SAFETY					
SELF-DIAGNOSIS of safety devices					●
Opening and closing PRE-FLASHING			●	●	●
RE-OPENING during closing	●	●	●	●	●
RE-CLOSING during opening					
Obstacle STALL					
TOTAL STOP	●	●	●	●	●
PARTIAL STOP				●	●
OBSTACLE DETECTION in front of photocells			●	●	●
ENCODER	●	●			
MOVEMENT CONTROL and OBSTACLE DETECTION device			●		
AMPEROMETRIC DETECTION	●	●		●	●
COMMAND					
1 leaf PEDESTRIAN OPENING					
1 leaf PARTIAL OPENING	●*	●*			
OPEN ONLY from the transmitter and/or the button			●	●	●
OPEN ONLY or CLOSE ONLY button connection			●	●	●
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●	●	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button			●	●	●
MAINTAINED ACTION			●	●	●
1st leaf DELAYED OPENING					
2nd LEAF DELAYED CLOSING					
IMMEDIATE CLOSING					
EMERGENCY RELEASE from the transmitter					
FEATURES AND SETTINGS					
FLASHING LIGHT connection	●	●	●	●	●
CYCLE LAMP connection				●	●
COURTESY LAMP connection	●	●	●		
Antenna	●	●	●	●	●
OPEN WARNING LIGHT connection			●	●	●
CLOSE WARNING LIGHT connection					
Contact output for 2nd RADIO CHANNEL				●	●
RUNNING TIME adjustment				●	
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection			●	●	●
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	●	●	●
OPENING and/or CLOSING slow-down	●	●	●	●	●
EMERGENCY BATTERY operation (option)	●	●		●	●
MASTER-SLAVE					
Adjustable RUNNING and SLOW-DOWN SPEED				●	●
Signalling DISPLAY					
Electronic BRAKE	●	●			
Opening and closing endstop SELF-LEARNING	●	●	●	●	●

● 230 V AC - ● 24 V DC INTENSIVE USE

NOTES

* Can also activate partial opening via button or switch or even via transmitter.

Operators for: **ROAD BARRIERS**

122	Your selection guide
124	Gard
128	Gard 4
132	Gard 8
136	Gard 12
138	Electronic features
139	Control panels for: ROAD BARRIERS

Your selection guide

Road barrier operators

The table summarises the models with their limits to use depending on the max width of the barrier passage clearance.

Series	Model	
	Max width of passage clearance (m/ft)	
Gard	G2500	2.5/8.2
	G3750	3.75/12.3
	G3751	
Gard 4	G4040Z	
	G4040IZ	
Gard	G6500	6.5/22
	G6501	
Gard 8	G2080Z	7.6/25
	G2080IZ	
Gard 12	G12000	12/40

230 V AC - 24 V DC INTENSIVE USE



SINGLE BARRIERS FOR RESIDENTIAL USE

Came barriers are ideal for managing both small parking lots in apartment blocks and low-traffic passages.

Series: Gard - Gard 4



SINGLE OR DOUBLE BARRIERS FOR INTENSIVE USE

For managing parking facilities that see intensive use such as on company facilities, auto dealers and even private parking.

Series: Gard - Gard 4 - Gard 8



BARRIERS FOR PAY TO PARK FACILITIES

A simple, practical solution for pay-to-park facilities.

Series: Gard



BARRIERS FOR LARGE LOAD PASSAGES

Came special barriers are made to handle passages for special vehicle traffic.

Series: Gard 12

The flashing light: additional safety!

Our Gard 4 and Gard 8 barriers are set up to fit the dome flashing light which warns when the barrier arm is moving, to ensure top safety levels for those using the parking system.

The Gard series barriers fit the Kiara flashing light.



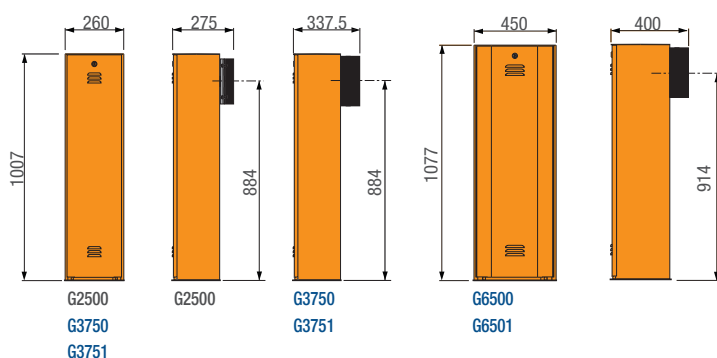
Passage clearance up to 6.5 m / 21.3 ft



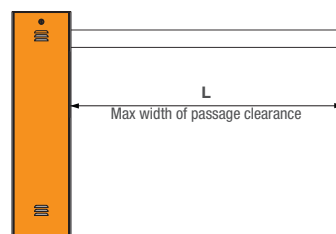
The ideal solution for medium to-large vehicle passages in apartment blocks and industrial facilities

- Ideal for private and public parking facilities.
- The model for passages up to 2.5 m / 8.2 ft (001G2500) comes in the 230 V AC version, while the models for passages up to 3.75 m / 12.3 ft (001G3750 and 001G3751) and up to 6.5 m / 22 ft (001G6500 and 001G6501) are in the 24 V DC version
- There is also a version in AISI 304 steel.
- It can be installed either left or right and mounting it is simple, quick and easy.
- A range of truly complete accessories to customise your installation, depending on your needs, which includes a choice of safety accessories for peace of mind during operation.
- The special joint is for installing Came barriers even when height is an issue and would otherwise restrict the barrier's complete movement, such as in underground parking situations.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	G6500 - G6501	G3750 - G3751	G2500
Max width of passage clearance (m/ft)	6.5/22	3.75/12.3	2.5/8.2

● 230 V AC - ● 24 V DC

Technical features

Type	G6500 - G6501	G3750 - G3751	G2500
Protection rating IP	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC	230 AC
Current draw (A)	15 MAX	15 MAX	1
Power (W)	300	300	120
Opening times (90°(s)	4 ÷ 8	2 ÷ 6	2
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE	30
Torque (Nm)	600	200	70
Operating temperature (°C/°F)		-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	-	-	150/302

● 230 V AC - ● 24 V DC

The complete range max width of passage clearance 2.5 m / 8.2 ft



CAME

Code	Description
230 V AC barrier with operator and built-in control panel	
001 G2500	Barrier in galvanized and painted steel.
Accessories	
001 G0251	White painted aluminium bar. Section: 60 x 40 x 2700 mm / 2.36 x 1.57 x 106.3 in.
001 G0461	Package of n. 24 red adhesive refracting strips.
001 G0257	Joint for bar.
001 G0462	Fixed support for bars.



The complete range max width of passage clearance 3.75 m / 12 ft



Code	Description
24 V DC barriers with operator and built-in control panel	
001 G3750	Galvanized and painted steel barrier fitted to take additional accessories.
001 G3751	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G3750 - 001G3751	
001 G03750	White painted semi-elliptic tubular aluminium bar with slot cover and impact-resistant profiles. L = 4 m / 13.12 ft.
001 G0402	White painted tubular aluminium bar Ø 60 mm L = 4,200 mm / 2.36 in L = 13.78 ft.
Accessories for: 001G03750	
001 G03756	Inner reinforcement support for semi-elliptic tubular aluminium bar.
001 G03755DX	Joint for semi-elliptic tubular aluminium bar. For right-hand barrier.
001 G03755SX	Joint for semi-elliptic tubular aluminium bar. For right-left barrier.



Boom assembly and balancing springs for 001G3750 - 001G3751

MODEL	● Springs 001G02040 Ø 40 mm / 1.57 in – ● Springs 001G04060 Ø 50 mm / 1.96 in – ● Springs 001G06080 Ø 55 mm / 2.16 in									
	PASSAGE CLEARANCE WIDTH (m/ft)									
BOOM COMPOSITION	1.5/4.92	1.75/5.74	2/6.56	2.25/7.38	2.5/8.2	2.75/9.02	3/9.84	3.25/10.66	3.5/11.48	3.75/12.3
Boom with shock-resistant profile	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●
Boom with rack 001G0465	●	●	●	●	●	●	●	●	●	●
Boom with luminous cord 001G28401 and rack 001G0465	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile and mobile support 001G02808	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile, luminous cord 001G28401 and mobile support 001G02808	●	●	●	●	●	●	●	●	●	●

Boom assembly and balancing springs for 001G6500 - 001G6501

MODEL	● Springs 001G02040 Ø 40 mm / 1.57 in – ● Springs 001G04060 Ø 50 mm / 1.96 in – ● Springs 001G06080 Ø 55 mm / 2.16 in									
	PASSAGE CLEARANCE WIDTH (m/ft)									
BOOM COMPOSITION	2/6.56	2.5/8.2	3/9.84	3.5/11.48	4/13.12	4.5/14.76	5/16.4	5.5/18.04	6.5/21.3	
Simple Boom	●	●	●	●	●	●	●	●	●	●
Simple boom and mobile support 001G02808	●	●	●	●	●	●	●	●	●	●
Simple boom and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●
Simple boom, mobile support 001G02808 and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●
Simple boom and rack 001G0465	●	●	●	●	●	●	●	●	●	●
Simple boom, rack 001G0465 and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●

The complete range max width of passage clearance 6.5 m / 22 ft



Code	Description
24 V DC barriers with operator and built-in control panel	
001 G6500	Galvanized and painted steel barrier fitted to take additional accessories.
001 G6501	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G6500 - 001G6501	
001 G0602	White painted tubular aluminium bar Ø 100 mm L = 6,850 mm / 3.94 in L = 22.47 ft.
001 G06850	White painted tubular aluminium bar Ø 100 L = 6850 mm / 3.94 L = 22.47 ft with slot cover and impact-resistant profiles.
Accessories for: 001G06850	
001 G028401	Luminous cord for bars.
001 G028402	Luminous cord cable.
Accessory for: 001G3750 - 001G3751 - 001G6500 - 001G6501	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
Balancing accessories (see BOOM ASSEMBLY AND SPRINGS BALANCING TABLE)	
001 G02040	Balancing spring Ø 40 mm / 1.57 in.
001 G04060	Balancing spring Ø 50 mm / 1.96 in.
001 G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001 G0465	Painted aluminium rack for bar (2 m / 6.56 ft modules).
001 G02807	Fixed support for bars.
001 G02808	Mobile support for bars.
001 G02809	Package of n. 20 red adhesive refracting strips.
001 G0468	Support for applying 001DELTA-I and 001DELTA-SI photocells on the cabinet.
001 G04601	Adapter for application of the Kiaro series flashing lights (it matches the KIAROS support).



WARNING: RESPECT THE LIMITS TO USE DETAILED IN THE CATALOGUE

001G0468 Not usable with barriers featuring booms fitted with the 001G0465 aluminium rack or 001G02808 mobile support.
 001G02808 MUST be used on barrier booms with passage clearance widths up to 3 m / 9.84 ft maximum.
 001G03756 MUST be used on barrier booms with passage clearance widths greater than 3 m / 9.84 ft, fitted with the 001G28401 luminous cord.
 MUST be used on barrier booms with passage clearance widths greater than 2.5 m / 8.2 ft, fitted with the 001G02808 mobile support or with the 001G0465 aluminium rack.
 001G02807 MUST be used on barrier booms with passage clearance widths greater than 3 m / 9.84 ft.
 001G0465 - 001G02808 They cannot be used together.

Gard 4

Passage clearance up to 3.75 m /12.3 ft

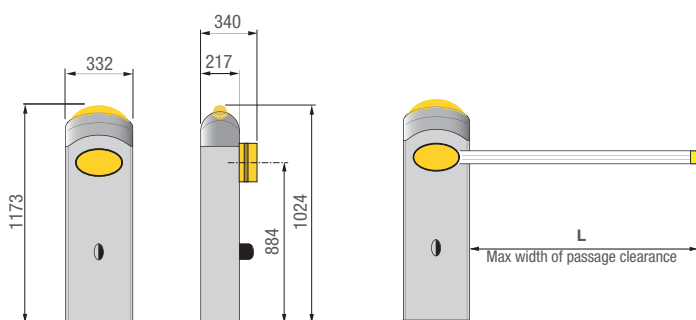


The ideal solution for intensive vehicular traffic conditions



- A modern style barrier, aesthetically perfect for any setting.
- The LED dome-shaped flashing light and the photocells can be integrated into the cabinet to ensure safety as well as durability.
- The protective carter safeguards the barrier movement against any shearing action when opening and closing.
- The 24 V DC power supply is the most suitable choice when intensive use is required.

Dimensions (mm)



Limits to use

MODEL	G4040Z - G4040IZ
Max width of passage clearance (m/ft)	3.75/12.3

● 24 V DC

Technical features

Type	G4040Z - G4040IZ
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	15 MAX
Power (W)	300
Opening times (90° (s)	2 ÷ 6
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	200
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The complete range

Code	Description
24 V DC barriers with operator and built-in control panel	
001 G4040Z	Galvanized and painted steel barrier fitted to take additional accessories.
001 G4040IZ	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G4040Z - 001G4041Z	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.



JOINTED BOOM

The special accessory for the semi-elliptic boom is for installing Came barriers even when height is an issue when raising or lowering the barrier, as in underground parking lots.



IN STAINLESS STEEL

The Gard 4 barrier is also available in AISI 304 stainless steel, to install where weather conditions are an issue.

The complete range



Code	Description
Balancing accessories (see BOOM ASSEMBLY AND SPRINGS BALANCING TABLE)	
001G02040	Balancing spring Ø 40 mm / 1.57 in.
001G04060	Balancing spring Ø 50 mm / 1.96 in.
001G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001G02801	Dome-shaped flashing light.
001G02802	Support for series Dir photocells.
001G03751	Emergency battery rack.
001G03752	White painted tubular aluminium bar with slot cover profile L = 4 m / 13.12 ft.
001G03750	White painted semi-elliptic tubular aluminium bar with slot cover and impactresistant profiles. L = 4 m / 13.12 ft.
001G028401	Luminous cord for bars.
001G028402	Luminous cord cable.
001G0465	Painted aluminium rack for bar (2 m / 6.56 ft modules).
001G02807	Fixed support for bars.
001G02808	Mobile support for bars.
001G02809	Package of n. 20 red adhesive refracting strips.



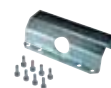
Boom assembly and balancing springs for 001G4040Z - 001G4040IZ

MODEL	● Springs 001G02040 Ø 40 mm / 1.57 in – ● Springs 001G04060 Ø 50 mm / 1.96 in – ● Springs 001G06080 Ø 55 mm / 2.16 in									
	PASSAGE CLEARANCE WIDTH (m/ft)									
BOOM COMPOSITION	1.5/4.92	1.75/5.74	2/6.56	2.25/7.38	2.5/8.2	2.75/9.02	3/9.84	3.25/10.66	3.5/11.48	3.75/12.3
Boom with shock-resistant profile	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●
Boom with rack 001G0465	●	●	●	●	●	●	●	●	●	●
Boom with luminous cord 001G28401 and rack 001G0465	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile and mobile support 001G02808	●	●	●	●	●	●	●	●	●	●
Boom with shock-resistant profile, luminous cord 001G28401 and mobile support 001G02808	●	●	●	●	●	●	●	●	●	●

The complete range



Code	Description
Accessories for: 001G03752	
001 G03753	Securing flange for tubular bar.
Accessories for: 001G03750	
001 G03756	Inner reinforcement support for semi-elliptic tubular aluminium bar.
001 G03755DX	Joint for semi-elliptic tubular aluminium bar. For right-hand barrier.
001 G03755SX	Joint for semi-elliptic tubular aluminium bar. For right-left barrier.
001 G04002	PLUS break-away boom fitting.
001 G04003	BASIC break-away boom fitting.



Applications



001G04003

At impact, the boom breaks away and its end rests on the ground.



001G04002

At impact, the boom turns 90° and then rests its end on the ground.

WARNING: RESPECT THE LIMITS TO USE DETAILED IN THE CATALOGUE

001G02802 Not usable with barriers featuring booms fitted with the 001G0465 aluminium rack or 001G02808 mobile support.

001G02808 MUST be used on barrier booms with passage clearance widths of up to 3 m / 9.84 ft maximum.

001G03756 MUST be used on barrier booms with passage clearance widths greater than 3 m / 9.84 ft, fitted with the 001G28401 luminous cord.

MUST be used on barrier booms with passage clearance widths greater than 2.5 m / 8.2 ft, fitted with the 001G02808 mobile support or with the 001G0465 aluminium rack.

001G02807 MUST be used on barrier booms with passage clearance widths greater than 3 m / 9.84 ft.

001G0465 - 001G02808 They cannot be used together.

Gard 8

24

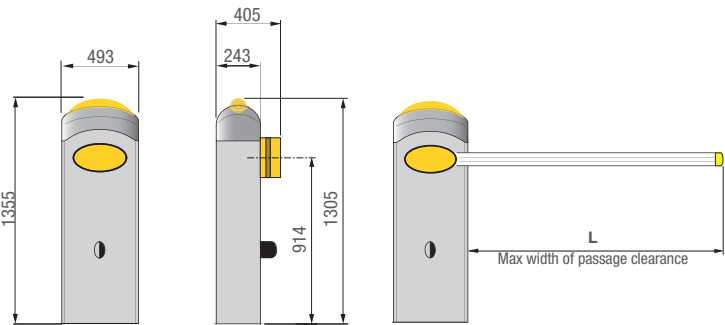
Passage clearance up to 7.6 m / 25 ft



The ideal solution for large passageways in apartment blocks and industrial facilities

- Came's answer to industrial facility and apartment block installations. A barrier featuring modern style and attractive aesthetics.
- The LED dome-shaped flashing light and the photocells can be integrated into the cabinet to ensure safety as well as durability.
- The protective carter safeguards the barrier movement against any shearing action when opening and closing.
- The 24 V DC power supply is the most suitable choice when intensive use is required.

Dimensions (mm)



Limits to use

MODEL	G2080Z - G2080IZ
Max width of passage clearance (m/ft)	7.60/25

● 24 V DC

Technical features

Type	G2080Z - G2080IZ
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	15 MAX
Power (W)	300
Opening times (90° (s)	4 ÷ 8
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	600
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The complete range

Code	Description
24 V DC barriers with operator and built-in control panel	
001 G2080Z	Galvanized and painted steel barrier fitted to take additional accessories.
001 G2080IZ	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G2080Z - 001G2080IZ	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.



CAME



BARRIER WITH BREAK-AWAY JOINT

This accessory allows the barrier boom to detach and rotate horizontally in case it is accidentally bumped into.



IN STAINLESS STEEL

The Gard 8 barrier is also available in AISI 304 stainless steel, to install where weather conditions are an issue.

The complete range



Code	Description
Balancing accessories (see BOOM ASSEMBLY AND SPRINGS BALANCING TABLE)	
001 G02040	Balancing spring Ø 40 mm / 1.57 in.
001 G04060	Balancing spring Ø 50 mm / 1.96 in.
001 G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001 G02801	Dome-shaped flashing light.
001 G02802	Support for series Dir photocells.
001 G02805	Emergency battery rack.
001 G02000	White painted aluminium tubular bar Ø 100 mm / 3.93 in complete with slot cover profile L = 2 m / 6.56 ft.
001 G04000	White painted aluminium tubular bar Ø 100 mm / 3.93 in complete with slot cover profile L = 4 m / 13.12 ft.
001 G06000	White painted aluminium tubular bar Ø 100 mm / 3.93 in complete with slot cover profile L = 6 m / 19.68 ft.
001 G06803	Joint for bar complete with additional insert to attach bar.
001 G028401	Luminous cord for bars.
001 G028402	Luminous cord cable.



Boom assembly and balancing springs for 001G2080Z - 001G2080IZ

MODEL	● Springs 001G02040 Ø 40 mm / 1.57 in – ● Springs 001G04060 Ø 50 mm / 1.96 in – ● Springs 001G06080 Ø 55 mm / 2.16 in											
	PASSAGE CLEARANCE WIDTH (m/ft)											
BOOM COMPOSITION	2/6.56	2.5/8.2	3/9.84	3.5/11.48	4/13.12	4.5/14.76	5/16.4	5.5/18.04	6.5/21.3	7/22.96	7.6/24.93	
Simple boom	●	●	●	●●	●	●●	●●	●●	●●	●●	●●	
Boom with mobile support 001G02808	●	●	●●	●●	●●	●●	●●	●●	●●	●●	●●	
Boom with luminous cord 001G28401	●	●	●●	●●	●●	●●	●●	●●	●●	●●	●●	
Simple boom, mobile support 001G02808 and luminous cord 001G28401	●	●●	●●	●	●●	●●	●●	●●	●●	●●	●●	
Simple boom and rack 001G0465	●	●	●●	●	●●	●●	●●	●●	●●	●●	●●	
Simple boom, rack 001G0465 and luminous cord 001G28401	●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	

The complete range



Code	Description
Accessories	
001 G0465	Painted aluminium rack for bar (2 m / 6.56 ft modules).
001 G02807	Fixed support for bars.
001 G02808	Mobile support for bars.
001 G02809	Package of n. 20 red adhesive refracting strips.
001 G028011	Break-away bar fitting.
Accessories for: 001G06000	
001 G06802	Internal reinforcement for tube bars applied to barriers with passage widths greater than 4 m / 13,12 ft.



WARNING: RESPECT THE LIMITS TO USE DETAILED IN THE CATALOGUE

001G02802 Not usable with barriers featuring booms fitted with the 001G0465 aluminium rack or 001G02808 mobile support.
 001G02808 MUST be used on barrier booms with passage clearance widths of up to 7 m / 22.96 ft max.
 001G02807 MUST be used on barrier booms with passage clearance widths greater than 7 m / 22.96 ft.
 001G0465 - 001G02808 They cannot be used together.

Gard 12



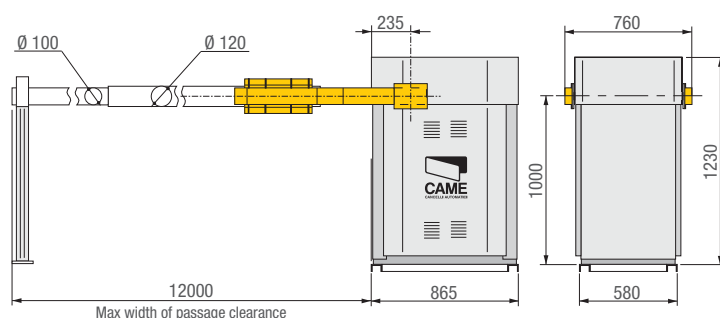
Passage clearance up to 12 m / 40 ft



The ideal solution for special passages or ones for very large loads

- The barrier that handles especially large-load passages
- Two operators installed inside the cabinet and mounted on the same axis to provide greater motor torque.
- The barrier has a smooth, safe and reliable movement thanks to a special modular counterweight spring balancing system, which depends on the boom length.
- A high-end range of command and safety accessories for a 100% complete installation.
- The 24 V DC power supply is the most suitable choice when intensive use is required.

Dimensions (mm)



Limits to use

MODEL	G12000
Max width of passage clearance (m/ft)	12/40

● 24 V DC

Technical features

Type	G12000
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	15 MAX
Power (W)	300
Opening times (90° (s)	10
Duty cycle (%)	50
Torque (Nm)	600
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The complete range

Code	Description
Barrier with 24 V DC operators and built-in control panel	
001 G12000	Galvanized and painted steel barrier.
Accessories for: 001G12000	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
Accessories	
001 G0121	White painted tubular bar composed of: n. 1 fixed support n. 1 tubular bar L = 6200 mm Ø = 120 mm / L = 20.34 ft Ø = 4.72 in n. 1 tubular bar L = 6000 mm Ø = 100 mm / L = 19.68 ft Ø = 3.94 in n. 1 accessory kit for bar extension.
001 G0461	Package of n. 24 red adhesive refracting strips.

