General Catalogue

CAME

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European Standards

EN 12453 - EN 12445

The EN12453 - EN12445 regulations establish safety and compliance requirements for automated doors and gates that, when functioning, may come into contact with people.
They define the minimum technical solutions making automated systems safer for users.
The key points are the installed automated system location, the type of command device used and the type of user.

The INSTALLATION LOCATION may be:

- On private and bounded premises;
- On public premises bordering with public premises;
- on public premises.

The USER may be:

- Trained.

Trained users are those that are given instructions on how to activate the automation.
They usually activate automations located on private premises.

- untrained.

Untrained users are those that are not given instructions on how to activate the automation.
They usually activate automations located on public premises.

The COMMAND may be:

- non self-holding type (maintained action / man on function).

The automation is activated only thanks to automatic resetting buttons or switch selectors.
An example of functioning: pressing a button you activate an automation. As soon as the button is released the automation stops working.
The automation is visible from the user position.

- an impulses sending by a fixed station device.

The impulses type command is activated by a fixed station, from which the system can be monitored. The button or switch selector do not need to be self holding type, which means they do not automatically reset.

- a radio command impulse.

The automation is controlled by remote or fixed devices radio impulses.
Each impulse sent has a corresponding function (i.e. open, close, stop etc.).

- an automatic impulse.

Each impulse sent does not correspond only to a single function but to a complete working cycle (i.e. open and close cycle).

The solutions

The contexts set out by the legislation

The command		Non self-holding	Impulses sending by a fixed station device	Radio command impulses	Automatic impluse
The installation and the user	Private premises Trained user	A	C	C	C + D
	Private premises Untrained user	C	C	C + D	C + D
	Public premises Untrained user	B	C	C + D	C + D
	Public premises Untrained user	-	C + D	C + D	C + D

Safety devices required

A **"Man on"** with automatic resetting of the command device

B **"Man on"** with manual resetting of the command device

C **Mechanical devices** (safety sensitive edges) **and electronic devices** (encoder)

Compliance with maximum impact force standards must be verified.
Such standards are set out in the Technical Reference Standards.

D **Infrared beam photocells**

which allow obstacle detection in the range of operation of the automation.

Legend

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

The 230 – 400 V AC 3-PHASE versions are intended for industrial use as
they guarantee greater surge rates of the gearmotors in the starting phase.

Automations tested in compliance with maximum impact force standards established by European Norms.

Gearmotor or automation with encoder.

New for 2010

PRATICO SYSTEM remote control radio release system.

BATTERY-POWERED, CORDLESS product with wireless connection.

Automation for:
SLIDING GATES

Index

CAME

Your selection guide

Sliding gate operators

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

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	1,200/2,640
	BK-1200P	
	BKE-1200	
	BK-1800	1,800/3,970
	BKE-1800	
	BK-2200	2,200/4,850
	BK-221	● 230 V AC INTENSIVE USE
	BKE-2200	
	BK-2200T	
By-3500T	BY-3500T	3,500/7,720

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

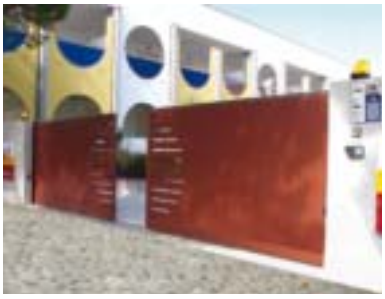
The 24 V DC versions are specifically designed for intensive use and are guaranteed to work even during blackouts.

The 230 – 400 V AC 3-PHASE versions are intended for industrial use as they guarantee greater surge rates of the gearmotors in the starting phase.

Sliding gates

RIGHT OR LEFT opening

All Came sliding gate operators are made to open on the left side (operator side view).
To install on the right, invert the motor phases and endpoint connection, as shown in the installation manuals.
Series: Bx-243



SIMULTANEOUS opening

The range of Came sliding gate operators allows you to install two operators opposite each other.
Series: Bk

Industrial APPLICATION

In industrial installations that see passage of trailer-trucks, semi-trailers and forklifts, it is always advisable to install infrared beam photocells at two heights.
This is to prevent gate closings if vehicles stop in the passage zone.
Series: By-3500T

The flashing light: for added safety

Came suggests the installation of the flashing light to indicate the presence of moving mechanical parts.
Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their “manoeuvre counter” function. With this, installers can decide on a number of cycles, and once the limit is reached, an additional light signal warns that scheduled maintenance required.

European Standards

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.
Example: a private gate that opens and closes on a town street or sidewalk.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

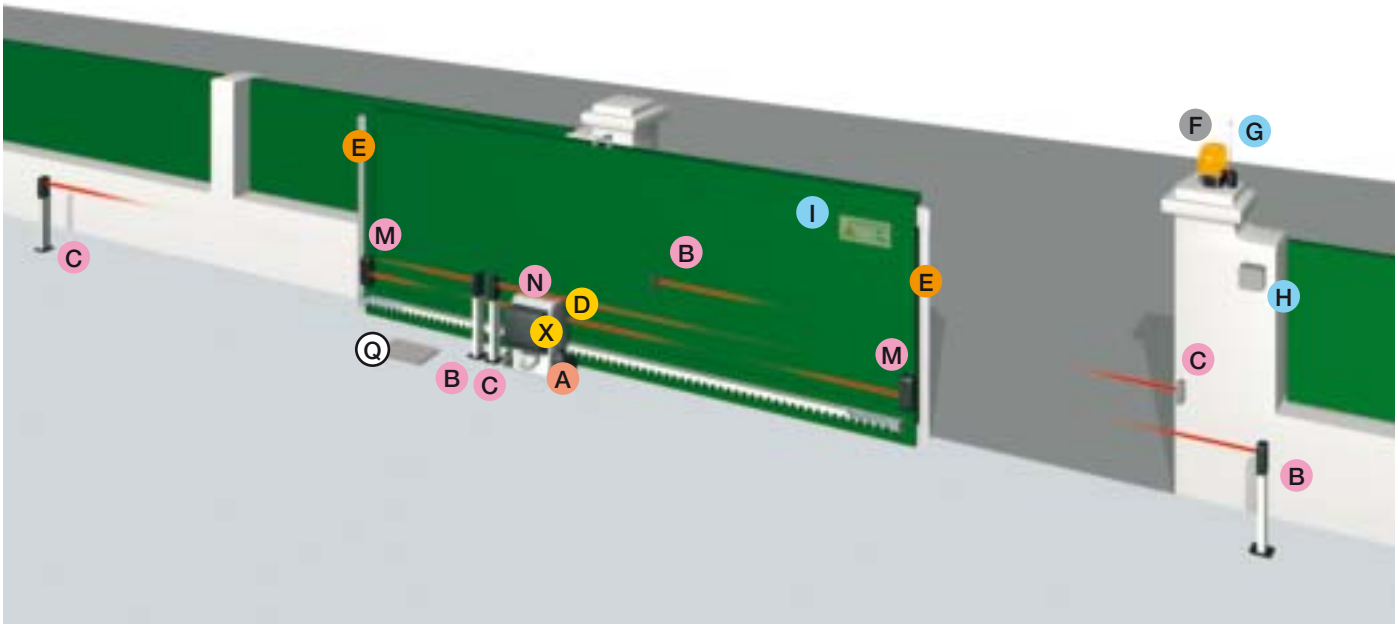
Solutions for a safe installation:
SAFETY SENSITIVE EDGES AND INFRARED-BEAM PHOTOCELLS
Thanks to the special onboard mechanism, the sensitive safety edges are completely collapsible and have no rigid parts – to guarantee top level protection.

EN TESTED: CAME's added value

When you use EN-TESTED operators and control panels you need not install any sensitive safety edges. In this case, however, the impact forces need to be measured for compliance against the parameters established in the regulations.

This product is tested for compliance with maximum impact force standards established by EN 12445 and EN 12453 Technical Regulations.

Sliding GATE



The products

- A Sliding gate operator
- B TX photocells
- C RX photocells
- D Control and emergency battery charge card
- E Safety sensitive edges
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- I Gate plate
- M TX cordless photocells
- N TX photocells
- Q Junction box
- X Radio receiver

Control panel and radio receiver are built-into the operator (excluding: 001BK-2200T)

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 2.5 mm² / AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm² / AWG14	4G x 1.5 mm² / AWG14	4G x 2.5 mm² / AWG12
230 V AC motor power supply	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 2.5 mm² / AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm² / AWG14	4G x 1.5 mm² / AWG14	4G x 2.5 mm² / AWG12
24 V DC motor power supply	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14	2G x 2.5 mm² / AWG12
Endstop microswitches	*n° x 0.5 mm² / AWG20	*n x 0.5 mm² / AWG20	*n x 0.5 mm² / AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14
TX photocells	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20
RX photocells	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

Complete sets

CAME

001U9615 Bx-243 basic

Complete system kit with 24 V DC operator for sliding gates of up to 300 Kg / 660 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**BX-243**	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 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIAR024N**	Flashing light.	1	
	Gate plate.	1	

Complete sets

CAME

001U9651 Bx-243 plus

Complete system kit with 24 V DC operator for sliding gates of up to 300 Kg / 660 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**BX-243**	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 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**TOP-A433N**	Antenna.	1	
001**TOP-RG58**	Antenna cable.	m 5	
001**KIAR024N**	Flashing light.	1	
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1	
	Gate plate.	1	

Complete sets

CAME

001U2914 Bx basic

Complete system kit with 230 V AC operator for sliding gates of up to 400 Kg / 880 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
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.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIARON**	Flashing light.	1	
	Gate plate.	1	

Complete sets

CAME

001U2915 Bx plus

Complete system kit with 230 V AC operator for sliding gates of up to 400 Kg / 880 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
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.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**TOP-A433N**	Antenna.	1	
001**TOP-RG58**	Antenna cable.	m 5	
001**KIARON**	Flashing light.	1	
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1	
	Gate plate.	1	

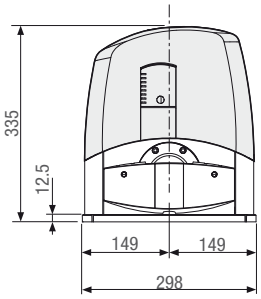
Bx-243

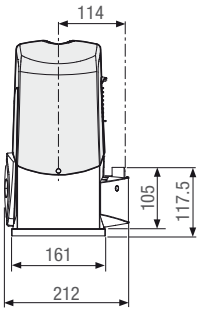
Gates of up to 300 Kg / 660 lb

The ideal solution to apply to residential gates

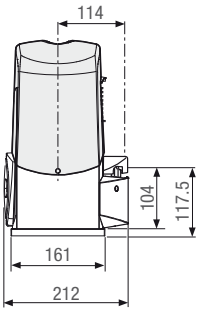
- Tested according to applicable rules and regulations.
- Can function in emergency mode during blackouts.
- Thanks to the endstops which are built-in and protected in the gearmotor assembly, it is no longer a problem to install the operator in areas with critical weather conditions.
- Encoder-based movement control.
- Self-diagnosing safety devices.
- The control board is fitted horizontally, making it much more practical to make the necessary connections.

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 complete range

Code	Description
	Complete automation system with 24 V DC operator - tested in compliance with EN 12453 - EN 12445
001**BX-243**	Automation system complete with control board, built-in 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, built-in 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 in length.
	Accessories for: 001BX-243 and 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.
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.
009**CGZS**	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.



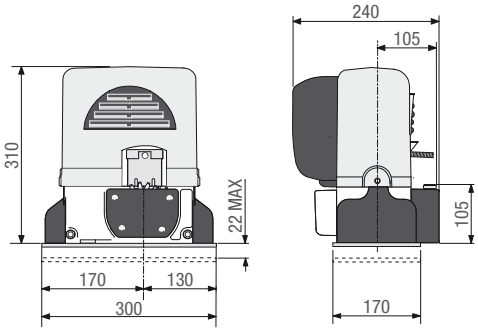

Bx

Gates of up to 800 Kg / 1,760 lb

The ideal solution to apply to gates subjected to intensive use

- 001BX-74 and 001BX-246: tested according to current legislative standards.
- A broad range is available to meet any requirements.
- Self-diagnosing safety devices.
- 001BX-10: evolved electronics with programming display, encoder-based deceleration and obstacle detections, and can memorise up to 250 users.
- PRATICO SYSTEM: to activate the radio release patented by Came, just add a snap-in radiofrequency card (this option is not possible for the 001AF30 and 001AF40 cards).
- 001BX-246: can work in emergency mode during blackouts.

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:
For the activation of the 001BK-1200P's release device you need a plug-in radio frequency card of the same series you use for the automation radio command (excluding: 001AF30 - 001AF40).

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	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150	150	-	150/302	150/302

● 230 V AC ● 24 V DC

The complete range

Code	Description
	Complete automation system with 230 V AC operator - tested in compliance with EN 12453 - EN 12445
001**BX-74**	Automation system complete with control board, built-in 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 in length.
	Complete automation systems with 230 V AC operator
001**BX-P**	Automation system complete with control board, built-in radio decoder and PRATICO SYSTEM radio release 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, built-in radio decoder, encoder-based movement control and obstacle detection devices for sliding gates of up to 800 Kg / 1,760 lb and 20 m / 65.62 ft in length.
	Complete automation system with 24 V DC operator - tested in compliance with EN 12453 - EN 12445
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 / 59.05 ft in length. Fitted to take n. 2 12 V - 1.2 Ah batteries.
	Accessories for: 001BX-10
002**RSE**	Combined opening function management card.
	Accessories for: 001BX-246
002**LBD2**	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	Accessories
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.
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 600 Kg / 1,320 lb.
009**CGZS**	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.









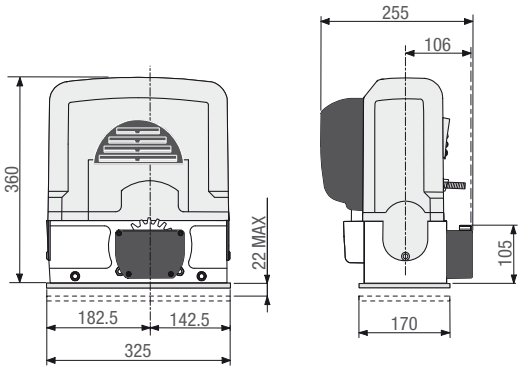

Bk

Gates of up to 2,200 Kg / 4,850 lb

The ideal solution to apply to high volume of transit and industrial facilities

- Flexibility and safety thanks to a complete range designed to different types of fuse, from industrial to intensive settings.
- Self-diagnosing safety devices.
- A broad range of automated devices even with encoder-based movement control.
- Can also control additional lighting of the passage area.
- PRATICO SYSTEM: to activate the radio release patented by Came, just add a snap-in radiofrequency card (this option is not possible for the 001AF30 and 001AF40 cards).
- Module 4 or 6 pinions for fluid and linear transmission of the rack movement.
- 001BK-2200T: powered by a 3-phase voltage to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BK-800	BK-1200	BK-1200P	BK-1800	BK-2200	BK-221	BK-2200T
Max gate-leaf weight (Kg/lb)	800/1,760	1,200/2,640	1,200/2,640	1,800/3,970	2,200/4,850	2,200/4,850	2,200/4,850
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)		1,200/2,640		1,800/3,970	2,200/4,850		
Max gate-leaf length (m/ft)		13/42.65		13/42.65	13/42.65		
Pinion module (m)		4		4	6		

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC

NOTES:
For the activation of the 001BK-1200P's release device you need a plug-in radio frequency card of the same series you use for the automation radio command (excluding: 001AF30 - 001AF40).

Technical features

Type	BK-800	BK-1200 - BKE-1200	BK-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 AC 3-PHASE
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC	230 - 400 AC 3-PHASE
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	150/302	150/302	150/302	150/302	150/302	150/302

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC

The complete range

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







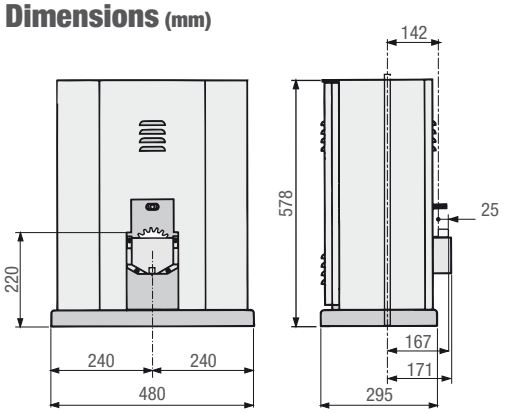

By-3500T

Gates of up to 3,500 Kg / 7,720 lb

The ideal solution to apply to large gates and in intensive use situations

- For very large sliding gates.
- Can also control additional lighting of the passage area.
- Sturdy mechanics to ensure exceptional performance.
- Self-diagnosing safety devices.
- Powered by a tri-phase voltage to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BY-3500T
Max gate-leaf weight (Kg/lb)	3,500/7,720
Max gate-leaf length (m/ft)	23/ 75.45
Pinion module (m)	6

● 230 - 400 AC 3-PHASE

Technical features

Type	BY-3500T
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
Motor power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
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 AC 3-PHASE

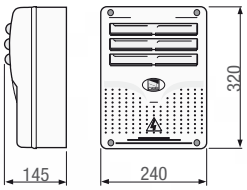
The complete range

Code	Description
	230 - 400 V AC 3-phase automation system
001**BY-3500T**	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 3,500 Kg / 7,716 lb and max 23 m / 75.45 ft in length.
	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 sliding gate set up n. 1 001BRC15 + n. 3 001BRCP.
	Rack
009**CGZ6**	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in.

Electronic functions

The table shows all of the control panels features dedicated to sliding-gate operators.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)



002ZT6
002ZT6C

CAME

The models

Series	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 ADJUSTMENTS										
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 AC 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

NOTE:
*** For 001BX-10 - 001BX-74 - 001BX-78 and 001BK-221 only slow-down speed.**
**** For 001BX-246 ONLY OPEN function.**

Automation for:
SWING GATES

Index

CAME

Your selection guide

Swing gate operators

The table summarises both the series and models, along with the maximum limits of use, only based on the width of the gate-leaf.

Series	Model	Max gate-leaf width (m/ft)
Frog	FROG-AV	1.3/4.2
Flex	F500	1.6/5.2
	F510	
Myto	MYTO-ME	1.8/6
Stylo	STYLO-ME	
Amico	A1824	
Frog-J	FROG-J	
Amico	A18230	2.2/7.2
Fast	F7000	2.3/7.5
	F7001	
	F7001E	
	F7024N	
	F7024E	
Ati	A3000 - A3000A	3/10
	A3100 - A3100A	
	A3006	
	A3106	
	A3024N	
Axo	AX302304	
	AX312304	
	AX3024	
Krono	KR300D - KR302D	
	KR300S - KR302S	
	KR310D	
	KR310S	
Frog	FROG-A	3.5/11.5
	FROG-AE	
	FROG-A24	
	FROG-A24E	
Axo	AX402306	4/13
	AX412306	
Ferni	F1000	
	F1100	
	F1024	
	FE40230	
	FE4024	
Axo	AX5024	5/16
Ati	A5000 - A5000A	
	A5100 - A5100A	
	A5006	
	A5106	
	A5024N	
Krono	KR510D	
	KR510S	
Axo	AX71230	7/23
Super Frog	FROG-MD	8/26
	FROG-MS	

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

The 230 – 400 V AC 3-PHASE versions are intended for industrial use as they guarantee greater surge rates of the gearmotors in the starting phase.

● 230 – 400 V AC 3-PHASE - ● 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 - Myto - 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: Flex - Stylo - Fast - Ferni

The flashing light: for added safety

Came suggests the installation of the flashing light to indicate the presence of moving mechanical parts.
Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their "manoeuvre counter" function. With this, installers can decide on a number of cycles, and once the limit is reached, an additional light signal warns that scheduled maintenance is in order.

European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.
Example: a private gate that opens and closes on a town street or sidewalk.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
SAFETY SENSITIVE EDGES AND INFRARED-BEAM PHOTOCELLS
Thanks to the special onboard mechanism, the sensitive safety edges are completely collapsible and have no rigid parts – to guarantee top level protection.

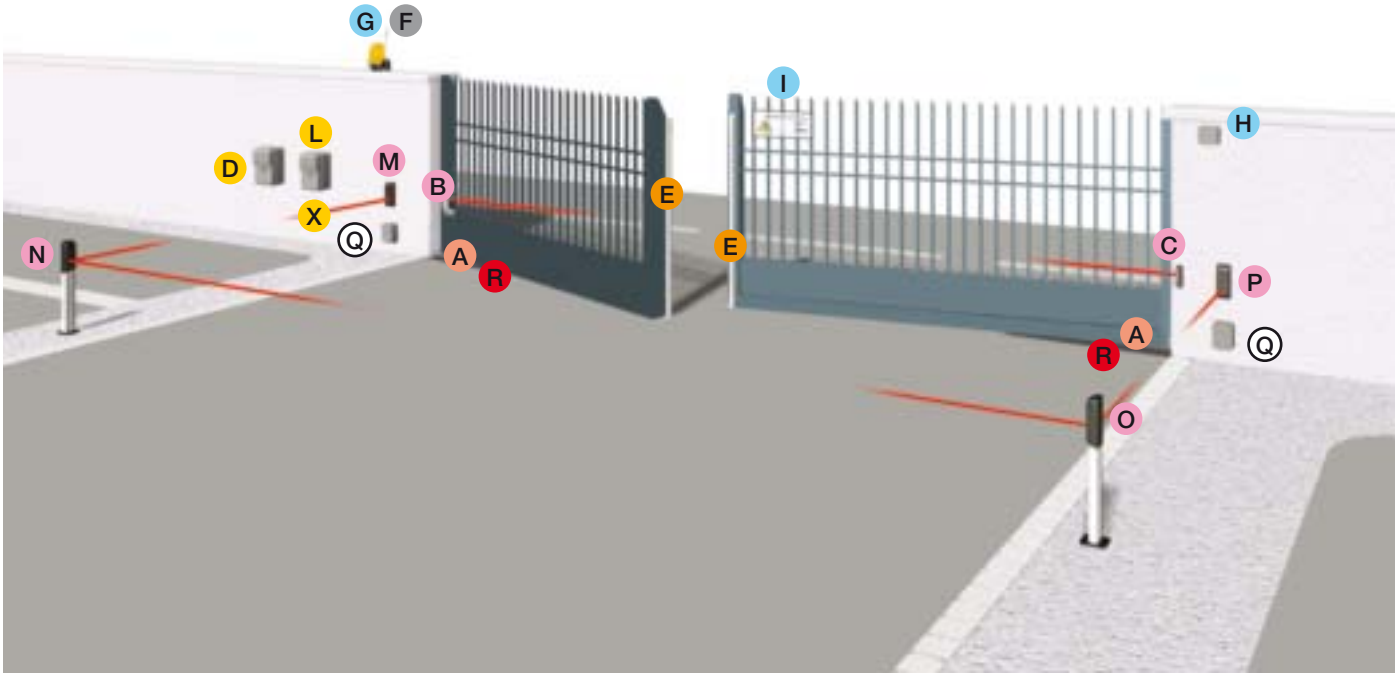
EN TESTED: CAME's added value

When you use EN-TESTED operators and control panels you need not install any sensitive safety edges. In this case, however, the impact forces need to be measured for compliance against the parameters established in the regulations.

This product is tested for compliance with maximum impact force standards established by EN 12445 and EN 12453 Technical Regulations.