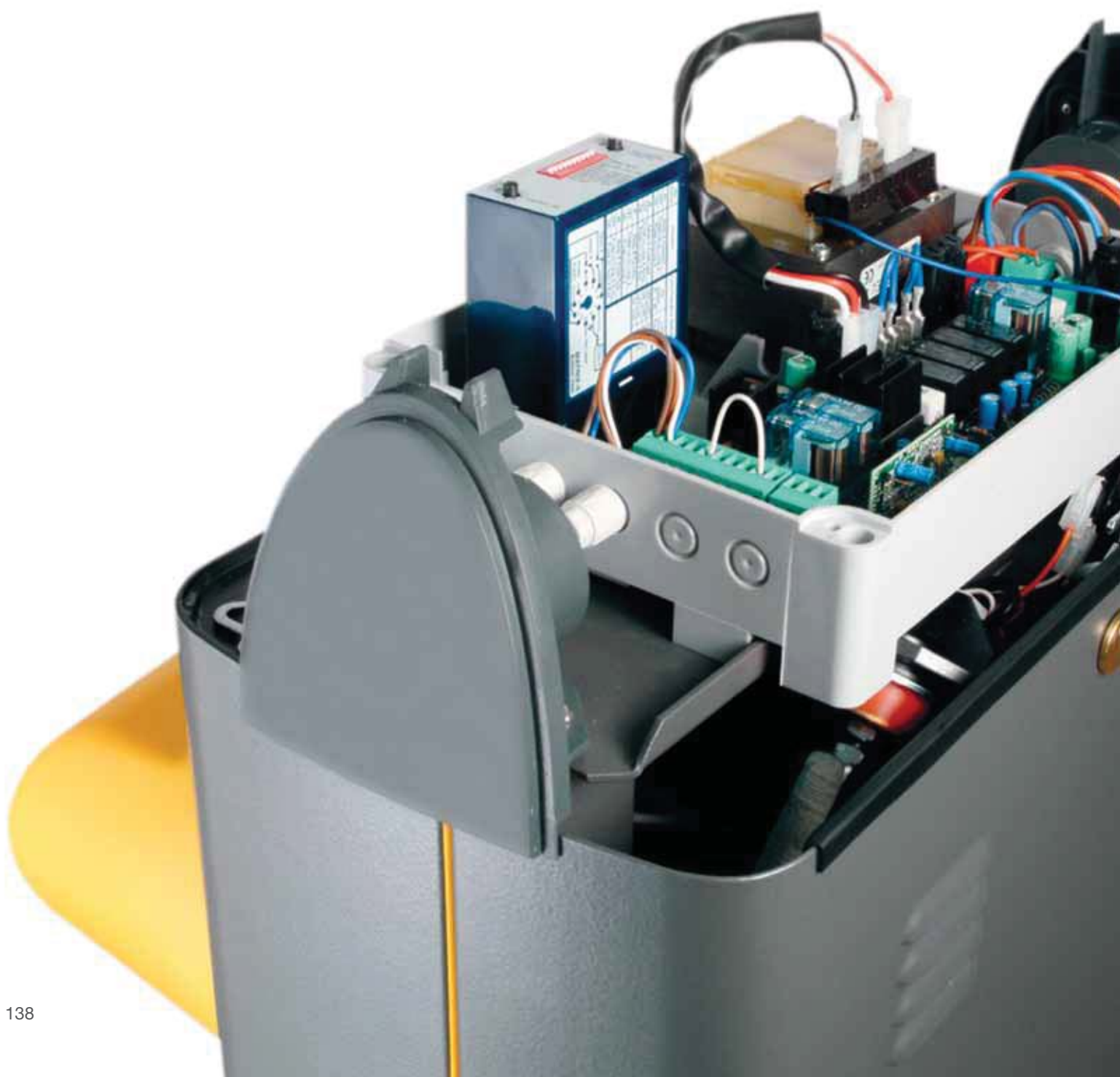


CAME



Electronic features

The table shows all of the features of the road barrier-specific control panels. Those in bold-type are important when selecting which operator to fit and should be considered from the start.





The models

	G2500	G3750 G3751	G6500 G6501	G4040Z G4040IZ G2080Z G2080IZ	G12000
Type	ZC5	ZL38	ZL38	ZL38	ZL37B
SAFETY					
SELF-DIAGNOSIS of safety devices					
Opening and closing PRE-FLASHING		•	•	•	•
RE-OPENING during closing	•	•	•	•	•
RE-CLOSING during opening					
Obstacle STALL					
TOTAL STOP	•	•	•	•	•
PARTIAL STOP					
OBSTACLE DETECTION in front of photocells					
ENCODER		•	•	•	•
MOVEMENT CONTROL and OBSTACLE DETECTION device					
AMPEROMETRIC DETECTION		•	•	•	•
COMMAND					
1 leaf PEDESTRIAN OPENING					
1 leaf PARTIAL OPENING					
OPEN ONLY from the transmitter and/or the button		•	•	•	•
OPEN ONLY or CLOSE ONLY button connection	•	•	•	•	•
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button					
OPEN-CLOSE-REVERSE from the transmitter and/or the button	•	•	•	•	•
MAINTAINED ACTION	•	•	•	•	•
1st leaf DELAYED OPENING					
2nd LEAF DELAYED CLOSING					
IMMEDIATE CLOSING		•	•	•	•
EMERGENCY RELEASE from the transmitter					
FEATURES AND SETTINGS					
FLASHING LIGHT connection	•	•	•	•	•
CYCLE LAMP connection					
COURTESY LAMP connection					
Antenna	•	•	•	•	•
OPEN WARNING LIGHT connection	•	•	•	•	•
CLOSE WARNING LIGHT connection	•				
Contact output for 2nd RADIO CHANNEL					
RUNNING TIME adjustment	•				
SELF-LEARNING of the transmitter's RADIO CODE	•	•	•	•	•
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection					
Adjustable AUTOMATIC RE-CLOSING TIME	•	•	•	•	•
OPENING and/or CLOSING slow-down		•	•	•	•
EMERGENCY BATTERY operation (option)		•	•	•	•
MASTER-SLAVE		•	•	•	•
Adjustable RUNNING and SLOW-DOWN SPEED		•	•	•	•
Signalling DISPLAY					
Electronic BRAKE		•	•	•	
Opening and closing endstop SELF-LEARNING					

● 230 V AC - ● 24 V DC INTENSIVE USE

Operators for: **INDUSTRIAL APPLICATIONS**

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Your selection guide

Industrial operators

The table summarises the series and models with their limits to use limits depending on the max door-leaf width or its max height, according to the type of application.

Series	Model		
	Max door-leaf width (m/ft) / Max door-leaf weight (Kg/lb)	m/ft	Kg/lb
	SWING DOORS		
F4000	F4000	2/6.5	300/660
	F4024	2/6.5	300/660
	FOLDING DOORS		
F4000	F4000	1.5/5	200/440
	F4024	1.5/5	200/440

● 230 V AC - ● 24 V DC INTENSIVE USE

Series	Model		
	Max door leaf width (m/ft)	m/ft	
	SLIDING AND FOLDING DOORS		
Cbx	C-BX	11/36	
	C-BXE	5.5/18	
	C-BXK	11/36	
	C-BXEK	5.5/18	
	C-BXET	5.5/18	
	C-BXE24	5.5/18	
	C-BXT	11/36	

● 230 – 400 V AC TRIPHAS - ● 230 V AC - ● 24 V DC INTENSIVE USE

Series	Model		
	Max door-leaf height (m/ft)	m/ft	
	SECTIONAL DOORS WITH DIRECT GRIP TRANSMISSION		
Cbx	C-BX	5.5/18	
	C-BXE	5.5/18	
	C-BXK	5.5/18	
	C-BXEK	5.5/18	
	C-BXET	5.5/18	
	C-BXE24	5.5/18	
	C-BXT	5.5/18	

● 230 – 400 V AC TRIPHAS - ● 230 V AC - ● 24 V DC INTENSIVE USE

Series	Model		
	Max door-leaf height (m/ft)	m/ft	
	SECTIONAL DOORS WITH CHAIN TRANSMISSION		
Cbx	C-BX	8.5/28	
	C-BXE	8.5/28	
	C-BXK	8.5/28	
	C-BXEK	8.5/28	
	C-BXET	8.5/28	
	C-BXE24	8.5/28	
	C-BXT	8.5/28	

● 230 – 400 V AC TRIPHAS - ● 230 V AC - ● 24 V DC INTENSIVE USE



SECTIONAL DOOR

This operator is often installed in designated loading/unloading areas, but is also commonly used as a main closure.

Series: Cbx



SLIDING DOOR

Widely used operator in industrial settings.

Series: Cbx



FOLDING DOOR

Operator for shutting large access openings while taking up little lateral room when door is open.

Series: F4000 - Cbx

The flashing light: additional safety!

Came suggests also fitting a flashing light to warn when mechanical parts are moving.

KIAROIN and KIARO24IN let you easily programme any periodic maintenance required by law, thanks to its manoeuvre counter feature.

Installers set the number of cycles and, once the limit is reached, an additional light signal warns that scheduled maintenance is required.



F4000

Doors up to 2 m / 6.5 ft

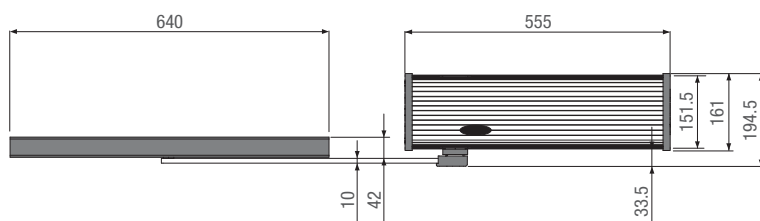


Ideal solution for applying to folding and swing-leaf doors

- For folding doors with slide guide or with two swing-leaves.
- Easy installation thanks to the aluminium alloy anchoring base.
- Can be installed either right or left of the door thanks to the symmetrical inputs to the gear shaft.
- Ideal for installing outdoors thanks to the IP54 rated gaskets that protect from weather agents.
- The 24 V DC version lets you adjust the door run and closing strike speeds, when opening and closing, plus provide electronic obstacle detection.



Dimensions (mm)



Limits to use

MODEL	F4000 - F4024
SWING LEAF DOORS	
Max door-leaf width (m/ft) / Max door-leaf weight (Kg/lb)	2 / 300 - 6.5 / 660
SINGLE-LEAF FOLDING DOORS	
Max door-leaf width (m/ft) / Max door-leaf weight (Kg/lb)	1.5 / 200 - 5 / 440

● 230 V AC - ● 24 V DC

Technical features

Type	F4000	F4024
Protection rating IP	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	24 DC
Current draw (A)	1.9	15 MAX
Power (W)	235	180
Crown turns (rpm)	1.3	2.4
Duty cycle (%)	30	INTENSIVE USE
Torque (Nm)	340	470
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Reduction ratio (l)	1/150	1/150
Motor thermo protection (°C/°F)	150/302	-

● 230 V AC - ● 24 V DC

The complete range



Code	Description
230 V AC operator	
001 F4000	Self-locking operator.
Control panels for 230 V AC operators	
002 ZA3C	Control panel with radio decoder complete with safety block and buttons.
002 ZC3	Control panel with manoeuvre thrust function, radio decoder and auto-diagnosis of safety devices.
002 ZC3C	Control panel with manoeuvre thrust function, radio decoder, safety block and buttons and auto-diagnosis of safety devices.
002 ZM3EC	Multifunction control panel, complete with safety block and buttons, signalling display, radio decoder and auto-diagnosis of safety devices.
24 V DC external operator and control panels tested in compliance with EN12453 - EN12445	
001 F4024	Self-locking operator.
002 ZL170N	Control panel for one-leaf swing gates with radio decoder.
002 ZL19N	Control panel for two-leaf swing gates with radio decoder.
Accessories for: 002ZL170N - 002ZL19N	
002 LB18	Casing with emergency card, fitted to house n. 3 12 V - 7 Ah batteries.
Accessories	
001 F4004	Transmission slide arm and slide guide.
001 CMS	Release handle with customized key and cord reset L = 7 m / 22.96 ft.
001 C002	Pendulum release system.

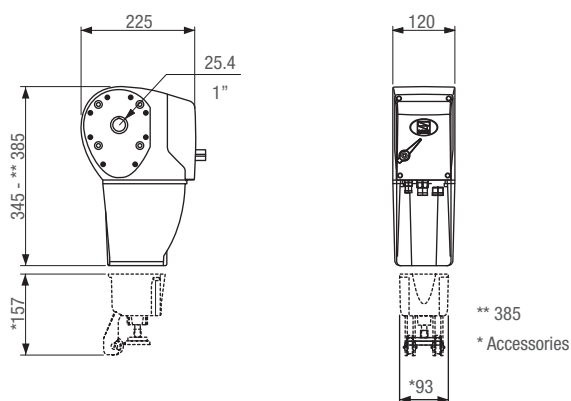




Ideal solution for applying to sliding and sectional doors

- A complete range available in the 24 V DC, 230 V AC and 230 - 400 V AC tri-phase versions.
- C-BXK and C-BXEK provide superior torque performance, allowing them to be actuated by with 230 V AC even on very heavy doors.
- The operator for sliding and folding-sliding doors as well as for sectional doors with "direct grip" transmission.
- The 24 V DC version lets you adjust the gate run and slow-down speeds.
- The user-friendly winch device lets you open the door manually.
- Can be installed either horizontally or vertically to meet all application needs.
- Some models are encoder-fitted to electronically manage movement control of the door.
- Two 230 - 400 V AC tri-phase models, even with encoder, to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	C-BX	C-BXT	C-BXE	C-BXET	C-BXE24	C-BXK	C-BXEK
SECTIONAL WITH DIRECT GRIP TRANSMISSION							
Max door-leaf height (m/ft)	5.5/18	5.5/18	5.5/18	5.5/18	5.5/18	5.5/18	5.5/18
SECTIONAL WITH CHAIN TRANSMISSION							
Max door-leaf height (m/ft)	8.5/28	8.5/28	8.5/28	8.5/28	8.5/28	8.5/28	8.5/28
SLIDING AND SLIDING-FOLDING DOORS							
Max door-leaf height (m/ft)	11/36	11/36	5.5/18	5.5/18	5.5/18	11/36	5.5/18

● 230 V AC - ● 24 V DC - ● 230 - 400 V AC TRIPHASE









Technical features

Type	C-BX	C-BXT	C-BXE	C-BXET	C-BXE24	C-BXK	C-BXEK
Protection rating IP	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 - 400 V AC TRIPHASE	230 AC	230 - 400 V AC TRIPHASE	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 - 400 V AC TRIPHASE	230 AC	230 - 400 V AC TRIPHASE	24 DC	230 AC	230 AC
Current draw (A)	2.2	2.5	2.2	2.5	9 MAX	3.6	3.6
Power (W)	450	780	450	780	240	750	750
Crown turns (rpm)	21.5	21.5	21.5	21.5	26.5	21.5	21.5
Duty cycle (%)	30	50	30	50	INTENSIVE USE	30	30
Torque (Nm)	60	80	60	80	25	120	120
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131						
Motor thermo protection (°C/°F)	150/302	150/302	150/302	150/302	-	150/302	150/302

● 230 V AC - ● 24 V DC - ● 230 - 400 V AC TRIPHASE

The complete range



Code	Description
230 V AC operators	
001 C-BX	Operator with mechanical endstop (450 W).
001 C-BXK	Operator with mechanical endstop (750 W).
Control panels for 230 V AC operators	
002 ZC3	Control panel with manoeuvre thrust function, radio decoder and auto-diagnosis of safety devices.
002 ZC3C	Control panel with manoeuvre thrust function, radio decoder, safety block and buttons and auto-diagnosis of safety devices.
002 ZM3EC	Multifunction control panel, complete with safety block and buttons, signalling display, radio decoder and auto-diagnosis of safety devices.
230 V AC operators	
001 C-BXE 	Operator with encoder (450 W).
001 C-BXEK 	Operator with encoder (750 W).
Control panels for 230 V AC operators	
002 ZCX10	Control panel with signalling display, radio decoder and auto-diagnosis of safety devices.
002 ZCX10C	Control panel complete with safety block and buttons, signalling display, radio decoder and auto-diagnosis of safety devices.
24 V DC operator	
001 C-BXE24  	Operator with encoder.
Control panels for 24 V DC operators	
002 ZL80 	Control panel, complete with signalling display, radio decoder and auto-diagnosis of safety devices.
002 ZL80C 	Control panel complete with safety block and buttons, signalling display, radio decoder and auto-diagnosis of safety devices.
Accessories for: 002ZL80 - 002ZL80C	
002 BN1 	Card for connecting n. 2 12 V - 1.2 Ah emergency batteries.
230 - 400 V AC 3-phase operator	
001 C-BXT 	Operator with mechanical endstop.
Control panels for 230 - 400 V AC 3-phase operators	
002 ZT6 	Control panel with radio decoder and auto-diagnosis of safety devices.
002 ZT6C 	Control panel, complete with safety block and buttons, including radio decoder and auto-diagnosis of safety devices.



The complete range



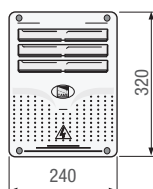
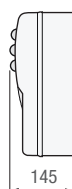
Code	Description
230 - 400 V AC 3-phase operator	
001 C-BXET	Operator with encoder.
Control panels for 230 - 400 V AC 3-phase operators	
002 ZT5	Control panel with signalling display, radio decoder and auto-diagnosis of safety devices.
002 ZT5C	Control panel complete with safety block and buttons, signalling display, radio decoder and auto-diagnosis of safety devices.
Accessories for: FOLDING SLIDING DOORS	
009 CCT	1/2 in simple chain.
009 CGIU	Joint for 1/2 in chain.
001 C003	Transmission system for sliding doors, complete with shaft with a Z = 26 pinion for hollow gear shaft, chain tightening transmission system, operator securing brackets and door leaf fixing brackets.
001 C004	Transmission system for folding doors, complete with shaft with a Z = 26 pinion for hollow gear shaft, chain tightening transmission system, operator securing brackets and chain hooking for door-leaf pin.
Accessories for: SECTIONAL DOORS	
001 C005	Chain transmission system for sectional doors (for door leaves higher than 5.5 m / 18.05 ft) complete with shaft with a Z = 26 pinion for hollow gear shaft, Z = 40 pinion with chain and 1/2 in chain joint, and operator securing brackets.
001 C006	Package of n. 2 pre-holed brackets for sectional doors with spring shaft Ø 25.4 mm / 1 in (accessory required in case of installation on a door with a direct-grip operator).
001 C007	Accessory for sectional doors with a Ø 25 mm / 0.98 in spring shaft.
001 C008	Accessory for sectional doors with a Ø 40 mm / 1.57 in spring shaft.
001 C009	Operator support bracket for sectional doors with a Ø 25.4 mm / 1 in (accessory required in case of installation on a door with a direct-grip operator).
001 C010	Winch for manual operations with DIN 766 Ø 3 mm / DIN 766 Ø 0.19 in chain for sectional doors (chain L = 10 m / 32. ft).
Accessories	
001 CMS	Release handle with customized key and cord reset. L = 7 m / 22.96 ft.
001 C002	Pendulum release system.



Electronic features

The table shows all control panel features for industrial door operators. Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)



002ZA3C	002ZCX10
002ZC3	002ZCX10C
002ZC3C	002ZT5
002ZM3EC	002ZT5C
002ZL170N	002ZT6
002ZL19N	002ZT6C
002LB18	002ZL80
	002ZL80C





The models

	F4000	F4000 C-BX C-BXK	F4024	F4024	F4000 C-BX C-BXK	C-BXE C-BXEK	C-BXE24	C-BXET	C-BXT
Type	ZA3C	ZM3EC	ZL170N	ZL19N	ZC3 ZC3C	ZCX10 ZCX10C	ZL80 ZL80C	ZT5 ZT5C	ZT6 ZT6C
SAFETY									
SELF-DIAGNOSIS of safety devices		●		●	●	●	●	●	●
Opening and closing PRE-FLASHING	●	●	●	●	●	●	●	●	●
RE-OPENING during closing	●	●	●	●	●	●	●	●	●
RE-CLOSING during opening	●	●			●	●	●	●	●
Obstacle STALL		●				●	●	●	
TOTAL STOP	●	●	●	●	●	●	●	●	●
PARTIAL STOP	●	●	●	●	●	●	●	●	●
OBSTACLE DETECTION in front of photocells	●	●	●	●	●	●	●	●	●
ENCODER		●				●	●	●	
MOVEMENT CONTROL and OBSTACLE DETECTION device									
AMPEROMETRIC DETECTION		●	●	●		●	●	●	
COMMAND									
1 leaf PEDESTRIAN OPENING		●		●					
1 leaf PARTIAL OPENING	●	●			●	●	●	●	●
OPEN ONLY from the transmitter and/or the button	●	●	●	●	●	●	●	●	●
OPEN ONLY or CLOSE ONLY button connection	●	●	●	●	●	●	●	●	●
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●	●	●	●	●	●	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button	●	●	●	●	●	●	●	●	●
MAINTAINED ACTION	●	●	●	●	●	●	●	●	●
1st leaf DELAYED OPENING	●	●		●					
2nd LEAF DELAYED CLOSING	●	●		●					
IMMEDIATE CLOSING									
EMERGENCY RELEASE from the transmitter									
FEATURES AND SETTINGS									
FLASHING LIGHT connection	●	●	●	●	●	●	●	●	●
CYCLE LAMP connection	●	●	●	●	●	●	●	●	●
COURTESY LAMP connection		●			●	●	●	●	●
Antenna	●	●	●	●	●	●	●	●	●
OPEN WARNING LIGHT connection	●	●	●	●	●	●	●	●	●
CLOSE WARNING LIGHT connection									●
Contact output for 2nd RADIO CHANNEL	●	●	●	●	●	●	●	●	●
RUNNING TIME adjustment	●	●	●		●	●	●	●	
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●	●	●	●	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection	●	●	●	●					
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	●	●	●	●	●	●	●
OPENING and/or CLOSING slow-down		●	●	●		●	●		
EMERGENCY BATTERY operation (option)			●	●			●		
MASTER-SLAVE						●	●	●	●
Adjustable RUNNING and SLOW-DOWN SPEED		●	●	●			●		
Signalling DISPLAY		●				●	●	●	
Electronic BRAKE					●	●		●	●
Opening and closing endstop SELF-LEARNING									

● 230 – 400 V AC TRIPHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

Operators for: **ROLLING AND SWING SHUTTERS**

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Your selection guide

Rolling and swing shutters

The tables summarise the series and models with max limits to use depending on the lifting force of the rolling and swing shutter.

Series	Model
	Lifting force (Kg/lb)
	OPERATORS FOR ROLLING SHUTTERS
H	H1003 120/265
	H1103
	H2003 200/440
	H2103

● 230 V AC

Series	Model
	Max leaf weight (Kg)
	OPERATORS FOR SWING SHUTTERS
Volare	VL002 N 35/77
	VL001DX N
	VL001SX N

● 24 V DC INTENSIVE USE



Rolling SHUTTERS

Operator used for shutting business premises, but also residential ones.
Series: H

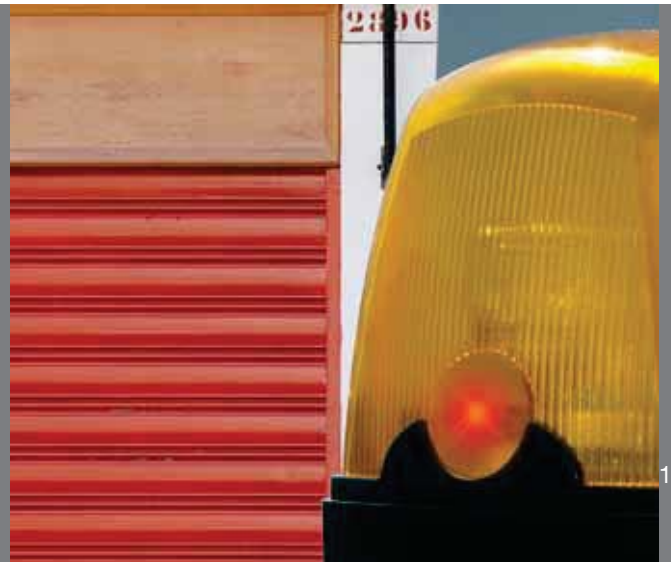


Swing SHUTTERS

Easy to fit and needs no set up. Ideal for any material-type shutters; even ones with folding leaves.
Series: Volare

The flashing light: additional safety!

The operators installed in industrial facilities are often protected by a periodic maintenance program.
To this end the KIAROIN and KIARO24IN versions, fitted with a special manoeuvre-counter feature, are a good way to be notified about intervals between scheduled maintenance actions.



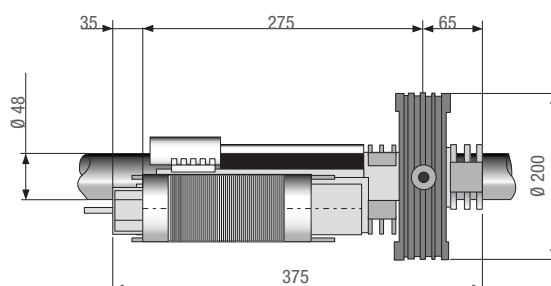
Lift capacity up to 200 Kg / 440 lb

Ideal solution for rolling shutters for house and apartment block alike



- The operator suited to different application settings, from private to business premises.
- Adaptable to shutter shafts with diameters from 48 mm to 60 mm / 1.89 in to 2.36 in and springs from 200 mm to 220 mm / 7.87 in to 8.66 in.
- Can fit a second motor to increase the lift capacity.
- Easy and precise run adjusting.
- Standard series adaptors for all models.

Dimensions (mm)



Limits to use

MODEL	H1003	H1103	H2003	H2103
Max lift capacity (Kg/lb)	120/265	120/265	200/440	200/440

● 230 V AC

Technical features

Type	H1003	H1103	H2003	H2103
Protection rating IP	IP40	IP40	IP40	IP40
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Current draw (A)	2.4	2.4	4.5	4.5
Power (W)	270	270	500	500
Reduction ratio (I)	1/150	1/150	1/150	1/150
Duty cycle (%)	30	30	30	30
Crown turns (rpm)	9	9	9	9
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			
Motor thermo protection (°C/°F)	150/302			

● 230 V AC

The complete range



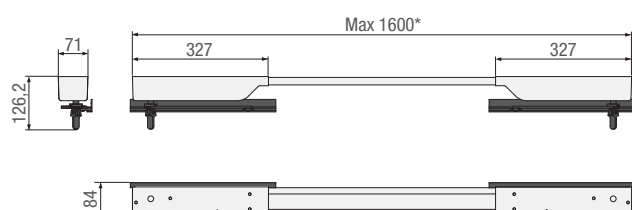
Code	Description
230 V AC operators for shutter post with a diameter from 48 mm / 1,88 in to 60 mm / 2,36 in and springs from 200 mm / 7,87 in to 220 mm / 8,66 in	
001H1003	Self-locking operator complete with cord-release (lift capacity: 120 Kg / 265 lb).
001H2003	Self-locking operator with two motors complete with cord-release (lift capacity: 200 Kg / 440 lb).
001H1103	Reversible operator (lift capacity: 120 Kg / 265 lb).
001H2103	Reversible operator with two motors (lift capacity: 200 Kg / 440 lb).
Control panel for 230 V AC operators	
002ZR24	Control panel with radio decoder.
Accessories for: 001H1003 - 001H1103	
001H3100	Reversible gearmotor.
Accessories for: 001H1103 - 001H2103	
001H3012	Electroblocker for reversible operators complete with release cord L = 5 m / 16.4 ft and handle.
Accessories for: 001H1003 - 001H2003	
001H3001	Safety casing for cord-release, complete with handle and command button L = 5 m / 16.40 ft.



Put wings on your windows

- The encoder-based motor makes for high performance while providing control even encountering obstacles (anti-crushing feature).
- Self-learning of the opening and closing end stop points.
- Manual release device for emergency blackout situations.
- Fitted with control board to simplify installation.
- User friendly radio transmitter for total control.
- Only takes up 10 cm / 3.93 in in depth to cut back on aesthetic clutter.
- Fits quick and easy; even on pre-fitted windows.
- Tough weather-proof protection.

Dimensions (mm)



Application (mm)



Mechanical emergency release device.



Place the mounting template under the lintel, drill where marked and fasten the base.

Limits to use

MODEL	VL002 - VL001DX - VL001SX
Max leaf width (m/ft)	1,05/3.44
Max leaf weight (Kg/lb)	35/77

● 24 V DC

NOTES :

*2100 with profile 001VL004










Technical features

Type	VL002 - VL001DX - VL001SX
Protection rating IP	44
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	7 MAX
Power (W)	150
Reduction ratio (I)	30
Duty cycle (%)	INTENSIVE USE
Crown turns (rpm)	33
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The complete range



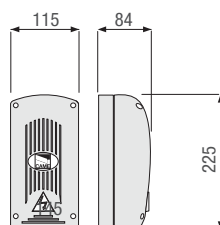
Code	Description	
Complete automation system with 24 V DC operator for two-leaf tested in compliance with EN 12453 - EN 12445		
001VL002	Complete set for single panel swing leaves up to 0.8 m / 2.62 ft composed of: n.1 self-losing operator complete with control board and built-in radio decoder, encoder-based movement control and obstacle detection device and transmission arm. n.1 self-losing operator for single panel swing leaves and transmission arm. n.1 cover	   
Complete automation system with 24 V DC operator for one-leaf tested in compliance with EN 12453 - EN 12445		
001VL001DX	Right-hand self-losing operator for one single panel swing leaf up to 0.8 m / 2.62 ft complete with control board and built-in radio decoder, encoder-based movement control and obstacle detection device and transmission arm.	
001VL001SX	Left-hand self-losing operator for one single panel swing leaf up to 0.8 m / 2.62 ft complete with control board and built-in radio decoder, encoder-based movement control and obstacle detection device and transmission arm.	
Accessories		
001VL003DX	Right-side transmission arm for two hinged-panel swing leaves.	
001VL003SX	Left-side transmission arm for two hinged-panel swing leaves.	
001VL004	Shell casing L = 1.5 m / 4.92 ft for passage widths up to 2.10 m / 6.88 ft wide and connector cable between operators.	



Electronic features

The table shows all control panel features for rolling and swing shutter specific operators.
Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)



002ZR24



Control panel for: ROLLING AND SWING SHUTTERS



The models

	H1003 H1103 H2003 H2103	VL002 VL001DX VL001DX
Type	ZR24	ZLV1

SAFETY

SELF-DIAGNOSIS of safety devices

Opening and closing PRE-FLASHING		
RE-OPENING during closing	●	
RE-CLOSING during opening		
Obstacle STALL		
TOTAL STOP	●	
PARTIAL STOP		
OBSTACLE DETECTION in front of photocells		●
ENCODER		●
MOVEMENT CONTROL and OBSTACLE DETECTION device		●
AMPEROMETRIC DETECTION		

COMMAND

1 leaf PEDESTRIAN OPENING		
1 leaf PARTIAL OPENING		
OPEN ONLY from the transmitter and/or the button		
OPEN ONLY or CLOSE ONLY button connection		
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button	●	●
MAINTAINED ACTION	●	
1st leaf DELAYED OPENING		●
2nd LEAF DELAYED CLOSING		●
IMMEDIATE CLOSING		
EMERGENCY RELEASE from the transmitter		

FEATURES AND SETTINGS

FLASHING LIGHT connection	●	
CYCLE LAMP connection		
COURTESY LAMP connection	●	
Antenna	●	
OPEN WARNING LIGHT connection		
CLOSE WARNING LIGHT connection		
Contact output for 2nd RADIO CHANNEL		
RUNNING TIME adjustment	●	
SELF-LEARNING of the transmitter's RADIO CODE	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection		
Adjustable AUTOMATIC RE-CLOSING TIME	●	
OPENING and/or CLOSING slow-down		●
EMERGENCY BATTERY operation (option)		
MASTER-SLAVE		
Adjustable RUNNING and SLOW-DOWN SPEED		
Signalling DISPLAY		
Electronic BRAKE		
Opening and closing endstop SELF-LEARNING		●

● 230 V AC - ● 24 V DC

Operators for:

PARKING SPACE SAVERS

AND CHAIN BARRIER

164	Your selection guide
166	Unipark
168	Cat
170	Electronic features
171	Control panels for: PARKING SPACE SAVERS AND CHAIN BARRIERS

Your selection guide

Parking space savers and chain barriers

The tables summarise the series and models based on the max width of parking spaces or max passage clearance width.

Series Model	
Max width of parking space (m/ft)	
PARKING SPACE SAVER	
Unipark	UNIP + ARK1 2/6.5
	UNIP + ARK 2 2.2/7.2

● 24 V DC INTENSIVE USE

Series Model	
Max passage-room width (m/ft)	
CHAIN BARRIER	
Cat	CAT-X + GENUA-TYPE CHAIN 5 mm / 0.19 in 8/26
	CAT-X + GENUA-TYPE CHAIN 5 mm / 0.19 in 16/53
	CAT-X24 + GENUA-TYPE CHAIN 9 mm / 0.35 in 8/26
	CAT-X24 + GENUA-TYPE CHAIN 5 mm / 0.35 in 16/53

● 230 V AC - ● 24 V DC INTENSIVE USE



For a single PARKING SPACE

Ideal for apartment block parking facilities or for those reserved to authorised parking.

Series: Unipark



For several PARKING SPACES

Ideal for small apartment block parking facilities or to reduce the visual impact of chain barriers.

Series: Cat

The flashing light: additional safety!

Came suggests also fitting a flashing light to warn when mechanical parts are moving.

KIAROIN and KIARO24IN let you easily programme any periodic maintenance required by law, thanks to its manoeuvre counter feature.

Installers set the number of cycles and, once the limit is reached, an additional light signal warns that scheduled maintenance is required.



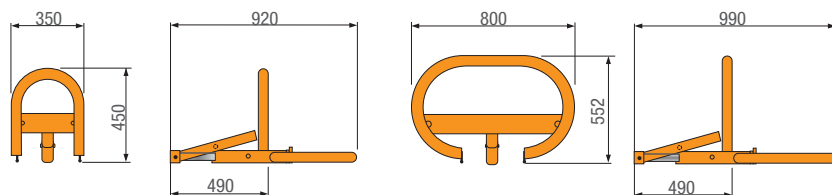
Parking spaces up to 2.2 m / 7.2 ft

The ideal solution for applying parking space savers in both residential and public parking

- An innovative idea to reserve one's parking space, commanded by radio transmitter.
- Emergency mode operation in case of power outages.
- Two models are available: the small and the large versions, which have a simple, functional anchoring base.
- Safety is guaranteed by the amperometric obstacle-detection device and the limit switches.



Dimensions (mm)



Colour: RAL 1028

Limits to use

MODEL	UNIP + ARK1	UNIP + ARK2
Max width of parking space (m/ft)	2/6.5	2.2/7.2

● 230 V AC ● 24 V DC





Technical features

Type	UNIP
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Power draw (A)	1.7 MAX
Power rating (W)	20
Opening and closing time (s)	10
Duty cycle (%)	INTENSIVE USE
Crush-proof resistance (Kg/cm ² - lb/in ²)	2.5 / 0.85
Working time (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Motor heat protection (°C/°F)	-

● 230 V AC ● 24 V DC

The complete range



Code	Description
Parking-space saver with 24 V DC operator	
001 UNIP 	Self-locking operator complete with fixing plate.
Control panel for 24 V DC operators	
002 ZL22 	Control panel for one barrier with radio decoder (possibility of controlling up to 4 barriers with n. 3 additional 002LM22 cards).
Accessories for: 002ZL22	
002 LM22 	Motor-management extension card.
002 LB22 	Card for connecting n. 2 12 V - 1.2 Ah emergency batteries.
Mandatory accessories	
001 ARK1	"Small" barrier.
001 ARK2	"Large" barrier.

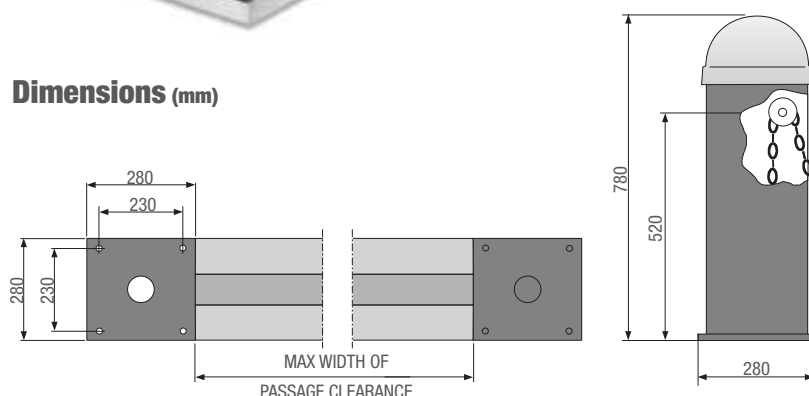


Passage clearance up to 16 m / 53 ft

The ideal solution when applying chain barriers in historical town centres or in private and public settings

- A Came-patented proposal for managing reserved area parking.
- A sturdy steel product.
- The guides ensure protection to the chain when passage is open.
- The 24 V DC version provides obstacle detection and chain speed adjustments.
- Quick and easy to install.

Dimensions (mm)



Cover colour: RAL 9006 - Cabinet colour: textured grey cod. 053 0837

Limits to use

CHAIN MODEL	5 mm / 0.19 in (001CAT-15)	9 mm / 0.35 in (001CAT-5)
Max width of passage clearance (m/ft)	16/53	8/26

Technical features

Type	CAT-X	CAT-X24
Protection rating IP	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	24 DC
Power draw (A)	2.7	20 MAX
Power rating (W)	300	240
Opening and closing time (s)	11	ADJUSTABLE
Duty cycle (%)	30	INTENSIVE USE
Traction force (Kg/lb)	50/110	50/110
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Motor thermo protection (°C/°F)	150/302	-

● 230 V AC ● 24 V DC

The complete range



CAME

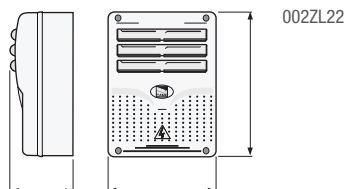
Code	Description
230 V AC chain barrier	
001 CAT-X	Bollard with operator and built-in control panel.
24 V DC chain barrier	
001 CAT-X24	Bollard with operator and built-in control panel.
Accessories for: 00CAT-X24	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
Chain barrier bollard	
001 CAT-I	Bollard with counterweights and chain hooking.
Accessories	
001 CAT-5	9 mm / 0.35 in genua-type chain for clearances up to 8 m / 26 ft.
001 CAT-15	5 mm / 0.19 in genua-type chain for clearances up to 16 m / 53 ft.
001 CAR-2	Floor-level chain-protection guide (L = 2 m / 6.56 ft).
001 CAR-4	Underground chain-protection guide (L = 2 m / 6.56 ft).



Electronic features

The table shows all of the features of the control panels for parking space savers and chain barriers.
Those in bold-type are important when selecting which operator to fit and should be considered from the start.

Dimensions (mm)



Control panels for: PARKING SPACE SAVERS AND CHAIN BARRIERS



The models

	CAT-X	CAT-X24	Unip
Type	ZC5	ZL37C	ZL22

SAFETY

SELF-DIAGNOSIS of safety devices			
Opening and closing PRE-FLASHING		●	
RE-OPENING during closing	●	●	●
RE-CLOSING during opening			
Obstacle STALL			
TOTAL STOP	●	●	●
PARTIAL STOP			
OBSTACLE DETECTION in front of photocells		●	
ENCODER			
MOVEMENT CONTROL and OBSTACLE DETECTION device			
AMPEROMETRIC DETECTION		●	●

COMMAND

1 leaf PEDESTRIAN OPENING			
1 leaf PARTIAL OPENING			
OPEN ONLY from the transmitter and/or the button			
OPEN ONLY or CLOSE ONLY button connection	●	●	
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button			
OPEN-CLOSE-REVERSE from the transmitter and/or the button		●	●
MAINTAINED ACTION	●	●	
1st leaf DELAYED OPENING			
2nd LEAF DELAYED CLOSING			
IMMEDIATE CLOSING		●	
EMERGENCY RELEASE from the transmitter			

FEATURES AND SETTINGS

FLASHING LIGHT connection	●	●	
CYCLE LAMP connection			
COURTESY LAMP connection			
Antenna	●	●	●
OPEN WARNING LIGHT connection	●	●	
CLOSE WARNING LIGHT connection	●		
Contact output for 2nd RADIO CHANNEL			
RUNNING TIME adjustment			
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection			
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	
OPENING and/or CLOSING slow-down			
EMERGENCY BATTERY operation (option)		●	●
MASTER-SLAVE			
Adjustable RUNNING and SLOW-DOWN SPEED		●	
Signalling DISPLAY			
Electronic BRAKE			
Opening and closing endstop SELF-LEARNING			

● 230 V AC - ● 24 V DC INTENSIVE USE

Accessories for:

COMMAND AND SAFETY

174	Your selection guide
176	Security
177	Integrated systems
178	Radio transmitted commands
179	Table of features
180	Zero-E
182	Set
184	Digital
186	Kiaro
188	Df
190	Delta-Dir-Delta S
192	Db
194	Atomo
196	Tam
198	Top
200	Twin
202	Top
204	Touch

Your selection guide



The command and safety accessories complete the installation and monitor its proper working state to give users peace of mind.














The range of accessories made available by Came meets all of the needs associated with different types of installations, in total compliance with European Standards and Regulations. The following pages are designed to guide and simplify the choice of accessories that best meet your system's needs. Included are also all of the technical information needed about Came's vast range of products.

Safety accessories

Product	Feature	Series	Type	Code
Photocells	Flush-mounted	Delta S	Synchronised infrared	001DELTA-SI
	Flush-mounted	Delta	Infrared	001DELTA-I
	Surface-mounted	Delta S	Synchronised infrared	001DELTA-SE
	Surface-mounted	Delta	Infrared	001DELTA-E
	Surface-mounted	Dir	Synchronised infrared	001DIR10
	Surface-mounted	Dir	Synchronised infrared	001DIR20
	Surface-mounted	Dir	Synchronised infrared	001DIR30
	Surface-mounted	Db	RX/TX cordless	DBC001
	Surface-mounted	Db	Repeater module	DBC001
	Surface-mounted	Db	Repeater module	DBC001
Sensitive safety edges	Mechanical	Df	Ready to use	001DF15
		Df	Ready to use	001DF17
		Df	Ready to use	001DF20
		Df	Ready to use	001DF25
		Df	To assemble	001TMF
		Df	To assemble	001TMF6
		Df	To assemble	001DFI
	230 V AC	Kiaro	Base	001KIARON
		Kiaro	Xenon	001KIAROLXN
		Kiaro	Manoeuvre counter	001KIAROIN
Flashing lights	24 V AC	Kiaro	Base	001KIARO24N
		Kiaro	Manoeuvre counter	001KIARO24IN



Command accessories

Product	Feature	Series	Type	Code	
Selectors	Surface-mounted	S	Digital	001S5000 001S7000 001S9000	
		S	Transponder	001TSP01	
			With magnetic key	001SEM-2 001SEM-2	
		S	With key	001SET-E 001SET-EN 001SET-J	
	Flush-mounted	S	Digital	001S6000	
			With key	001SET-I 001SET-K	
Sensors	To fit into the control panel -	S	Metal mass detection	009SMA 009SMA2 009SMA220	
Transmitters	433.92 MHz	Atomo	Rolling code	001AT01 AT001 001AT04	
		Tam		001TAM-432SA 001T432 001T434 001T438	
		Top		001TOP-432EV 001TOP-434EV 001TOP-432NA 001TOP-434NA 001TOP-432A 001TOP-434A 001TOP-432S	
		Twin		001TWIN2 001TWIN4	
	868.35 MHz	Top		001TOP-862NA 001TOP-864NA	
	40.685 MHz	Touch		001TCH-4024 001TCH-4048	



Safety

General features



Photocells: **SYNCHRONISED INFRARED BEAM**

The beam synchronisation makes it possible to fit multiple pairs of photocells to one system, even at double heights and/or distances, with no interference problems.



Photocells: **THE CORDLESS VERSION**

The cordless photocells make it possible to set up protection around the automated system even if the latter were not originally part of the project.



The integrated safety system **PHOTOCELLS-SENSITIVE EDGES (Db + Df)**

Transmission of the infrared beam signal makes it possible to protect the system's moving leaf fitted with the sensitive edge with no complex and costly hardwiring needed (only for Bx-243, Bx and Bk series operators).



The flashing light: **KIARO, THE ASSISTANT FLASHING LIGHT**

001KIAROIN and 001KIARO24IN flashing lights can be set to flash after the operator has performed: 5,000 - 10,000 - 20,000 - 50,000 manoeuvres.

An integrated additional red light indicates such function (if activated) and allows programming of maintenance interventions.

The Delta S series photocells

The synchronised infrared beam technology enables the 001DELTA-SI and 001DELTA-SE photocells to be installed without needing to invert the position of the transmitters and receivers, when the pairs are close to each other.

Delta S therefore makes for numerous installations with no interference issues among the devices beams; including the small posts and the flush-mounted cases of the Doc series.

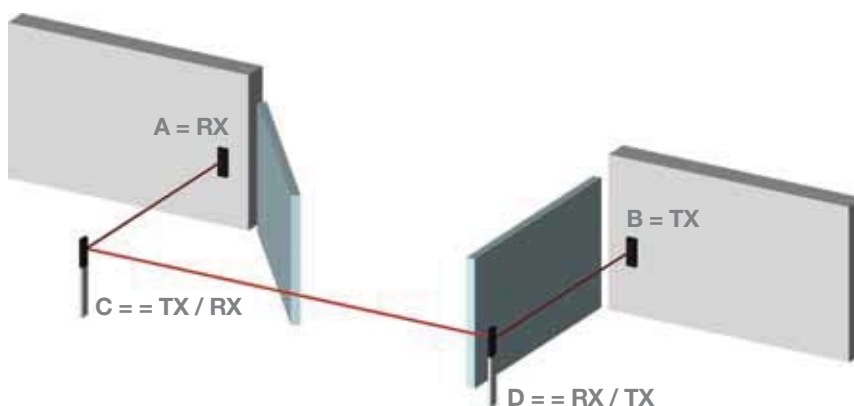
Integrated systems



The Db PERIMETER COVERAGE system

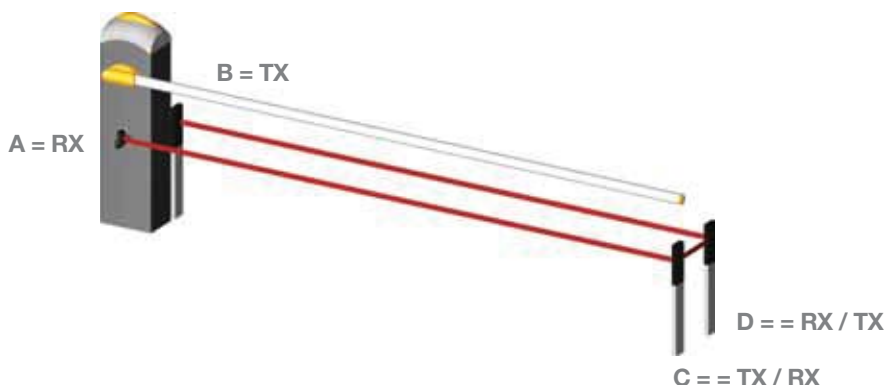
Example perimeter coverage
of a system with a **SWING GATE**

A = 001DBC01 receiver
B = 001DBC01 transmitter
C = 001DBC03 repeater
D = 001DBC04 repeater



Example perimeter coverage
of a system with a **ROAD BARRIER**

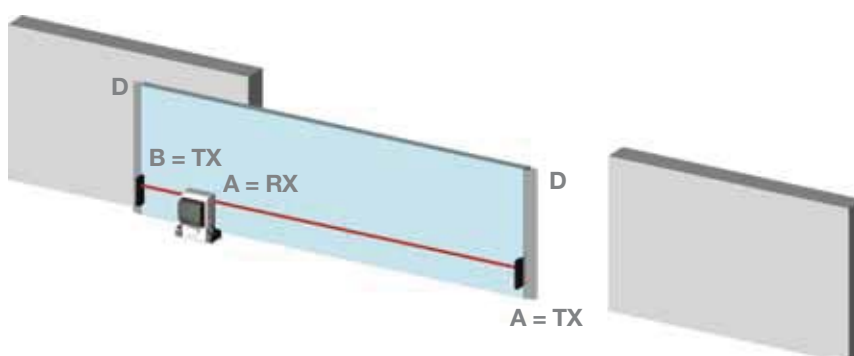
A = 001DBC01 receiver
B = 001DBC01 transmitter
C = 001DBC03 repeater
D = 001DBC04 repeater



The Db + Df integrated system

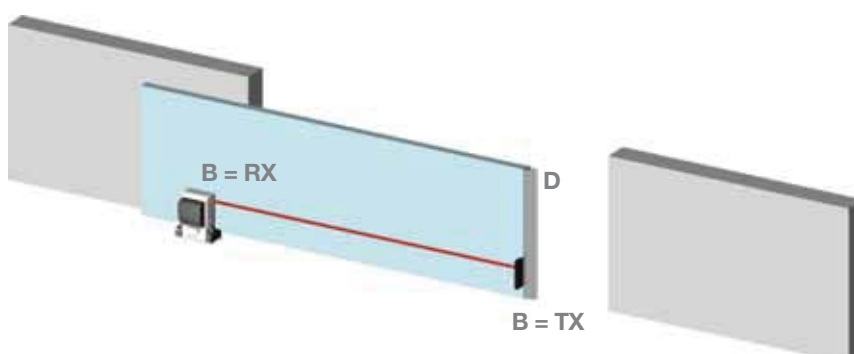
Example of integrated system protection
photocells and sensitive edges with
BIDIRECTIONAL RECEIVER

A = Pair of 001DBS02 photocells
B = 001DBCT transmitter module
D = Df series sensitive safety edges



Example of integrated system protection
photocells and sensitive edges with
MONODIRECTIONAL RECEIVER

B = Pair of 001DBS01 photocells
D = Df series sensitive safety edges



Radio command

General features



CERTIFICATION OF THE RADIO SYSTEMS

All of the radio systems are approved for use in both European and extra-European Countries.