CAME

SWING gate



The products

- A Swing-gates operator
- B TX photocells
- C RX photocells
- D Control and battery charging card
- E Safety sensitive edges
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- I Gate plate
- L Control panel
- M TX cordless photocells
- N TX/RX cordless photocells or TX photocells
- O RX/TX cordless photocells or RX photocells
- P RX cordless photocells
- Q Junction box
- R Transmission levers
- X Radio receiver

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 2G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 2G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 2G x AWG14	3G x 1.5 mm² / 2G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 2G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
12 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1.5 mm² / 2 x AWG14
24 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length

Complete sets

CAME

001U7124 Ati basic

Complete system kit with 24 V DC operator for swing gates of up to 3 m / 10 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

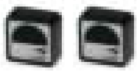
Code	Description	Quantity	
001**A3024N**	Self-locking operator for gate-leaves of up to 3 m / 10 ft. (90° opening time: adjustable).	2	
002**ZL180**	Control panel for two-leaf swing gates with built-in radio decoder.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIAR024N**	Flashing light.	1	
	Gate plate.	1	

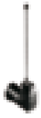
Complete sets

001U7125 Ati plus

Complete system kit with 24 V DC operator for swing gates of up to 3 m / 10 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**A3024N**	Self-locking operator for gate-leaves of up to 3 m / 10 ft. (90° opening time: adjustable).	**2**
002**ZL180**	Control panel for two-leaf swing gates with built-in radio decoder.	**1**
001**AF43S**	Plug-in radio frequency card.	**1**
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	**1**
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	**1**
001**TOP-A433N**	Antenna.	**1**
001**TOP-RG58**	Antenna cable.	**m 5**
001**KIARO24N**	Flashing light.	**1**
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	**1**
	Gate plate.	**1**





Complete sets

CAME

001U1481 Krono basic

Complete system kit with 230 V AC operator for swing gates of up to 3 m / 10 ft per gate-leaf

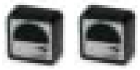
Code	Description	Quantity	
001**KR310D**	Right-hand self-locking operator for gate-leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	1	
001**KR310S**	Left-hand self-locking operator for gate-leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	1	
002**ZA3N**	Multifunction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

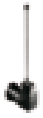
Complete sets

001U1482 Krono plus

Complete system kit with 230 V AC operator for swing gates of up to 3 m / 10 ft per gate-leaf

Code	Description	Quantity
001**KR310D**	Right-hand self-locking operator for gate-leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	**1**
001**KR310S**	Left-hand self-locking operator for gate-leaves of up to 3 m / 10 ft with built-in gate-leaf stop microswitches.	**1**
002**ZA3N**	Multifunction control panel for two-leaf swing gates with built-in radio decoder.	**1**
001**AF43S**	Plug-in radio frequency card.	**1**
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	**1**
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	**1**
001**TOP-A433N**	Antenna.	**1**
001**TOP-RG58**	Antenna cable.	**m 5**
001**KIARON**	Flashing light.	**1**
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	**1**
	Gate plate.	**1**





Complete sets

CAME

001U1895 Fast basic

Complete system kit with 24 V DC operator for swing gates of up to 2.3 m / 7.5 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

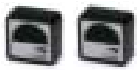
Code	Description	Quantity	
001**F7024N**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.	2	
002**ZL180**	Control panel for two-leaf swing gates with built-in radio decoder.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIAR024N**	Flashing light.	1	
	Gate plate.	1	

Complete sets

CAME

001U1888 Fast plus

Complete system kit with 24 V DC operator for swing gates of up to 2.3 m / 7.5 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**F7024N**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.	2	
002**ZL180**	Control panel for two-leaf swing gates with built-in radio decoder.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**TOP-A433N**	Antenna.	1	
001**TOP-RG58**	Antenna cable.	m 5	
001**KIAR024N**	Flashing light.	1	
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1	
	Gate plate.	1	

Complete sets

001U8600 Flex basic

Complete system kit with 24 V DC operator for swing gates of up to 1.6 m / 5.2 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**F500**	Reversible operator complete with articulated transmission arm for gate-leaves of up to 1.6 m / 5.2 ft.	1
002**ZL160N**	Control panel for one-leaf swing gates with built-in radio decoder and amperometric obstacle detection device.	1
001**S7000**	Surface-mounted keypad. 1,679,616 combinations.	1
001**S0001**	One-channel command card.	1
	Gate plate.	1

Complete sets

001U8722 Flex plus

Complete system kit with 24 V DC operator for swing gates of up to 1.6 m / 5.2 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**F500**	Reversible operator complete with articulated transmission arm for gate-leaves of up to 1.6 m / 5.2 ft.	2
002**ZL150N**	Control panel for two-leaf swing gates with built-in radio decoder.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**KIAR024N**	Flashing light.	1
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Gate plate.	1

Complete sets

CAME

001U1263 Ferni basic

Complete system kit with 24 V DC operator for swing gates of up to 4 m / 13 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**F1024**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.	2	
002**ZL19N**	Control panel for two-leaf swing gates with built-in radio decoder.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 59 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIARO24N**	Flashing light.	1	
	Gate plate.	1	

Complete sets

CAME

001U1264 Ferni plus

Complete system kit with 24 V DC operator for swing gates of up to 4 m / 13 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**F1024**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.	2
002**ZL19N**	Control panel for two-leaf swing gates with built-in radio decoder.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**KIAR024N**	Flashing light.	1
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Gate plate.	1

Complete sets

001U1315 Frog-J basic

Complete system kit with 24 V DC operator for swing gates of up to 1.8 m / 6 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**FROG-J**	Operator with encoder for gate-leaves of up to 1.8 m / 6 ft.	2	
001**FROG-JC**	Foundation casing.	2	
001**A4617**	Release group with customised key.	2	
002**ZL90**	Control panel for two-leaf swing gates with built-in radio decoder.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1	
001**KIAR024N**	Flashing light.	1	
	Gate plate.	1	

Complete sets

001U1332 Frog-J plus

Complete system kit with 24 V DC operator for swing gates of up to 1.8 m / 6 ft per gate-leaf tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**FROG-J**	Operator with encoder for gate-leaves of up to 1.8 m / 6 ft.	2
001**FROG-JC**	Foundation casing.	2
001**A4617**	Release group with customised key.	2
002**ZL90**	Control panel for two-leaf swing gates with built-in radio decoder.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1
001**TOP-432NA**	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**KIARO24N**	Flashing light.	1
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Gate plate.	1

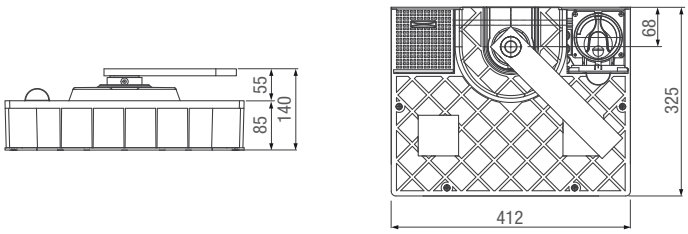
Frog-J

Gate-leaves of up to 1.8 m / 6 ft

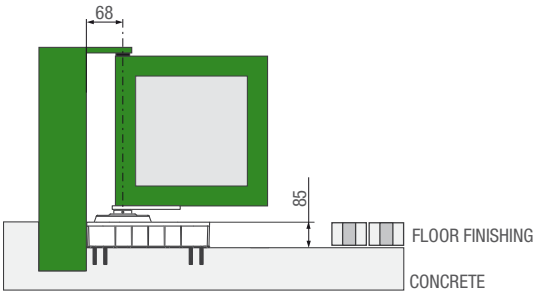
Hide-away solution to apply to residential gates

- Tested according to applicable rules and regulations.
- Release system protected by watertight trap-door that opens with customised key from the inside and outside.
- Encoder-based movement control.
- Can function in emergency mode during blackouts.
- Self-diagnosing safety devices.
- Simplified connection with only one 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
90° opening time (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 complete range

Code	Description	
	24 V DC underground operator and control panels - tested in compliance with EN 12453 - EN 12445	
001**FROG-J**	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 signalling display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZL92**	Control panel for two-leaf swing gates with function display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.	
	Accessories for: 002ZL92 and 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**FROG-JC**	Foundation casing.	
001**A4617**	Release group with customised key.	

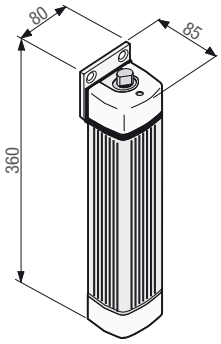
Flex

Gate leaves up to 1.6 m / 5.2 ft

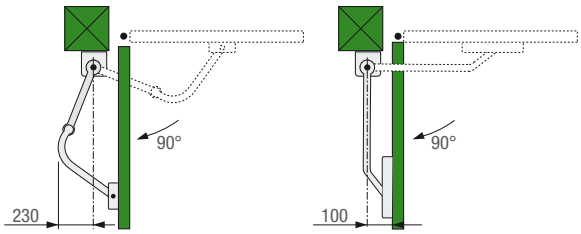
The ideal solution to apply to either pedestrian or vehicle gates

- For installing on gates with minimal-width gate posts (starting from 8 cm / 3.14 in) even up against a wall or fence, thanks to the straight-arm option.
- Electronic device for obstacle amperometric detection.
- The 001F500 model is tested according to current legislative parameters.
- Can function in emergency mode during blackouts.
- It is ideal for automating pedestrian gates.

Dimensions (mm)



Application (mm)



F500 F510

Limits to use

MODEL	F500 - F510		
Max gate-leaf width (m/ft)	1.6/5.2	1.2/3.9	0.8 / 2.6
Max gate-leaf weight (Kg/lb)	100/220	125/275	150/330

● 24 V DC

Technical features

Type	F500	F510
Protection rating IP	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC
Current draw (A)	2 MAX	2 MAX
Power (W)	48	48
90° opening time (s)	13	9
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE
Torque (Nm)	100	100
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	-	-

● 24 V DC

The complete range

Code	Description
	24 V DC external operators and control panel - tested in compliance with EN 12453 - EN 12445
001**F500**	Reversible operator with articulated transmission arm for gate-leaves of up to 1.6 m / 5.2 ft.
001**F510**	Reversible operator with straight transmission arm and slide guide for gate-leaves of up to 1.6 m / 5.2 ft.
002**ZL160N**	Control panel for one-leaf swing gates with built-in radio decoder and amperometric obstacle detection device.
	Control panel for 24 V DC operators
002**ZL150N**	Control panel for two-leaf swing gates with built-in radio decoder.
	Accessories for: 002ZL160N and 002ZL150N
002**LB54**	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.

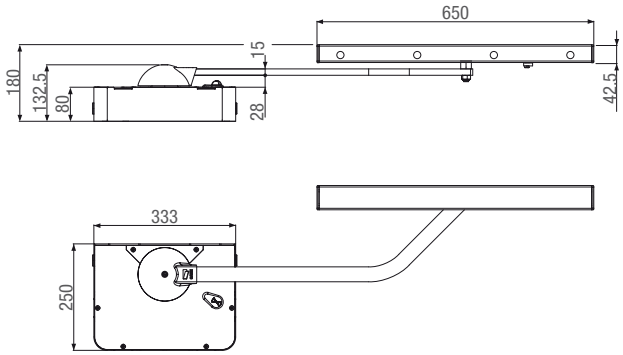
Myto

Gate-leaves of up to 1.8 m / 6 ft

Hide-away or surface-mounted solution for residential gates

- Tested according to applicable rules and regulations.
- Release system with lever key protected by sliding trap door.
- Encoder-based movement control.
- Can function in emergency mode during blackouts.
- Self-diagnosing safety devices.
- Simplified connection with only one three-conductor cable.
- Installs below as well as at ground-level.

Dimensions (mm)

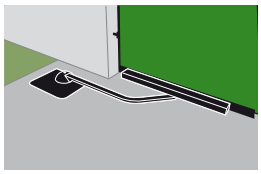


Limits to use

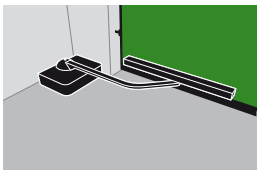
MODEL	MYTO-ME
Max gate-leaf width (m/ft)	1.8 / 6
Max gate-leaf weight (Kg/lb)	200/440
Max gate-leaf opening (°)	125

● 24 V DC

Application



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)

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
90° opening time (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 complete range

CAME

Code	Description	
	24 V DC operator and control panels - tested in compliance with EN 12453 - EN 12445	
001**MYTO-ME**	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 signalling display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZL92**	Control panel for two-leaf swing gates with function display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.	
	Accessories for: 002ZL92 and 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**MYTO-C**	Foundation casing for external fixing or for underground installation.	
001**MYTO-BD**	Transmission arm and slide guide.	

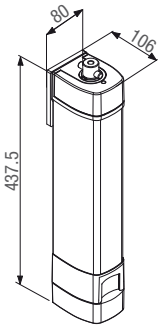
Stylo

Gate-leaves of up to 1.8 m / 6 ft

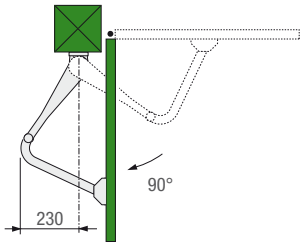
The ideal solution to apply to small-sized gate posts

- Gate-leaves of up to 1.8 m / 6 ft.
- Encoder-based movement control.
- Tested according to applicable rules and regulations.
- For installing on gates with minimal-width gate posts (starting from 8 cm / 3.14 in) even up against a wall or fence, thanks to the straight-arm option.
- Can function in emergency mode during blackouts.
- Sturdy and reliable, despite its reduced size, thanks to the system's irreversibility.
- The release system comes with a customised key.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	STYLO-ME		
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
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
90° opening time (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 complete range

Code	Description
	24 V DC external operators and control panels - tested in compliance with EN 12453 - EN 12445
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 function display, self-diagnosis of safety devices and built-in 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.

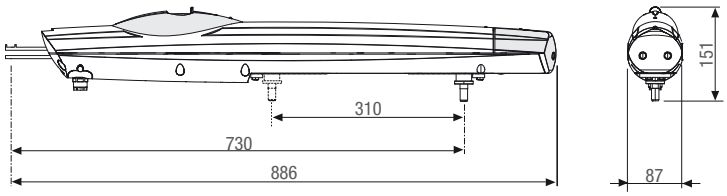
Amico

Gate-leaves of up to 2.2 m / 7.2 ft

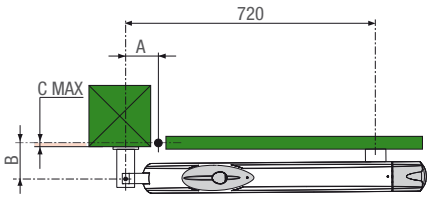
The ideal solution to apply to gates in residential settings

- Exclusive, distinguished style.
- Release system with triangular key.
- Adjustable mechanical stops to memorise the gate-run.
- Simplified connection with only one three-conductor cable.
- Supporting aluminium half-casings.
- Worm screw is always protected thanks to its dedicated cover.
- Can function in emergency mode during blackouts.
- Self-diagnosing safety devices.
- Tested according to applicable 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)	200/440	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)	200/440	225/496	250/550

● 230 V AC ● 24 V DC

Application dimensions

GATE-LEAF OPENING ARC (°)	A	B	C MAX
MODEL		A1824 - A18230	
90°	130	130	60
120°	130	110	50

Dimensions (mm / in) ● 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
90° opening time (s)	ADJUSTABLE	19
Duty cycle (%)	INTENSIVE USE	50
Thrust (N)	400 ÷ 2000	400 ÷ 2000
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	-	150/302

● 230 V AC ● 24 V DC

The complete 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 panels for 230 V AC operators	
002**ZA3N**	Multifunction control panel for two-leaf swing gates with built-in radio decoder.	
	24 V DC external operator and control panels - tested in compliance with EN 12453 - EN 12445	
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 signalling display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZL92**	Control panel for two-leaf swing gates with function display, self-diagnosis of safety devices and built-in radio decoder.	
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.	
	Accessories for: 002ZLJ14 and 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.	

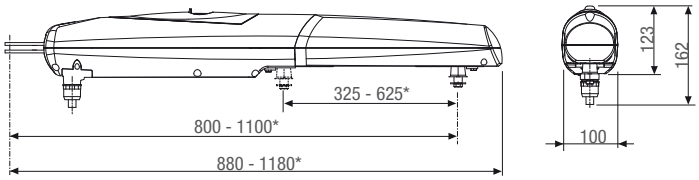
Axo

Gate-leaves of up to 7 m / 23 ft

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

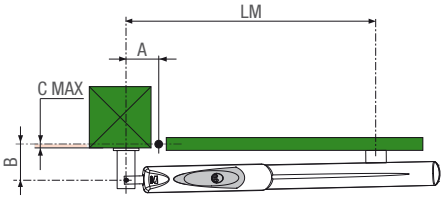
- Tested according to applicable rules and regulations.
- The 24 V version can function in emergency mode during blackouts.
- Available both in the reversible and self-locking versions.
- Worm screw is always protected thanks to its dedicated cover.
- The 24 V version comes with a simplified connection system featuring a single, three-conductor cable that handles both motor and encoder.
- Encoder-based technology to manage decelerations.
- Adjustable mechanical stops to memorise the gate-run.
- Supporting aluminium half-casings.
- Even for gates with leaves of up to 7 m / 23 ft.

Dimensions (mm)



* AX5024 - AX71230

Application



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	2.5/8.2	2/6.6
Max gate-leaf weight (Kg/lb)	300/660	350/772	400/880	500/1,100	700/1,543	800/1,770	1000/2,200

● 230 V AC ● 24 V DC

NOTE:
*** It is mandatory the use of an electric lock on the gate-leaf.**
° ° Gate-leaves larger than 5 m / 16 ft cannot be panelled.
Attention must be paid when there is strong wind with the reversible versions if the gate is open as it could slam shut.

Application dimensions (mm)

GATE-LEAF OPENING ARC (°)	A	B	C MAX	LM
MODEL		AX302304 - AX312304 - AX3024		
90°	130	130	70	800
120°	140	100	50	800
MODEL		AX402306 - AX412306		
90°	130	130	70	800
120°	140	100	50	800
MODEL		AX5024		
90°	200	220	150	1100
120°	220	220	100	1100
MODEL		AX71230		
90°	200	220	150	1100
120°	220	220	100	1100

● 230 V AC ● 24 V DC

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
90° opening time (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	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	-	-	150/302

● 230 V AC ● 24 V DC

The complete range

Code	Description
	230 V AC external operators and control panel - tested in compliance with EN 12453 - EN 12445
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 featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	24 V DC external operators and control panels - tested in compliance with EN 12453 - EN 12445
001**AX3024**	Self-locking operator with encoder for gate-leaves of up to 3 m / 10 ft (opening time 90°: adjustable).
001**AX5024**	Self-locking operator with encoder for gate-leaves of up to 5 m / 16 ft (opening time 90°: adjustable).
002**ZLJ14**	Multifunction control panel for one-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in 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.









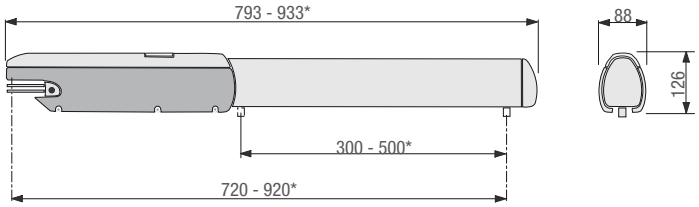

Ati

Gate-leaves of up to 5 m / 16 ft

The ideal solution to apply to gates in residential and apartment block settings

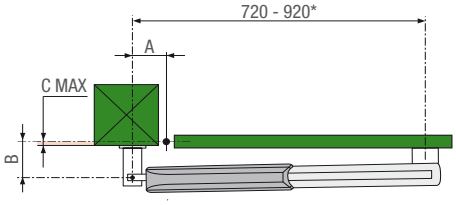
- The 24 V version can function in emergency mode during blackouts.
- Available both in the reversible and self-locking versions.
- Amperometric obstacle detection.
- Worm screw is always protected thanks to its dedicated cover.
- The 24 V version comes with a simplified connection system featuring a single, three-conductor cable that handles 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)

GATE-LEAF OPENING ARC (°)	A	B	C MAX
MODEL	A3000 - A3000A - A3100 - A3100A - A3106 - A3006 - A3024N		
90°	130	130	60
120°	130	110	50
MODEL	A5000 - A5000A - A5100 - A5100A - A5106 - A5006 - A5024N		
90°	200	200	120
120°	200	140	70

● 230 V AC ● 24 V DC

Technical features

Type	A3000 - A300A - A3100 - A3100A - A5000 - A500A - A5100 - A5100A	A3006 - A3106 - A5006 - A5106	A3024N - A5024N
Protection rating IP	IP44	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	24 DC
Current draw (A)	1.2	1.2	10 MAX
Power (W)	150	150	120
90° opening time (s)	19 ÷ 32	28 ÷ 45	ADJUSTABLE
Duty cycle (%)	50	50	INTENSIVE USE
Thrust (N)	400 ÷ 3000	400 ÷ 3000	400 ÷ 3000
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	-

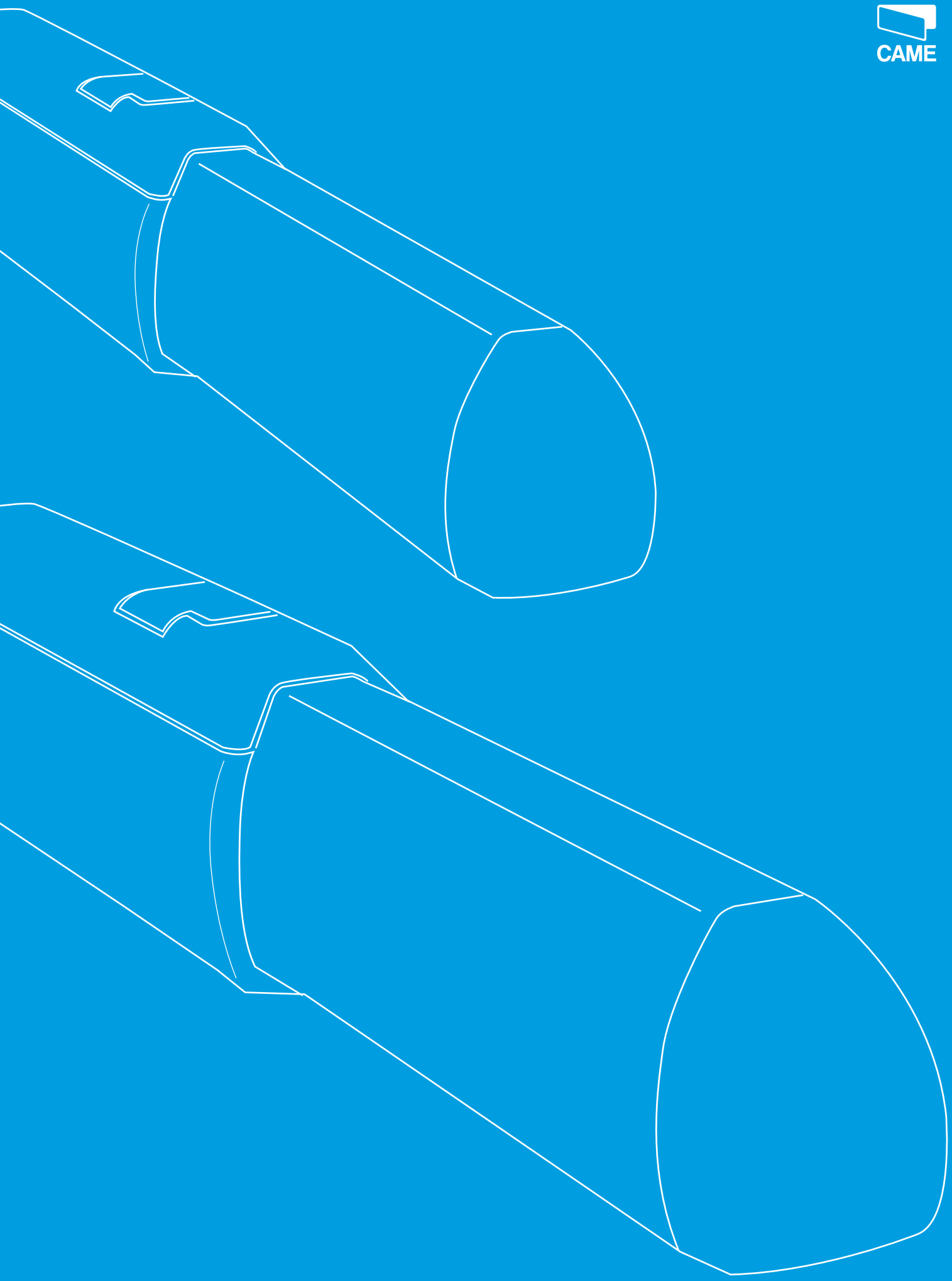
● 230 V AC ● 24 V DC

The complete 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 with built-in endstops for gate-leaves of up to 3 m / 10 ft (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 with built-in endstops for gate-leaves of up to 3 m / 10 ft (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 / 10 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 with built-in endstops for gate-leaves of up to 5 m / 16 ft (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 with built-in endstops for gate-leaves of up to 5 m / 16 ft (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 built-in radio decoder.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.

The complete range

Code	Description	
	24 V DC external operators and control panel - tested in compliance with EN 12453 - EN 12445	
001**A3024N**	Self-locking operator for gate-leaves of up to 3 m / 10 ft (opening time 90°: adjustable).	
001**A5024N**	Self-locking operator for gate leaves of up to 5 m / 16 ft (opening time 90°: adjustable).	
002**ZL180**	Control panel for two-leaf swing gates with built-in 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 handle and command button for pull-cord release L = 5 m / 16.40 ft.	