SELF-LEARNING OF THE CODE TRANSMITTER - RECEIVER

The dedicated receiver memorises the transmitter code.



SELF-LEARNING OF THE CODE TRANSMITTER - TRANSMITTER

Duplicates one transmitter's code onto another transmitter.



CODE MULTI-USER

The transmitter issues different codes for each key, for independent control of systems within the same range of action.



TRANSPONDER FUNCTION

The transmitter is set up to fit the TAG, to control the combined use of radio and transponder features with the same device.



EIGHT CHANNELS

Controls eight different channels with one single transmitter.

Table of features



Features

	Model	SELF-LEARNING TRANSMITTER - TRANSMITTER	MULTI-USER	TRANSPONDER FUNCTION	8 CHANNELS
Atomo 433.92 MHz	AT01		•	•	
	AT02		•	•	
	AT04		•	•	
Tam 433.92 MHz	T432		•		•
	T434		•		•
	T438		•		•
	TAM-432SA	•	•		
Top 433.92 MHz	TOP-432EV	•	•	•	
	TOP-434EV	•	•	•	
	TOP-432NA	•	•	•	
	TOP-434NA	•	•	•	
	TOP-432A			•	
	TOP-434A			•	
	TOP-432S				
Top 868.35 MHz	TOP-862NA	•	•	•	
	TOP-864NA	•	•	•	
Touch 433.92 MHz	TCH-4024	•	•	•	
	TCH-4048	•	•	•	•
Twin 433.92 MHz	TWIN2	•	•	•	
	TWIN4	•	•	•	

TRANSMITTERS-RECEIVERS combinations

	Model	CARDS PLUG-IN RECEIVERS						SURFACE-MOUNTED RECEIVERS						RADIO MODULES		
		AF43S	AF43SR	AF43SM	AF43TW	AF40	AF868	RE432RC	RBE4RC	RE432	RBE4MT	RE432TW	RE402	RE862	RBE4N	RBE42
Atomo 433.92 MHz	AT01		●					●	●							
	AT02		●					●	●							
	AT04		●					●	●							
Tam 433.92 MHz	T432	●		●						●	●				●	●
	T434	●		●						●	●				●	●
	T438	●		●						●	●				●	●
	TAM-432SA	●		●						●	●				●	●
Top 433.92 MHz	TOP-432EV	●		●						●	●				●	●
	TOP-434EV	●		●						●	●				●	●
	TOP-432NA	●		●						●	●				●	●
	TOP-434NA	●		●						●	●				●	●
	TOP-432A	●		●						●	●				●	●
	TOP-434A	●		●						●	●				●	●
	TOP-432S	●		●						●	●				●	●
Top 868.35 MHz	TOP-862NA						●							●	●	●
	TOP-864NA						●							●	●	●
Touch 433.92 MHz	TCH-4024					●							●		●	●
	TCH-4048					●							●		●	●
Twin 433.92 MHz	TWIN2	●		●	●					●		●			●	●
	TWIN4	●		●	●					●		●			●	●

NOTES

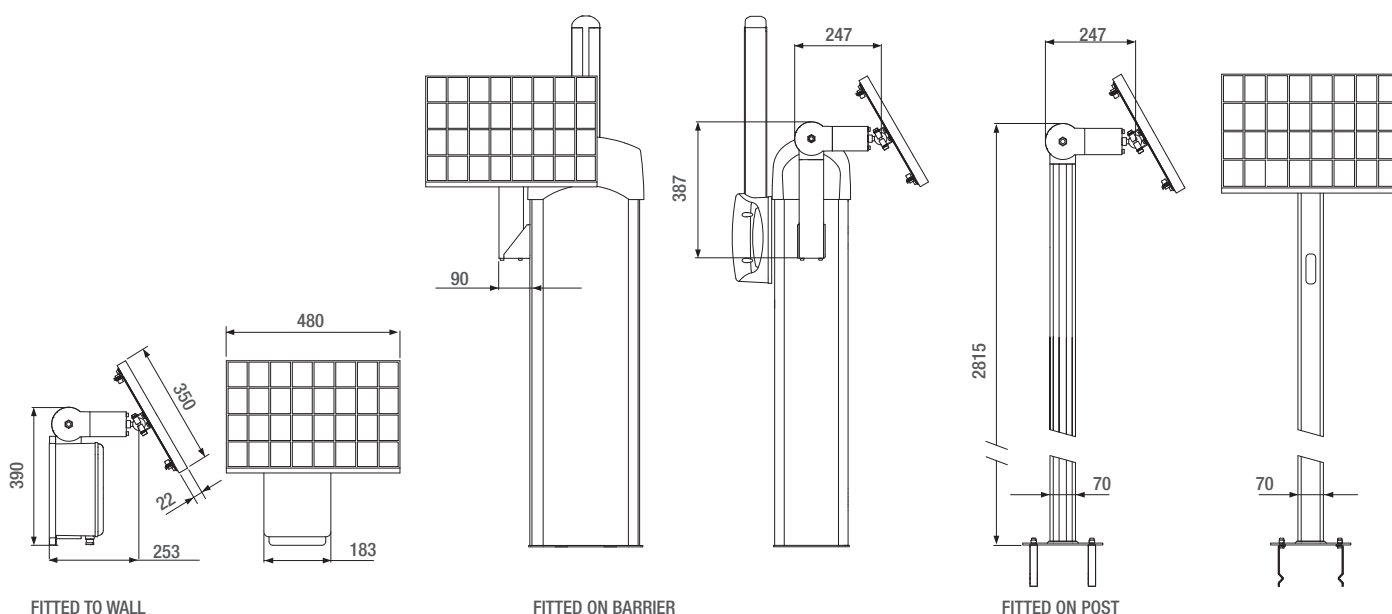
The radio module must be coupled to an AF plug-in radio frequency card. In order to choose the appropriate AF card, please check product pages dedicated to Came transmitters.



Solar power panel

- It blends perfectly with the new FAST40 swing gate operator.
- SLEEP MODE technology compatible that controls the operator's stand-by phases which cuts back on energy consumption when the system is idle.
- Standard modular structure made of galvanised aluminium to fit onto walls or barriers.
- Galvanised aluminium 2.70 m / 8.85 ft high post for fitting to ground.
- Optional battery compartment for mounting on walls or posts.
- Management and battery recharge card which also connects to the power mains in case of extended periods of weak sunlight.
- Streamlined connection thanks to two simple conductors from the panel to the LBS battery recharge card.

Dimensions (mm)



Technical features

Type	ZERO-E01
Max voltage (V)	21.6 DC
Max current (A)	1.19
Average voltage (V)	18
Average current (A)	1.12
Watt peak (Wp)	20
Operating temperature (°C/°F)	-25 ÷ +85 / -13 ÷ +185
Dimensions (mm/in)	350 x 480 x 22 / 11.81 x 18.89 x 0.86

The complete range

Code	Description
Photovoltaic panel kit	
001 ZERO-E01	Photovoltaic panel with adjustable joints, barrier mounting elements and (LBS) battery recharge card.
Wall mounting kit	
001 ZERO-E02	Card and battery compartment with wall-mounting plate and distancers.
Ground mounting kit	
001 ZERO-E03	Columns and plate for anchoring to ground.



ZERO-E is perfectly suited for the new operator FAST40 for swing gates.

Zero-E can be integrated, by applying it to a wall or post, with the new Fast40 swing gate operator, in the 24 V DC version (001FA4024CB). Thanks to the SLEEP MODE technology on the Fast40 control board, Zero-E works even in locations that are off the municipal power grid.



Sequence of arm movement for making adjustments depending on the geographic location

The system provides a 180° adjustment capability of the support for optimal sun exposure. The adjusting system is built into the panel holding bracket.



Wall-mounting

A wide range of applications that when wall mounted let you fit two batteries inside the control panel.

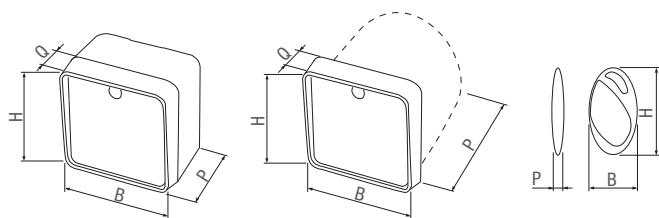
Key switch selectors

The command for all operators

- Made of die-cast aluminium, tamper and vandal proof.
- Available in the key, magnetic key card and transponder versions.



Dimensions (mm)



SURFACE-MOUNTED

FLUSH-MOUNTED

009PCT

MODEL	MOUNTING	B (mm/in)	H (mm/in)	P (mm/in)	Q (mm/in)
SET-I - SET-K - SEM2	FLUSH-MOUNTED	70/2.75	70/2.75	73/2.87	13/0.51
SET-E	SURFACE-MOUNTED	70/2.75	70/2.75	51/2	13/0.51
SET-EN	SURFACE-MOUNTED	70/2.75	70/2.75	51/2	13/0.51
SET-J - TSP01	SURFACE-MOUNTED	70/2.75	70/2.75	32/1.25	13/0.51
SEM2	SURFACE-MOUNTED	70/2.75	70/2.75	73/2.87	13/0.51
SMA - SMA2 - SMA220	TO FIT INTO THE CONTROL PANEL	23/0.9	94/3.7	92/3.62	-
PCT	-	33/1.29	49/1.92	4/0.15	-
TST01	-	ISO7810 - 7813 (85 x 54 mm / 3.34 x 2.12 in)			

Technical features

Type	SET-I	SET-E - SET-EN	SET-J	SET-K	SEM2	TSP01	SMA - SMA2	SMA220
Protection rating IP	IP54	IP54	IP54	IP54	IP54	IP54	-	-
Power supply (V)	-	-	-	-	-	-	-	230 AC
Rating (A - V)	1 - 24	1 - 24	3 - 24	3 - 24	1 - 24	5 - 24	5 - 24	5 - 24
Max number of associable cards	-	-	-	-	-	250	-	-
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131							
Material	ALUMINIUM ALLOY						ABS	ABS

The complete range



Code	Description
Selectors	
001 SET-I	Flush-mounted key switch with aluminium alloy casing and DIN cylinder.
001 SET-E	Surface-mounted key switch with aluminium alloy casing and DIN cylinder.
001 SET-EN	Black-varnished, surface-mounted key switch with aluminium alloy casing and DIN cylinder.
001 SET-K	Flush-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.
001 SET-J	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.
Magnetic key selector switches	
001 SEM-2	Surface-mounted magnetic key switch with aluminium alloy casing.
Transponder sensor	
001 TSP01	"Stand-alone" transponder for card, key-fob and TAG readers for up to 250 users.
Magnetic sensors	
009 SMA	12 - 24 V AC - DC one-channel magnetic loop-detector sensor.
009 SMA2	12 - 24 V AC - DC bi-channel magnetic loop-detector sensor.
230 V AC magnetic sensor	
009 SMA220	230 V AC one-channel magnetic loop-detector sensor.
Accessories for: 001SET-I - 001SET-K - 001TSP01	
001 CSS	Natural anodized aluminium post. H = 1 m / 3.28 ft.
001 CSSN	Black anodized aluminium post. H = 1 m / 3.28 ft.
Accessories for: 001SEM-2	
001 SEC	Code magnetic key.
001 CLM	Natural anodized aluminium post H = 1 m / 3.28 ft with tamper-proof support.
001 CLMN	Black anodized aluminium post H = 1 m / 3.28 ft with tamper-proof support.
Accessories for: 001TSP01	
001 TST01	Transponder card - ISO7810 - 7813 format.
009 PCT	Keyfob transponder.
009 TAG	Glass transponder bulb.

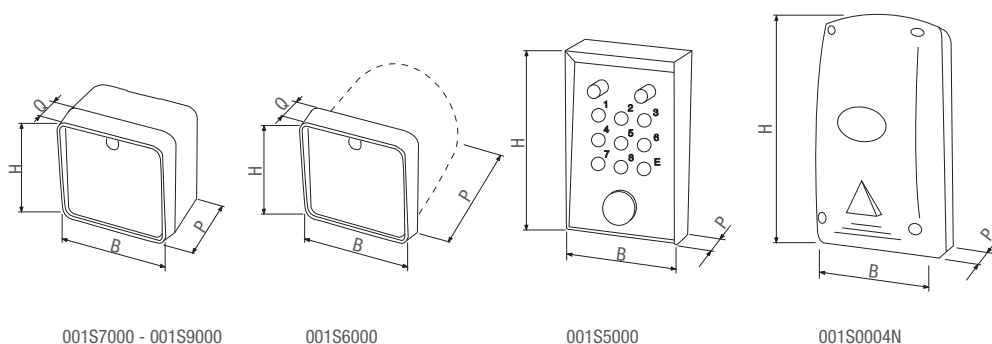


The digital command for all operators

- Safe and reliable thanks to the electronic anti-tampering system.
- Also with radio even for those systems not specifically designed to work with radio.
- In aluminium and stainless steel to provide resistance, reliability and durability over time.



Dimensions (mm)



MODEL	MOUNTING	B (mm/in)	H (mm/in)	P (mm/in)	Q (mm/in)
S5000	SURFACE-MOUNTED	80/3.14	130/5.11	40/1.57	-
S6000	FLUSH-MOUNTED	70/2.75	70/2.75	73/2.87	13/4.84
S7000	SURFACE-MOUNTED	70/2.75	70/2.75	51/2	13/4.84
S9000	SURFACE-MOUNTED	70/2.75	70/2.75	32/1.25	13/4.84
S0001 - S0002	SURFACE-MOUNTED	124/4.88	84/3.30	62/2.44	-
S0004N	SURFACE-MOUNTED	115/4.52	225/8.85	87/3.42	-

● 12 - 24 V AC

Technical features

Type	S5000	S6000	S7000	S9000
Protection rating IP	IP54	IP54	IP54	IP54
Power supply (V)	12 - 24 AC	12 - 24 AC	12 - 24 AC	1 GP23A 12 V DC BATTERY
Combinations	16,777,216	1,679,616	1,679,616	1,562,500
Radio signal frequency (MHz)	-	-	-	433.92
Code numbers	8 MAX	6 MAX	6 MAX	8 MAX
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			
Material	ALUMINIUM ALLOY - STEEL			

● 12 - 24 V AC

The complete range



Code	Description
Digital keypads	
001 S5000	Galvanized and painted steel surface-mounted keypad with illuminated panel. 16,777,216 combinations.
001 S6000	Flush-mounted keypad. 1,679,616 combinations.
001 S7000	Surface-mounted keypad. 1,679,616 combinations.
001 S9000	433.92 MHz surface-mounted radio keypad with 4 storable codes and programming-access password. Compatible with: 001AF43S - 001AF43SM - 001RE432 - 001RBE4MT radio receivers. 1,562,500 combinations.
Accessories for: 001S5000 - 001S6000 - 001S7000	
001 S0001	One-channel card.
001 S0002	Bi-channel card.
001 S0004N	4-channel card. Possibility of radio controlling the 1st channel.
433.92 MHz plug in radio receivers for: 001S9000	
001 AF43S	Frequency card.
001 AF43SM	Plug in radio frequency card with "eeprom" memory to store up to 128 user codes.
433.92 MHz surface mounted receivers for: 001S9000	
001 RE432	Surface mounted two-channel radio receiver IP54 12 - 24 V DC - DC.
001 RBE4MT	Surface mounted four-channel multiuser radio receiver IP54, 12 - 24 V AC - DC able to store up to 999 user codes.
Accessories for: 001S6000 - 001S9000	
001 CSS	Natural anodized aluminium post. H = 1 m / 3.28 ft.
001 CSSN	Black anodized aluminium post. H = 1 m / 3.28 ft.



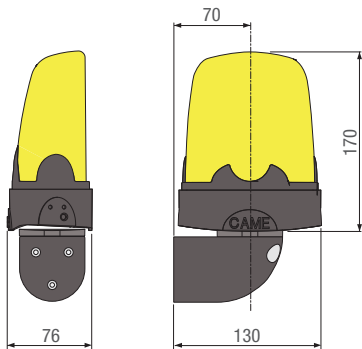
Flashing lights



The flashing light even with manoeuvre counter function

- Elegant design and top-quality materials make up a flashing light that provides much more than just a light warning.
- Some models have the special cycle counter feature to help determine scheduled maintenance jobs.
- A wall-mounting support solves any installation issues.

Dimensions (mm)



Limits to use

MODEL	LIGHT (W)	MANOEUVRE COUNTER
KIARON	25	-
KIAROIN	25	YES
KIAROLXN	6 XENON	-
KIAR024N	25	-
KIAR024IN	25	YES

● 230 V AC ● 24 V AC

Technical features

Type	KIARON	KIAROIN	KIAROLXN	KIAR024N	KIAR024IN
Protection rating IP	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	24 AC	24 AC
Flashing lamps (%)	50	50	50	50	50
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131				
Material	ABS - POLYCARBONATE				

● 230 V AC ● 24 V AC

The complete range



Code	Description
230 V AC flashing lights	
001 KIARON	Flashing light.
001 KIAROLXN	Flashing light with xenon lamp.
001 KIAROIN	Flashing light with manoeuvres counter function.
24 V AC - DC flashing lights	
001 KIAR024N	Flashing light.
001 KIAR024IN	Flashing light with manoeuvres counter function.
Accessories	
001 KIAROS	Wall fixing bracket.



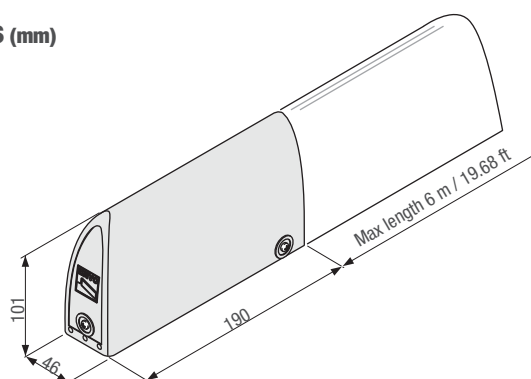
Safety sensitive edges up to 6 m / 19.68 ft

The certified sensitive edges for total protection

- A Came exclusive patent for protection from mechanical risk.
- The right solution for high security and quality levels of the automated system.
- The product complies with standards EN 12978 and EN 954-1.



Dimensions (mm)



Limits to use

MODEL	DF15 - DF17 - DF20 - DF25	BRC15
Max length of profile to assemble (m/ft)	6/19.68	15/49.21
Max speed measured at the edge of the leaf (m/min - ft/min)	12/39.37	-
Max length of the 001BRC15 cable collecting system (m/ft)	-	15/49.21

Technical features

Type	DF15 - DF17 - DF20 - DF25 - TMF - TMF6
Protection rating IP	IP54
24 V relays output (A)	1
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Material	TPE 65 SHORT A

The complete range



Code	Description
Safety sensitive edges	
001 DF15	Safety sensitive mechanical edge. Length 1.5 m / 4.92 ft.
001 DF17	Safety sensitive mechanical edge. Length 1.7 m / 5.57 ft.
001 DF20	Safety sensitive mechanical edge. Length 2 m / 6.56 ft.
001 DF25	Safety sensitive mechanical edge. Length 2.5 m / 8.2 ft.
Components to assemble safety sensitive edges	
001 CMP	Rubber and aluminium profile for sensitive edges. Max length 4 ÷ 6 m / 13.12 ÷ 19.68 ft.
001 TMF	Set of caps and mechanisms for maximum 4 m / 13.12 ft long safety sensitive edges.
001 TMF6	Set of caps and mechanisms for maximum 6 m / 19.68 ft long safety sensitive edges.
Accessories for: Df series and sensitive edges	
001 DFI	Self-diagnosing card for electrical connections.
Cable collecting devices	
001 BRC15	Power cable collecting device for safety sensitive edges for sliding gates of up to 15 m / 49.21 ft in length.
001 BRCP	Aluminium profile for extension L = 5.10 m / 16.4 ft to couple with a 001BRC15. Application example: on 15 m / 49.21 ft sliding gate set up n. 1 001BRC15 + n. 3 001BRCP.



NOTES
001DFI can be powered with 12 - 24 V AC - DC.

Delta-Dir-Delta S



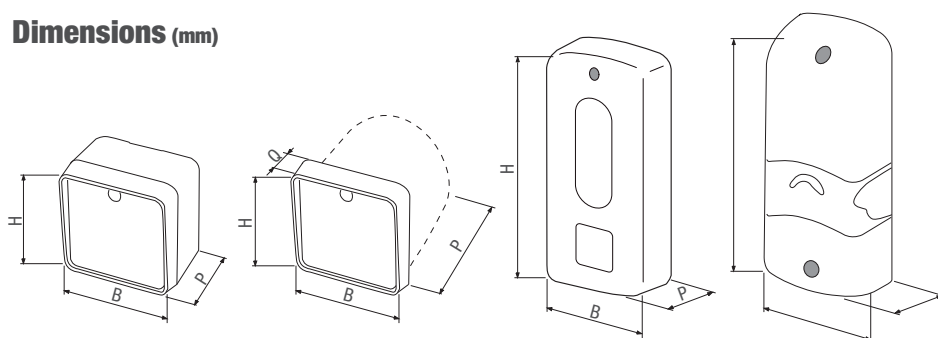
Photocells

Security devices for doors and gates in movement



- Control of the areas where the gate is moving.
- Infrared beam, even synchronised, to offset any external disturbances of the signal.
- Available for the Dir series photocells are double height posts (to install where large load trucks make their passage).
- Today Came offers the Delta series infrared beam photocells and the Delta S series with synchronised infrared beam: one design for both surface- and flush-mounting.
- High degree of protection from weather agents.