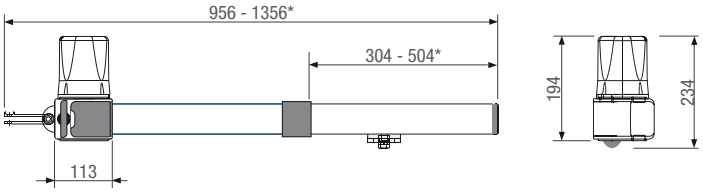
Krono

Gate-leaves of up to 5 m / 16 ft

The ideal solution to apply to stylish gates

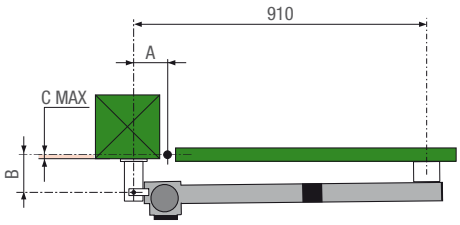
- Special stem-shaped aluminium structure.
- The opening and closing endpoint microswitches provide exact setting of the gate-leaf stop positions.
- A staple of Came tradition.

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	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

Application dimensions (mm)

GATE-LEAF OPENING ARC (°)	A	B	C MAX
MODEL	KR300D - KR300S - KR302D - KR302S - KR310D - KR310S		
90°	130	130	60
120°	130	110	50
MODEL	KR510D - KR510S		
90°	200	200	120
120°	200	140	70

● 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
Current draw (A)	1.1	1.1	1.1
Power (W)	130	130	130
90° opening time (s)	22	18	34
Duty cycle (%)	30	30	30
Thrust (N)	400 ÷ 3000	400 ÷ 3000	400 ÷ 3000
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	150/302

● 230 V AC

The complete 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 built-in radio decoder.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	Accessories
001**KR001**	Lock cylinder with DIN key.

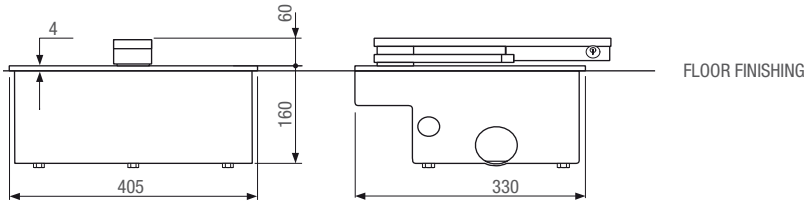
Frog

Gate-leaves of up to 3.5 m / 11.5 ft

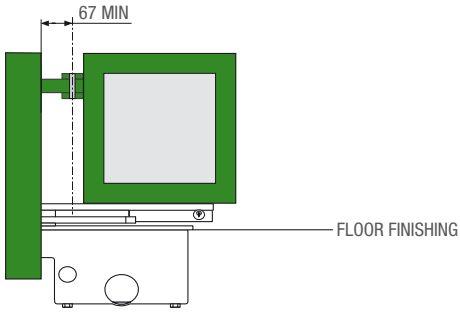
The hide-away solution to apply to gates in residential and apartment block settings

- The out-of-sight solution for gate automation.
- High-grade of protection from environmental agents (IP67).
- The system automatically locks back after gate is manually released.
- Can open as wide as 180° (with 001FL-180).
- 001FROG-AE and 001FROG-A24E featuring encoder-based technology, tested according to current legislative standards.
- The 24 V version can function in emergency mode during blackouts.
- Special corrosion resistant all-steel foundation box.
- Built-in adjustable mechanical stops.

Dimensions (mm)



Application (mm)



NOTE:
* We suggest the use of an electric lock on the gate-leaf.
Max gate-leaf opening (110°).

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

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
Current draw (A)	1.9	2.5	1.9	15 MAX
Power (W)	200	300	200	180
90° opening time (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	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	150/302	-

● 230 V AC ● 24 V DC

The complete range

Code	Description
	230 V AC underground operators
001**FROG-A**	Self-locking operator for gate-leaves of up to 3.5 m / 11.5 ft.
001**FROG-AV**	Self-locking operator for gate-leaves of up to 1.3 m / 4.2 ft.
	Control panels for 230 V AC operators
002**ZA3N**	Multifunction control panel for two-leaf swing gates with built-in radio decoder.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	230 V AC underground operator and control panel - tested in compliance with EN 12453 - EN 12445
001**FROG-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 featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	24 V DC underground operator and control panels - tested in compliance with EN 12453 - EN 12445
001**FROG-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 built-in radio decoder.
002**ZL19N**	Control panel for two-leaf swing gates with built-in radio decoder.
	24 V DC underground operator and control panels - tested in compliance with EN 12453 - EN 12445
001**FROG-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 signalling display, self-diagnosis of safety devices and built-in radio decoder.
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.











The complete range

Code	Description
	Accessories for: 002ZL170N and 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-A - 001FROG-AV - 001FROG-AE - 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-BN**	Steel foundation casing with corrosion-resistant cataphoresis surface treatment, complete with transmission lever with adjustable leaf-opening stop.
001**FROG-BI**	AISI 304 steel foundation casing, complete with transmission lever with adjustable leaf-opening stop.
001**A4364**	Lever key release.
001**A4365**	Triangular key release.
001**A4366**	Customised 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.



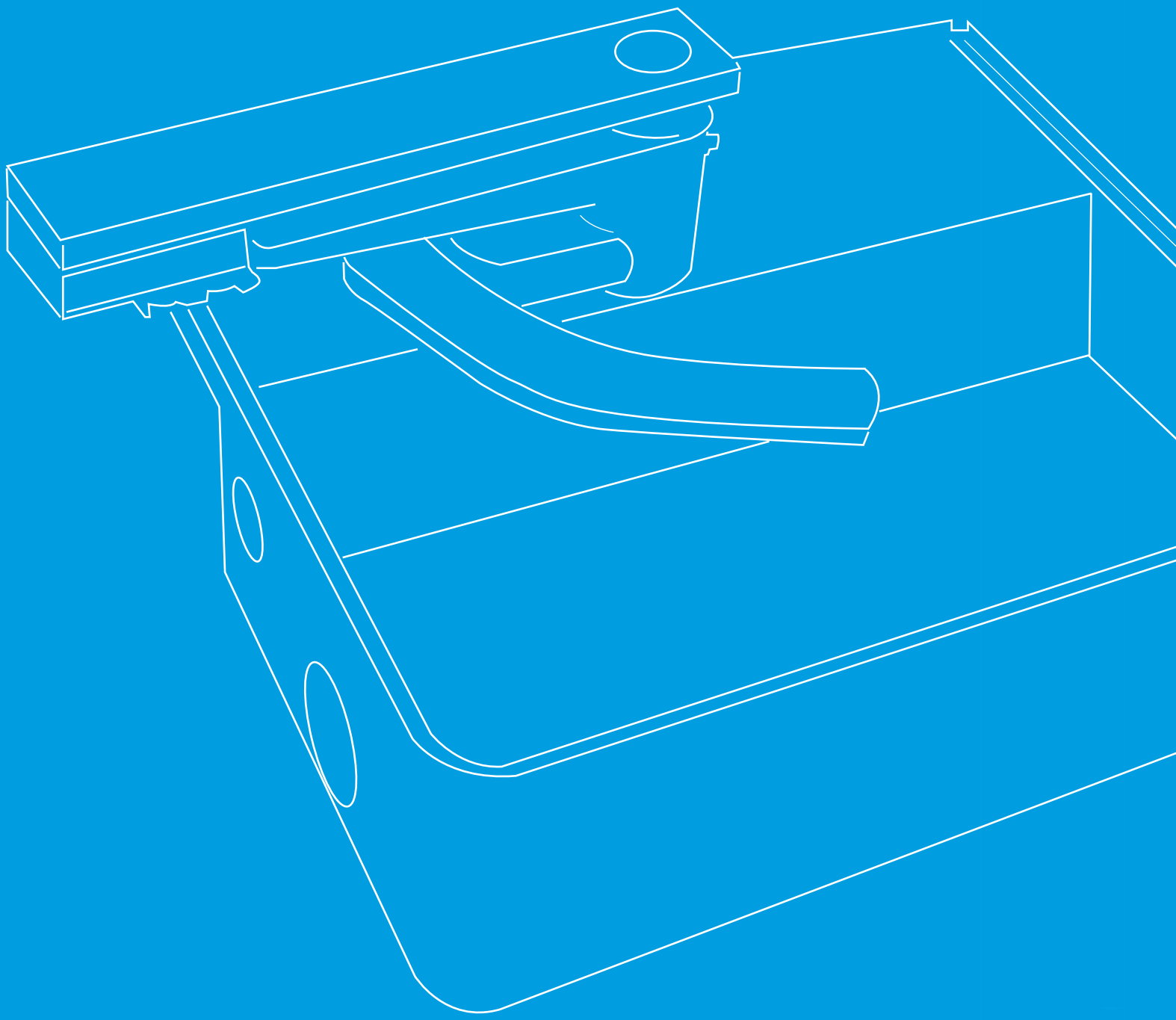








CAME



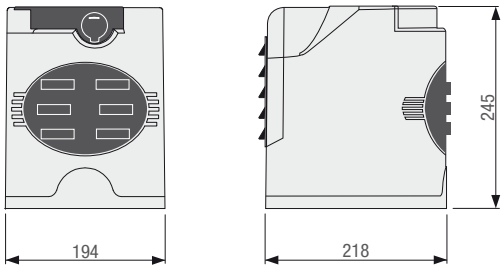
Fast

Gate-leaves of up to 2.3 m / 7.5 ft

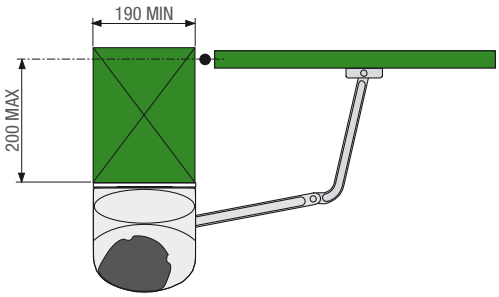
Ideal solution for residential or apartment-block applications on medium to large posts

- Installed quickly and easily, even on medium and large gate posts.
- Handy release lever for manually opening the gate.
- The 001F7024N model features a simplified connection system with a single cable containing three conductors to handle both the motor and the encoder.
- The 24 V version can function in emergency mode during blackouts.

Dimensions (mm)



Application (mm)



Limits to use

MODEL	F7000 - F7001 - F7001E - F7024N - F7024E			
Max gate-leaf width (m/ft)	2.3/7.5	2/6.5	1.5/5	1/3.3
Max gate-leaf weight (Kg/lb)	200/440	215/475	250/550	300/660

● 230 V AC ● 24 V DC

Technical features

Type	F7000 - F7001 - F7001E	F7024N - F7024E
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
90° opening time (s)	18	ADJUSTABLE
Duty cycle (%)	30	INTENSIVE USE
Torque (Nm)	180	180
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-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 external automation system
001**F7000**	Self-locking automation complete with articulated transmission arm and built-in control panel.
	230 V AC external operator
001**F7001**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.
	Control panels for 230 V AC operators
002**ZA3N**	Multifunction control panel for two-leaf swing gates with built-in radio decoder.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	230 V AC external operator and control panel - tested in compliance with EN 12453 - EN 12445
001**F7001E**	Self-locking operator with encoder complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	24 V DC external operator and control panel - tested in compliance with EN 12453 - EN 12445
001**F7024N**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.
002**ZL180**	Control panel for two-leaf swing gates with built-in radio decoder.
	24 V DC external operator and control panels - tested in compliance with EN 12453 - EN 12445
001**F7024E**	Self-locking operator with encoder complete with articulated transmission arm for gate-leaves of up to 2.3 m / 7.5 ft.
002**ZLJ14**	Multifunction control panel for one-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	Accessories for: 002ZLJ14
002**LB90**	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	Accessories for: 002ZL180 and 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.
001**F7002**	Straight transmission arm and slide guide.
001**H3000**	Safety casing complete with release handle and command button for pull-cord release L = 5 m / 16.40 ft.

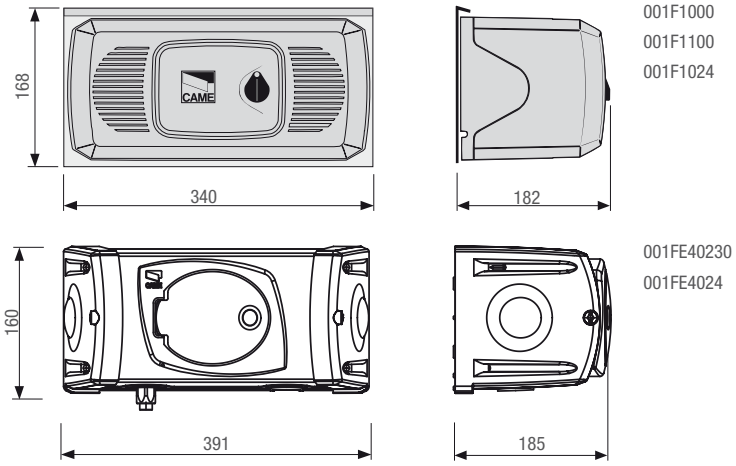
Ferni

Gate-leaves of up to 4 m / 13 ft

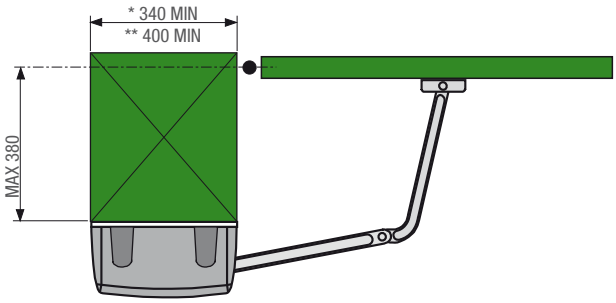
Ideal solution for residential or apartment-block applications on large posts

- An EN tested product both in the 24 V DC and the 230 V AC version thanks to the encoder-based electronics management (001F1024 - 001FE4024 - 001FE40230).
- The tough automation for very large gate posts.
- Innovative design for a prestigious product, born out of careful attention to market needs.
- Supplied with an articulated-arm, but also available with straight arm, to solve any space issues during application.
- Extremely practical to install and connect thanks to its versatile, easy-to-reach endstop assembly.
- Features a practical key-protected trap-door for easy release.
- High standards of protection from environmental agents.

Dimensions (mm)



Application (mm)



* F1000 - F1100 - F1024
** FE40230 - FE4024

Limits to use

MODEL	F1000 - F1100 - FE40230 - F1024 - FE4024				
Max gate-leaf width (m/ft)	4*/13*	3,5*/11.48*	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:
*** It is mandatory the use of an electric lock on the gate-leaf, with width greater than 2,5 m / 8.2 ft.**

Technical features

Type	F1000	F1100	FE40230	F1024	FE4024
Protection rating IP	IP54	IP54	IP44	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	230 AC	24 DC	24 DC
Current draw (A)	1.3	1	1.2	15 MAX	5
Power (W)	150	110	140	180	130
90° opening time (s)	18	18	34	ADJUSTABLE	ADJUSTABLE
Duty cycle (%)	30	50	30	INTENSIVE USE	INTENSIVE USE
Torque (Nm)	320	380	540	470	360
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	150/302	-	-

● 230 V AC ● 24 V DC

The complete range

Code	Description
	230 V AC external operator and control panel - tested in compliance with EN 12453 - EN 12445
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 featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.
	230 V AC external operators
001**F1000**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.
001**F1100**	Reversible operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.
	Control panels for 230 V AC operators
002**ZA3N**	Multifunction control panel for two-leaf swing gates with built-in radio decoder.
002**ZM3E**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.





The complete range

CAME

Code	Description
	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 signalling display, self-diagnosis of safety devices and built-in radio decoder.
002**ZLJ24**	Multifunction control panel for two-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in 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.
	24 V DC external operator and control panels - tested in compliance with EN 12453 - EN 12445
001**F1024**	Self-locking operator complete with articulated transmission arm for gate-leaves of up to 4 m / 13 ft.
002**ZL170N**	Control panel for one-leaf swing gates with built-in radio decoder.
002**ZL19N**	Control panel for two-leaf swing gates with built-in radio decoder.
	Accessories for: 002ZL170N and 002ZL19N
002**LB18**	Casing with emergency card, fitted to house n. 3 12 V - 7 Ah batteries.
	Accessories for: 001FE40230 - 001FE4024
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 for: 001F1000 - 001F1100 - 001F1024
001**F1001**	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 handle and command button for pull-cord release L = 5 m / 16 ft.









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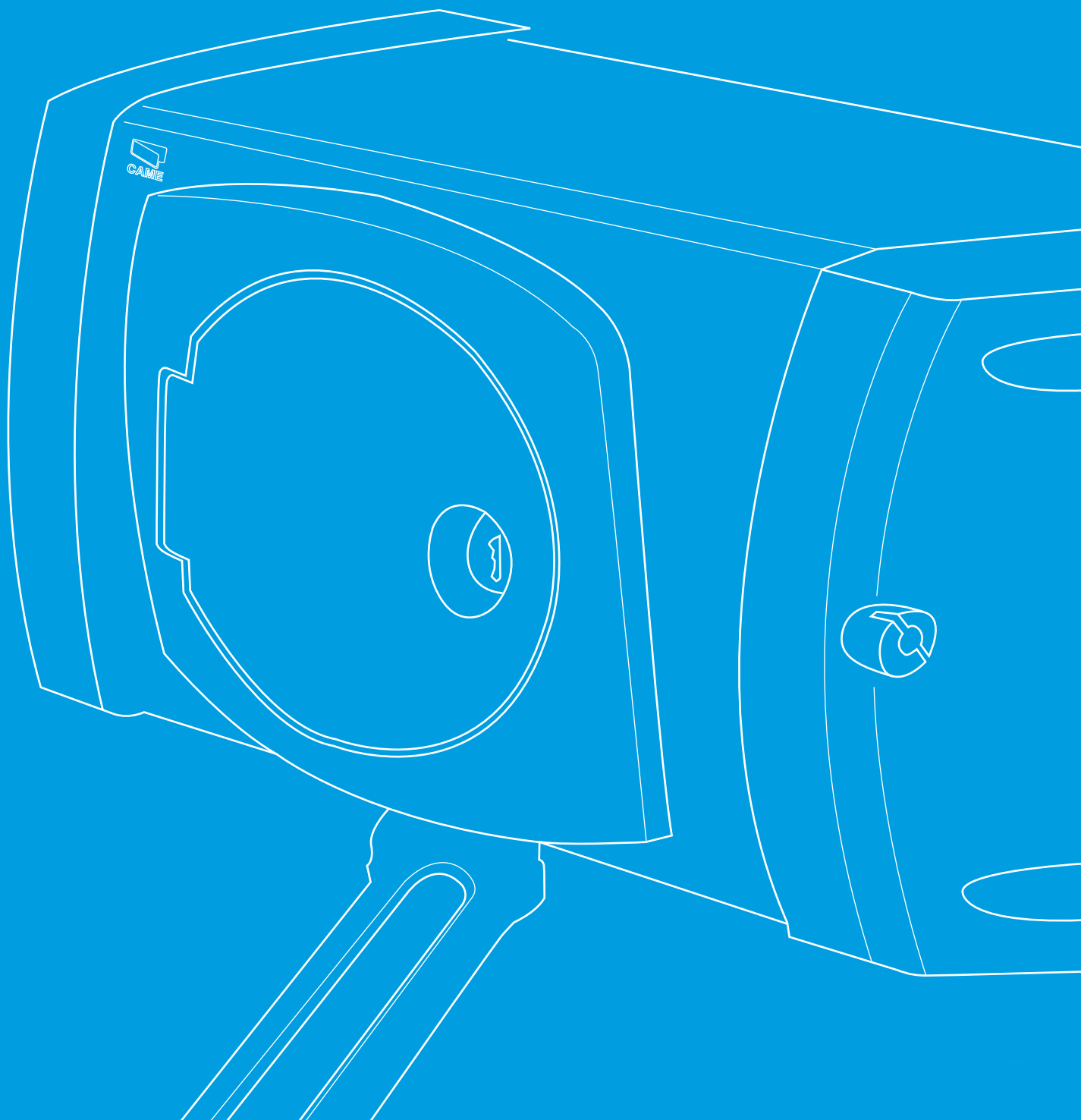


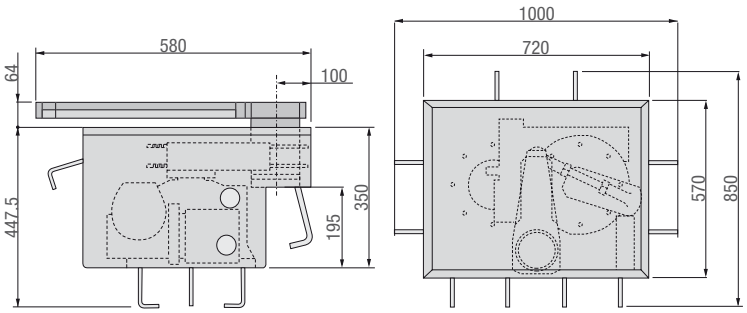
Super Frog

Gate-leaves of up to 8 m / 26 ft

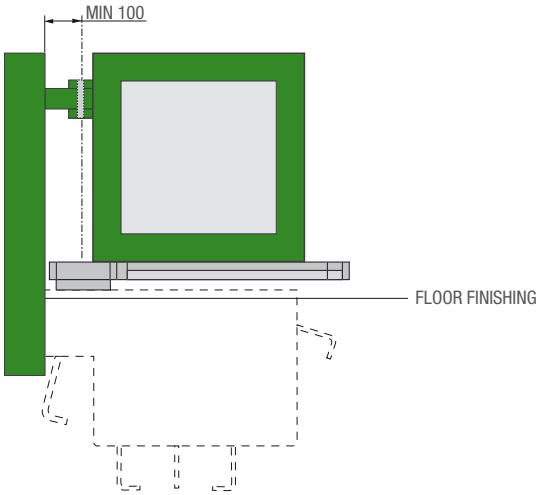
The hide-away solution for those special or exceptional applications

- For automating exceptionally large gates.
- High-rate of protection from environmental agents (IP67).
- Built-in closing and opening endstops provide quick and easy setting of gate-leaf stop positions.
- Powered by 3-phase voltage for enhanced 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 3-PHASE

Technical features

Type	FROG-MD - FROG-MS
Protection rating IP	IP67
Power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
Motor power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
Current draw (A)	2.5 MAX
Power (W)	600
95° opening time (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 3-PHASE

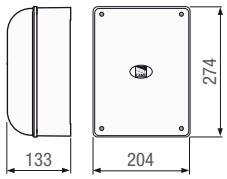
The complete range

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 3-phase control panel
002**ZM3ES**	Multifunction control panel with signalling display, self-diagnosis of safety devices and built-in radio decoder.
	Foundation casings
001**FROG-CD**	Foundation casing for right-hand operator.
001**FROG-CS**	Foundation casing for left-hand operator.

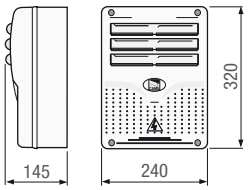
Electronic functions

The table shows all of the control panels features dedicated to swing-gate operators. Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)



002ZL160N
002ZL150N
002ZA3N
002ZL170N



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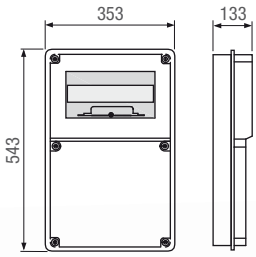
002ZLJ14
002ZLJ24
002ZM3E
002ZL19N
002ZL180
002LB18



002ZM3ES

CAME

The models

Series	Ati Krono Frog Fast Ferni	Ati Krono Frog Fast Ferni	Super Frog	Amico Frog-J	Amico Myto Axo Frog-J Frog Fast	Amico Myto Axo Frog-J Frog Fast	Flex	Flex	Frog Ferni	Frog Ferni	Ati Fast
Type	ZA3N	ZM3E	ZM3ES	ZL92	ZLJ24	ZLJ14	ZL150N	ZL160N	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 ADJUSTMENTS											
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 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

NOTE:
*** 002ZM3E slow-down speed only.**

Automation for:
OVERHEAD AND SECTIONAL GARAGE DOORS

Index

CAME

Your selection guide

Overhead and sectional garage door opeators

The tables summarise both the series and models, along with the maximum limits of use, based on the door leaf surface area or the traction force.

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

● 230 V AC - ● 24 V DC INTENSIVE USE

		Maximum traction force (N)
Ver	V900E	500
	V700E	850

● 24 V DC INTENSIVE USE

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

Overhead and sectional 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

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

European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
INFRARED-BEAM PHOTOCELLS AND FLASHING LIGHT
Came automation systems for garage doors are fitted for the connection of any type of infrared-beam photocells. A top-level safety for the user.
Came suggests the installation of the flashing light to indicate the presence of moving mechanical parts.
Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their “manoeuvre counter” function.