Dimensions (mm)



001DELTA-E - 001DELTA-SE

001DELTA-I - 001DELTA-SI

001DIR10 - 001DIR20 - 001DIR30

MODEL	MOUNTING	B (mm/in)	H (mm/in)	P (mm/in)	Q (mm/in)
DELTA -E	SURFACE-MOUNTED	70/2.75	70/2.75	36/1.41	-
DELTA -SE	SURFACE-MOUNTED	70/2.75	70/2.75	36/1.41	-
DELTA -I	FLUSH-MOUNTED	70/2.75	70/2.75	52/2.04	16/0.62
DELTA -SI	FLUSH-MOUNTED	70/2.75	70/2.75	52/2.04	16/0.62
DIR20 - DIR20 - DIR30	SURFACE-MOUNTED	46/1.81	108/4.25	23/0.9	-

● 12 - 24 V AC

Limits to use

MODEL	DELTA-E - DELTA-I	DELTA-SE - DELTA-SI	DIR10 - DIR20 - DIR30
Max range (m/ft)	20/65.61	20/65.61	10 - 20 - 30 / 32.8 - 65.61 - 98.42

● 12 - 24 V AC








Technical features

Type	DELTA-E - DELTA-I	DELTA-SE - DELTA-SI	DIR20 - DIR20 - DIR30
Protection rating IP	IP54	IP54	IP54
Power supply (V)	12 - 24 AC	12 - 24 AC	12 - 24 AC
24 V relais output (A)	0.5	0.5	1
24 V AC current draw (mA)	110	70	60
Operating temperature (°C/°F)		-20 ÷ +55 / -4 ÷ +131	
Material		ABS - POLYCARBONATE	

● 12 - 24 V AC

The complete range



Code	Description
Delta series infrared beam photocells	
001 DELTA-I 	Pair of flush-mounted photocells complete with casing. Range: 20 m / 65,62 ft.
001 DELTA-E 	Pair of surface-mounted photocells. Range: 20 m / 65,62 ft.
Dir series infrared photocells with synchro-beam	
001 DIR10 	Pair of photocells. Range: 10 m / 32.8 ft.
001 DIR20 	Pair of photocells. Range: 20 m / 65.61 ft.
001 DIR30 	Pair of photocells. Range: 30 m / 98.42 ft.
Delta S series infrared photocells with synchro-beam	
001 DELTA-SI 	Pair of flush-mounted photocells complete with casing. Range: 20 m / 65.61 ft.
001 DELTA-SE 	Pair of surface-mounted photocells. Range: 20 m / 65.61 ft.
Accessories for: 001DELTA-I - 001DELTA-SI	
009 DOC-S	Flush-mounted casing.
001 DOC-L	Natural anodized aluminium post. H = 500 mm / 1.64 ft.
001 DOC-LN	Black anodized aluminium post. H = 500 mm / 1.64 ft.
Accessories for: 001DELTA-E - 001DELTA-SE	
001 DOC-R	Steel support for pillar surface mounting.
Accessories for: 001DIR10 - 001DIR20 - 001DIR30	
001 DIRZ	Flush-mounted casing.
001 DIR-S	Aluminium alloy impact-proof protection.
001 DIR-L	Natural anodized aluminium post. H = 500 mm / 1.64 ft.
001 DIR-LN	Black anodized aluminium post. H = 500 mm / 1.64 ft.
Accessories for: 001DIR-L and 001DIR-LN	
001 DIR-P	Natural anodized aluminium extension post to apply on double pair of photocells. H = 500 mm / 1.64 ft.
001 DIR-PN	Black anodized aluminium extension post to apply on double pair of photocells. H = 500 mm / 1.64 ft.



NOTE:
001DELTA-I - 001DELTA-E The maximum number of applicable photocells in one installation amounts to 4.

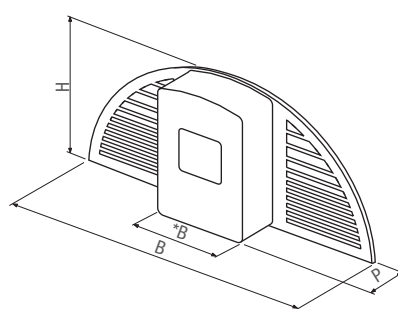
Cordless photocells



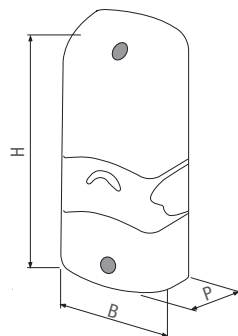
Infrared beam safety device

- The cordless photocells make for easy perimeter coverage, thanks to the bidirectional ray from repeaters and transmitters.
- Battery operation for even simpler use.
- The pairs of DBS photocells with Df sensitive edges transmit an infrared beam signal on the installed edge of the moving leaf, to protect and ensure total safety.

Dimensions (mm)



DBS01 (RX) - DBS02 (RX)



DBC01
DBC03
DBC04 (RX and TX)
DBS01 (TX)
DBS02 (TX)
DBCT (TX)

MODEL	MOUNTING	B (mm/in)	H (mm/in)	P (mm/in)
DBC01	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98
DBC03	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98
DBC04	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98
DBS01 (TX)	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98
DBS01 (RX)	SURFACE-MOUNTED	150 - *46 / 5.9 - *1.81	71/2.79	25/0.98
DBS02	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98
DBCT	SURFACE-MOUNTED	52/2.04	140/5.51	25/0.98

● 12 - 24 V AC

Limits to use

MODEL	DBC01 - DBC03 - DBC04 - DBS01 DBS02 - DBCT
Max range (m/ft)	10/32.8

● 12 - 24 V AC

Technical features

Type	DBC03 - DBC03 - DBC04	DBS01 - DBS02 - DBCT
Protection rating IP	IP54	IP54
Power supply (V)	12 - 24 AC - DC (only 001DBC01 RX)	12 - 24 AC - DC (only 001DBS01 001DBS02RX)
Batteries (V)	4 x 1.5 AAA MIN 1000 mAH	4 x 1.5 AAA MIN 1000 mAH
24 V relais output (A)	0.5	1
Power draw	DBC01 (TX 70 µA - RX 50 mA) - DBC03 (150 µA) - DBC04 (150 µA)	001DBS01 and 001DBS02 RX 48 mA - TX 70 mA (at 24 V AC)
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Material	ABS - POLYCARBONATE	

● 12 - 24 V AC

The complete range



Code	Description
Db series photocells	
001 DBC01	Pair of surface-mounted cordless monodirectional infrared photocells. Range: max 10 m / 32.8 ft (1 receiver + 1 transmitter with batteries).
001 DBC03	Surface-mounted bi-directional infrared repeater module. Range: max 10 m / 32.8 ft. (side receiver + front transmitter with batteries).
001 DBC04	Surface-mounted bi-directional infrared repeater module. Range: max 10 m / 32.8 ft. (front receiver + side transmitter with batteries).
Mobile connection systems for Df safety sensitive edges for: Bx-243 - Bx - Bk series operators	
001 DBS01	Pair of cordless bi-directional infrared photocells with single contact output. Range: max 10 m / 32.8 ft. Built-in receiver and external transmitter with batteries.
001 DBS02	Pair of cordless bi-directional infrared photocells with double contact output. Range: max 10 m / 32.8 ft. Built-in receiver and external transmitter with batteries.
Accessories for: 001DBS02	
001 DBCT	Surface-mounted battery-charged transmitter module. Range: max 10 m / 32.8 ft.
Accessories for: Db series photocells	
001 DB-L	Natural anodized aluminium post. H = 500 mm / 1.64 ft.
001 DB-LN	Black anodized aluminium post. H = 500 mm / 1.64 ft.



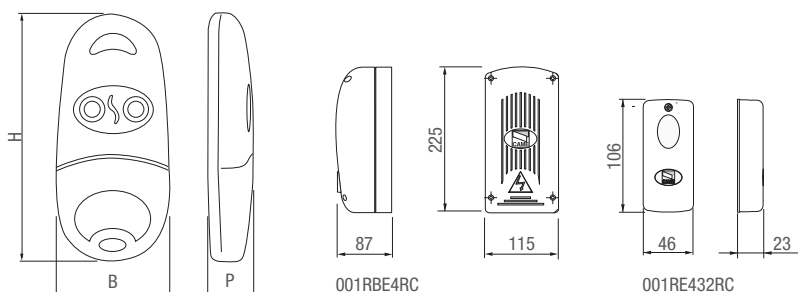
433.92 MHz ROLLING CODE transmitter

The ideal solution for multiple users with non-cloneable codes



- Rolling code: the "dynamic code" technology ensures signal security and secrecy.
- Transponder feature.
- Available in both the one-channel, two-channel and four-channel versions.
- 4,294,967,896 possible combinations.

Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
AT01	32/1.25	68/2.67	13/0.51	16/0.56
AT02	32/1.25	68/2.67	13/0.51	16/0.56
AT04	40/1.57	85/3.34	13/0.47	22/0.77

Limits to use

MODEL	Range (m/ft)
AT01	50 ÷ 150 / 160 ÷ 500
AT02	50 ÷ 150 / 160 ÷ 500
AT04	50 ÷ 150 / 160 ÷ 500

Technical features

Type	AT01 - AT02 - AT04
Batteries	2 X CR2016 LITHIUM
Combinations	4,294,967,896
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Material	ABS

The complete range



Code	Description
433.92 MHz rolling code transmitters	
001 AT01	One-channel rolling code transmitter. 4,294,967,896 combinations.
001 AT02	Bi-channel rolling code transmitter. 4,294,967,896 combinations.
001 AT04	4-channel rolling code transmitter. 4,294,967,896 combinations.
433.92 MHz plug-in rolling code receiver	
001 AF43SR	Plug-in radio frequency card for max. 25 transmitters.
433.92 MHz surface-mounted rolling code receivers	
001 RE432RC	Surface-mounted bi-channel receiver for max. 25 transmitters - IP54, 12 - 24 V AC - DC.
001 RBE4RC	12 - 24 V AC - DC IP54 surface-mounted 4-channel receiver for max. 500 transmitters, complete with n. 1 001AT04 transmitter (master).
Accessories for: 001AT01 - 001AT02 - 001AT04	
009 TAG	Glass transponder bulb.
001 P3V	Package of n. 2 3 V DC type CR2016 lithium batteries.
Accessories	
001 TOP-A433N	Antenna.
001 TOP-RG58	Antenna cable.

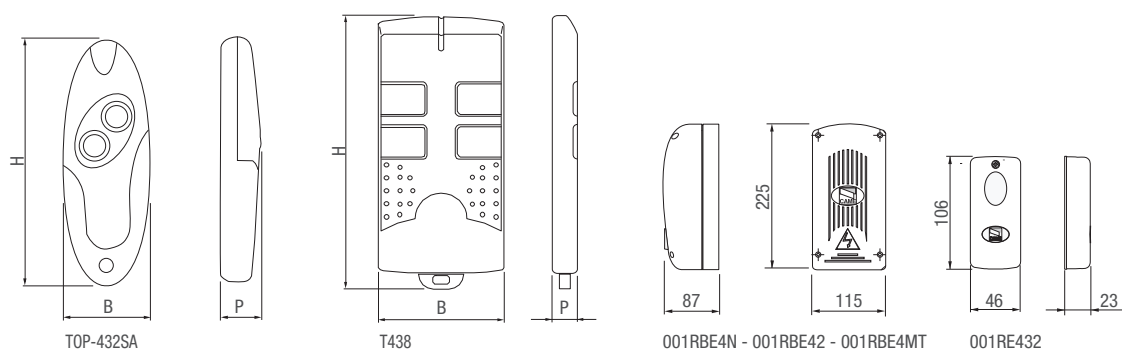


The ideal solution for apartment blocks

- Technology concentrated in just 12 grams / 0.42 oz.
- Self-learning transmitter to transmitter
- Multi user feature.
- Available in the two and eight channel versions.
- 16,777,216 possible combinations.



Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
TAM-432SA	24/0.94	68/2.67	12.5/0.49	12/0.42
T432	45/1.77	92/3.62	15/0.59	44/1.55
T434	45/1.77	92/3.62	15/0.59	46/1.62
T438	45/1.77	92/3.62	15/0.59	46/1.62

Limits to use

MODEL	Range (m/ft)
TAM-432SA	50 ÷ 150 / 160 ÷ 500
T432	50 ÷ 150 / 160 ÷ 500
T434	50 ÷ 150 / 160 ÷ 500
T438	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TAM-432SA	T432 - T434 - T438
Batteries	2 X CR2016 LITHIUM	1 x 12 V AAA
Combinations	16,777,216	16,777,216
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Material	ABS	

The complete range



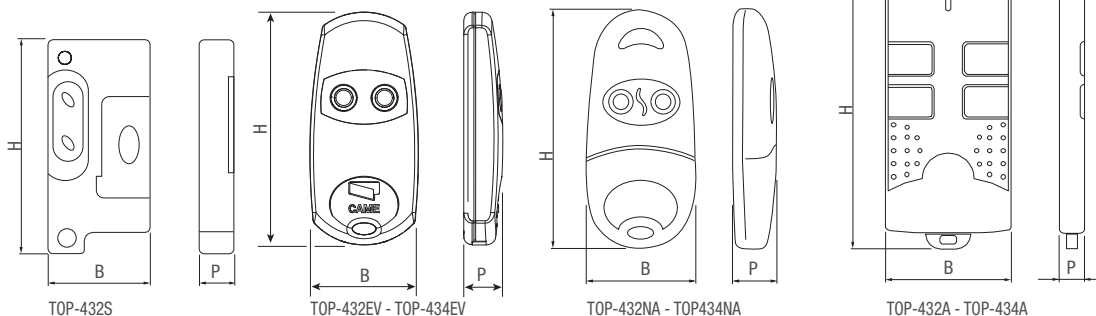
Code	Description
433.92 MHz transmitters	
001 TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.
001 T432	Bi-channel multi-user transmitter. 16,777,216 combinations.
001 T434	4-channel multi-user transmitter. 16,777,216 combinations.
001 T438	8-channel multi-user transmitter. 16,777,216 combinations.
433.92 MHz plug-in receivers	
001 AF43S	Plug-in radio frequency card.
001 AF43SM	Plug-in radio frequency card with “eeprom” to store up to 128 codes (users).
433.92 MHz surface-mounted receivers	
001 RE432	12 - 24 V AC - DC IP54 surface-mounted bi-channel receiver.
001 RBE4MT	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user receiver to store up to 999 codes (users).
230 V AC surface-mounted radio module	
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.
12 - 24 V AC - DC surface-mounted radio module	
001 RBE4N	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.
Accessories for: 001TAM-432SA	
001 P3VB	Package of n. 2 3 V DC type CR1620 lithium batteries.
Accessories	
001 TOP-A433N	Antenna.
001 TOP-RG58	Antenna cable.

The ideal solution for use in residential settings

- Available in seven models for the radio transmitter.
- Self-learning transmitter to transmitter
- Transponder feature.
- 4,096 possible combinations.

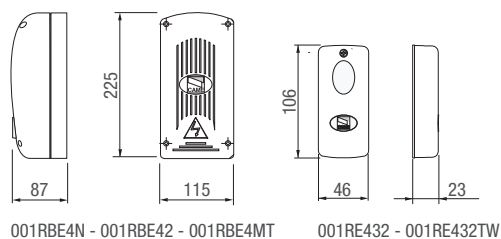


Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
TOP-432S	31/1.22	65/2.55	15/0.59	25/0.88
TOP-432EV	32/1.25	68/2.67	13/0.51	16/0.56
TOP-434EV	32/1.25	68/2.67	13/0.51	22/0.77
TOP-432NA	32/1.25	68/2.67	13/0.51	16/0.56
TOP-434NA	40/1.57	85/3.34	12/0.47	22/0.77
TOP-432A	45/1.77	92/3.62	15/0.59	44/1.55
TOP-434A	45/1.77	92/3.62	15/0.59	45/1.58

TOP-432A - TOP-434A



001RBE4N - 001RBE42 - 001RBE4MT

001RE432 - 001RE432TW

Limits to use

MODEL	Range (m/ft)
TOP-432S	50 ÷ 150 / 160 ÷ 500
TOP-432EV	50 ÷ 150 / 160 ÷ 500
TOP-434EV	50 ÷ 150 / 160 ÷ 500
TOP-432NA	50 ÷ 150 / 160 ÷ 500
TOP-434NA	50 ÷ 150 / 160 ÷ 500
TOP-432A	50 ÷ 150 / 160 ÷ 500
TOP-434A	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TOP-432EV - TOP-434EV - TOP-432NA - TOP-434NA	TOP-432S - TOP-432A - TOP-434A
Batteries	2 X CR2016 LITHIUM	1 x 12 V AAA
Combinations	4,096	1,024
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	
Material	ABS	

The complete range



Code	Description
433.92 MHz transmitters	
001 TOP-432EV	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.
001 TOP-434EV	4-channel multi-user transmitter. 4,096 combinations with self-learning function.
001 TOP-432NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.
001 TOP-434NA	4-channel multi-user transmitter. 4,096 combinations with self-learning function.
001 TOP-432A	Bi-channel transmitter. 1,024 combinations.
001 TOP-434A	4-channel transmitter. 1,024 combinations.
001 TOP-432S	Bi-channel miniaturized transmitter. 1,024 combinations.
433.92 MHz plug-in receivers	
001 AF43S	Plug-in radio frequency card.
001 AF43SM	Plug-in radio frequency card with "eeprom" to store up to 128 codes (users).
433.92 MHz surface-mounted receivers	
001 RE432	IP54, 12 - 24 V AC - DC surface-mounted bi-channel receiver.
001 RBE4MT	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user receiver to store up to 999 codes (users).
230 V AC surface-mounted radio module	
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.
12 - 24 V AC - DC surface-mounted radio module	
001 RBE4N	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.
Accessories for: 001TOP-432EV - 001TOP-434EV - 001TOP-432NA - 001TOP-434NA	
009 TAG	Glass transponder bulb.
001 P3V	Package of n. 2 3 V DC type CR2016 lithium batteries.
Accessories	
001 TOP-A433N	Antenna.
001 TOP-RG58	Antenna cable.



NOTES

001TOP-432EV - 001TOP-434EV - 001TOP-432NA - 001Top-434ENA

The maximum suggested number of operators fitted onto the same system is 20.

E.g.: An apartment building with 20 individual garage doors.

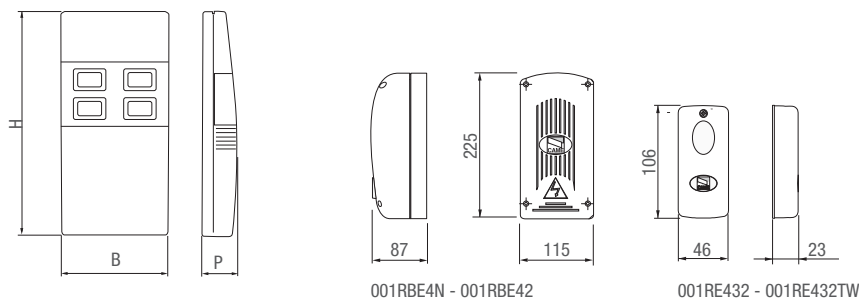
433.92 MHz transmitter with KEY CODE

The ideal solution in apartment block and multi-user settings



- Key Code transmitter, the password code that protects the transmitter from unauthorised duplications.
- Available in both the two-channel and four-channel versions.
- Transponder feature.
- 4,294,967,896 possible combinations.
- Modern and elegant design.

Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
TWIN2	32/1.25	68/2.67	13/0.51	16/0.56
TWIN4	32/1.25	68/2.67	13/0.51	16/0.56

Limits to use

MODEL	Range (m/ft)
TWIN2	50 ÷ 150 / 160 ÷ 500
TWIN4	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TWIN2 - TWIN4
Batteries	2 X CR2016 LITHIUM
Combinations	4,294,967,896
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Material	ABS

The complete range



Code	Description
433.92 MHz transmitters with KEY CODE function	
001 TWIN2	Bi-channel transmitter with KEY CODE function. 4,294,967,892 combinations.
001 TWIN4	4-channel transmitter with KEY CODE function. 4,294,967,892 combinations.
433.92 MHz receivers with KEY CODE function	
001 AF43TW	Plug-in radio frequency card.
433.92 MHz receivers with KEY CODE function	
001 RE432TW	12 - 24 V AC - DC IP54 surface-mounted bi-channel receiver.
433.92 MHz plug-in receivers	
001 AF43S	Plug-in radio frequency card.
001 AF43SM	Plug-in radio frequency card with "eeprom" to store up to 128 codes (users).
433.92 MHz surface-mounted receivers	
001 RE432	IP54, 12 - 24 V AC - DC surface-mounted bi-channel receiver.
230 V AC surface-mounted radio module	
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.
12 - 24 V AC - DC surface-mounted radio module	
001 RBE4N	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.
Accessories for: 001TWIN2 and 001TWIN4	
009 TAG	Glass transponder bulb.
001 P3V	Package of n. 2 3 V DC type CR2016 lithium batteries.
Accessories	
001 TOP-A433N	Antenna.
001 TOP-RG58	Antenna cable.

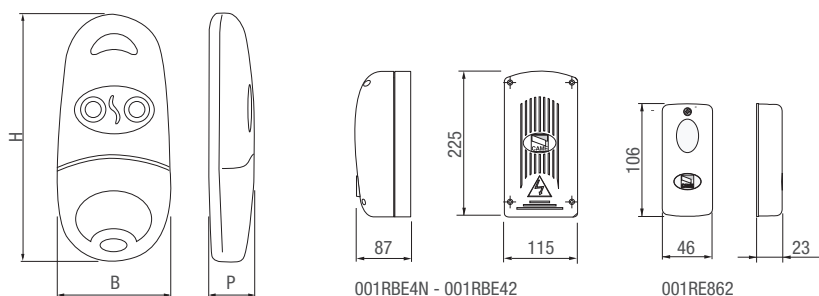


The ideal solution for use in residential settings



- Self-learning transmitter to transmitter.
- Transponder feature.
- Multi-user feature.
- 4,096 possible combinations.

Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
TOP-862NA	32/1.25	68/2.67	13/0.51	16/0.56
TOP-864NA	40/1.57	85/3.34	12/0.47	22/0.77

Limits to use













MODEL	Range (m/ft)
TOP-862NA	50 ÷ 150 / 160 ÷ 500
TOP-864NA	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TOP-862NA - TOP-864NA
Batteries	2 x CR2016 LITHIUM
Combinations	4,096
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Material	ABS

The complete range



Code	Description	
868.35 MHz transmitter		
001 TOP-862NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	
001 TOP-864NA	4-channel multi-user transmitter. 4,096 combinations with self-learning function.	
868.35 MHz plug-in receivers		
001 AF868	Plug-in radio frequency card.	
868.35 MHz surface-mounted receivers		
001 RE862	12 - 24 V AC - DC IP54 surface-mounted bi-channel receiver.	
 230 V AC surface-mounted radio module		
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.	
12 - 24 V AC - DC surface-mounted radio module		
001 RBE4N	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.	
 Accessories for: 001TOP-862NA and 001TOP-864NA		
009 TAG	Glass transponder bulb.	
001 P3V	Package of n. 2 3 V DC type CR2016 lithium batteries.	
Accessories		
001 TOP-A862N	Antenna.	
001 TOP-RG58	Antenna cable.	

NOTES

001TOP-862NA - 001TOP-864NA The maximum suggested number of operators fitted onto the same system is 20.
E.g.: An apartment building with 20 individual garage doors.

Touch

40.695 MHz transmitter

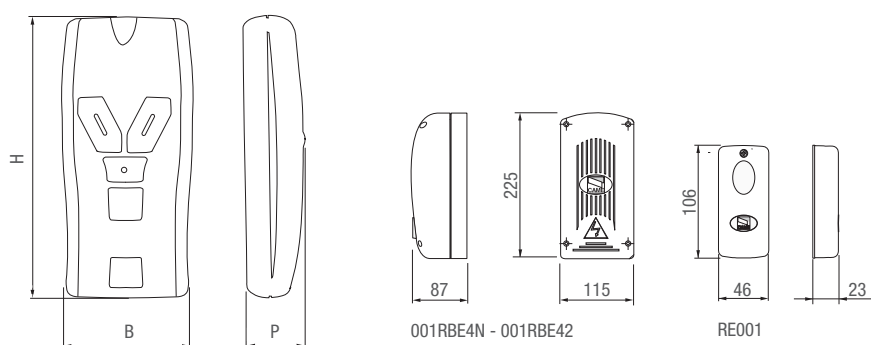


The ideal solution for apartment blocks



- The red or blue luminous signal shows the group of channels being used.
- Quartz technology.
- Modern and elegant design.
- Multi-user feature.
- Available in the 2 + 2 channels or 4 + 4 channels versions.
- 16,777,216 possible combinations.