EN TESTED:
CAME’s added value

When you use EN-TESTED operators and control panels you need not install any sensitive safety edges. In this case, however, the impact forces need to be measured for compliance against the parameters established in the regulations.

This product is tested for compliance with maximum impact force standards established by EN 12445 and EN 12453 Technical Regulations.

CAME

Mounting the operator onto the door

The products

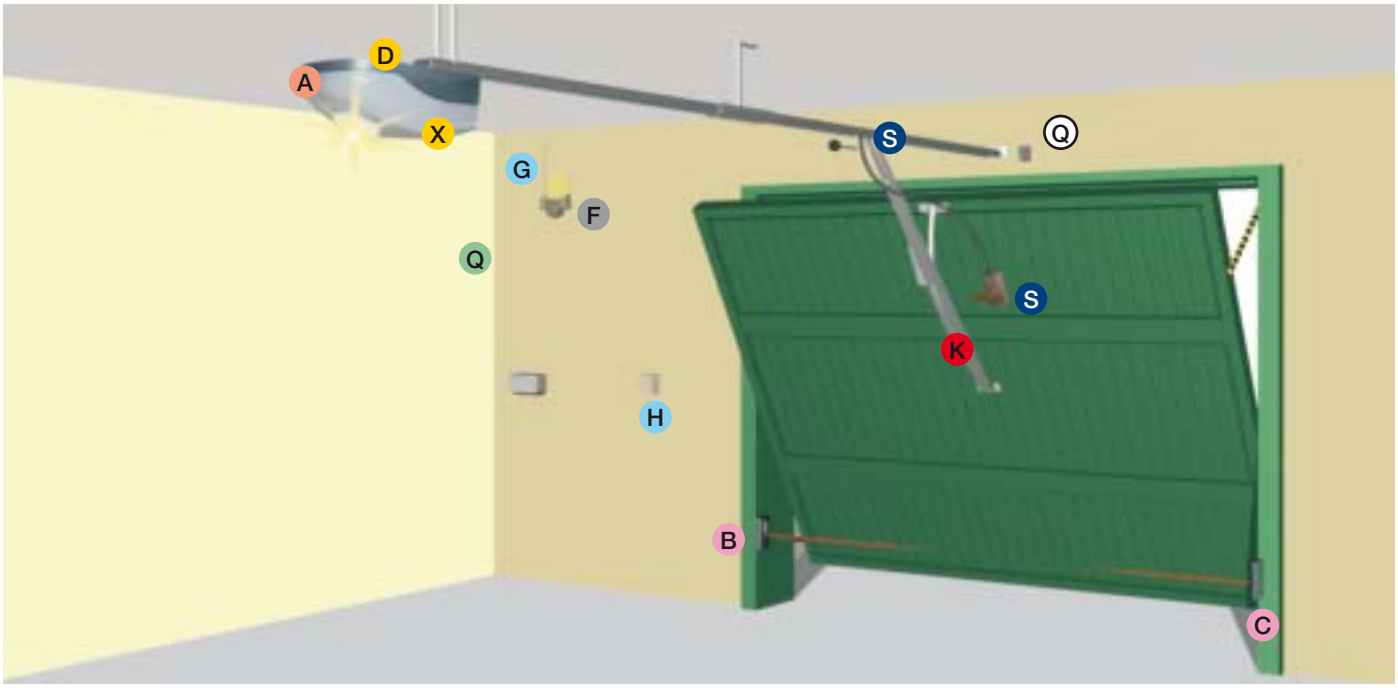
- A Operator for overhead garage doors
- B TX photocells
- C RX photocells
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- L Control panel
- Q Junction box
- R Transmission levers
- S Pull-cord release device
- X Radio receiver
- Y Square transmission tube

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
24 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

Mounting the operator onto the ceiling



The products

- A Operator for overhead and sectional garage doors
- B TX photocells
- C RX photocells
- D Control and battery charging card
- E Safety sensitive edges
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- K Adapter arm
- Q Junction box
- S Pull-cord release device
- X Radio receiver

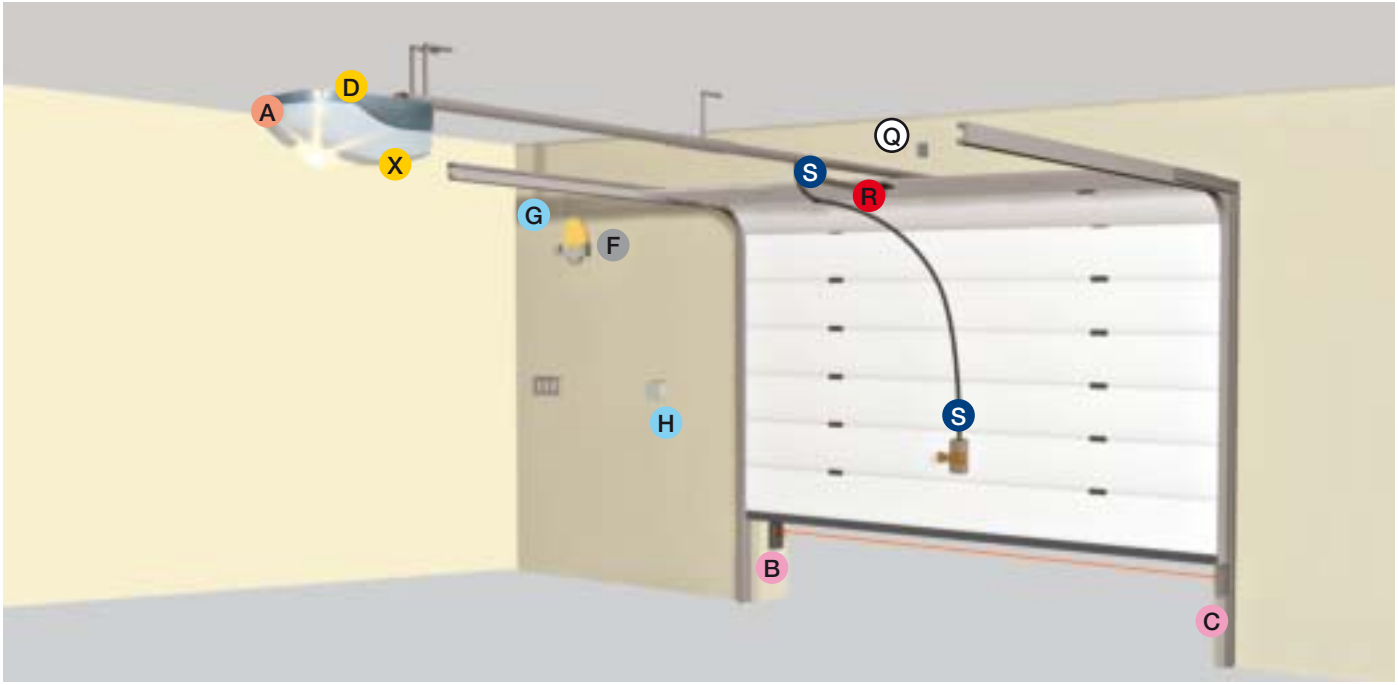
Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
24 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

CAME

Mounting the operator onto the ceiling



The products

- A Operator for overhead and sectional garage doors
- B TX photocells
- C RX photocells
- D Control and battery charging 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

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
24 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

Complete sets

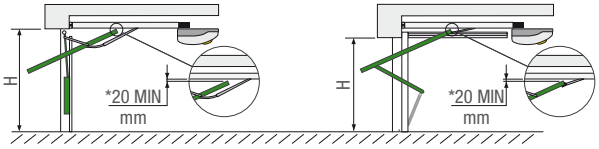
CAME

001U4483 Ver basic

Complete system kit with 24 V DC operator for sectional and overhead garage doors - tested in compliance with EN 12453 - EN 12445

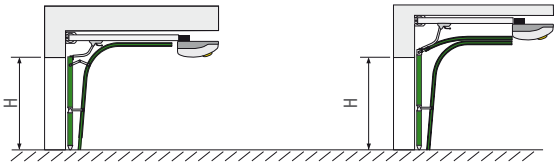
Code	Description	Quantity
001**V900E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 500 N).	1
001**V0679**	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001**KIAR024N**	Flashing light.	1
	Door plate.	1

Application (mm)



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

BM -Fully retracting, protruding 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
* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets

CAME

001U4484 Ver plus

Complete system kit with 24 V DC operator for sectional and overhead garage doors - tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**V900E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 500 N).	1
001**V0679**	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
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59.05 ft.	1
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001**KIAR024N**	Flashing light.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Door plate.	1

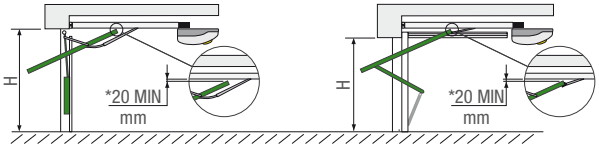






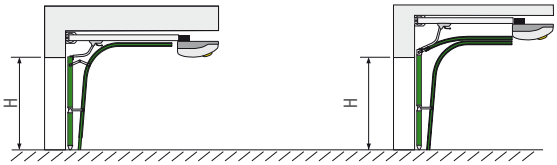



Application (mm)



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

BM -Fully retracting, protruding 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
* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets

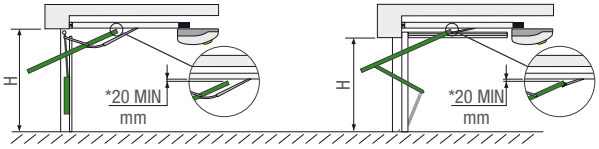
CAME

001U4510 Ver basic

Complete system kit with 24 V DC operator for sectional and overhead garage doors - tested in compliance with EN 12453 - EN 12445

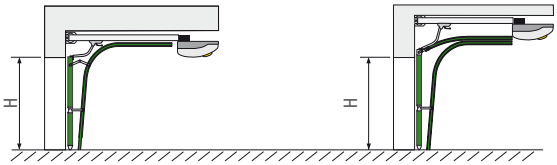
Code	Description	Quantity
001**V700E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 850 N).	1
001**V0679**	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001**KIAR024N**	Flashing light.	1
	Door plate.	1

Application (mm)



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

BM -Fully retracting, protruding 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
* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets

CAME

001U4511 Ver plus

Complete system kit with 24 V DC operator for sectional and overhead garage doors - tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**V700E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 850 N).	1
001**V0679**	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
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001**KIAR024N**	Flashing light.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Door plate.	1

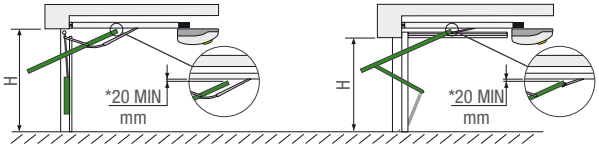






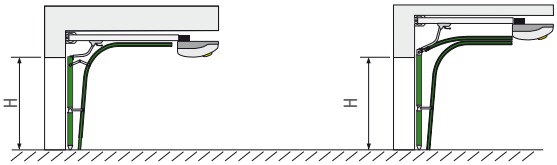



Application (mm)



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

BM -Fully retracting, protruding 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
* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets

CAME

001U5074 Emega basic

Complete system kit with 24 V DC operator for spring-loaded or counterweighted overhead garage doors - tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity	
001**E1024**	Self-locking operator for doors of up to 14 m^2 / 150 ft^2.	1	
002**ZL170N**	Control panel for overhead garage doors with one operator and with built-in radio decoder.	1	
001**E781A**	Accessories to assemble the lateral transmission.	2	
001**E785A**	Pair of straight telescopic arms with 40 x 10 mm / 1.57 x 0.39 in rectangular shaft.	1	
001**AF43S**	Plug-in radio frequency card.	1	
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.	1	
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1	
001**KIAR024N**	Flashing light.	1	
	Door plate.	1	

Complete sets

CAME

001U5075 Emega plus

Complete system kit with 24 V DC operator for spring-loaded or counterweighted overhead garage doors - tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001**E1024**	Self-locking operator for doors of up to 14 m^2 / 150 ft^2.	1
002**ZL170N**	Control panel for overhead garage doors with one operator and with built-in radio decoder.	1
001**E781A**	Accessories to assemble the lateral transmission.	2
001**E785A**	Pair of straight telescopic arms with 40 x 10 mm / 1.57 x 0.39 in rectangular shaft.	1
001**AF43S**	Plug-in radio frequency card.	1
001**DOC-E**	Pair of photocells. Range: 18 m / 59 ft.	1
001**TAM-432SA**	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001**KIAR024N**	Flashing light.	1
001**TOP-A433N**	Antenna.	1
001**TOP-RG58**	Antenna cable.	m 5
001**SET-J**	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Door plate.	1

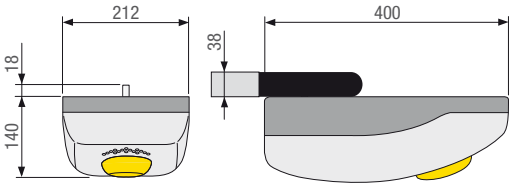
Ver

Max traction force 850 N

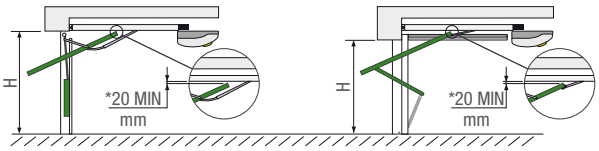
Ideal solution for sectional and overhead garage-doors for residential settings

- The operator is anchored directly onto the transmission guide-rail.
- Guaranteed safe and reliable 24 V DC systems.
- A vast range of control and safety accessories to complete the operator.
- Silent and reliable belt and chain slide rails plus outer pull-chord release that can be fitted onto a door's handle-lock system.
- Tested according to applicable rules and regulations.
- Can function in emergency mode during blackouts.

Dimensions (mm)

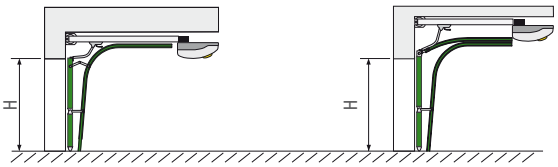


Application (mm)



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

BM -Fully retracting, protruding 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
* While moving the door max dimension in height is equal to around 2/3 of the 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 90° (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	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	-	-

● 24 V DC

The complete range

Code	Description
	Complete automation systems with 24 V DC gearmotor - tested in compliance with EN 12453 - EN 12445
001**V900E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted or spring-loaded doors (Traction force 500 N).
001**V700E**	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted or spring-loaded doors (Traction force 850 N).
	Accessories for: 001V900E - 001V700E
001**V0670**	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	Accessories
001**V121**	Cord release device and release reset L = 3 m / 9.84 ft for application on door handle.
001**V122**	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.
001**V201**	Adapter arm for partially extended counterweighted overhead doors with max door height: 2.4 m / 7.87 ft.
	Chain guides
001**V0679**	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.
001**V0682**	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.
001**V0683**	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.
001**V0684**	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
001**V005**	Chain guide extension for guide types: 001V0679 - 001V0682 - 001V0683 - 001V0684 L = 1.42 m / 4.66 ft.
	Belt guides
001**V0685**	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.
001**V0686**	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.
001**V0688**	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.
001**V0687**	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.







NOTE:
* BC = Counter-weighted - BM = Spring-loaded - STA = Sectional Type A - STB = Sectional Type B

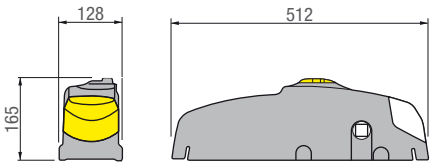
Emega

Door surface up to 14 m² / 150 ft²

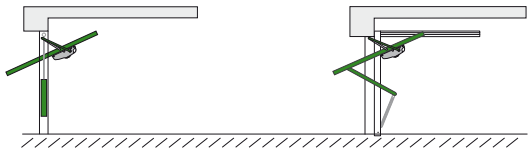
Ideal solution for overhead garage-door with anchoring of the operator on the door surface

- Engineered for medium to large overhead garage doors in intensive use conditions.
- The 001E1024 and 001E306 models are tested for compliance with the applicable rules and regulations.
- The 230 V AC versions feature encoder technology that manages obstacle detection and slow-downs.
- Release lever for manually opening the door during blackouts. Now it can even be pulled from outside thanks to the pull-cord which can be fitted onto the door's handle-lock system.
- The 24 V DC version allows speed adjustments of the open/close runs and limit points as well as electronic detection of any obstacles.
- Control panel 002ZE5 can be fitted on the fixing guide-base 001E001.

Dimensions (mm)

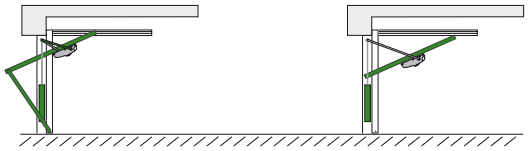


Application



Partially-retracting counter-weighted and / or spring-loaded overhead garage-door.

Fully retracting, protruding spring-balanced overhead garage door.



Fully retracting, protruding spring-balanced overhead garage door.

Fully-retracting, counter weighted overhead garage-door

Limits to use

MODEL	E456	E1024	E306
Door surface (m²/ft²)	14/150	14/150	9/100

● 230 V AC ● 24 V DC

NOTE:
001E782A: necessary when installing n. 2 001E1024 operators.

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 speed 90° (s)	25	ADJUSTABLE	25
Duty cycle (%)	50	INTENSIVE USE	50
Torque (Nm)	420	450	300
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	-	150/302

● 230 V AC ● 24 V DC

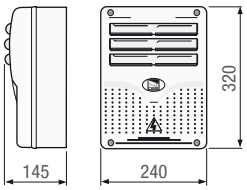
The complete range

Code	Description
	230 V AC operator and control panel - tested in compliance with EN 12453 - EN 12445
001**E306**	Self-locking operator for doors of up to 9 m^2 / 100 ft^2.
002**ZE5**	Control panel with built-in radio decoder and fitted to mount on 001E001 base-guide.
	230 V AC operator and control panel
001**E456**	Self-locking operator for doors of up to 14 m / 150 ft^2.
002**ZE5**	Control panel with built-in radio decoder and fitted to mount on 001E001 base-guide.
	24 V DC operator and control panels - tested in compliance with EN 12453 - EN 12445
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 operator and with built-in radio decoder.
002**ZL19NA**	Control panel for overhead garage doors with two operators and with built-in radio decoder.
	Accessories for: 002ZL170N and 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 tube for telescopic arms for doors higher than 2.4 m / 7.87 ft.
001**E881**	Closing electric lock.

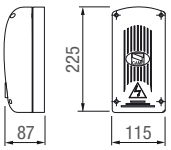
Electronic functions

The table shows all of the control panels features dedicated to overhead and sectional garage doors.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

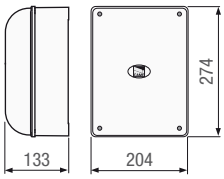
Dimensions (mm)



002ZL19NA
002LB18



002ZE5



002ZL170N

CAME

The models

Series	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 ADJUSTMENTS					
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

NOTE:
*** Partial opening is activable with button, switch as well as with the transmitter.**

Automation for:
ROAD BARRIERS

Index

CAME

Your selection guide

Road barriers

The table summarises both the series and models with their maximum limits of use, based on the max width of the barrier's passage clearance.

Series	Model	Max width of passage clearance (m/ft)
Gard	G2500	2.5/8.2
	G3750	3.75/12.30
	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

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

Road barriers

Single Barrier
FOR RESIDENTIAL USE

To manage small apartment block parking lots with a small number of vehicle transit.
Series: Gard - Gard 4

Single or double barrier
FOR INTENSIVE USE

To manage intensively used parking lots such as in companies.
Series: Gard - Gard 4 - Gard 8

Barrier
FOR PAY-TO-PARK FACILITIES

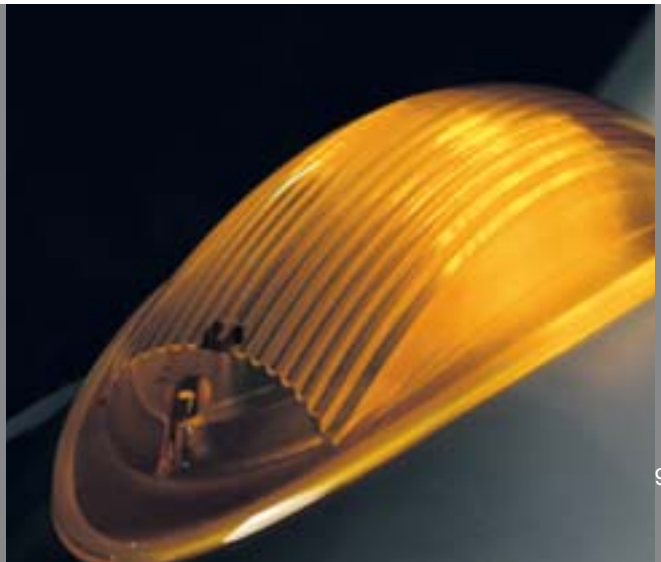
A simple, practical solution to manage pay-to-park facilities.
Series: Gard

Barrier for LARGE PASSAGEWAYS

To manage passages used by exceptional vehicles.
Series: Gard 12

The flashing light: for added safety

The Gard 4 and Gard 8 barriers are designed to take the dome flashing light which warns when the boom is in movement, thus guaranteeing greater safety for those using the passageway. The Gard series barriers are made to fit the Kiaro series flashing light.



European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

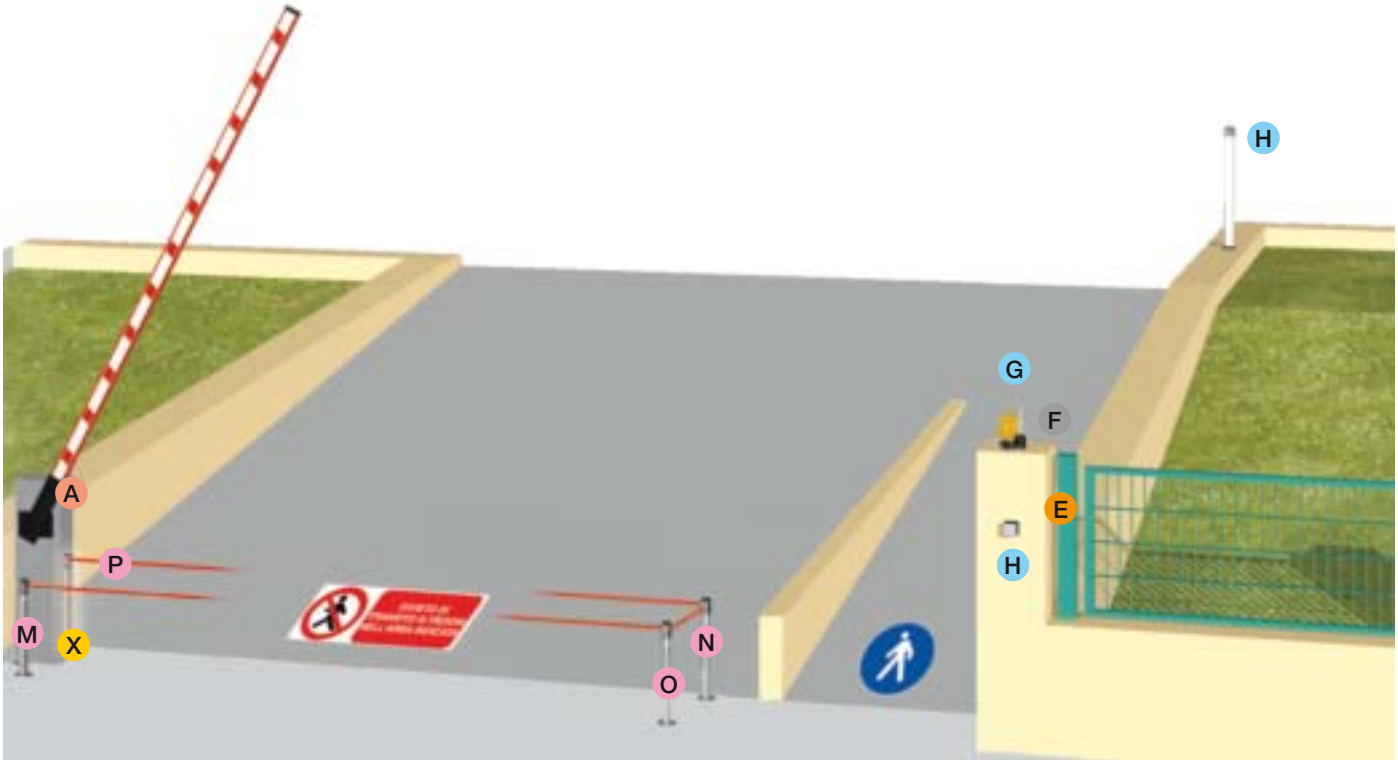
Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
INFRARED-BEAM PHOTOCELLS
The photocells can be installed directly onto the barrier cabinet.