Dimensions (mm)



MODEL	B (mm/in)	H (mm/in)	P (mm/in)	Weight (g/oz)
TCH-4048	40/1.56	86/3.38	17/0.66	45/1.58
TCH-4048	40/1.56	86/3.38	17/0.66	45/1.58

Limits to use

MODEL	Range (m/ft)
TCH-4048	50 ÷ 150 / 160 ÷ 500
TCH-4048	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TCH-4024 - TCH-4048
Batteries	1 x 12 V AAA
Combinations	16,777,216
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131
Material	POLYCARBONATE - RUBBER

The complete range



Code	Description
40.685 MHz transmitters	
001 TCH-4024	2 + 2 channel multi-user transmitter. 16,777,216 combinations with self-learning function.
001 TCH-4048	4 + 4 channel multi-user transmitter. 16,777,216 combinations with self-learning function.
40.685 MHz plug-in receivers	
001 AF40	Plug-in radio frequency card.
40.685 MHz surface-mounted receivers	
001 RE402	12 - 24 V AC - DC IP54 surface-mounted bi-channel receiver.
230 V AC surface-mounted radio module	
001 RBE42	230 V AC IP54 surface-mounted 4-channel radio module.
12 - 24 V AC - DC surface-mounted radio module	
001 RBE4N	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.
Accessories for: 001TCH-4024 and 001TCH-4048	
009 TAG	Glass transponder bulb.
Accessories	
001 TOP-A40	Antenna.
001 TOP-RG58	Antenna cable.



Operators for: **SWING AND SLIDING DOORS**

208	Your selection guide
210	Fly
212	Sipario
214	SIPARIO: Section of beam profiles and profile covers
215	SIPARIO: Calculating door-leaf height
216	Corsa-Rodeo
218	CORSA - RODEO: Section of beam profiles and profile covers
219	CORSA - RODEO: Calculating door-leaf height
220	Accessories
224	S20
228	S40
232	Mi
234	CORSA - RODEO Complete system
236	SIPARIO - Complete system

Your selection guide

Sliding and swing doors

The table summarises the series and models with their max limits to use based only on the door-leaf weight.

Series Swing door		
	Max door-leaf weight (Kg/lb)	
Fly Swing door	PB1100	250/550
	PB2100	250 + 250/550 + 550

● 24 V DC INTENSIVE USE

Series Sliding doors		
	Max door-leaf weight (Kg/lb)	
Corsa Sliding doors	CORSA 1	75/165
	CORSA 2	75 + 75/165 + 165
Sipario Sliding doors	SIPARIO 1	100/220
	SIPARIO 2	100 + 100/220 + 220
Rodeo Sliding doors	RODEO 1	125/280
	RODEO 2	125 + 125/280 + 280

● 24 V DC INTENSIVE USE



SLIDING DOOR

It opens and closes quickly and its overall dimensions are truly contained. A very popular operator especially in businesses and public plus private facilities.

Series: Corsa - Rodeo - Sipario



SWING DOOR

Can fit on any swing door, even pre-installed ones.

Series: Fly



ANTI-PANIC PUSH-TO-OPEN FUNCTION

An electro mechanical system to open sliding doors in case of emergency situations.

Series: Mi



DEDICATED ACCESSORIES

A broad range of specific accessories, for safety and command: radars, photocells, selector switches, emergency operation devices.

Series: Accessories

The profiles for automatic doors

Two series of profiles for automatic doors: S20 and S40. They are designed for making automatic door frames, including all aspects, from aesthetics to emergency operation mode.

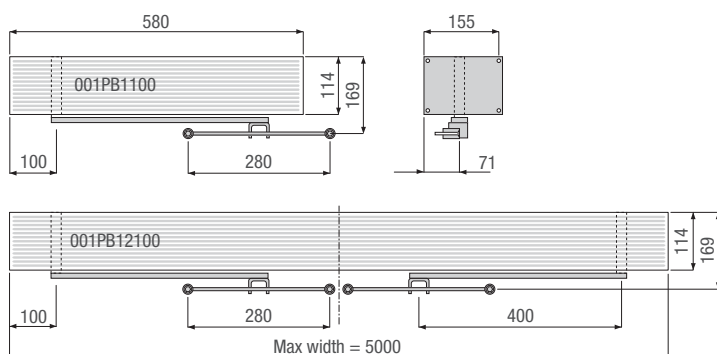


Ideal solution for fitting on pre-installed swing doors

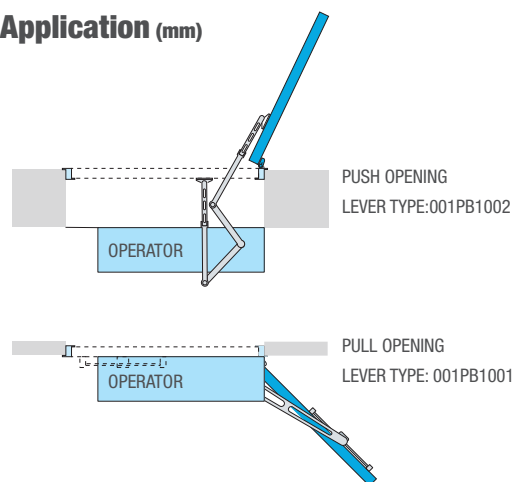


- A safe and secure solution to regulate pedestrian passage flows.
- Easy to install operator.
- It is ideal for operating swing leaf doors in populated facilities: hospitals, airports, public administration offices.
- System safety thanks to the 24 V DC technology.
- Adjustable operating and slow down speeds.
- Electronic obstacle detection.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	PB1100		
Max door-leaf length (m/ft)	1.2/47	1/40	0.8/32
Max door-leaf weight (Kg/lb)	150/330	200/440	250/550
MODEL	PB2100		
Max door-leaf length (m/ft)	1.2 + 1.2 / 47 + 47	1 + 1 / 40 + 40	0.8 + 0.8 / 32 + 32
Max door-leaf weight (Kg/lb)	150 + 150 / 330 + 330	200 + 200 / 440 + 440	250 + 250 / 550 + 550

● 24 V DC

NOTE:

MIN BEAM PROFILE LENGTH:

with 001PB1001 PULL LEVER = 1300 mm / 51.18 in

with 001PB1002 PUSH LEVER = 1160 mm / 45.66 in

Technical features

Type	PB1100	PB2100
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC
Current draw (A)	0.6	1.2
Power (W)	138	276
Manoeuvre time 90° (s)	2 ÷ 5	2 ÷ 5
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE
Torque (Nm)	40	40
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	

● 24 V DC

The complete range

Code	Description
Complete automation systems with 24 V DC operator	
001 PB1100	Automation system for one-leaf swing doors.
001 PB2100	Automation system for two-leaf swing doors. (Profile and profile covers are not included).
Accessories for: 001PB2100	
001 PF2100	Profile and profile cover.
Accessories	
001 PB1001	Straight transmission arm. "PULL" opening.
001 PB1002	Articulated transmission arm. "PUSH" opening.
001 MA7034	Emergency breakaway system complete with n. 2 12 V - 0.8 Ah batteries.
001 MA7041	Function selector.
Customized treatment	
119 COLOR12	Extra charge for customized treatment.

NOTES

119COLOR12 can only be done on: 001PF2100

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.

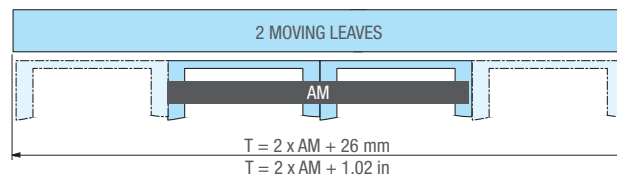
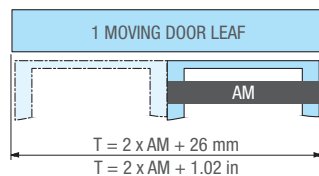


Innovative solution for sliding doors



- Easy to install operator.
- It is ideal for operating sliding doors in densely populated public facilities: hospitals, airports, public administration offices.
- System safety thanks to the 24 V DC technology.
- Adjustable operating and slow-down speeds.
- Operator with encoder and obstacle detection.
- USB port built-into the function selector to upload and download configurations from one door to another.
- Cordless function selector for remotely managing all included features.
- Clock module for controlling times and features via the optional daily timer.
- Combined connection and standard "open by rotating" feature on the control panel for connecting two operators via a tri-polar cable.
- Exclusive connection for the 001TSP00 proximity reader and digital type 001S5000 - 001S6000 - 001S7000 keypads (max. 25 users).
- Can be commanded by radio transmitter by adding a receiver.

Dimensions (mm)



AM Total width of moving leaves

Limits to use

MODEL	SIPARIO1	SIPARIO2
Min door-leaf width (mm/in)	630/24.80	920 (460 + 460) / 36.22 (18.11 + 18.11)
Max door-leaf width (mm/in)	3350/131.88	3350 (1675 + 1675) / 131.88 (65.94 + 65.94)
Max door-leaf weight (Kg/lb)	*100/220	100 + 100 / 220 + 220
MODEL	SIPARIO1	SIPARIO2
T Min beam length (mm/in)	1286/50.62	1866/73.46
T Max beam length (mm/in)	6726/264.80	6726/264.80

● 24 V DC

NOTE:

* SIPARIO1

It can also operate simple door leaves of 200 Kg / 440 lb by adding two extra carriages.

















Technical features

Type	SIPARIO1	SIPARIO2
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC
Current draw (A)	5.3	5.3
Power (W) (operator/electric lock)	220 / 15	220 / 15
Max manoeuvre speed (cm/s - in/s)	80 / 31.49	80 / 31.49
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE
Thrust (Kg/lb)	5/11.02	5/11.02
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131	

● 24 V DC

The complete range



Code	Description	
Complete automation systems with 24 V DC operator		
001 SIPARI01	Automation system for one-leaf sliding doors of up to 100 Kg / 220 lb complete with two lateral caps (beam profile and cover not included).	  
001 SIPARI02	Automation system for two-leaf sliding doors of up to 100 Kg / 220 lb per leaf, complete with two lateral caps (beam profile and cover not included).	  
Accessories		
001 SIPA01	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries with rack (supplied with batteries).	
001 SIPA02	Electroblocker complete with cord and release lever.	
001 SIPA03	Function selector.	
001 SIPA04	“Transceiver” function selector (transmitter and receiver) (mandatory item 001SIPA05).	
001 SIPA06	Clock card for setting timer features (mandatory at least one 001SIPA03 or 001SIPA04).	
001 SIPA07	Additional pull-cord release device L = 5 m.	
Accessories for 001SIPA04		
001 SIPA05	Radio receiver with antenna for the 001SIPA04.	
001 SIPA14	Wall support for 001SIPA04.	
Profiles in aluminium and cover		
001 SIPP	Natural anodized wall mounting beam profile.	
001 SIPTR	Natural anodized beam profile.	
001 SIPC	Natural anodized profile cover complete with dust brush and hinges.	
001 SIPCG	Unfinished profile cover complete with dust brush and hinges.	
Custom finishes		
119 COLOR2	Extra charge for customized treatment.	

NOTES

119COLOR2 can only be done on: 001SIPC (varnished only) - 001SIPCG (varnished or anodised).

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

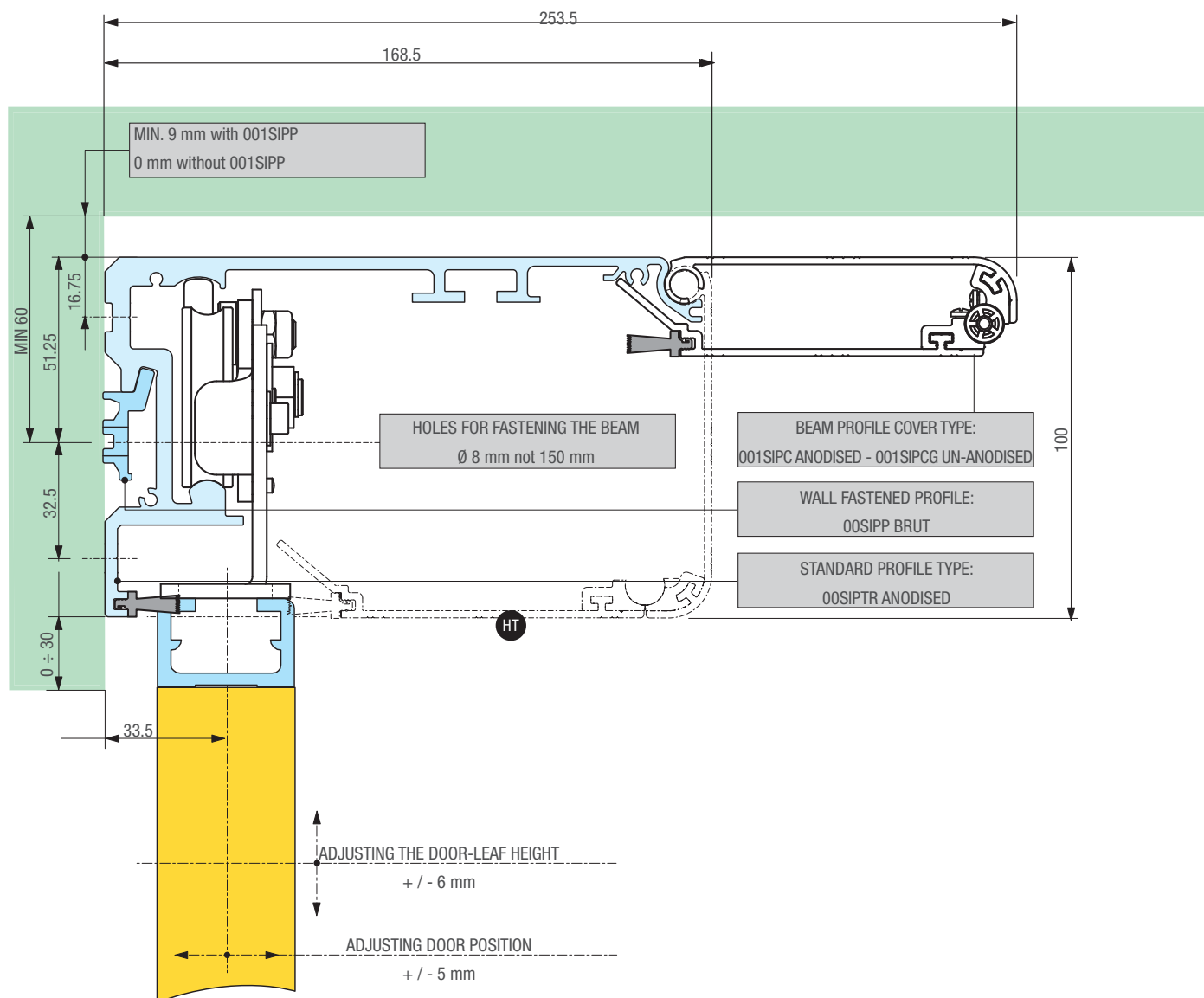
The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.



SIPARIO: SECTION OF BEAM PROFILES AND PROFILE COVERS

Dimensions (mm)



THE RELEASE BAR ALWAYS HANDY!

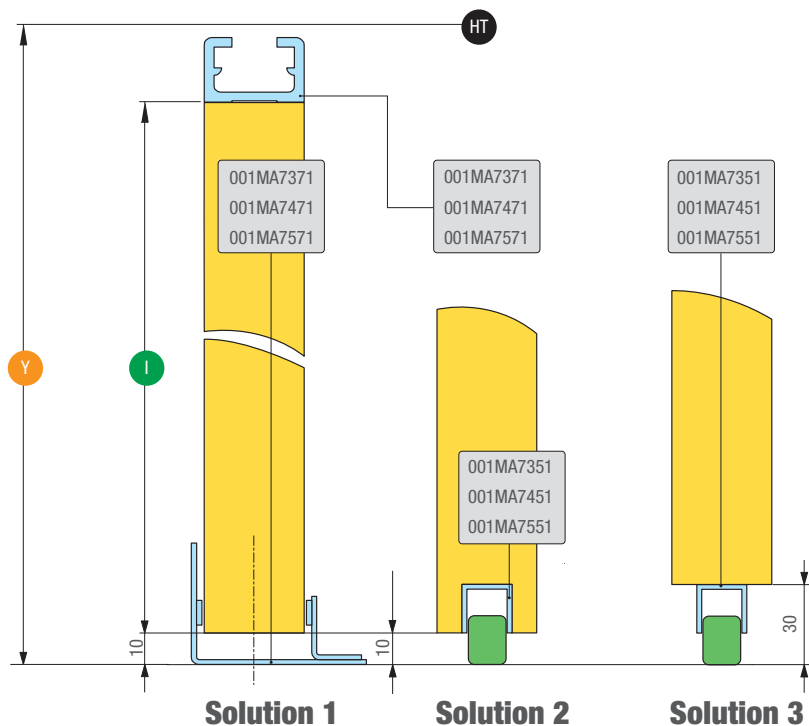
The automatic release is built into the supporting profile to facilitate installation and to release the door during an emergency. For single entrances, a second release point can be connected externally to the door.



FASTENING THE DOOR TO THE MAIN BEAM IS MADE EASIER BY THE MOUNTING PROFILE

Position the mounting profile at the right height with relation to the ground. Align the profile horizontally and fasten it to the support using the holes. Position the beam onto the mounting profile and fasten it using the four pre-punched holes at the ends. Complete the mounting job by fastening the carter and the lateral covers.

Framed door leaves with series S40 profiles



Solution 1

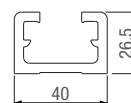
$$I = Y - 31 \text{ mm}$$

Solution 2

$$I = Y - 31 \text{ mm}$$

Solution 3

$$I = Y - 51 \text{ mm}$$

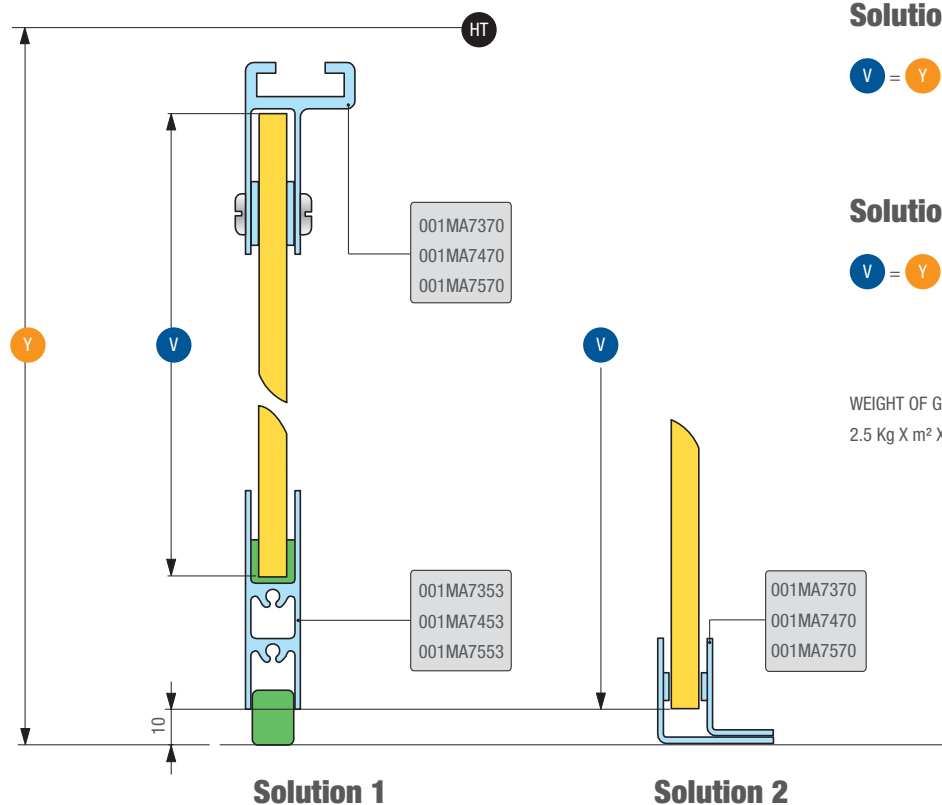


001MAM613
contained in the items:
001MA7371 - 001MA7471 - 001MA7571



001MAM613
contained in the items:
001MA7371 - 001MA7471 - 001MA7571

Glass door leaves with series S20 profiles



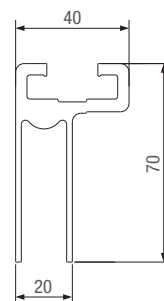
Solution 1

$$V = Y - 73 \text{ mm}$$

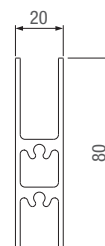
Solution 2

$$V = Y - 25 \text{ mm}$$

WEIGHT OF GLASS PANEL
2.5 Kg X m² X mm thick



119PM611
contained in the items:
001MA7370 - 001MA7470 - 001MA7570



001MAM612
contained in the items:
001MA7353 - 001MA7453 - 001MA7553

Y = Height from the ground to fasten the profile in the beam

V = Height of the glass with S20 profile

I = Height of the S40 framed door leaf

Corsa-Rodeo

Door leaves up to 125 Kg / 280 lb

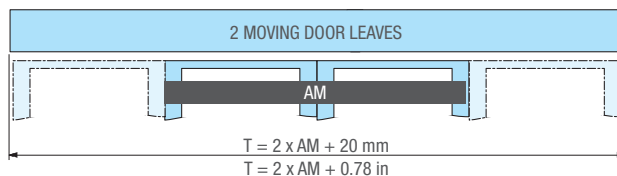
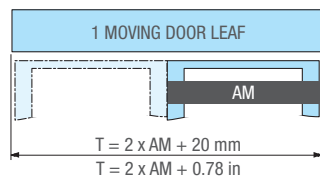


Ideal solution for sliding doors



- A safe and secure solution to regulate pedestrian passage flows.
- Easy to install operator.
- It is ideal for operating sliding doors in densely populated public facilities: hospitals, airports, public administration offices.
- System safety thanks to the 24 V DC technology.
- Adjustable operating and slow-down speeds.
- Electronic obstacle detection.

Dimensions (mm)



AM Total width of moving leaves

Limits to use

MODEL	CORSA1	CORSA2
Max door leaf-width (mm/in)	3340/131.49	1670/65.74
Max door-leaf weight (Kg/lb)	75/165	75 + 75/165 + 165
MODEL	RODE01	RODE02
Max door-leaf width (mm/in)	3340/131.49	1670/65.74
Max door-leaf weight (Kg/lb)	125/280	125 + 125 / 280 + 280

● 24 V DC




Technical features

Type	CORSA1	CORSA2	RODE01	RODE02
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC	24 DC	24 DC
Current draw (A)	0.6	0.6	0.6	0.6
Power (W)	70	70	90	90
Max manoeuvre speed (cm/s - in/s)	57/22.44	102/40.15	45/17.71	80/31.49
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE	INTENSIVE USE	INTENSIVE USE
Thrust (Kg/lb)	5/11.02	5/11.02	8/17.63	8/17.63
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			

● 24 V DC

The complete range



Code	Description
Complete automation systems with 24 V DC operator	
001 CORSA1 	Automation system for one-leaf sliding doors of up to 75 Kg / 165 lb (beam profile cover and caps not included).
001 CORSA2 	Automation system for two-leaf sliding doors of up to 75 Kg / 165 lb per leaf (beam profile cover and caps not included).
001 RODE01 	Automation system for one-leaf sliding doors of up to 125 Kg / 280 lb (beam profile cover and caps not included).
001 RODE02 	Automation system for two-leaf sliding doors of up to 125 Kg / 280 lb per leaf (beam profile cover and caps not included).
Accessories	
001 MA7012	Electroblocker complete with cord and release lever.
001 MA7032	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries with rack (supplied with batteries).
001 MA7036	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries with rack (supplied without batteries).
001 MA7041	Function selector.
Covering and support aluminium profiles	
001 PLCD	Beam profile and slide guide.
001 LC00	Natural anodized profile cover.
001 LC01	Unfinished profile cover.
001 LD00	Natural anodized extra-size profile cover.
001 LD01	Unfinished extra-size profile cover.
Accessories for: 001LC00	
001 LTC	Package of n. 2 natural grey painted caps for profile covers.
Accessories for: 001LC01	
001 LTGG	Package of n. 2 unfinished caps for profile covers.
Accessories for: 001LD00 - 001LD01	
001 LTD	Package of n. 2 caps with hinges for profile covers.
Customized treatments	
119 COLOR2	Extra charge for customized treatment.
119 COLOR3	Extra charge for customized treatment.