The pedestrian passage

If the barrier is exclusively meant for vehicle transit control, any pedestrian transit must take place in a separately indicated area. However, Came offers a wide range of safety devices that guarantee peace-of-mind when using the installation even in case unauthorised pedestrians go through the area in which the boom is in movement.

RESIDENTIAL use



The products

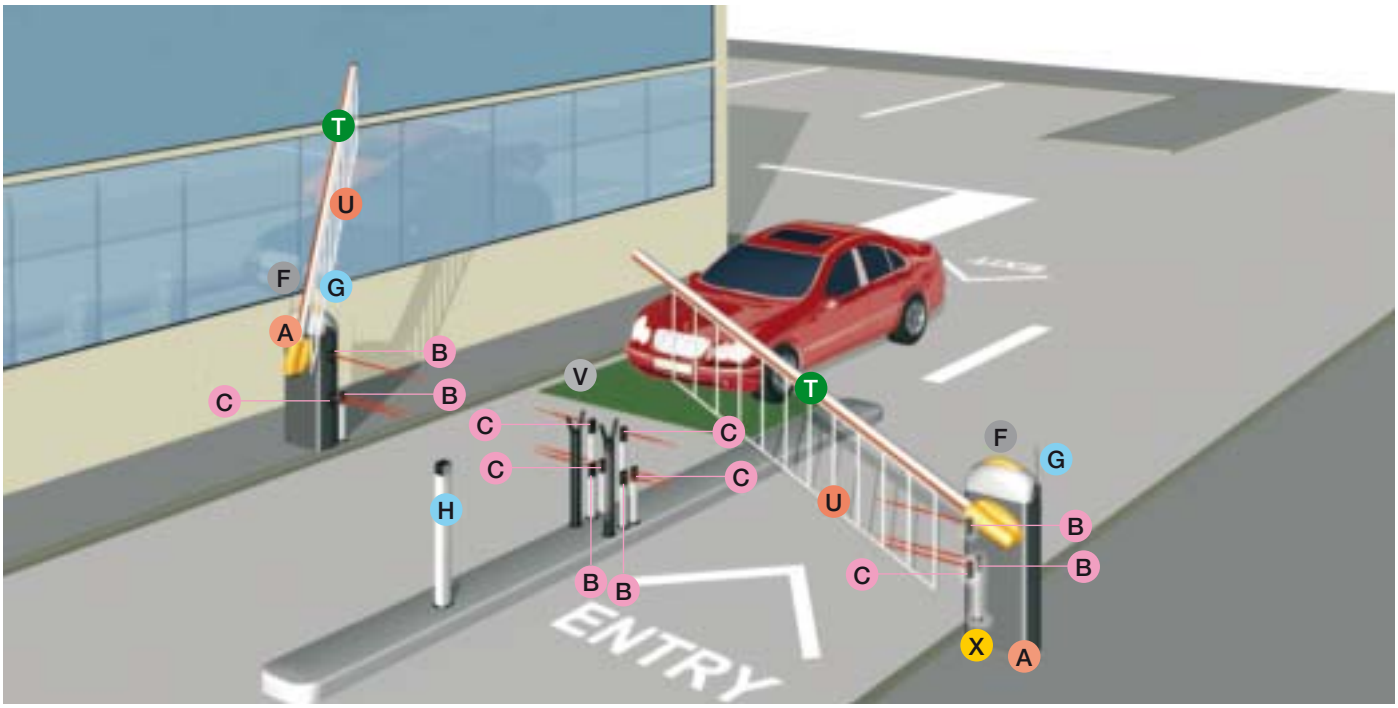
- A Barrier
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob)
- M TX cordless photocells
- N TX/RX cordless photocells or TX photocells
- O RX/TX cordless photocells or RX photocells
- P RX cordless photocells
- X Radio receiver

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. X AWG20	*n x 0.5 mm² / n. X AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

INTENSIVE use



The products

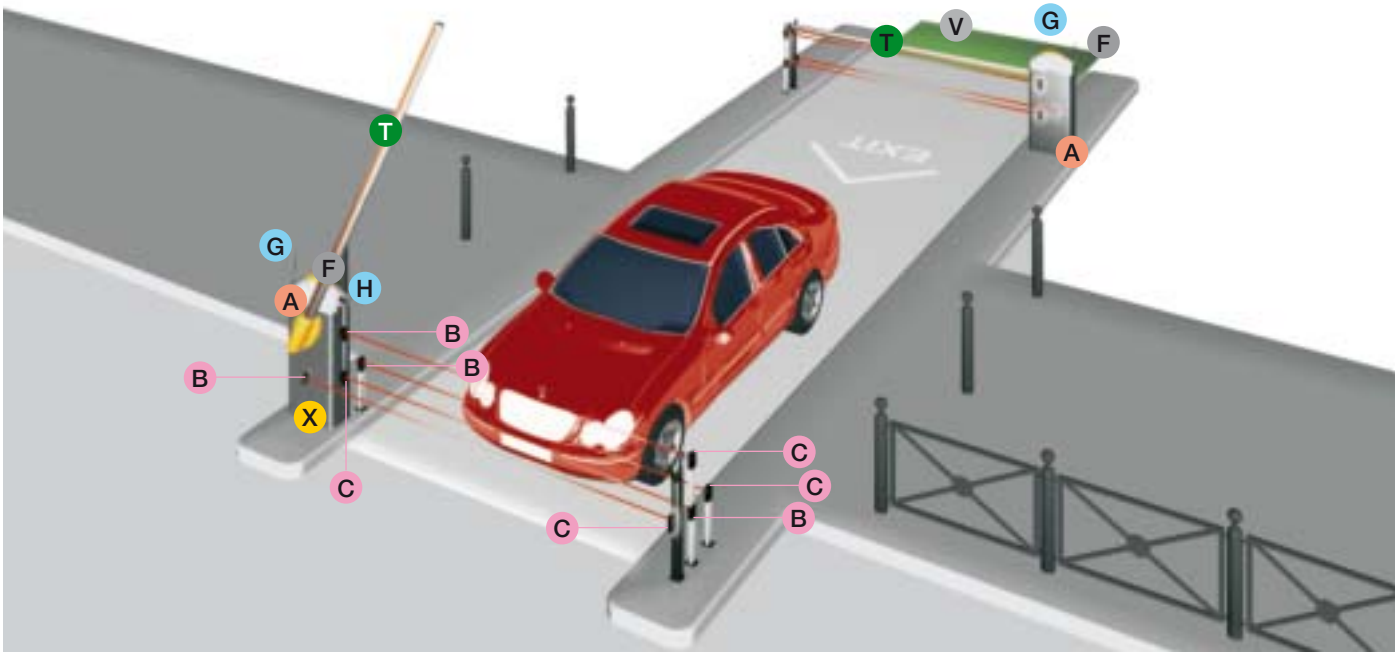
- A Barrier
- B TX photocells
- C RX photocells
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- T Boom with luminous cord
- X Radio receiver
- U Rack
- V Metal mass detection sensor

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. X AWG20	*n x 0.5 mm² / n. X AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

PARKING FACILITY use



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 Boom with luminous cord
- X Radio receiver
- V Metal mass detection sensor

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. X AWG20	*n x 0.5 mm² / n. X AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

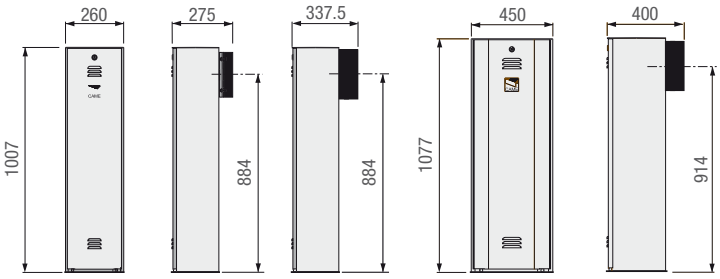
Gard

Passage clearance of up to 6.5 m / 21.30 ft

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

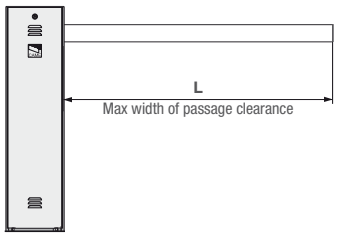
- Ideal for both private and public parking facilities.
- The model for passageways of up to 2.5 m / 8.20 ft (001G2500) is available in 230 V AC, while the models for passageways of up to 3.75 m / 12.30 ft (001G3750 e 001G3751) and up to 6.5 m / 21.32 ft (001G6500 e 001G6501) are in 24 V DC.
  Also available is the AISI 304 steel version.
- They can be installed either right or left and mounting the barriers is very simple, practical and quick.
- Depending on customer needs, there is a truly complete range of system-customisation accessories and such a choice of safety accessories to provide total peace of mind for the user.
- The special joint-arm means the barrier can be installed even when height/clearance is an issue, like in underground parking facilities.

Dimensions (mm)



G2500 G3750 G3751 | G2500 | G3750 G3751 | G6500 G6501 | G6500 G6501

Application



Limits to use

MODEL	G6500 - G6501	G3750 - G3751	G2500
Max width of passage clearance (m/ft)	6.5/21.30	3.75/12.30	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
90° opening time° (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	-20 ÷ +55/-4 ÷ +131	-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

Code	Description
	230 V AC barrier with operator and built-in control panel
001**G2500**	Barrier in galvanised and painted steel.
	Accessories for: 001G2500
001**G0251**	White painted aluminium boom. Section: 60 x 40 x 2700 mm / 2.36 x 1.57 x 106.29 in.
001**G0461**	Package of n. 24 red adhesive refracting strips.
001**G0257**	Joint for boom.
001**G0462**	Fixed support for booms.

The complete range max width of passage clearance 3.75 - 6.5 m / 12 - 22 ft

CAME

Code	Description
	24 V DC barriers with operator and built-in control panel
001**G3750**	Galvanised 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 boom L = 4 m / 13.12 ft, with slot-cover and shock-resistant profile.
001**G0402**	White painted tubular aluminium boom Ø 60 mm / 2.36 in L = 4,200 mm / 165.35 in.
	Accessories for: 001G03750
001**G03756**	Inner reinforcement support for semi-elliptic tubular aluminium boom.
001**G03755DX**	Joint for semi-elliptic tubular aluminium boom. For right-hand barrier.
001**G03755SX**	Joint for semi-elliptic tubular aluminium boom. For right-left barrier.
	24 V DC barriers with operator and built-in control panel
001**G6500**	Galvanised 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 bar Ø 100 mm / 3.93 in L = 6.85 m / 22.47 ft.
001**G06850**	White painted tubular bar Ø 100 mm / 3.93 in L = 6.85 m / 22.47 ft with slot cover and impact-resistant profile.





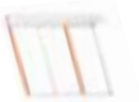


Boom assembly and balancing springs for 001G3750 - 001G3751

MODEL	🟡 001G02040 Ø 40 mm / 1.57 in springs - 🟢 001G04060 Ø 50 mm / 1.96 in springs - 🔴 001G06080 Ø 55 mm / 2.16 in springs									
	PASSAGE WIDTH (m/ft)									
BOOM COMPOSITION	1,5/4.92	1,75/5.74	2/6.56	2,25/7.38	2,5/8.20	2,75/9.02	3/9.84	3,25/10.66	3,5/11.48	3,75/12.30
Boom and 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	🟡 001G02040 Ø 40 mm / 1.57 in springs - 🟢 001G04060 Ø 50 mm / 1.96 in springs - 🔴 001G06080 Ø 55 mm / 2.16 in springs								
	PASSAGE WIDTH (m/ft)								
BOOM COMPOSITION	2/6.56	2,5/8.20	3/9.84	3,5/11.48	4/13.12	4,5/14.76	5/16.40	5,5/18.04	6,5/21.30
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 01G0465 and luminous cord 001G28401	🟡	🟡🟡	🟡🟡	🟡🟢	🟡🟢	🟢🟢	🟢🟢	🔴🟢	🔴🔴



The complete range max width of passage clearance 3.75 - 6.5 m / 12 - 22 ft

CAME

Code	Description
	Accessories for: 001G03750 - 001G06850
001**G028401**	Luminous cord for booms.
001**G028402**	Luminous cord cable.
	Accessories for: 001G3750 - 001G3751 - 001G6500 - 001G6501
002**LB38** 24	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
	Accessories for balancing (see BOOM ASSEMBLY AND BALANCING SPRINGS 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 booms (2 m / 6.56 ft modules).
001**G02807**	Fixed support for booms.
001**G02808**	Mobile support for booms.
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 OF 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 of up to 3 m maximum.
001G03756 MUST be used on barrier booms with passage clearance widths greater than 3 m, fitted with the 001G28401 luminous cord.
MUST be used on barrier booms with passage clearance widths greater than 2.5 m, 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.
001G0465 - 001G02808 They cannot be used together.

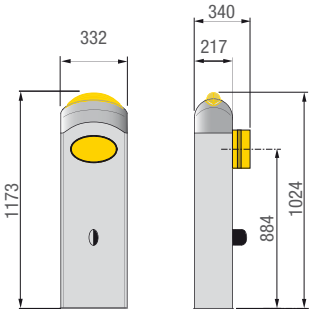
Gard 4

Passage clearance of up to 3.75 m / 12.30 ft

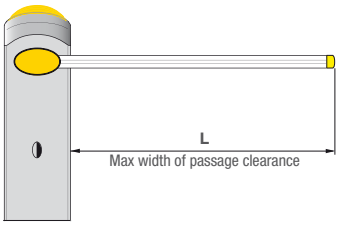
The ideal solution for intensive or vehicle transit

- A modern style barrier, with perfect aesthetics. Suited to any applicative setting.
- The LED dome-shaped flashing light, that provides long-lasting safety and durability, and the photocells that can be integrated into the cabinet.
- The protective casing shields the boom movement from shearing when opening and closing.
- Powered by 24 V DC, it is the ideal choice for intensive duty.

Dimensions (mm)



Application



Limits to use

MODEL	G4040Z - G4040IZ
Max width of passage clearance (m/ft)	3.75/12.30

● 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
90° opening time° (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**	Galvanised 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.

The jointed ARM

The special accessory for semi-elliptic tubular booms means you can install the Came barrier even when ceiling heights are too low for straight-boom barriers, such as in underground parking facilities.

In stainless STEEL

The Gard 4 barrier is also available in AISI 304 steel suitable for installation in harsh environments.

Easy MAINTENANCE

The control panel is located horizontally, atop the cabinet. So, it's easy to get to, making scheduled maintenance simple and quick.

Boom assembly and balancing springs

MODEL	🟡 001G02040 Ø 40 mm / 1.57 in springs - 🟢 001G04060 Ø 50 mm / 1.96 in springs - 🔴 001G06080 Ø 55 mm / 2.16 in springs									
	PASSAGE WIDTH (m/ft)									
BOOM COMPOSITION	1,5/4.92	1,75/5.74	2/6.56	2,25/7.38	2,5/8.20	2,75/9.02	3/9.84	3,25/10.66	3,5/11.48	3,75/12.30
Boom and 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

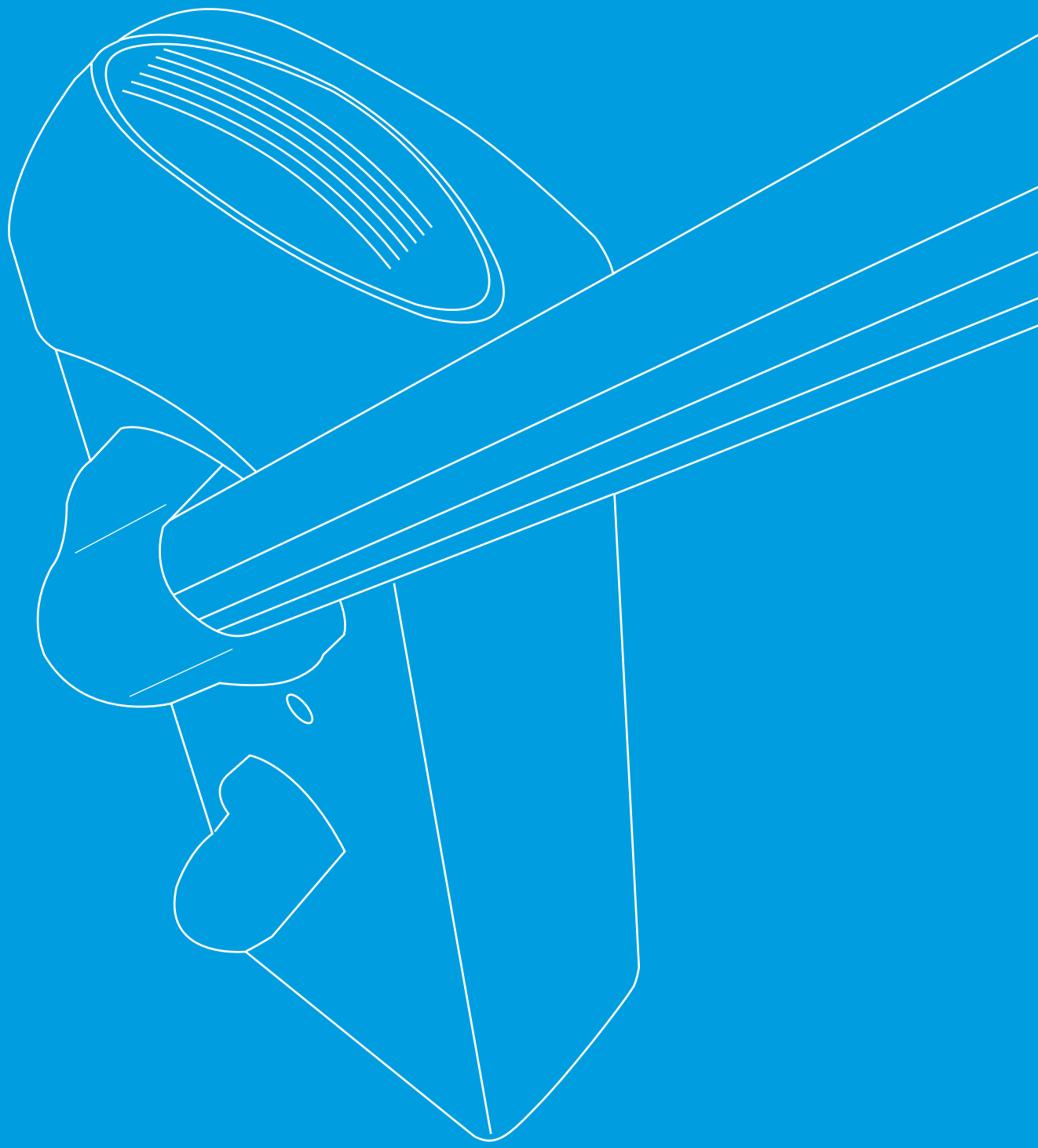
CAME

Code	Description
	Accessories for balancing (see BOOM ASSEMBLY AND BALANCING SPRINGS 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**G03751**	Emergency battery rack.
001**G03750**	White painted semi-elliptic tubular aluminium boom with slot cover and impact-resistant profiles. L = 4 m / 13.12 ft.
001**G03752**	White painted elliptic tubular aluminium boom with slot cover profile L = 4 m / 13.12 ft.
001**G028401**	Luminous cord for booms.
001**G028402**	Luminous cord cable.
001**G0465**	Painted aluminium rack for boom (2 m / 6.56 ft modules).
001**G02807**	Fixed support for booms.
001**G02808**	Mobile support for booms.
001**G02809**	Package of n. 20 red adhesive refracting strips.
	Accessories for: 001G03750
001**G03756**	Inner reinforcement support for semi-elliptic tubular aluminium boom.
001**G03755DX**	Joint for semi-elliptic tubular aluminium boom. For right-hand barrier.
001**G03755SX**	Joint for semi-elliptic tubular aluminium boom. For right-left barrier.
	Accessories for: 001G03752
001**G03753**	Securing flange for elliptic tubular boom.

WARNING: RESPECT THE LIMITS OF 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 maximum.
001G03756 MUST be used on barrier booms with passage clearance widths greater than 3 m, fitted with the 001G28401 luminous cord.
MUST be used on barrier booms with passage clearance widths greater than 2.5 m, 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.
001G0465 - 001G02808 They cannot be used together.

CAME



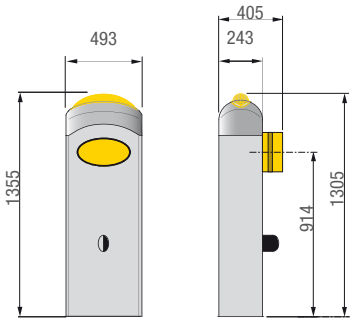
Gard 8

Passage clearance of 7.6 m / 25 ft

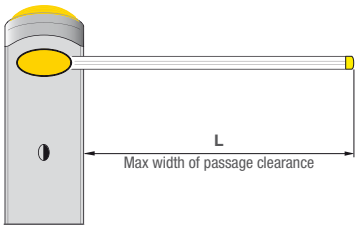
The ideal solution for large passageways in apartment blocks and industrial facilities

- This barrier is both modern and aesthetically pleasing.
- The LED dome-shaped flashing light - that provides long-lasting safety and durability - and the photocells that can be integrated into the cabinet.
- The protective casing shields the boom's movement from shearing when opening and closing.
- Powered by 24 V DC, it is the ideal choice for intensive duty.

Dimensions (mm)



Application



Limits to use

MODEL	G2080Z - G2080IZ
Max width of passage clearance (m/ft)	7.6/25

● 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
90° opening time° (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**	Galvanised 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: 001G4040Z - 001G4041Z
002**LB38**	Card for connecting n. 3 12 V - 7 Ah emergency batteries.

The break-away BARRIER BOOM

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

In stainless STEEL

The Gard 8 barrier is also available in AISI 304 steel suitable for installation in harsh environments.

Easy MAINTENANCE

The control panel is located horizontally, atop the cabinet. So, it's easy to get to, making scheduled maintenance simple and quick.