NOTES

119COLOR2 can only be done on: 001LC00 - 001LC01 - 001LD00 - 001LD01

119COLOR3 can only be done on: 001LTGG

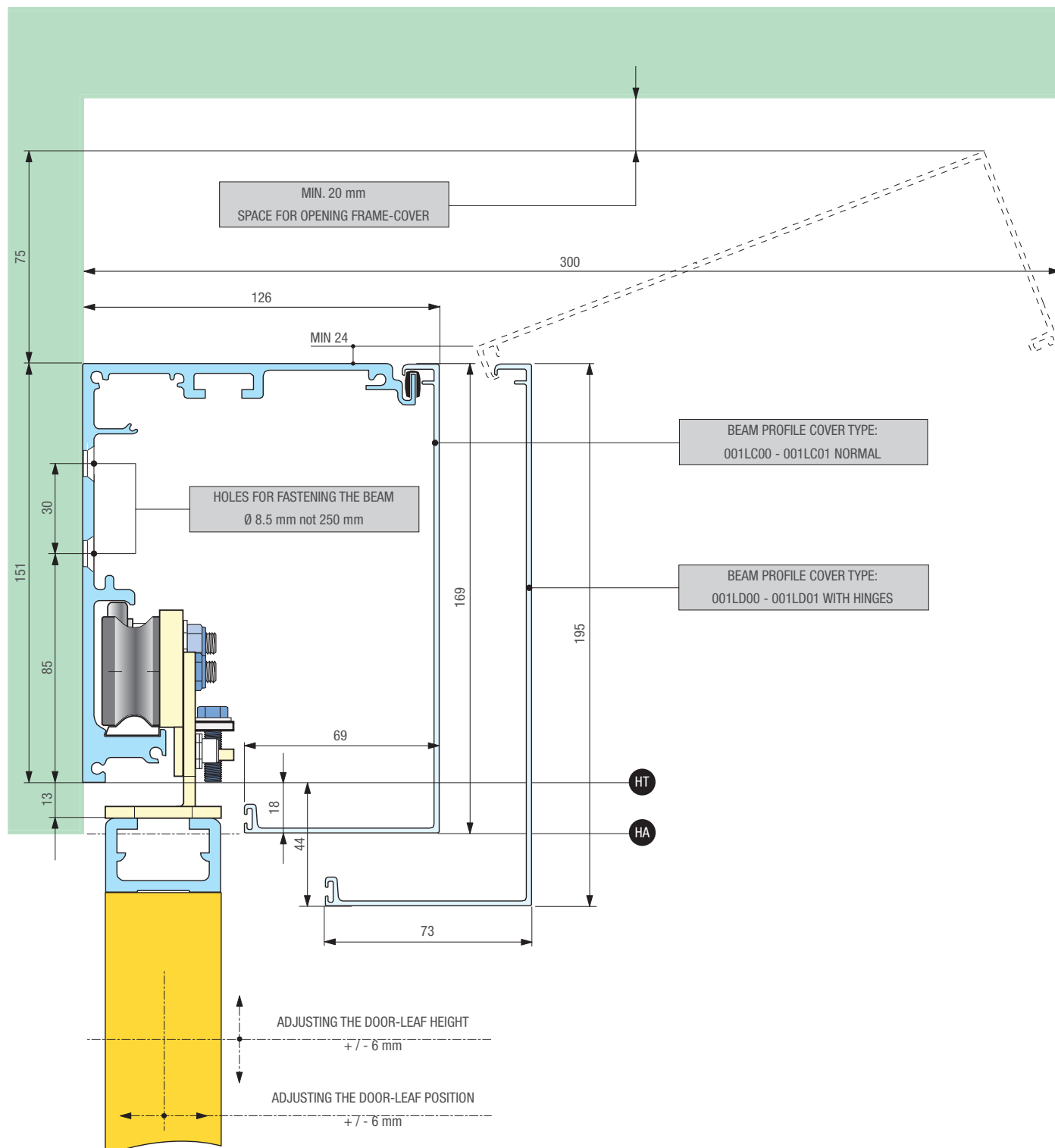
Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.

CORSA - RODEO: SECTION OF BEAM PROFILES AND PROFILE COVERS

Dimensions (mm)

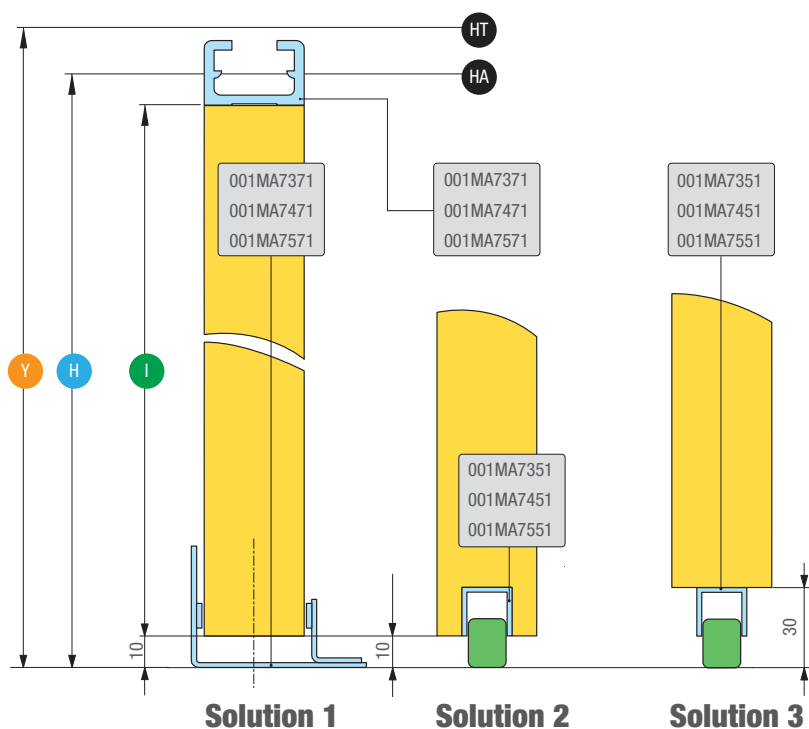


BEAM FRAME PERFORATED FOR PASSING

The operators are supplied on custom-basis with pre-perforated beam profile for fastening to the lintel or wall.

Set up proper anchoring systems and always, at least, use the 2/3 of holes available. It is however obligatory to use the holes at the ends and at the centre of the profile.

Framed door leaves with series S40 profiles



Solution 1

$$I = H - 28 \text{ mm}$$

$$I = Y - 46 \text{ mm}$$

Solution 2

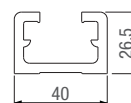
$$I = H - 28 \text{ mm}$$

$$I = Y - 46 \text{ mm}$$

Solution 3

$$I = H - 48 \text{ mm}$$

$$I = Y - 66 \text{ mm}$$



001MAM613

contained in the items:

001MA7371 - 001MA7471 - 001MA7571

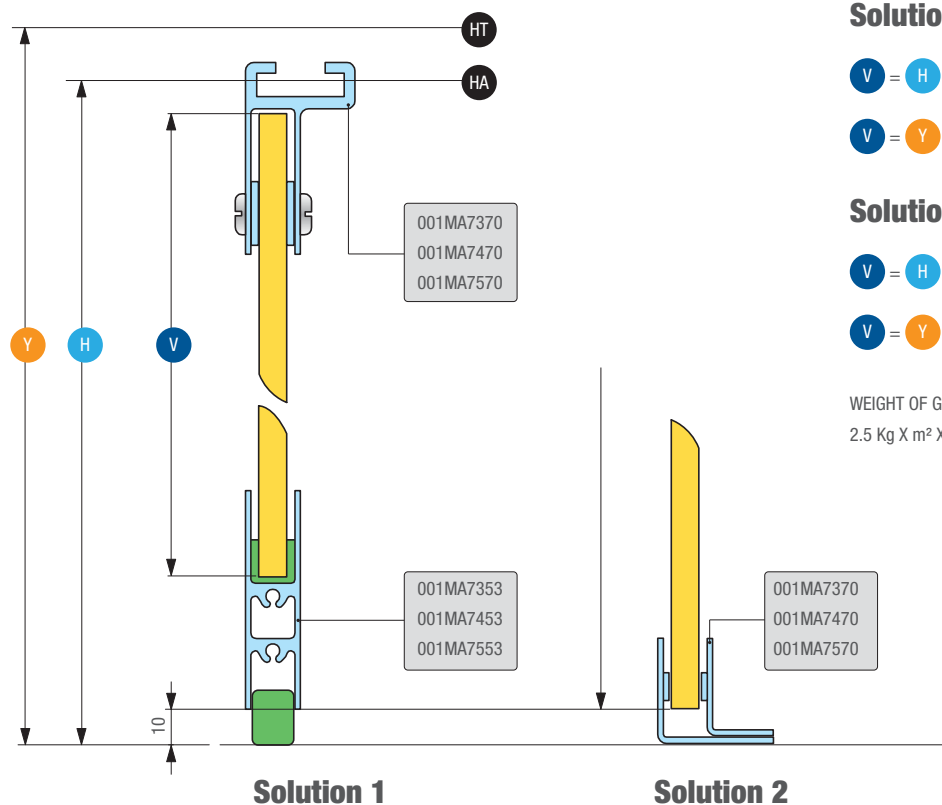


001MAM613

contained in the items:

001MA7371 - 001MA7471 - 001MA7571

Glass door leaves with series S20 profiles



Solution 1

$$V = H - 70 \text{ mm}$$

$$V = Y - 88 \text{ mm}$$

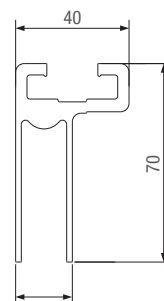
Solution 2

$$V = H - 22 \text{ mm}$$

$$V = Y - 40 \text{ mm}$$

WEIGHT OF GLASS PANEL

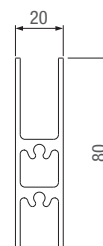
2.5 Kg X m² X mm thick



119PM611

contained in the items:

001MA7370 - 001MA7470 - 001MA7570



001MAM612

contained in the items:

001MA7353 - 001MA7453 - 001MA7553

Y = Height from the ground to fasten the profile in the beam

V = Height of the glass with S20 profile

I = Height of the S40 framed door leaf

H = Height of the lintel from the ground

Accessories

For automatic doors

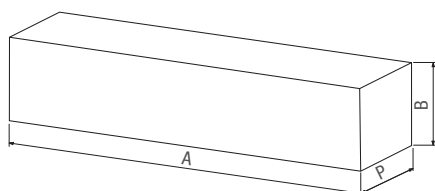


Infrared, touch-activated, volumetric and even remote controlled sensors



- Refined and exclusive design.
- Release system with customised key.
- Only one adjustment while installing the opening and closing limit-switches.
- Simplified connections: one cable with three-to-four conductors.
- SELF-DIAGNOSING safety devices.
- Tested according to the parameters dictated by current rules and regulations.

Dimensions (mm)



Limits to use

MODEL	Range (m/ft)	MAXIMUM INSTALLATION HEIGHT (m/ft)
MF9011 - MF9111 - SIPA08 - SIPA09	7/22.96	
MR8334 - MR8370 - MR8390	-	2.5/8.2
MR8003	-	3/9.84
MR8104 - MR8106 - MR8107	-	4/13.12
MR8105	-	5/16.40
MR8202	-	4/13.12
MS9502	0.5/1.46	-
MR8401	0.6 - 2.4 / 1.96 - 7.87	2.3 - 4.6 / 7.54 - 15.09

● 12 - 24 V DC

Technical features

Type	MF9011 - MF9111 - SIPA08 - SIPA09	MR8334 - MR8370 - MR8390	MR8003
Contact type and range	NC - 50 V DC - 0.1 A (resistive load)	NC - 60 V DC - 125 V AC - 1 A (resistive load)	NC - 50 V DC - 0.3 A (resistive load)
Power supply (V - 50/60 Hz)	24 - 24 AC - DC	12 - 24 AC - DC	12 - 30 AC - DC
Current draw (mA)	AC 125 MAX - DC 40 MAX	60 MAX	160 MAX (12 V)
Intervention time	25 ms	< 50 ms	< 0.3 s
Recovery time	200 ms	-	0.5 s
Operating temperature (°C/°F)	-20 ÷ +70 / -4 ÷ +158	-20 ÷ +50 / -4 ÷ +122	-20 ÷ +55 / -4 ÷ +131

● 12 - 24 V DC

Technical features

Type	MR8104 - MR8105 - MR8106 - MR8107	MR8203	MR8401	MS9502
Contact type and range	1 A (resistive load)	NC - 42 V AC - DC (resistive load)	1 A (30 V AC)	1 A (resistive load)
Power supply (V - 50/60 Hz)	12 - 24 AC - DC	12 - 24 AC - DC	12 - 30 AC - DC	12 - 24 AC - DC
Current draw (mA)	-	1000	8	-
Intervention time (s)	0.5 ÷ 9.0 (ADJUSTABLE)	< 0.5	-	0.5
Recovery time	-	-	-	-
Operating temperature (°C/°F)	-20 ÷ +55 / -4 ÷ +131			

● 12 - 24 V DC

The complete range



Code	Description
Micro-photocells for the SIPARIO series	
001 SIPA08	Pair of built in 24 V AC - DC infrared beam micro-photocells with 7 m range and L = 6 m screened cable.
001 SIPA09	Double pair of built in 24 V AC - DC infrared beam micro-photocells with 7 m range and L = 6 m screened cable.
Micro-photocells for the CORSA and RODEO series	
001 MF9011	Pair of 24 V AC - DC flush-mounted infrared micro photocells with 7 m / 22.96 ft range and complete with shielded cable..
001 MF9111	Double pair of 24 V AC - DC flush-mounted infrared micro photocells with 7 m / 22.96 ft range and complete with shielded cable.
Infrared safety radar with anti-masking function	
001 MR8334	12 - 24 V AC - DC safety radar with anti-masking function. * L = 340 mm / 13.38 in. - Max application height: 2.5 m / 8.2 ft. - Detection band diameter = 0.13 m / 5.11 in. - Max detection depth = 0.53 m / 20.86 in. - Effective range is adjustable from 0.7 to 2.5 m / 27.55 in to 98.42 in.
001 MR8370	12 - 24 V AC - DC safety radar with anti-masking function. * L = 700 mm / 27.55 in. - Max application height: 2.5 m / 8.2 ft. - Detection band diameter = 0.13 m / 5.11 in. - Max detection depth = 0.53 m / 20.86 in. - Effective range is adjustable from 0.7 to 2.5 m / 27.55 in to 98.42 in.
001 MR8390	12 - 24 V AC - DC safety radar with anti-masking function. * L = 900 mm / 35.43 in. - Max application height: 2.5 m / 8.2 ft. - Detection band diameter = 0.13 m / 5.11 in. - Max detection depth = 0.53 m / 20.86 in. - Effective range is adjustable from 0.7 to 2.5 m / 27.55 in to 98.42 in.
Active infrared beam radar	
001 MR8003	12 - 24 V AC - DC radar with adjustable field - Max application height : 3 m / 9.84 ft. Detection field: - field depth = 0.41 - 1.77 m / 16.14 - 69.68 in. - field depth 3.1 m / 10.17 ft.
Bi-directional detection radar - presence and movement	
001 MR8203	12 - 24 V AC - DC radar with adjustable field Max height of application from 1.8 to 4 m - 5.9 to 13.12 ft Movement detection: - detection mode: movement - bi-directional - technology: iperfrequency and microprocessor - detection field: field depth 2 m / 6.56 ft - field width 4 m / 13.12 ft. - angle: from +15° to +50° in elevation (adjustable) Presence detection: - detection mode: presence - technology: infrared active focalized - detection field: field depth 0.35 m / 1.14 ft - field width 2 m / 6.56 ft. - angle: from -4° to +4° (adjustable).
Movement digital radar	
001 MR8401	12 - 24 V AC - DC movement digital radar with adjustable field. - Max application height: 2.3 - 4.5 m / 7.54 - 14.76 ft. - Detection field from 0.6 m up to 2.4 m / 23.62 in up to 94.48 in.



The complete range



Code	Description
Microwave volumetric radars	
001 MR8104	12 - 24 V AC - DC bi-directional microwave volumetric radar. Max application height: 4 m / 13.12 ft. Detection field: - WIDE ANTENNA: field depth = 2 m / 6.56 ft and field width = 4 m / 13.12 ft. - NARROW ANTENNA: field depth = 2.5 m / 8.2 ft and field width = 2 m / 6.56 ft. Adjustments through 001MRT001 remote control.
001 MR8105	12 - 24 V AC - DC bi-directional microwave volumetric radar. Max application height: 5 m / 16.4 ft. Detection field: field depth = 2.5 m / 8.2 ft and field width = 4 m / 13.12 ft. Adjustments through 001MRT001 remote control.
001 MR8106	12 - 24 V AC - DC mono-directional/bi-directional microwave volumetric radar. Max application height: 4 m / 13.12 ft. Detection field: - WIDE ANTENNA: field depth = 2 m / 6.56 ft and field width = 4 m / 13.12 ft. - NARROW ANTENNA: field depth = 2.5 m / 8.2 ft and field width = 2 m / 6.56 ft. Adjustments through 001MRT001 remote control. In mono-directional modality it activates when approaching.
001 MR8107	12 - 24 V AC - DC bi-directional microwave volumetric radar. Max application height: 4 m / 13.12 ft. Detection field: - field depth = 2 m / 6.56 ft and field width 4 m / 13.12 ft. - field depth = 2.5 m / 8.2 ft and field width 2 m / 6.56 ft. Manual adjustments.
Accessories for: 001MR8104 - 001MR8105 - 001MR8106	
001 MRT001	Remote control for microwave volumetric radars.
Accessories for: 001MR8104 - 001MR8105 - 001MR8106 - 001MR8107	
001 MRWPC	Protective cover for microwave volumetric radars.
Brush activated volumetric sensors	
001 MS9502	Brush activated volumetric sensor 12 - 24 V AC - DC with microwave reflection. Detection field from 0.1 m up to 0.5 m / 3.93 in up to 19.68 in.
Sensitive pads	
001 MP8030	Sensitive pad 800 x 300 mm / 31.49 x 11.81 in.
001 MP8060	Sensitive pad 800 x 600 mm / 31.49 x 23.62 in.



The complete range



Description

Upper hooking profile for framed door leaves, with castor securing brackets and above-surface floor rails	
001 MA7371	Complete kit for two door leaves of up to 500 mm / 19.68 in wide or one door leaf of up to 1,000 mm / 39.37 in wide.
001 MA7471	Complete kit for two door leaves of up to 750 mm / 29.52 in wide or one door leaf of up to 1,500 mm / 59.05 in wide.
001 MA7571	Complete kit for two door leaves of up to 1000 mm / 39.37 in wide or one door leaf of up to 2,000 mm / 78.74 in wide.
Inner guiding profile for framed door leaves with flush-floor rails	
001 MA7351	Complete kit for two door leaves of up to 500 mm / 19.68 in wide or one door leaf of up to 1,000 mm / 39.37 in wide.
001 MA7451	Complete kit for two door leaves of up to 750 mm / 29.52 in wide or one door leaf of up to 1,500 mm / 59.05 in wide.
001 MA7551	Complete kit for two door leaves of up to 1000 mm / 39.37 in wide or one door leaf of up to 2,000 mm / 78.74 in wide.
Upper hooking profile for 10 mm / 0.39 in thick tempered glass door leaves with castor securing brackets and above surface-floor rails	
001 MA7370	Complete kit for two door leaves of up to 500 mm / 19.68 in wide or one door leaf of up to 1,000 mm / 39.37 in wide.
001 MA7470	Complete kit for two door leaves of up to 750 mm / 29.52 in wide or one door leaf of up to 1,500 mm / 59.05 in wide.
001 MA7570	Complete kit for two door leaves of up to 1000 mm / 39.37 in wide or one door leaf of up to 2,000 mm / 78.74 in wide.
Lower guiding profile for 10 mm / 0.39 in thick tempered glass door leaves with flush-floor rails	
001 MA7353	Complete kit for two door leaves of up to 500 mm / 19.68 in wide or one door leaf of up to 1,000 mm / 39.37 in wide.
001 MA7453	Complete kit for two door leaves of up to 750 mm / 29.52 in wide or one door leaf of up to 1,500 mm / 59.05 in wide.
001 MA7553	Complete kit for two door leaves of up to 1000 mm / 39.37 in wide or one door leaf of up to 2,000 mm / 78.74 in wide.
Gaskets for 10 mm / 0.39 in thick tempered-glass leaves (package of 30 m / 98.42 ft).	
001 MAM601	Black lateral gasket for fixed and sliding door leaves.
001 MAM601T	Transparent lateral gasket for fixed and sliding door leaves.
001 MAM600	Black central gasket for sliding door leaves.
001 MAM600T	Transparent central gasket for sliding door leaves.
Customized treatment	
119 COLOR4	Extra charge for customized treatment.



NOTES

119COLOR4 can only be done on: 001MA7371 - 001MA7471 - 001MA7571 - 001MA7370 - 001MA7470 - 001MA7570 - 001MA7353 - 001MA7453 - 001MA7553.

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.

S20

Glass door-leaf profiles



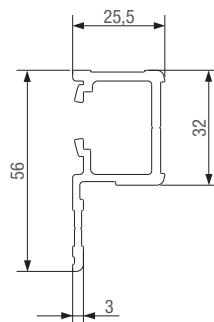
All about superior luminosity and aesthetics

- Sturdy, elegant and easy to assemble.
- For glass door leaves of 4 mm to 15 mm / 0.16 to 0.59 in thick.
- Ideal for Came Corsa, Rodeo and Sipario operators.
- Wide range of accessories available for fitting.

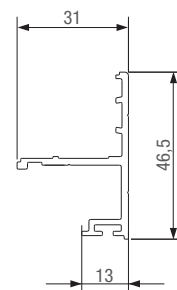
Profile material and weight

MODEL	Weight (g/m)	MATERIAL
001MAL199 - 001MAL199G	0.366 - 0.111	6060 ALUMINIUM ALLOY
001MAL200 - 001MAL200G	0.509 - 0.155	6060 ALUMINIUM ALLOY
001MAL201	0.186 - 0.056	BLACK PVC SH 62 + COEXTRUDED RAL 5015
001MAL202	0.2 - 0.060	BLACK PVC SH 62 + COEXTRUDED RAL 5015
001MAL203 - 001MAL203G	1.802 - 0.549	6060 ALUMINIUM ALLOY
001MAL204 - 001MAL204G	0.813 - 0.247	6060 ALUMINIUM ALLOY
001MAM612 - 001MAM612G	1.325 - 0.403	6060 ALUMINIUM ALLOY
001MAL790 - 001MAL790G	0.478 - 0.145	6060 ALUMINIUM ALLOY
009P3	0.028 - 0.008	BLACK PVC SH 62
009P4	0.05 - 0.015	BLACK PVC SH 62
009P5	0.068 - 0.020	BLACK PVC SH 62
009P6	0.078 - 0.023	BLACK PVC SH 62
009P7	0.128 - 0.039	BLACK PVC SH 62
001MAL791	-	BLACK RIGID PVC 99 SH

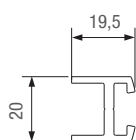
Dimensions (mm)



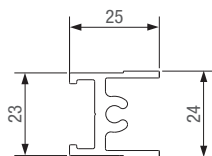
001MAL204



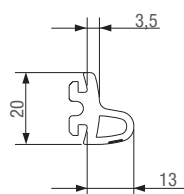
001MAL790



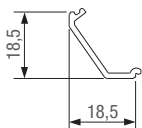
001MAL199



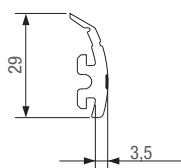
001MAL200



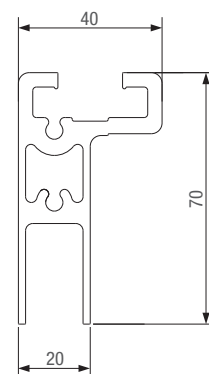
001MAL202



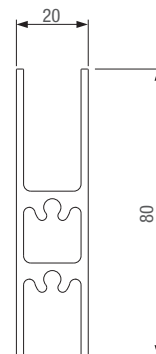
001MAL791



001MAL201



001MAL203



001MAM612

The complete range



Code	Description
Aluminium profiles for glass doors leaves - glass thickness from 4 up to 15 mm / 0.15 to 0.59 in (standard length: 5 m / 16.4 ft)	
001 MAL199	Vertical post for fixed and mobile door leaves.
001 MAL199G	Unfinished vertical post for fixed and mobile door leaves.
001 MAL200	Wall-mounting frame for fixed door leaves.
001 MAL200G	Unfinished wall-mounting frame for fixed door leaves.
001 MAL203	Upper hooking profile.
001 MAL203G	Unfinished upper hooking profile.
001 MAL204	Vertical photocell containment and door leaf endpoint profile for one door leaf.
001 MAL204G	Unfinished vertical photocell containment and door leaf endpoint profile for one door leaf.
001 MAM612	Lower guiding profile.
001 MAM612G	Unfinished lower guiding profile.
001 MAL790	Reduced photocell containment profile.
001 MAL790G	Unfinished reduced photocell containment profile.