Boom assembly and balancing springs

MODEL: ● 001G02040 Ø 40 mm / 1.57 in springs - ● 001G04060 Ø 50 mm / 1.96 in springs - ● 001G06080 Ø 55 mm / 2.16 in springs

	PASSAGE WIDTH (m/ft)										
BOOM COMPOSITION	2/6.56	2,5/8.20	3/9.84	3,5/11.48	4/13.12	4,5/14.76	5/16.40	5,5/18.04	6,5/21.30	7/22.96	7,6/24.93
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 01G0465 and luminous cord 001G28401	●	●●	●●	●●	●●	●●	●●	●●	●●	●●	

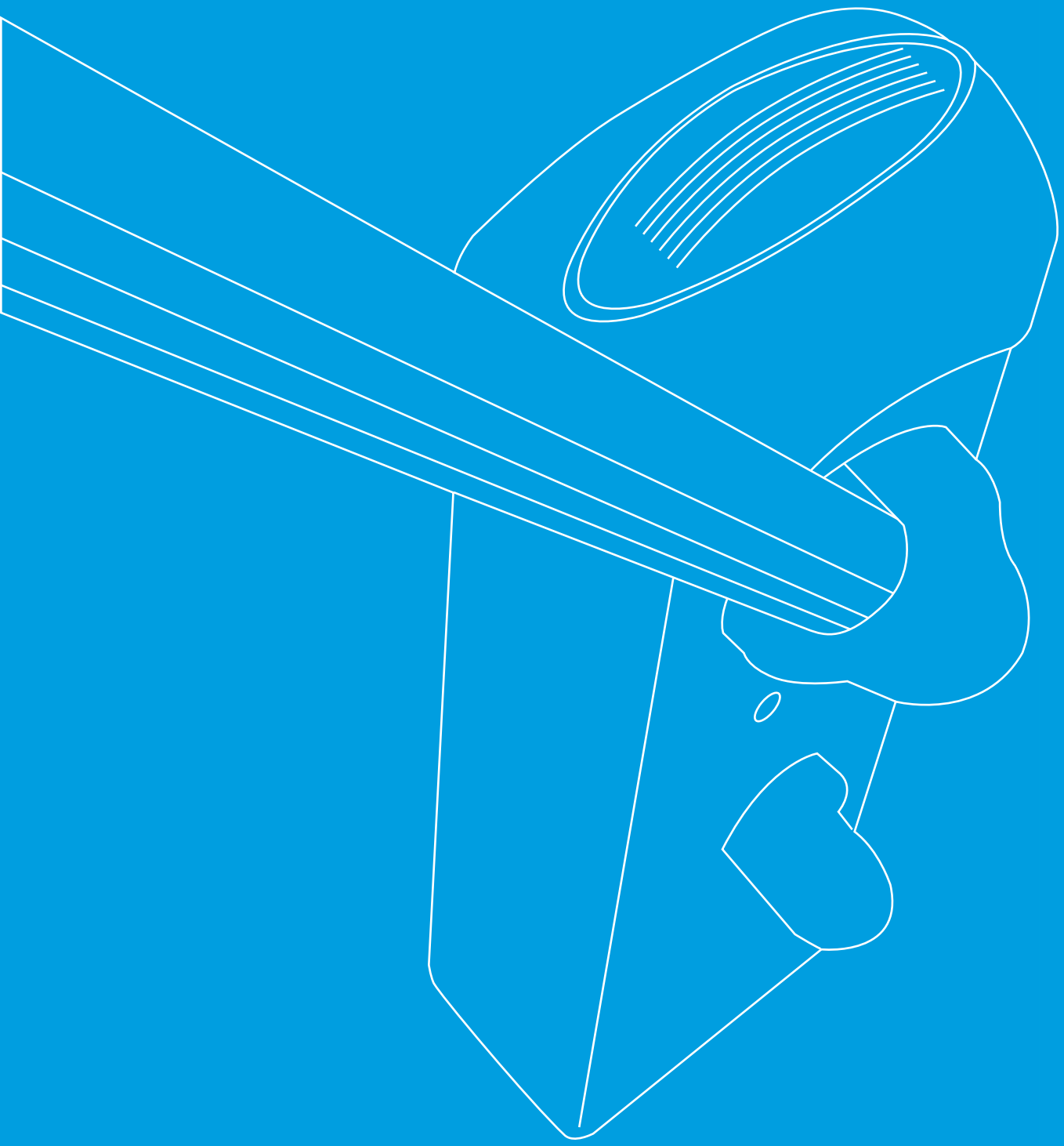
The complete range

Code	Description
	Accessories for balancing (see BOOM ASSEMBLY AND BALANCING SPRINGS 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 boom Ø 100 mm / 3.93 in complete with slot cover profile L = 2 m / 6.56 ft.
001**G04000**	White painted aluminium tubular boom Ø 100 mm / 3.93 in complete with slot cover profile L = 4 m / 13.12 ft.
001**G06000**	White painted aluminium tubular boom Ø 100 mm / 3.93 in complete with slot cover profile L = 6 m / 19.68 ft.
001**G06803**	Boom joint complete with internal reinforcement.
001**G028401**	Luminous cord for booms.
001**G028402**	Luminous cord cable.
001**G0465**	Painted aluminium rack for boom (2 m / 6.56 ft modules).
001**G02807**	Fixed support for booms.
001**G02808**	Mobile support for booms.
001**G02809**	Package of n. 20 red adhesive refracting strips.
001**G028011**	Break-away boom fitting.
	Accessories for: 001G06000
001**G06802**	Internal reinforcement for tube booms applied to barriers with passage widths greater than 4 m.

WARNING: RESPECT THE LIMITS OF 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 maximum.
001G02807 MUST be used on barrier booms with passage clearance widths greater than 7 m.
001G0465 - 001G02808 They cannot be used together.

CAME



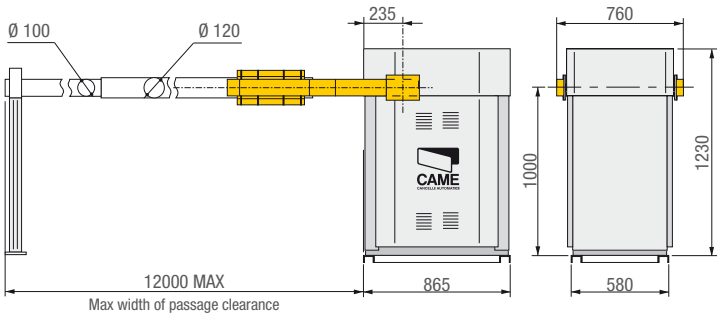
Gard 12

Clearance of 12 m / 40 ft

The ideal solution for exceptional passageways

- The barrier that handles very wide large passage ways.
- Two gearmotors installed in the cabinet and mounted on the same axis provide greater torque.
- The movement of the barrier boom is smooth, safe and reliable thanks to a special modular counter-weighted balancing system that is based on the length of the barrier boom.
- A high-end range of command and safety accessories for a 100% complete installation.
- Powered by 24 V DC, it is the ideal choice for intensive duty.

Dimensions (mm / in)



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
90° opening time° (s)	10
Duty cycle (%)	50
Torque (Nm)	600
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	-

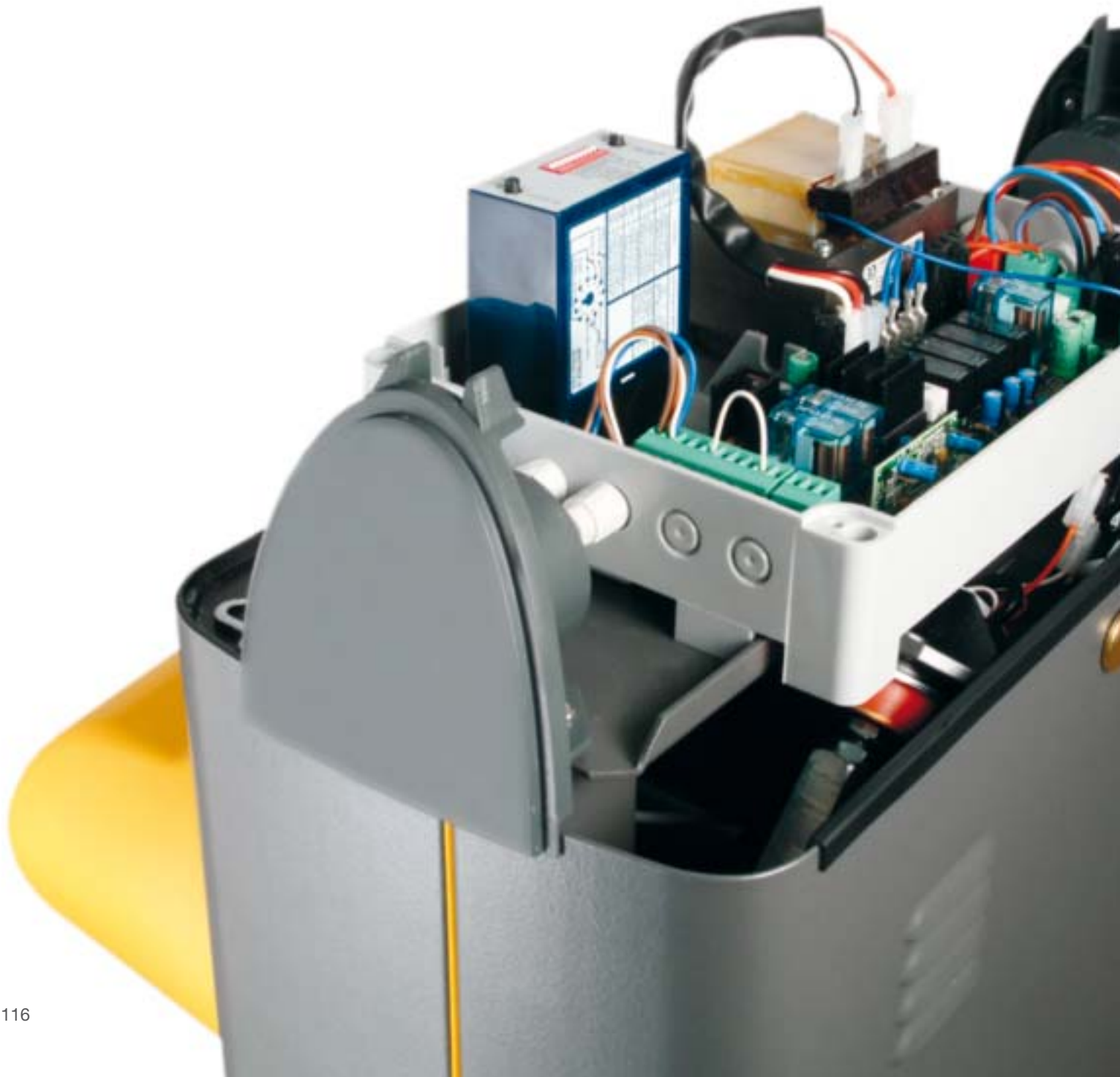
● 24 V DC

The complete range

Code	Description	
	Barrier with 24 V DC operators and built-in control panel	
001**G12000**	Barrier in galvanised and painted steel.	
	Accessories for: 001G12000	
002**LB38**	Card for connecting n. 3 12 V - 7 Ah emergency batteries.	
	Accessories	
001**G0121**	White painted tubular boom composed of: n. 1 fixed support n. 1 tubular boom L = 6200 mm Ø = 120 mm / L = 20.34 ft Ø = 4.72 in n. 1 tubular boom L = 6000 mm Ø = 100 mm / L = 19.68 ft Ø = 3.94 in n. 1 accessory kit for boom extension.	
001**G02809**	Package of n. 24 red adhesive refracting strips.	

Electronic functions

The table shows all of the characteristics of the road-barrier dedicated control panels.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.



CAME

The models

Series	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 ADJUSTMENTS				
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

Automation for:
INDUSTRIAL APPLICATIONS

Index

CAME

Your selection guide

Industrial operators

The tables sum up the series and models with their limits to use based on maximum door widths or heights, depending on 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

	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 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

	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 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

	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 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

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

The 230 – 400 V AC 3-PHASE versions are intended for industrial use as they guarantee greater surge rates of the gearmotors in the starting phase.

Industrial operators

SECTIONAL door

This device is generally installed in automated loading docks, yet is also popular at main entrances.
Series: Cbx

SLIDING door

This device is widely used in industrial facilities.
Series: Cbx

FOLDING door

This device is used to close large passageways while reducing to a minimum the space taken up laterally.
Series: F4000 - Cbx

The flashing light: for added safety

Came suggests installing the flashing light to warn when moving mechanical parts are activated.
Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their “manoeuvre counter” function.
With this, installers can decide on a number of cycles, and once the limit is reached, an additional light signal warns that scheduled maintenance is required.

European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
SAFETY SENSITIVE EDGES AND INFRARED-BEAM PHOTOCELLS
Thanks to the special onboard mechanism, the sensitive safety edges are completely collapsible and have no rigid parts – to guarantee top level protection.

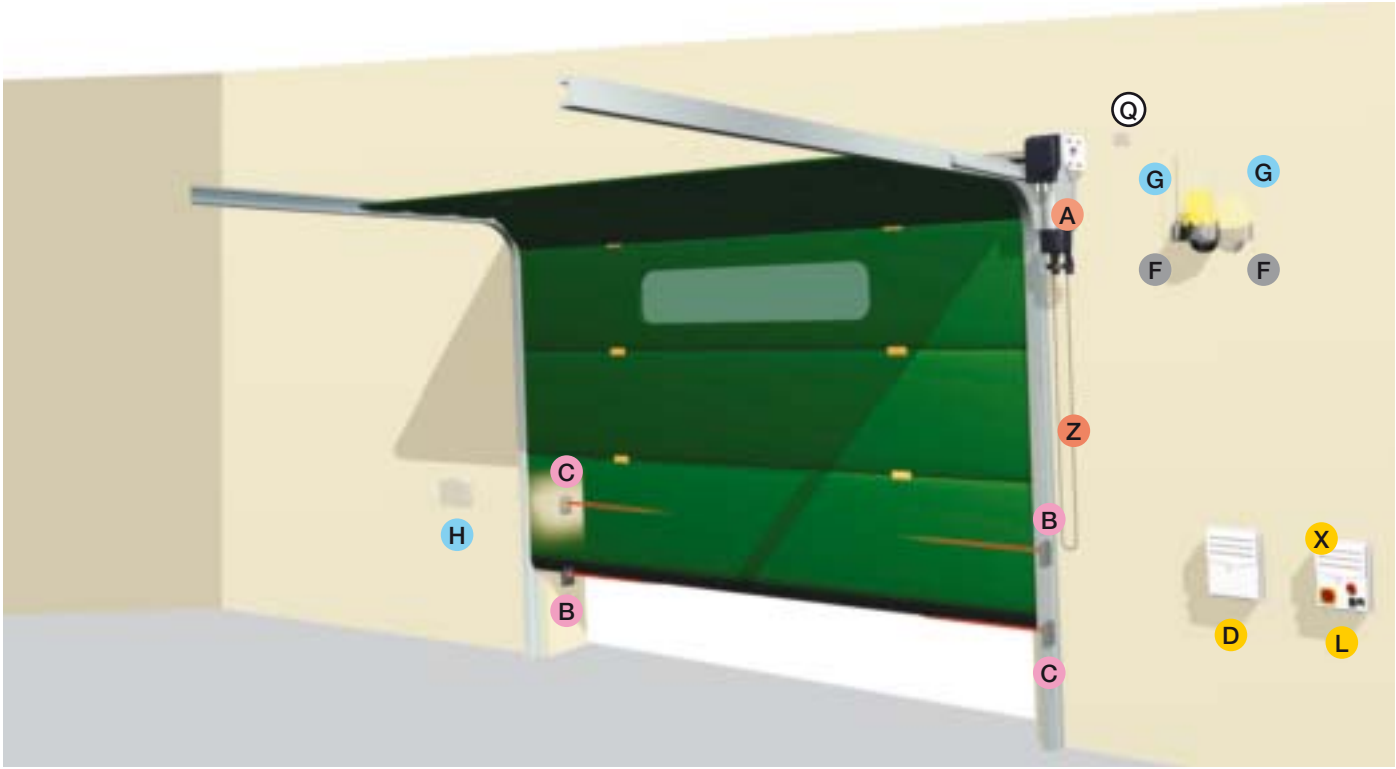
EN TESTED: CAME's added value

When you use EN-TESTED operators and control panels you need not install any sensitive safety edges. In this case, however, the impact forces need to be measured for compliance against the parameters established in the regulations.

This product is tested for compliance with maximum impact force standards established by EN 12445 and EN 12453 Technical Regulations.

CAME

Direct grip TRANSMISSION



The products

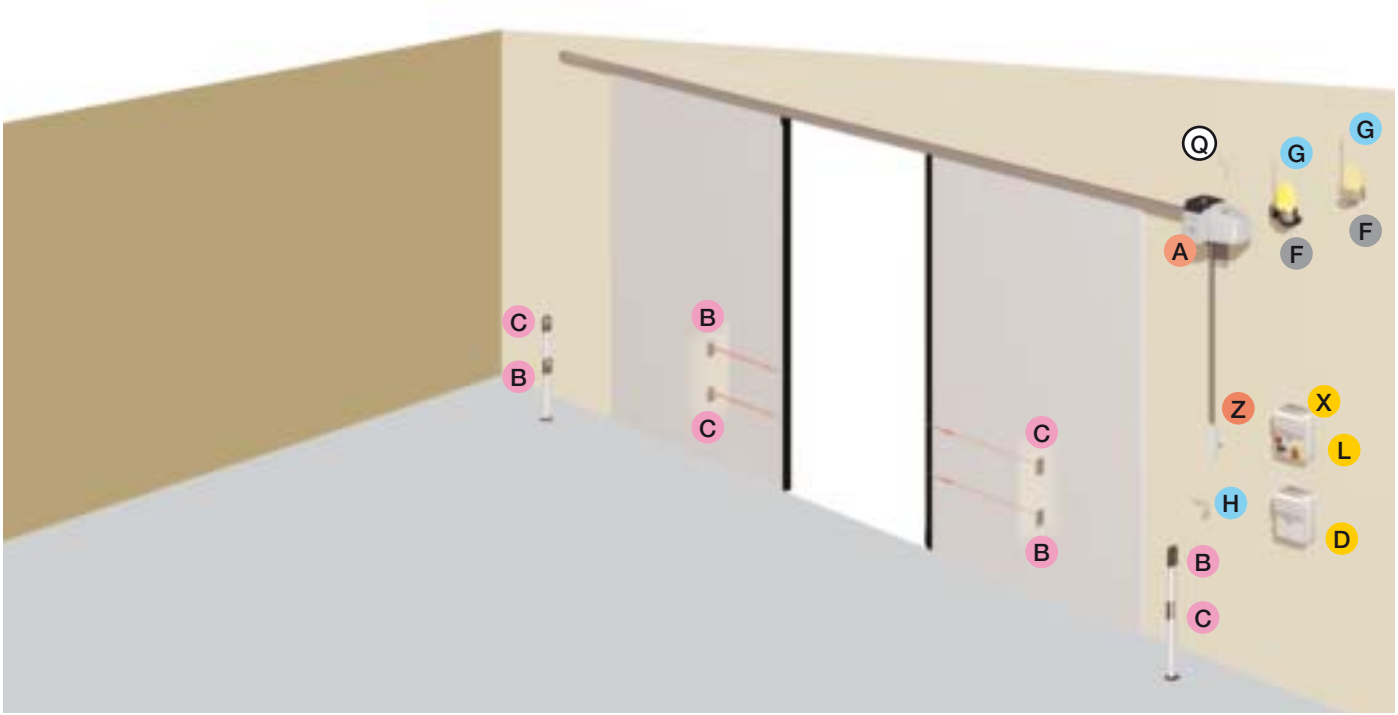
- A Operators for sectional doors
- B TX photocells
- C RX photocells
- D Control and battery charging card
- F Flashing light
- G Antenna
- H Command switch (key – code – card or transponder keyfob).
- L Control panel
- Q Junction box
- X Radio receiver
- Z Release device

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

Chain TRANSMISSION



The products

- A Operators for sliding doors
- B TX photocells
- C RX photocells
- D Control and battery charging 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

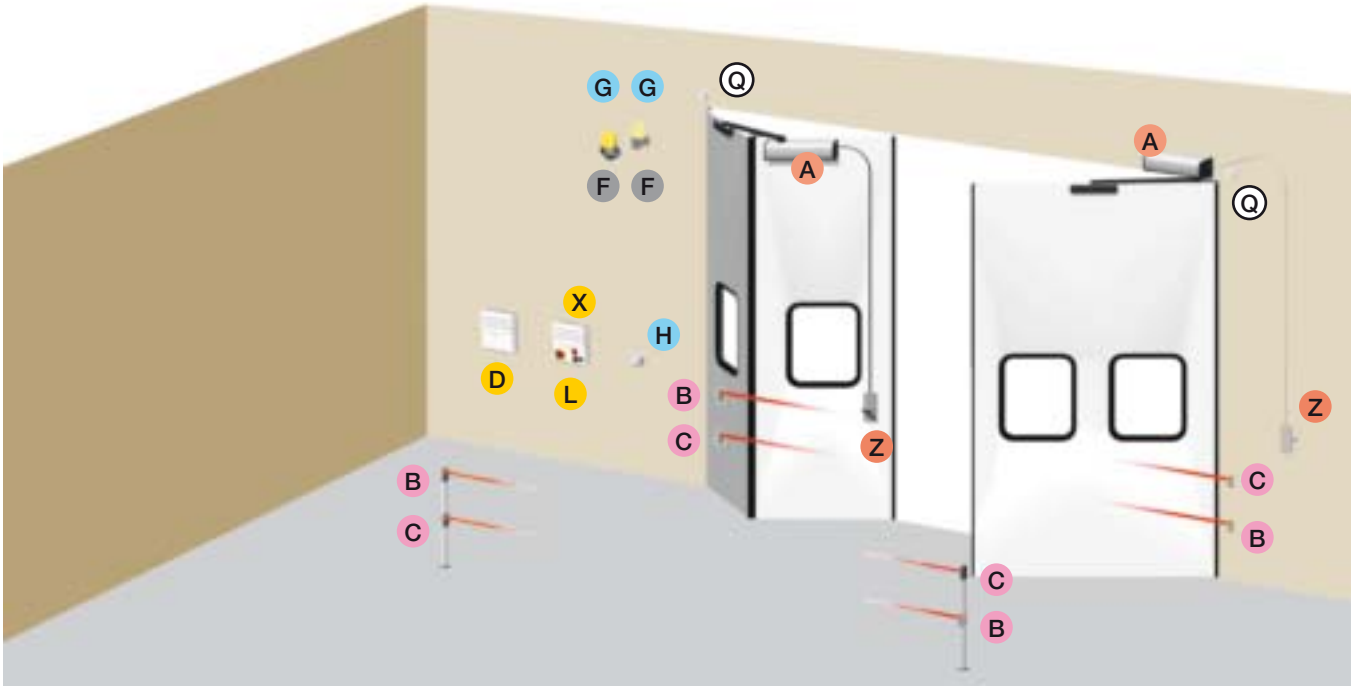
Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

CAME

Transmission with TELESCOPIC ARM



The products

- A Operators for folding doors
- B TX photocells
- C RX photocells
- D Control and battery charging 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

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm² / 4G x AWG14	4G x 1.5 mm² / 4G x AWG14	4G x 2.5 mm² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

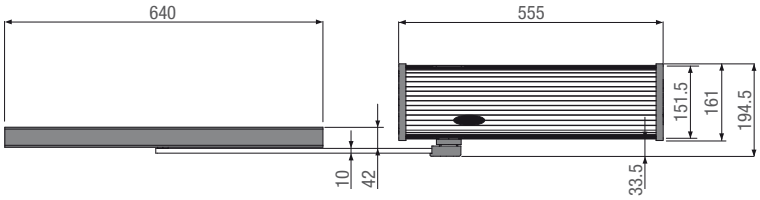
F4000

Doors of up to 2 m / 6.5 ft

The ideal solution for swing and folding door applications

- For large folding doors on slide rails or ones with two swing leaves.
- Easy to install thanks to the aluminium alloy anchoring base.
- Can be installed either on the right or left thanks to the symmetrical intakes on the gearmotor shaft.
- Can also be installed outdoors thanks to the IP54 rated gaskets that protect it from weathering agents.
- The 24 V DC version allows speed adjustments of the open/close runs and limit points as well as electronic detection of any obstacles.

Dimensions (mm)



Limits to use

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

● 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
Rotation speed (rpm)	9	9
Duty cycle (%)	30	INTENSIVE USE
Torque (Nm)	340	470
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Reduction ratio (i)	1/150	1/150
Motor thermo protection (°C/°F)	150	-

● 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 built-in radio decoder complete with safety block and buttons.	
002**ZC3**	Control panel with manoeuvre thrust function, built-in radio decoder and self-diagnosis of safety devices.	
002**ZC3C**	Control panel with manoeuvre thrust function, built-in radio decoder, safety block and buttons and self-diagnosis of safety devices.	
002**ZM3EC**	Multifunction control panel, complete with safety block and buttons, signalling display, built-in radio decoder and self-diagnosis of safety devices.	
	24 V DC operator and control panels - tested in compliance with EN 12453 - EN 12445	
001**F4024**	Self-locking operator.	
002**ZL170N**	Control panel with built-in radio decoder.	
002**ZL19N**	Control panel with built-in radio decoder.	
	Accessories for: 002ZL170N and 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 customised key and cord reset. L = 7 m / 22.96 ft.	
001**C002**	Pendulum release system.	

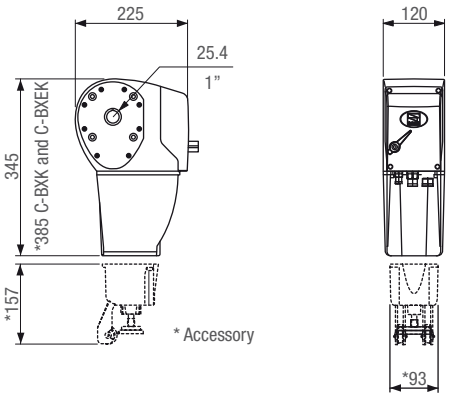
Cbx

Doors of up to 11 m / 36 ft

The ideal solution for sliding and sectional door applications

- A complete range in the following versions: 24 V DC, 230 V AC and 230 -400 V AC 3-phase.
- 001C-BXK and 001C-BXEK provide superior torque performance to operate even very large doors on 230 V AC.
- The operator for large sliding, folding sliding-doors and sectional doors featuring a direct transmission system.
- The 24 V DC model allows you to adjust run and slow-down speeds.
- Can be opened manually using the handy winch.
- Can be installed either horizontally or vertically to meet all application needs.
- Some models are fitted with an encoder which electronically controls the movement of the large doors.
- Two 230-400 V AC 3-phase models, even with encoder for a guaranteed additional thrust.

Dimensions (mm)



Limits to use

MODEL	C-BX	C-BXT	C-BXE	C-BXET	C-BXE24	C-BXK	C-BXEK
SECTIONAL DOORS WITH DIRECT GRIP							
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 DOORS 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 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 – 400 V AC 3-PHASE - ● 230 V AC - ● 24 V DC

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 AC 3-PHASE	230 AC	230 - 400 AC 3-PHASE	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 - 400 AC 3-PHASE	230 AC	230 - 400 AC 3-PHASE	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
Rotation speed (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 – 400 V AC 3-PHASE - ● 230 V AC - ● 24 V DC

The complete range

CAME

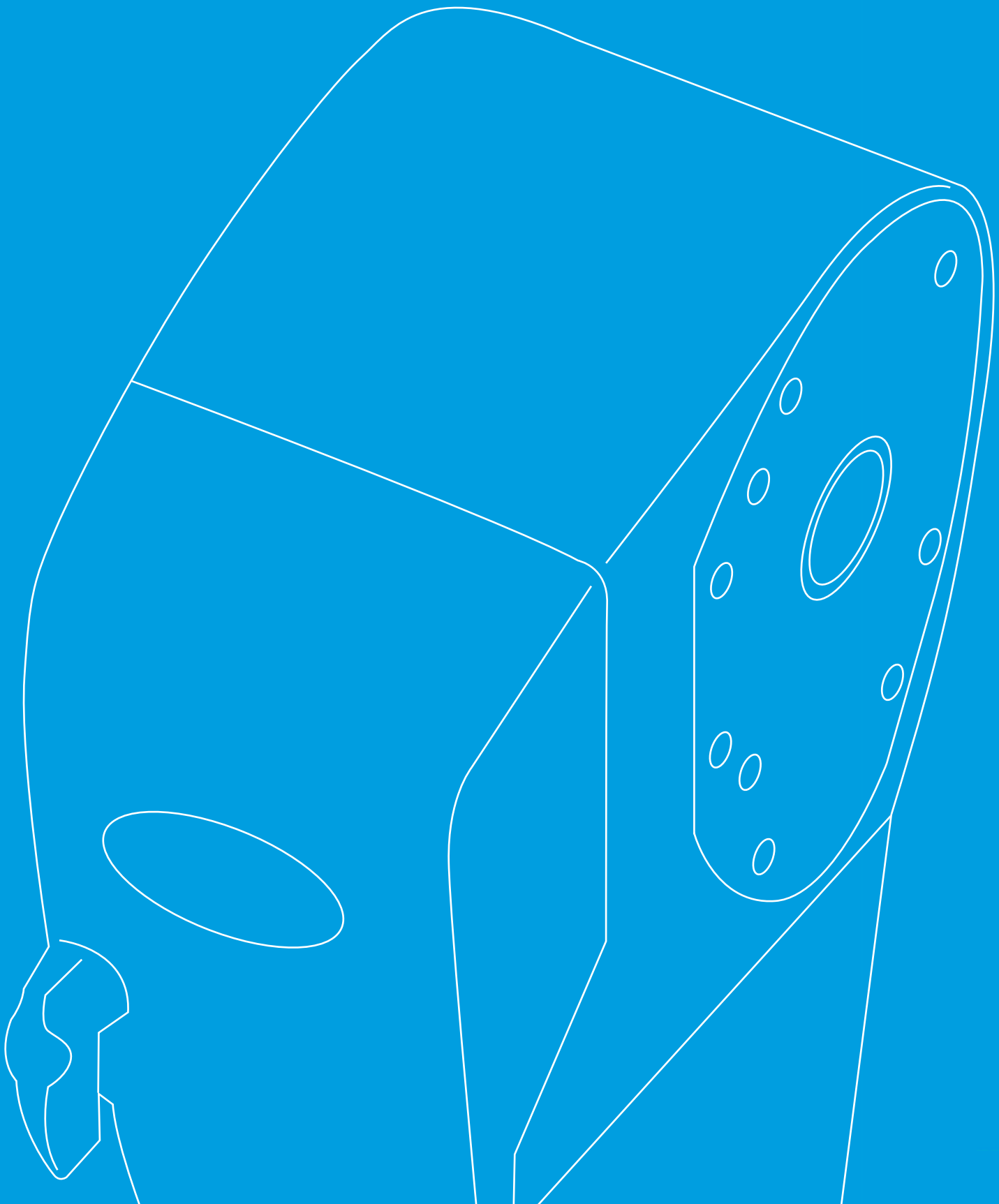
Code	Description
	230 V AC operators
001**C-BX**	Operator with mechanical endstop (450W).
001**C-BXK**	Operator with mechanical endstop (750W).
	Control panels for operators: 001C-BX - 001C-BXK
002**ZC3**	Control panel with manoeuvre thrust function, built-in radio decoder and self-diagnosis of safety devices.
002**ZC3C**	Control panel with manoeuvre thrust function, built-in radio decoder, safety block and buttons and self-diagnosis of safety devices.
002**ZM3EC**	Multifunction control panel, complete with safety block and buttons, signalling display, built-in radio decoder and self-diagnosis of safety devices.
	230 V AC operators
001**C-BXE**	Operator with encoder (450W).
001**C-BXEK**	Operator with encoder (750W).
	Control panels for operators: 001C-BXE - 001C-BXEK
002**ZCX10**	Control panel with signalling display, built-in radio decoder and self-diagnosis of safety devices.
002**ZCX10C**	Control panel complete with safety block and buttons, signalling display, built-in radio decoder and self-diagnosis of safety devices.
	24 V DC operators
001**C-BXE24**	Operator with encoder.
	Control panels for operator: 001C-BXE24
002**ZL80**	Control panel with signalling display, built-in radio decoder and self-diagnosis of safety devices.
002**ZL80C**	Control panel complete with safety block and buttons, signalling display, built-in radio decoder and self-diagnosis of safety devices.
	Accessories for: 002ZL80 and 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 operator: 001C-BXT
002**ZT6**	Control panel with built-in radio decoder and self-diagnosis of safety devices.
002**ZT6C**	Control panel, complete with safety block and buttons, including built-in radio decoder and self-diagnosis of safety devices.

The complete range

CAME

Code	Description	
	230 - 400 V AC 3-phase operator with encoder	
001**C-BXET**	Operator with encoder.	
	Control panels for operator: 001C-BXET	
002**ZT5**	Control panel with signalling display, built-in radio decoder and self-diagnosis of safety devices.	
002**ZT5C**	Control panel complete with safety block and buttons, signalling display, built-in radio decoder and self-diagnosis of safety devices.	
	Accessories for: SLIDING AND FOLDING 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 door leaves higher than 5.5 m / 18.04 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 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 doors with a Ø 25 mm / 0.98 in spring shaft.	
001**C008**	Accessory for 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") (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 / 0.12 in chain for sectional doors (chain L = 10 m / 32.80 ft).	
	Accessories	
001**CMS**	Release handle with customised key and cord reset. L = 7 m / 22.96 ft.	
001**C002**	Pendulum release system.	

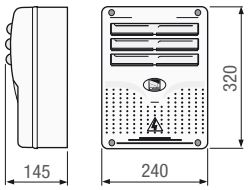
CAME



Electronic functions

The table shows all of the characteristics of control panels dedicated to industrial doors.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)



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

CAME

The models

Series	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 ADJUSTMENTS									
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 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

Automation for:
SHUTTERS AND BLINDS

Index

CAME

Your selection guide

Rolling shutters and blinds

The tables summarise the series and models along with their maximum limits to use based on the lifting force of the shutters and blinds.

Series	Model	
	Lift capacity (Kg/lb)	
	OPERATORS FOR ROLIING SHUTTERS	
H	H1003	120/265
	H1103	
	H2003	200/440
	H2103	

● 230 V AC

Series	Model	
	Lift capacity (Kg/lb)	
	OPERATORS FOR BLINDS	
Mio	MIO50S020	36/79
	MIO50S030	55/121
	MIO50S040	74/163

● 230 V AC

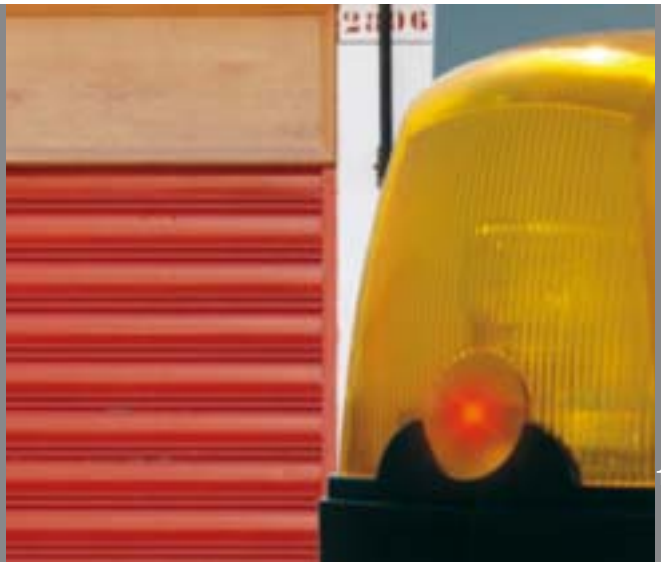
Rolling shutters and blinds

Rolling
SHUTTER
Ideal for shops, houses and apartment blocks.
Series: H

Rolling
BLIND
For home, office and generally any working environment.
Series: Mio

The flashing light: for added safety

The automation systems installed in industrial settings are often covered by a periodic maintenance programme.
For this the KIAROIN and KIARO24IN versions, both fitted with the manoeuvre counter function, are excellent to help you manage and receive notice of scheduled maintenance requirements and actions.



European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

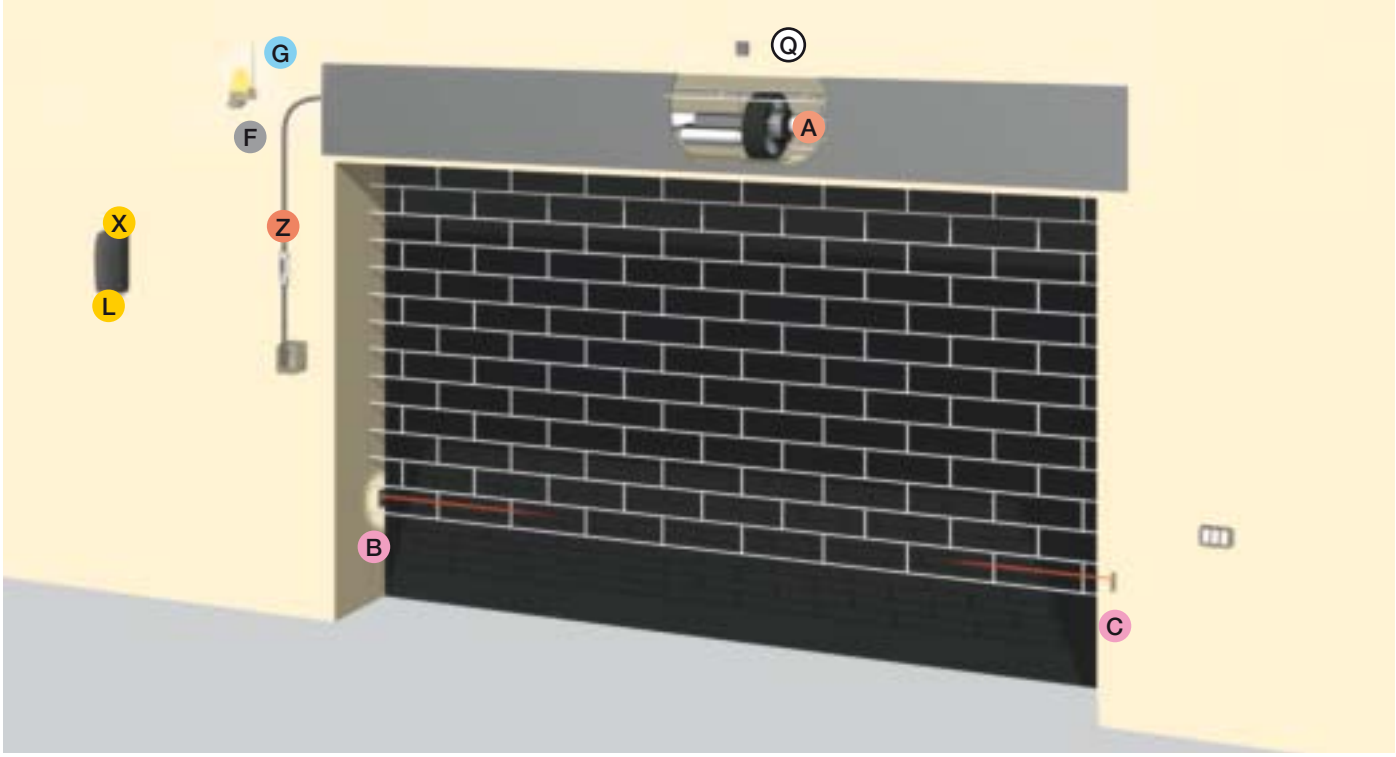
Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
INFRARED-BEAM PHOTOCELLS
CAME's Dir series synchronised infrared-beam photocells with their reduced dimensions are ideal for installing laterally to the rolling shutter. They are ideal for safe and compliant installations.

A dedicated control panel for a fully compliant system

The 002ZR24 control panel, CAME's answer to the rolling shutters. The reduced dimensions of the casing make it easy to apply while its radio remote control mode and optional safety devices, make the system fully compliant with current technical regulations.

Single OPERATOR



The products

- A Rolling shutter operator
- B TX photocells
- C RX photocells
- F Flashing light
- G Antenna
- L Control panel
- Q Junction box
- X Radio receiver
- Z Release device

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
12 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1.5 mm² / 2 x AWG14
24 V DC electric lock	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

Complete sets

CAME

001UAMT001 Mio

Complete set for rolling blinds with 20 N electromechanical tubular gearmotor

Code	Description	Quantity
001**MI050S020**	Electromechanical tubular gearmotor (20 Nm) with progressive screw-adjusted endpoints (lift capacity = max 36 Kg / 79.36 lb).	1
001**AMTAP0916**	Adaptor kit for octagonal tubes of 60 mm/ 2.36 in.	1
001**AMTAM0947**	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin).	1
001**AMTAM0511**	Standard support.	1
001**AMT11653NY**	Squared safety insert for 50 series tubular gearmotors.	1
001**AMTAM0656**	Ø 28 mm / 1.10 in metal bearing with Ø 12 mm / 0.47 in hole.	1
001**AMTAM0655**	Ø 28 mm / 1.10 in bearing holder.	1

001UAMT002 Mio

Complete set for rolling blinds with 30 N electromechanical tubular gearmotor

Code	Description	Quantity
001**MI050S030**	Electromechanical tubular gearmotor (30 Nm) with progressive screw-adjusted endpoints (lift capacity = max 55 Kg / 121.25 lb).	1
001**AMTAP0916**	Adaptor kit for octagonal tubes of 60 mm / 2.36 in.	1
001**AMTAM0947**	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin).	1
001**AMTAM0511**	Standard support.	1
001**AMT11653NY**	Squared safety insert for 50 series tubular gearmotors.	1
001**AMTAM0656**	Ø 28 mm / 1.10 in metal bearing with Ø 12 mm / 0.47 in hole.	1
001**AMTAM0655**	Ø 28 mm / 1.10 in bearing holder.	1

Complete sets

CAME

001UAMT003 Mio

Complete set for rolling blinds with 40 N electromechanical tubular gearmotor

Code	Description	Quantity
001**MI050S040**	Electromechanical tubular gearmotor (40 Nm) with progressive screw-adjusted endpoints (lift capacity = max 74 Kg / 163.14 lb).	1
001**AMTAP0916**	Adaptor kit for octagonal tubes of 60 mm / 2.36 in.	1
001**AMTAM0947**	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin).	1
001**AMTAM0511**	Standard support.	1
001**AMT11653NY**	Squared safety insert for 50 series tubular gearmotors.	1
001**AMTAM0656**	Ø 28 mm / 1. 10 in metal bearing with Ø 12 mm / 0.47 in hole.	1
001**AMTAM0655**	Ø 28 mm / 1.10 in bearing holder.	1

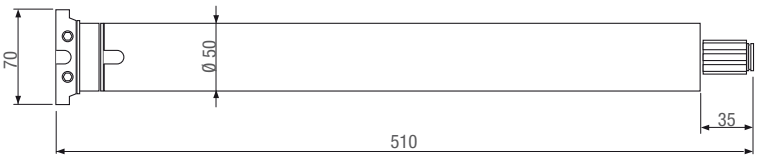
Mio

Rated to lift up to 74 Kg / 163 lb

The ideal solution for blinds

- The easy-to-apply operator: just fit the gearmotor into the blind rolling tube.
- Precise reliable movement.
- Suitable even for pre-existing blind and any type of blind box.
- Carefully selected adaptors to make it as simple as possible to choose the right product for any setting.

Dimensions (mm)



Standard cable length: 2500 mm / 98.42 in

Limits to use

MODEL	MIO50S020	MIO50S030	MIO50S040
Torque (Nm)	20	30	40
Max lift capacity (Kg/lb)	36/79	55/121	74/163
HEIGHT OF BLINDS (m/ft)		up to 1.5/4.92	
Max lift capacity (Kg/lb)	36/79	55/121	74/163
HEIGHT OF BLINDS (m/ft)		from 1.5/4.92 to 2.5/8.20	
Max lift capacity (Kg/lb)	36/79	45/99	60/132

● 230 V AC

Technical features

Type	MIO50S020	MIO50S030	MIO50S040
Protection rating IP	IP44	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Operator weight (Kg)	2.2	2.7	2.8
Current draw (A)	0.57	0.73	0.98
Power (W)	129	168	226
Rotation speed (rpm)	13	13	13
Working time (min)	4	4	4
Torque (Nm)	20	30	40
Operating temperature (°C/°F)	-10 ÷ +50/+14 ÷ +122	-10 ÷ +50/+14 ÷ +122	-10 ÷ +50/+14 ÷ +122
Motor thermo protection (°C/°F)	160/320	160/320	160/320

● 230 V AC

The complete range

CAME

Code	Description
	230 V AC (50 Hz) gearmotors 50 series
001**MI050S020**	Electromechanical tubular gearmotor (20 Nm) with progressive screw-adjusted endpoints (lift capacity = max 36 Kg / 79 lb). N
001**MI050S030**	Electromechanical tubular gearmotor (30 Nm) with progressive screw-adjusted endpoints (lift capacity = max 55 Kg / 121 lb). N
001**MI050S040**	Electromechanical tubular gearmotor (40 Nm) with progressive screw-adjusted endpoints (lift capacity = max 74 Kg / 163 lb). N
	Accessories
001**AMTAP0924**	Adaptor kit for 50 series tubular gearmotors for 59 mm / 2.32 in octagonal tubes. N
001**AMTAP0912**	Adaptor kit for 50 series tubular gearmotors for octagonal tubes of min 70 mm and max 71.5 mm / min 2.75 in and max 2.81 in. N
001**AMTAP0916**	Adaptor kit for octagonal tubes of 60 mm / 2.36 in. N
001**AMTAM0553**	Support with 48 mm / 1.89 in distance between holes for 50 series tubular gearmotors. N
001**AMTAM0523**	Screw support for 50 series tubular gearmotors. N
001**AMTAM0663**	ST bearing wood holder. N
001**AMTAM0655**	Ø 28 mm / 1.10 in bearing holder. N
001**AMTAM0511**	Standard support. N
001**AMTAM0947**	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin). N
001**AMTAM0673**	Adjustable ST bearing holder. N
001**AMTAM0670**	ST ball bearing. N
001**AMTAM0674**	ST bearing. N
001**AMTAM0656**	Ø 28 mm / 1.10 in metal bearing with Ø 12 mm / 0.47 in hole. N
001**AMT11653NY**	Squared safety insert for 50 series tubular gearmotors. N
001**AMTAM0652**	Ø 60 mm / 2.36 in octagonal telescopic shell (with Ø 12 mm / 0.47 in pin). N
001**AMTAM0653**	Ø 70 mm / 2.75 in octagonal telescopic shell (with Ø 12 mm / 0.47 in pin). N

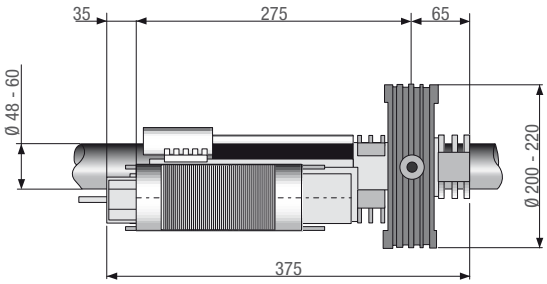
H

Rated to lift up to 200 Kg / 440 lb

The ideal solution for rolling shutters in homes and apartment-blocks

- This versatile operator is ideal for both private and commercial applications.
- Adaptable to rolling tubes with 48 mm / 1.89 in and 60 mm / 2.36 in diameters and 200 mm / 7.87 in and 220 mm / 8.66 in springs.
- Can fit a second motor to increase the lifting force.
- Easy, precise open/close run adjusting.
- Standard adapters 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
Rotation speed (rpm)	9	9	9	9
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	150/302	150/302	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
001**H1003**	Self-locking operator complete with cord-release. (lift capacity: 120 Kg / 265 lb).
001**H2003**	Self-locking operator with two motors complete with cord-release. (lift capacity: 200 Kg / 440 lb).
001**H1103**	Reversible operator. (lift capacity: 120 Kg / 265 lb).
001**H2103**	Reversible operator with two motors. (lift capacity: 200 Kg / 440 lb).
	Control panel for 230 V AC operators
002**ZR24**	Control panel with built-in radio decoder.
	Accessories for: 001H1003 and 001H1103
001**H3100**	Reversible gearmotor to combine with 001H1003 and 001H1103 operators.
	Accessories for: 001H1103 and 001H2103
001**H3012**	Electroblocker for 001H1103 and 001H2103 reversible operators complete with release cord L = 5 m / 16.4 ft and handle.
	Accessories for: 001H1003 and 001H2003
001**H3001**	Safety casing for cord-release, complete with handle and command button.

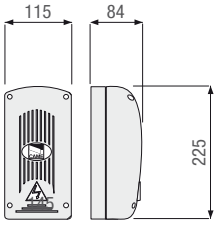





Electronic functions

The table shows all of the control panels features dedicated to rolling-shutter operators.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)



002ZR24

CAME

The models

Series	H1003 H1103 H2003 H2103	
Type	ZR24	
	230 V AC	
	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		
OPEN ONLY or CLOSE ONLY button connection		
OPEN-STOP-CLOSE-STOP button connection	●	
OPEN-CLOSE-REVERSE button connection	●	
MAINTAINED ACTION	●	
1st leaf DELAYED OPENING		
2nd LEAF DELAYED CLOSING		
IMMEDIATE CLOSING		
EMERGENCY RELEASE from the transmitter		
	FEATURES AND ADJUSTMENTS	
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

Automation for:
PARKING SPACE SAVERS AND CHAIN BARRIERS

Index

CAME

Your selection guide

Parking space savers and chain barriers

The tables summarise the series and models showing limits to use based on the parking space's maximum width and clearance.

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

● 24 V DC INTENSIVE USE

Series	Model	
	Max width of passage clearance (m/ft)	
	CHAIN BARRIERS	
Cat	CAT-X + 9 mm-CHAIN	**8/26**
	CAT-X + 5 mm-CHAIN	**16/53**
	CAT-X24 + 9 mm-CHAIN	**8/26**
	CAT-X24 + 5 mm-CHAIN	**16/53**

● 230 V AC - ● 24 V DC INTENSIVE USE

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

Parking space savers and chain barriers

For single
PARKING SPACES
Ideal for apartment block parking lots or for those reserved for authorised personnel.
Series: Unipark

For multiple
PARKING SPACES
Ideal for small apartment block parking lots or when it is important to reduce the barrier visual impact.
Series: Cat

The flashing light: for added safety

Came suggests the installation of the flashing light to indicate the presence of moving mechanical parts.
Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their “manoeuvre counter” function.
With this, installers can decide on a number of cycles, and once the limit is reached, an additional light signal warns that scheduled maintenance is required.

European Norms

An example of a European Regulation-compliant standard installation

Installation:
ON PUBLIC PREMISES
The system is installed in a public area or bordering with a public area.

User Type:
TRAINED
The system is activated only by users trained to use the automation.

Standard command type:
RADIO COMMAND
It allows the system control either by remote or fixed device impulses.

Solutions for a safe installation:
INFRARED-BEAM PHOTOCELLS
Came synchronised infrared beam photocells of the Delta S series are ideal for safe and compliant installations. Easy to install and with modern design features.

Only one control panel to control up to 4 parking spaces.

002ZL22 with 002LM22 extension card is the control panel proposed by Came for the centralised management of four parking spaces. They can be easily and autonomously radio controlled simply by adding the 001RBE4N 4-channel radio module and plug-in radio frequency card.