The complete range



Code	Description
Plastic grip profiles (packages of 30 m / 98.42 ft)	
001 MAL201	Lateral grip gasket for fixed and mobile door leaves.
001 MAL202	Central grip gasket for mobile door leaves.
Plastic grip profiles for: 001MAL790 (packages of 30 m / 98.42 ft)	
001 MAL791	Finishing profile (10 pieces of 3 m / 9.84 ft each).
Assembling accessories	
001 MAF001	Complete assembling kit for one fixed door leaf.
001 MAM001	Complete assembling kit for one mobile door leaf with slide rails.
Rubber gaskets (packages of 30 m / 98.42 ft)	
009 P3	Filling gasket for glass thickness 3 mm / 0.11 in.
009 P4	Filling gasket for glass thickness 4 mm / 0.15 in.
009 P5	Filling gasket for glass thickness 5 mm / 0.19 in.
009 P6	Filling gasket for glass thickness 6 mm / 0.23 in.
009 P7	Filling gasket for glass thickness 7 mm / 0.27 in.
Customized treatment	
119 COLOR4	Extra charge for customized treatment.

NOTES

119COLOR4 can only be done on: 001MAL199G - 001MAL200G - 001MAL203G - 001MAL204G - 001MAM612G - 001MAL790G.

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.



S40

Framed door-leaf profiles



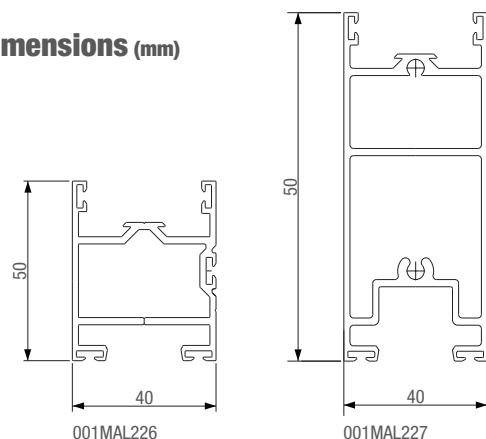
Aluminium profiles for making doors

- A line of profiles for framed doors with exceptional solidity standards.
- Wide range of accessories available for assembling.
- Engineered for door that see intensive duty, like in shopping malls, public offices and hospitals.
- Can be coupled with complete Mi series anti-panic systems.

Profile material and weight

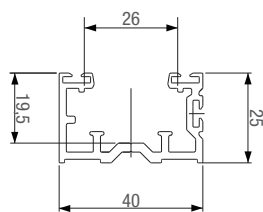
MODEL	Weight (g/m)	MATERIAL
001MAL225 - 001MAL225G	0.686 - 0.209	6060 ALUMINIUM ALLOY
001MAL226 - 001MAL226G	1.030 - 0.314	LEGA DI ALLUMINIO 6060
001MAL227 - 001MAL227G	1.841 - 0.561	6060 ALUMINIUM ALLOY
001MAL228 - 001MAL228G	0.472 - 0.143	6060 ALUMINIUM ALLOY
001MAL229 - 001MAL229G	0.138 - 0.042	6060 ALUMINIUM ALLOY
001MAL230 - 001MAL230G	0.242 - 0.073	6060 ALUMINIUM ALLOY
001MAL231 - 001MAL231G	0.121 - 0.036	6060 ALUMINIUM ALLOY
001MAL223	0.104 - 0.031	BLACK PVC SH 62
001MAL224	0.468 - 0.142	BLACK PVC SH 62
009P3	0.028 - 0.008	BLACK PVC SH 62
009P4	0.05 - 0.015	BLACK PVC SH 62
009P5	0.068 - 0.020	BLACK PVC SH 62
009P6	0.078 - 0.023	BLACK PVC SH 62

Dimensions (mm)

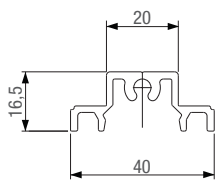


001MAL226

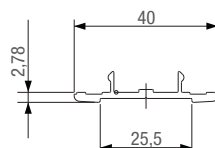
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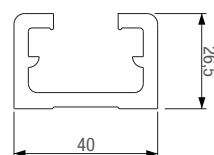
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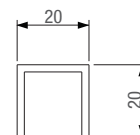
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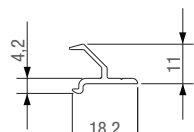
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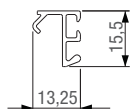
001MAM613



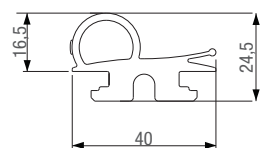
001MAM699



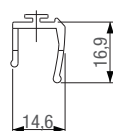
001MAL229



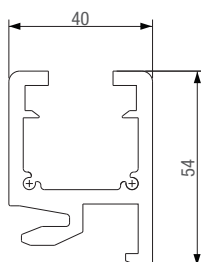
001MAL231



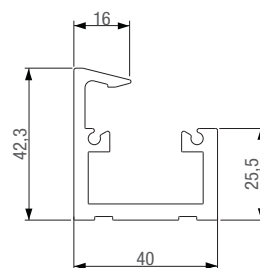
001MAL224



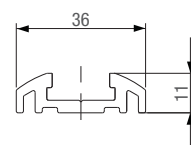
001MAL223



001MAM339



001MAM338



001MAM911

The complete range



Code	Description
Aluminium profiles for framed door leaves - glass thickness from 4 up to 30 mm / 0.15 to 1.18 in (standard length: 5 m / 16.4 ft)	
001 MAM613	Natural anodized upper hooking profile for framed door leaves.
001 MAM613G	Unfinished upper hooking profile for framed door leaves.
001 MAM699	Lower guiding profile for framed door leaves.
001 MAM699G	Unfinished lower guiding profile for framed door leaves.
001 MAL225	Natural anodized wall-mounting frame for fixed door leaves.
001 MAL225G	Unfinished wall-mounting frame for fixed door leaves.
001 MAL226	Natural anodized vertical post and upper hooking profile for fixed and mobile door leaves.
001 MAL226G	Unfinished vertical post and upper hooking profile for fixed and mobile door leaves.
001 MAL227	Natural anodized lower slide guiding profile.
001 MAL227G	Unfinished lower slide guiding profile.
001 MAL228	Natural anodized flush-floor profile for aligning and blocking fixed door leaves.
001 MAL228G	Unfinished flush-floor profile for aligning and blocking fixed door leaves.
001 MAL229	Natural anodized door leaf blocking profile for emergency breakaway system.
001 MAL229G	Unfinished door leaf blocking profile for emergency breakaway system.
001 MAL230	Natural anodized vertical photocell containment and door leaf endpoint profile.
001 MAL230G	Unfinished vertical photocell containment and door leaf endpoint profile.
Accessories for: 001MAL226 and 001MAL227 (standard length: 5 m / 16.4 ft)	
001 MAL231	Natural anodized glass holding profile.
Accessories for: 001MAL226G and 001MAL227G (standard length: 5 m / 16.4 ft)	
001 MAL231G	Unfinished glass holding profile.



The complete range



Code	Description
Assembling accessories	
001 MAF002	Bracket to pair fixed door leaf to frame.
001 MAF003	Upper and lower anchoring angle brackets for fixed door leaves.
001 MAM002	Finishing for mobile door leaves with emergency breakaway system.
001 MAM003	Package of accessories to hook the mobile door leaf to the slide guide.
001 MAMF01	Package of nuts and bolts for one door leaf assembly.
001 MAMF02	Adjusting angle bracket for one door leaf.
001 MAMF03	Angle bracket for frame.
Rubber gaskets (packages of 30 m / 98.42 ft)	
009 P3	Filling gasket for glass thickness 3 mm / 0.11 in.
009 P4	Filling gasket for glass thickness 4 mm / 0.15 in.
009 P5	Filling gasket for glass thickness 5 mm / 0.19 in.
009 P6	Filling gasket for glass thickness 6 mm / 0.23 in.
009 P7	Filling gasket for glass thickness 7 mm / 0.27 in.
Plastic grip profiles (packages of 30 m / 98.42 ft)	
001 MAL223	Multi-use gasket (10 pcs of 3 m / 9.84 ft).
001 MAL224	Central grip gasket for mobile door leaves (10 pcs of 3 m / 9.84 ft).
Customized treatment	
119 COLOR4	Extra charge for customized treatment.



NOTES

Executable on: 001MAM613G - 001MAM699 - 001MAL225G - 001MAL226G - 001MAL227G - 001MAL228G - 001MAL229G - 001MAL230G - 001MAL231G.

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done with RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.

Complete anti-panic system for RODEO and SIPARIO sliding doors



Emergency device for profiles in case of power outages

- For sliding doors, when an emergency opening is required.
- Integrates perfectly with Came's S40 series door profiles.
- Ground slide guide, to enable door to rotate and open in emergency mode.
- Security is ensured by the special profiles to prevent opening from the outside.
- The anti-panic system can be fitted to both moving and fixed leaves.

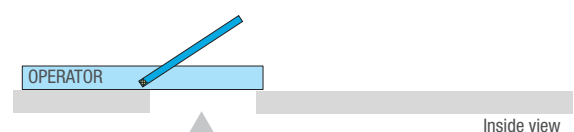
WARNING:

For door leaves greater than 1100 mm / 43.30 in and up to 1500 mm / 59.05 in it is MANDATORY to fit the accessory carriage supplied in the package. The maximum allowed weight of the moving leaf, in this case, is shown in the LIMITS TO USE table. On leaves lesser than 1100 mm / 43.30 in, fitting the carriage results in the best possible performance from the operator. Proper working of the carriage is ensured when the floor is perfectly smooth.

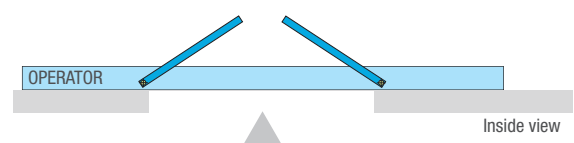
Limits to use

RODEO MODELS	SIPARIO MODELS	Max length of leaf/leaves (mm/in)	MOVING LEAVES - FIXED LEAVES
MI6010	001SIPA20	1100 / 43.30	YES - NO
MI6110	001SIPA21	1500 / 59.05	YES - NO
MI6020	001SIPA22	1100 + 1100 / 43.30 + 43.30	YES - NO
MI6120	001SIPA23	1500 + 1500 / 59.05 + 59.05	YES - NO
MI6030	001SIPA24	1100 / 43.30	YES - YES
MI6130	001SIPA25	1500 / 59.05	YES - YES
MI6040	001SIPA26	1100 + 1100 / 43.30 + 43.30	YES - YES
MI6140	001SIPA27	1500 + 1500 / 59.05 + 59.05	YES - YES
RODEO		SIPARIO	
MAX DOOR-LEAF LENGTH (mm/in) / Max gate-leaf weight (Kg/lb)		MAX DOOR-LEAF LENGTH (mm/in) / Max gate-leaf weight (Kg/lb)	
500 / 19.68 - 120 / 264.55		-	
600 / 23.62 - 90 / 198.41		-	
700 / 27.55 - 80 / 176.36		700 / 27.55 - 80 / 176.36	
800 / 31.49 - 70 / 154.32		800 / 31.49 - 70 / 154.32	
900 / 35.43 - 60 / 132.27		900 / 35.43 - 60 / 132.27	
1000÷1500 / 39.37÷59.05 - 40 / 88.18		1000÷1500 / 39.37÷59.05 - 40 / 88.18	

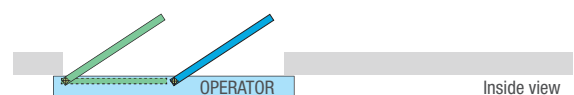
Application



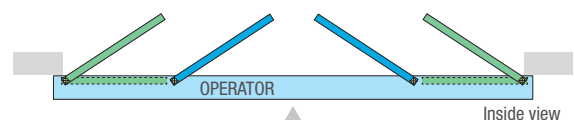
MI6010 - MI6110 - 001SIPA20 - 001SIPA21
1 MOVING DOOR LEAF



MI6020 - MI6120 - 001SIPA22 - 001SIPA23
2 MOVING LEAVES

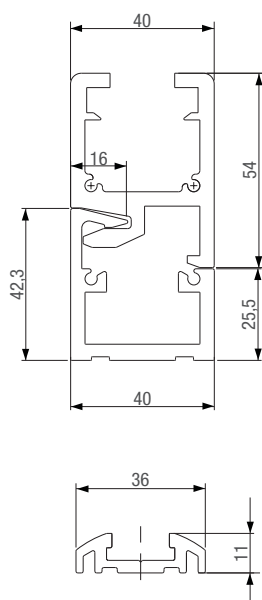


MI6030 - MI6130 - 001SIPA24 - 001SIPA25
1 MOVING LEAF + 1 FIXED LEAF



MI6040 - MI6140 - 001SIPA26 - 001SIPA27
2 MOVING LEAVES + 2 FIXED LEAVES

Dimension (mm)



The complete range



Code	Description
Complete emergency breakaway systems for sliding door leaves with S40 profiles - RODEO	
001 MI6010	Complete system for one mobile door leaf. Max width: 1,100 mm / 43.3 in.
001 MI6110	Complete system for one mobile door leaf. Max width: 1,500 mm. / 59.05 in.
001 MI6020	Complete system for two mobile door leaves. Max width: 1,100 + 1,100 mm / 43.3 + 43.3 in.
001 MI6120	Complete system for two mobile door leaves. Max width: 1,500 + 1,500 mm / 59.05 + 59.05 in.
001 MI6030	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,100 mm / 43.3 in.
001 MI6130	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,500 mm / 59.05 in.
001 MI6040	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,100 + 1,100 mm / 43.3 + 43.3 in.
001 MI6140	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,500 + 1,500 mm / 59.05 + 59.05 in.
Complete emergency breakaway systems for sliding door leaves with S40 profiles - SIPARIO	
001 SIPA20	Complete system for one mobile door leaf. Max width: 1,100 mm / 43.3 in.
001 SIPA21	Complete system for one mobile door leaf. Max width: 1,500 mm. / 59.05 in.
001 SIPA22	Complete system for two mobile door leaves. Max width: 1,100 + 1,100 mm / 43.3 + 43.3 in.
001 SIPA23	Complete system for two mobile door leaves. Max width: 1,500 + 1,500 mm / 59.05 + 59.05 in.
001 SIPA24	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,100 mm / 43.3 in.
001 SIPA25	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,500 mm / 59.05 in.
001 SIPA26	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,100 + 1,100 mm / 43.3 + 43.3 in.
001 SIPA27	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,500 + 1,500 mm / 59.05 + 59.05 in.
Customized treatments	
119 COLOR8	Extra charge for customized treatment.
119 COLOR9	Extra charge for customized treatment.
119 COLOR10	Extra charge for customized treatment.
119 COLOR11	Extra charge for customized treatment.



NOTES

119COLOR8 can only be done on: 001MI6010 - 001MI6030 - 001SIPA20 - 001SIPA24

119COLOR9 can only be done on: 001MI6110 - 001MI6130 - 001SIPA21 - 001SIPA25

119COLOR10 can only be done on: 001MI6020 - 001MI6040 - 001SIPA22 - 001SIPA26

119COLOR11 can only be done on: 001MI6120 - 001MI6140 - 001SIPA23 - 001SIPA27

Varnishing treatments on request by customers are delivered at least 30 working days from the order receiving day.

The varnishing treatment is done on RAL glossy or matt colours.

WARNING: the cost of the oxidation treatment must be estimated considering the quantity of material to subject to the treatment.

Corsa-Rodeo complete system

The complete range

Code	Description
Complete systems for CORSA and RODEO automatic sliding door assembling	
001 MCORSA 	Complete system for sliding door with 1 + 1 leaf max 75 Kg / 165.35 lb per leaf.
001 MRODEO 	Complete system for sliding door with 1 + 1 leaf max 125 Kg / 275.58 lb per leaf.
Beam profiles and profile covers	
001 PLCD1SET	Beam profile and slide guide Corsa and Rodeo L = 6,850 mm / 269.68 in.
001 PLCD2SET	Beam profile and slide guide with holes Corsa and Rodeo L = 6,700 mm / 263.77 in.
001 LC00SET	Natural anodized profile cover L = 6,850 mm / 269.68 in.
001 LC01SET	Unfinished profile cover L = 6,850 mm / 269.68 in.
001 LD00SET	Natural anodized extra-size profile cover L = 6,850 mm / 269.68 in.
001 LD01SET	Unfinished extra-size profile cover L = 6,850 mm / 269.68 in.
Accessories for: 001LC68	
001 LTC	Package of n. 2 natural grey painted caps for profile covers.
Accessories for: 001LC68G	
001 LTCG	Package of n. 2 unfinished caps for profile covers.
Accessories for: 001LD68 - 001LD68G	
001 LTD	Package of n. 2 caps with hinges for profile covers.
Complementary accessories	
001 MA7012	Electroblocker complete with cord and release lever.
001 MA7036	Cards for connecting n. 2 12 V – 1.2 Ah emergency batteries with rack (batteries not included).
001 MA7041	Function selectors.
001 P4770	Package of n. 2 casters Corsa max 75 Kg / 165.35 lb each pair.
001 P4771	Package of n. 2 casters Rodeo max 125 Kg / 275.58 lb each pair.

The complete range

Code	Description
Accessories for glass door leaves	
001 MA53	Package of fixation accessories for lower guiding profile.
001 MA70	Package of fixation accessories for upper hooking profile.
001 MAM611	Natural anodized aluminium upper hooking profile L = 5000 mm / 196.8 in.
001 MAM611G	Unfinished aluminium upper hooking profile L = 5000 mm / 196.8 in.
001 MAM612	Natural anodized aluminium lower guiding profile L = 5000 mm / 196.8 in.
001 MAM612G	Unfinished aluminium lower guiding profile L = 5000 mm / 196.8 in.
Accessories for framed door leaves	
001 MA51	Package of fixation accessories for lower guiding profile.
001 MA71	Package of fixation accessories for upper hooking profile.
001 MAM613	Natural anodized aluminium upper hooking profile L = 5000 mm / 196.8 in.
001 MAM613G	Unfinished aluminium upper hooking profile L = 5000 mm / 196.8 in.
001 MAM699	Natural anodized aluminium lower guiding profile L = 5000 mm / 196.8 in.
001 MAM699G	Unfinished aluminium lower guiding profile L = 5000 mm / 196.8 in.
Assembling accessories	
001 MA965SWT	Gasket for beam profile (package of 50 m / 164.04 ft).
001 MBA25SET	Biadhesive tape (package of 25 m / 82.02 ft).
001 MCI30SET	HTD8M belt for automatic doors (package of 30 m / 98.42 ft).
001 MP650SET	6 x 0.5 mm ² / 6 x 0.019 in ² rectangular wire (package of 50 m / 164.04 ft).
Customized treatments	
119 COLOR2	Extra charge for customized treatment.
119 COLOR3	Extra charge for customized treatment.
119 COLOR4	Extra charge for customized treatment.

NOTES

119COLOR2 Only on: 001LC68 - 001LC68G - 001LD68 - 001LD68G

119COLOR3 Only on: 001LTCG

119COLOR4 Only on: 001MAM611G - 001MAM612G


The varnishing or oxydation treatments, when expressly requested by the client, are delivered no sooner than 30 days from the order confirmation date

Possibility of varnishing treatments on RAL standard range either glossy or matt finishing.

ATTENTION: It is necessary to quote the cost for oxydation treatment, considering the quantity of material that needs to be treated.

Sipario complete system

The complete range

Code	Description
Complete systems for SIPARIO automatic sliding door assembling	
001 MSIPARIO 	Complete system for sliding door with 1 + 1 leaf max 100 Kg per leaf.
Beam profiles and profile covers	
001 SIPT68SET	Beam profile and slide guide Sipario L = 6,850 mm.
001 SIPT67SET	Beam profile and slide guide with holes Sipario L = 6,700 mm.
001 SIPP68SET	Natural anodized aluminium wall hooking profile L = 6,850 mm.
001 SIPC68SET	Natural anodized profile cover complete with hinges L = 6,850 mm.
001 SIPC68GSET	Unfinished profile cover complete with hinges L = 6,850 mm.
Mandatory assembling accessories	
001 SIPA19	Gasket for beam profile (package of 30 m).
001 SIPA16	Package of n. 2 casters max 100 Kg each pair.
001 SIPA17	Belt for automatic doors (package of 30 m).
001 SIPA18	Dust protection cover (package of 30 m).
Accessories for: 001SIPC68SET and 001SIPC68GSET	
001 SIPTL	Package of n. 2 black painted caps for profile covers.
Complementary accessories	
001 SIPA01	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries with rack (supplied with batteries)..
001 SIPA02	Electroblocker complete with cord and release lever.
001 SIPA03	Function selector.
001 SIPA04	“Transceiver” function selector (transmitter and receiver) (mandatory item 001SIPA05).
001 SIPA15	Transceiver function selector kit (001SIPA04 and 001SIPA05).
001 SIPA06	Clock card for setting timer features (mandatory at least one 001SIPA03 or 001SIPA04).
001 SIPA07	Additional pull-cord release device L = 5 m.
001 SIPA08 	Pair of built in 24 V AC - DC infrared beam micro-photocells with 7 m range and L = 6 m screened cable.
001 SIPA09 	Double pair of built in 24 V AC - DC infrared beam micro-photocells with 7 m range and L = 6 m screened cable.
Accessories for: 001SIPA04	
001 SIPA05	Radio receiver with antenna for the 001SIPA04.
001 SIPA14	Wall support for 001SIPA04.

The complete range

Code	Description
Accessories for glass door leaves	
001 MA53	Package of fixation accessories for lower guiding profile.
001 MA70	Package of fixation accessories for upper hooking profile.
001 MAM611	Natural anodized aluminium upper hooking profile L = 5000 mm.
001 MAM611G	Unfinished aluminium upper hooking profile L = 5000 mm.
001 MAM612	Natural anodized aluminium lower guiding profile L = 5000 mm.
001 MAM612G	Unfinished aluminium lower guiding profile L = 5000 mm.
Accessories for framed door leaves	
001 MA51	Package of fixation accessories for lower guiding profile.
001 MA71	Package of fixation accessories for upper hooking profile.
001 MAM613	Natural anodized aluminium upper hooking profile L = 5000 mm.
001 MAM613G	Unfinished aluminium upper hooking profile L = 5000 mm.
001 MAM699	Natural anodized aluminium lower guiding profile L = 5000 mm.
001 MAM699G	Unfinished aluminium lower guiding profile L = 5000 mm.
Customized treatments	
119 COLOR2	Extra charge for customized treatment.
119 COLOR4	Extra charge for customized treatment.

NOTES:

119COLOR2 Only on: 001SIPC68GSET

119COLOR4 Only on: 001MAM611G - 001MAM612G - 001MAM613G - 001MAM699G

The varnishing or oxydation treatments, when expressly requested by the client, are delivered no sooner than 30 days from the order confirmation date
Possibility of varnishing treatments on RAL standard range either glossy or matt finishing.

ATTENTION: It is necessary to quote the cost for oxydation treatment, considering the quantity of material that needs to be treated.

Notes

This image shows a full page of blank, lined paper. It features approximately 28 horizontal grey lines spaced evenly across the page, typical of standard notebook paper. There are no margins, text, or other markings present.

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