CAME

One or more parking spaces with Unipark

The products

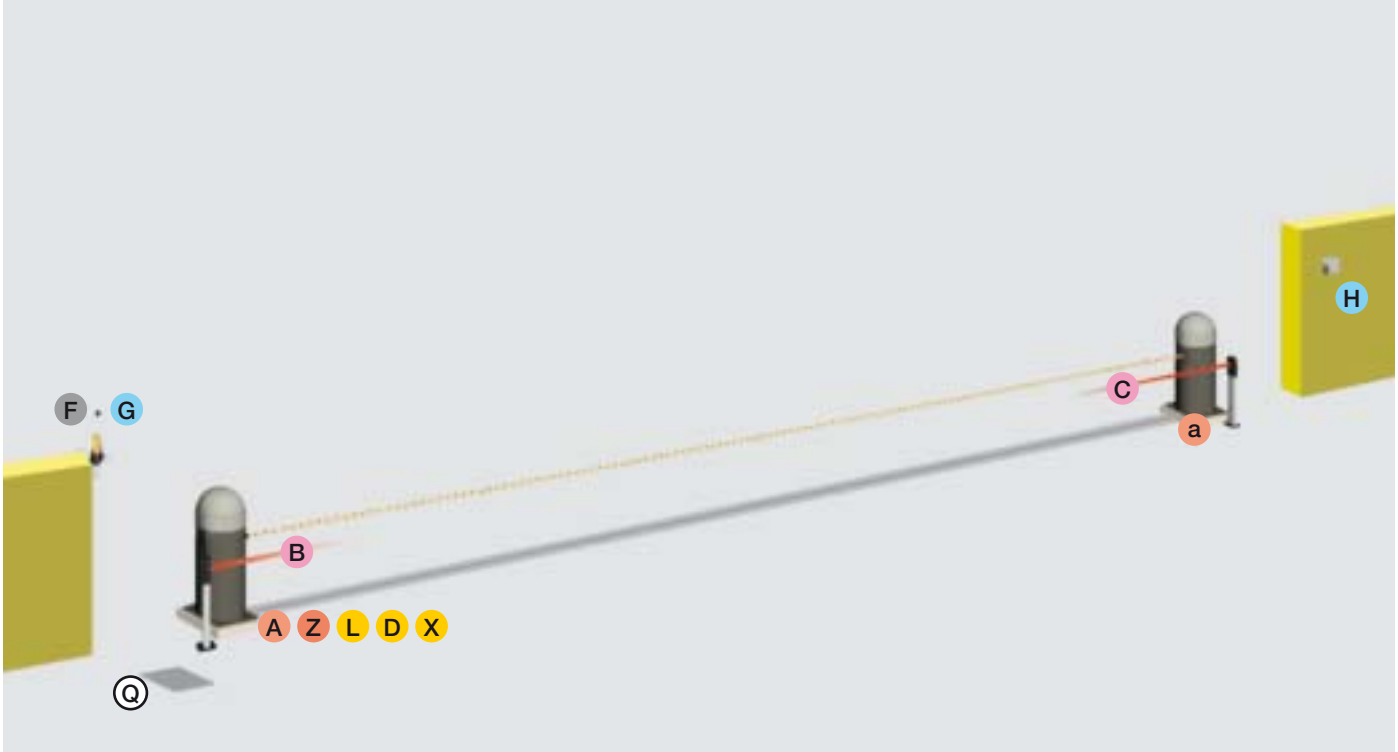
- A Parking space saver operator
- D Control and battery charging card
- G Antenna
- L Control panel
- Q Junction box
- X Radio receiver
- Z Release device

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm²	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

More than one parking space with Cat



The products

- A Post with operator
- B TX photocells
- C RX photocells
- a Post with counterweights and chain hooking
- D Control and battery charging 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

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm²	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

CAME

More than one parking space for heavy vehicles transit with Cat

The products

- A Post with operator
- B TX photocells
- C RX photocells
- a Post with counterweights and chain hooking
- D Control and battery charging 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

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2.5 mm² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm² / 2G x AWG14	2G x 1.5 mm² / 2G x AWG14	2G x 2.5 mm² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20	*n x 0.5 mm² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16	2 x 1 mm² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14	2 x 1.5 mm² / 2 x AWG14
TX photocells	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20	2 x 0.5 mm² / 2 x AWG20
RX photocells	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20	4 x 0.5 mm² / 4 x AWG20
Command devices	*n° x 0.5 mm²	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20
Antenna	RG58 10 m max / 32.8 ft		

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length.

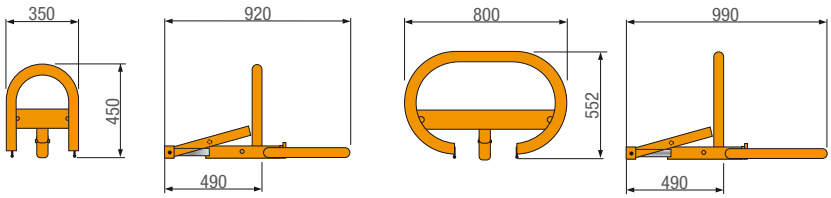
Unipark

Parking space up to 2.2 m / 7.2 ft

The ideal solution to apply to parking guards in both residential and public settings

- An innovative approach using a radio control to save assigned parking spaces.
- Works in emergency mode during blackouts.
- Available in two models, small and large, and features a simple, functional anchoring base.
- Safety is ensured thanks to the obstacle detecting amperometric device which also manages the open/close limits.

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
Current draw (A)	1.7 MAX
Power (W)	20
Manoeuvre time (s)	10
Duty cycle (%)	INTENSIVE USE
Crush resistance (Kg/cm² - lb/in²)	2.5/0.85
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131
Motor thermo 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.	

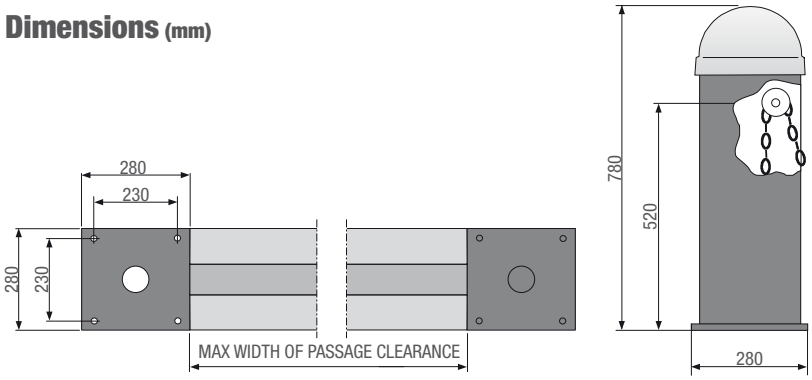
Cat

Passage clearance of up to 16 m / 53 ft

The ideal solution to apply to chain barriers in historical town-centres in public or private settings

- A Came patented proposal for managing parking areas.
- Made of steel, this product is designed to withstand accidental impacts.
- The guide rails protect the chain when the device is open.
- The 24 V DC provides obstacle detections and chain-speed adjustments.
- Easy and quick to install.

Dimensions (mm)



Limits to use

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

● 230 V AC ● 24 V DC

NOTE:
Cover colour: RAL 9006 - Cabinet colour: TEXTURED GREY - cod. 053 0837

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
Current draw (A)	2.7	20 MAX
Power (W)	300	240
Manoeuvre 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	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302	-

● 230 V AC ● 24 V DC

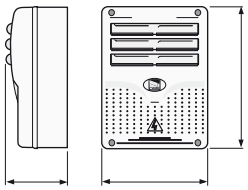
The complete range

Code	Description
	230 V AC chain barrier
001**CAT-X**	Post with operator and built-in control panel.
	24 V DC chain barrier
001**CAT-X24**	Post with operator and built-in control panel.
	Accessories for: 001CAT-X24
002**LB38**	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
	Chain barrier bollard for: 001CAT-X - 001CAT-X24
001**CAT-I**	Post 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 functions

The table shows all of the control panels features dedicated to parking space savers and chain-parking barriers.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)



002ZL22

CAME

The models

Series	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 ADJUSTMENTS		
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

Index

CAME

Your selection guide

Command and safety accessories

The range of accessories offered by Came meets all command and safety requirements, in total compliance with european standards.
The following pages are designed to guide and simplify your choice when selecting the most suitable accessory to complete your installation. It also provides all the needed technical information for the broad range of Came products.

Safety accessories

Product	Feature	Series	Type	Code
Photocells	For flush-mounting	Delta S	Synchro-infrared	001DELTA-SI
	For flush-mounting	Delta	Infrared	001DELTA-I
	For surface-mounting	Delta S	Synchro-infrared	001DELTA-SE
	For surface-mounting	Delta	Infrared	001DELTA-E
	For surface-mounting	Dir	Synchro-infrared	001DIR10
	For surface-mounting	Dir	Synchro-infrared	001DIR20
	For surface-mounting	Dir	Synchro-infrared	001DIR30
	For surface-mounting	Db	RX/TX cordless	001DBC01
	For surface-mounting	Db	Repeater module	001DBC03
	For surface-mounting	Db	Repeater module	001DBC04
	For surface-mounting	Db	RX/TX cordless	001DBS01
	For surface-mounting	Db	RX/TX cordless	001DBS02
	For surface-mounting	Db	Transmitter module	001DBCT
Sensitive 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
	Pneumatic	D	To assemble	009CP30
			To assemble	001PPA
			To assemble	001PPC
			To assemble	009TBP
			To assemble	009TP30
Flashing lights	230 V AC	Kiaro	Basic	001KIARON
		Kiaro	Xenon	001KIAROLXN
		Kiaro	Manoeuvre counter	001KIAROIN
	24 V AC - DC	Kiaro	Basic	001KIARO24N
		Kiaro	Manoeuvre counter	001KIARO24IN







Command accessories

Product	Feature	Series	Type	Code
Home automation	For flush-mounting	Wave		001WA01 001WA02 001WI08
Selectors	For surface-mounting	S	Digital	001S5000 001S7000 001S9000
		S	Transponder	001TSP01
		S	With magnetic key	001SEM-2 001SEM-2
		S	With key	001SET-E 001SET-EN 001SET-J
	For flush-mounting	S	Digital	001S6000
		S	With key	001SET-I 001SET-K
Sensors	To build into the panel	S	Metal mass detection	009SMA 009SMA2 009SMA220
Transmitters	433.92 MHz	Atomo	Rolling code	001AT01 001AT02 001AT04
		Tam		001TAM-432SA 001T432 001T434 001T438
		Top		001TOP-432NA 001TOP-434NA 001TOP-432A 001TOP-434A 001TOP-432S
		Twin		001TWIN2 001TWIN4
	868.35 MHz	Top		001TOP-862NA 001TOP-864NA
	30.900 MHz	Tfm		001T152 001T154 001T158
		Top		001TOP-302A 001TOP-304A 001TOP-3022M
	40.685 MHz	Touch		001TCH-4024 001TCH-4048

Safety

General features

Photocells:
SYNCHRONISED INFRARED BEAMS

The beam synchronisation allows you to install several pairs of photocells into one system, even at different heights and/or distances without causing any interferences.

Photocells:
THE CORDLESS VERSION

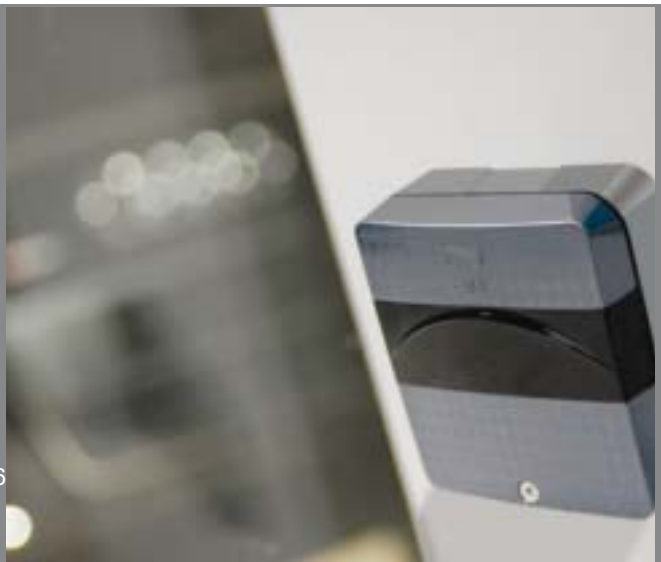
Thanks to the cordless photocells, it is possible to set up perimeter protection of the automated installation even if not previously forseen by the original project.

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

Thanks to infrared beam signal, it is possible to fit protective sensitive edges onto the moving gate-leaf without needing any complicated, expensive wiring retrofitting (only for the Bx-243, Bx and Bk automation series).

Flashing light:
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.



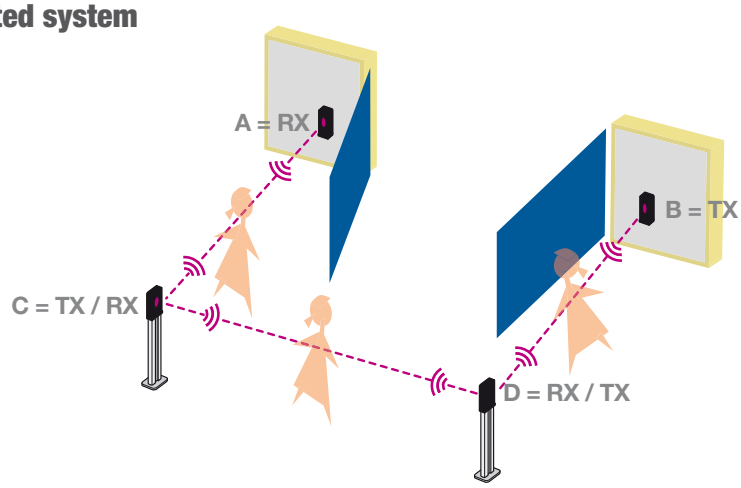
The new Delta S series photocells

Synchronised infrared beam technology allows 001DELTA-SI and 001DELTA-SE photocells to be installed without being obliged to invert transmitter and receiver positions when the pairs are close to each other.
Delta S therefore allows multiple installations without any beam interference between the different devices, also with Doc series posts and flush-mounting casings.

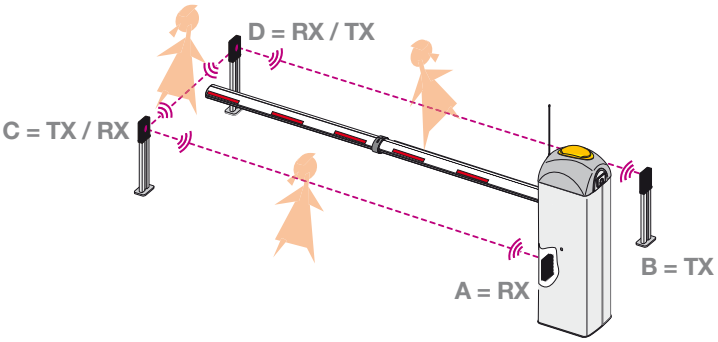
The Db PERIMETER PROTECTION integrated system

Example of perimeter protection
of an installation with a **SWING GATE**

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

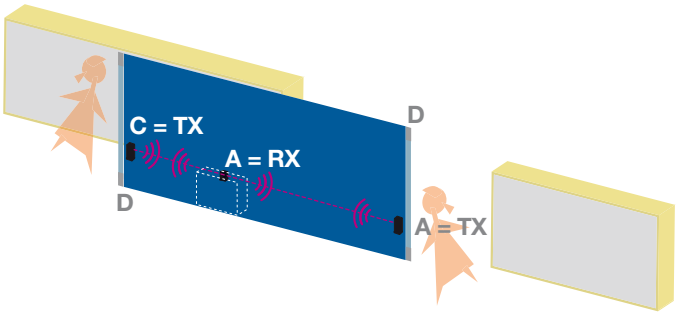


Example of perimeter protection
of an installation with a **ROAD BARRIER**
A = 001DBC01 receiver
B = 001DBC01 transmitter
C = 001DBC03 repeater
D = 001DBC04 repeater

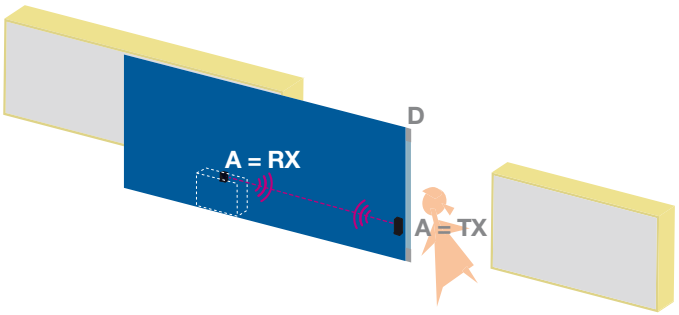


The Db + Df integrated system

Protection example with integrated system
photocells and sensitive edges with
BIDIRECTIONAL RECEIVER
A = Pair of 001DBS01 photocells
B = Pair of 001DBS02 photocells
C = 001DBCT transmitter module
D = Df series safety sensitive edges



Protection example with integrated system
photocells and sensitive edges with
MONODIRECTIONAL RECEIVER
A = Pair of 001DBS01 photocells
B = Pair of 001DBS02 photocells
D = Df series safety sensitive edges



Radio command

General features

CERTIFICATION OF THE RADIO SYSTEMS

All Came radio systems are certified to be used in both European and non-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

Each transmitter button emits different codes, to control independent separate installations, which are within the same range of control.

TRANSPONDER FUNCTION

The transmitter is made to fit a TAG, which allows combined use of radio and transponder with a single device.

Eight
CHANNELS

One transmitter controls eight-separate channels.

CAME

Features

	Model	Self-learning TRANSMITTER - TRANSMITTER	MULTI-USE	TRANSPONDER MODE	8 CHANNELS
Atomo 433.92 MHz	AT01		●	●	
	AT02		●	●	
	AT04		●	●	
Tam 433.92 MHz	T432		●		
	T434		●		
	T438		●		●
	TAM-432SA	●	●		
Tfm 30.900 MHz	T152		●		
	T154		●		
	T158		●		●
Top 433.92 MHz	TOP-432NA	●	●	●	
	TOP-434NA	●	●	●	
	TOP-432A		●		
	TOP-434A				
	TOP-432S				
Top 868.35 MHz	TOP-862NA	●	●	●	
	TOP-864NA	●	●	●	
Top 30.900 MHz	TOP-3022M		●		
	TOP-302A				
	TOP-304A				
Touch 433.92 MHz	TCH-4024	●	●	●	
	TCH-4048	●	●	●	●
Twin 433.92 MHz	TWIN2	●	●	●	
	TWIN4	●	●	●	

TRANSMITTER - RECEIVER combinations

		CARDS PLUG-IN RECEIVERS								SURFACE-MOUNTED RECEIVERS								RADIO MODULES	
	Model	AF43S	AF43SR	AF43SM	AF43TW	AF150	AF30	AF40	AF868	RE432RC	RBE4RC	RE432	RBE4MT	RE432TW	RE301	RE402	RE862	RBE4N	RBE42
Atomo 433.92 MHz	AT01		●							●									
	AT02		●							●	●								
	AT04		●							●	●								
Tam 433.92 MHz	T432	●		●								●	●					●	●
	T434	●		●								●	●					●	●
	T438	●		●								●	●					●	●
	TAM-432SA	●		●								●	●					●	●
Tfm 30.900 MHz	T152					●												●	●
	T154					●												●	●
	T158					●												●	●
Top 433.92 MHz	TOP-432NA	●		●								●	●					●	●
	TOP-434NA	●		●								●	●					●	●
	TOP-432A	●		●								●	●					●	●
	TOP-434A	●		●								●	●					●	●
	TOP-432S	●		●								●	●					●	●
Top 868.35 MHz	TOP-862NA								●								●	●	●
	TOP-864NA								●								●	●	●
Top 30.900 MHz	TOP-3022M						●								●			●	●
	TOP-302A						●								●			●	●
	TOP-304A						●								●			●	●
Touch 433.92 MHz	TCH-4024							●								●		●	●
	TCH-4048							●								●		●	●
Twin 433.92 MHz	TWIN2	●			●							●		●				●	●
	TWIN4	●			●							●		●				●	●

NOTE:
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.

Complete sets

CAME

TRA03 - 12-24 V DC Top series

433.92 MHz complete radio system for universal use

Code	Description	Quantity
001**TOP-432NA**	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

TRA08 - 230 V AC Top series

433.92 MHz complete radio system for universal use

001**TOP-434NA**	4-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

TRA10 - 12-24 V DC Tam series

Complete 433.92 MHz multi-user radio system up to 999 codes (users)

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

Complete sets

TRA04 - 230 V AC H series

Complete command system with 433.92 MHz radio device for rolling shutters

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

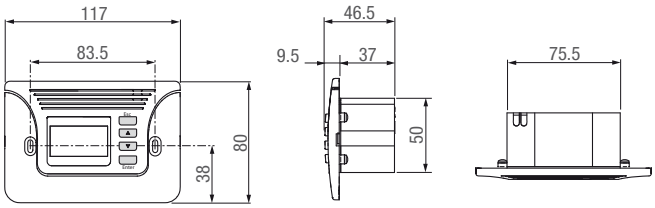
Wave

Home automation for up to 200 users

Ideal solution for controlling your house

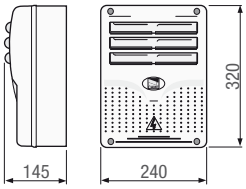
- Commands up to five devices.
- Programmable alarm clock in two time slots.
- Regulates temperatures.
- Programming and managing of: indoor and garden lights, alarm system, gate opening, garden sprinkler.
- Access control in stand-alone mode with transponder cards.
- Multi-language menu.
- Password protected access to programming functions.

Dimensions (mm)



001WA01 - 001WA02

Dimensions (mm)



001WI08 INTERFACE

Limits to use

MODEL	WA01	WA02
Max number of users	200	200
Fitted to be flush-mounted	503 BOX	503 BOX

● 230 V AC ● 12 V AC

Technical features

Type	WA01	WA02	WI08
Protection rating IP	IP40	IP40	IP54
Power supply (V - 50/60 Hz)	230 AC	12 DC	230 AC
Radio signal frequency (MHz)	433.92	433.92	-
230 V relais output (A)	1.5	-	5
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS - PC - PA6 - PMMA	ABS - PC - PA6 - PMMA	ABS

● 230 V AC ● 12 V

The complete range

Code	Description	
	433.92 MHz 230 V AC radio control unit	
001**WA01**	Home automation transponder sensor with built-in “stand-alone” transmitter (max 200 users).	
	433.92 MHz 12 V AC radio control unit and 230 V AC interface	
001**WA02**	Home automation transponder sensor with built-in transmitter.	
001**WI08**	Interface unit to connect up to n. 8 001WA02.	
	Accessories for: 001WA01 - 001WA02	
001**TST01**	ISO 7810 - 7813 format transponder card.	
009**PCT**	Keyfob transponder.	
009**TAG**	Glass transponder bulb.	

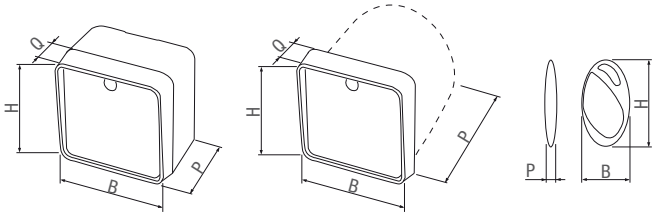
Set

Keyn switch selectors

The control for all automated devices

- Made of die-cast aluminium, it resists breaking, entering and tampering.
- Available in the versions with key, magnetic key and transponder.

Dimensions



SURFACE-MOUNTED FLUSH-MOUNTED 009PCT

Dimensions (mm/in)

MODEL	MOUNTING	B	H	P	Q
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 BUILD INTO THE 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)			

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
Contacts output (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	ALUMINIUM ALLOY	ALUMINIUM ALLOY	ALUMINIUM ALLOY	ALUMINIUM ALLOY	ALUMINIUM ALLOY	ABS	ABS

The complete range

Code	Description
	Key-switches
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 switches
001**SEM-2**	Surface-mounted magnetic key switch with aluminium alloy casing.
	Transponder sensors
001**TSP01**	“Stand-alone” transponder for card, key-fob and TAGs for up to 250 users.
	24 V AC - DC magnetic sensors
009**SMA**	24 V AC - DC one-channel magnetic loop-detector sensor.
009**SMA2**	24 V AC - DC bi-channel magnetic loop-detector sensor.
	230 V AC magnetic sensors
009**SMA220**	230 V AC bi-channel magnetic loop-detector sensor.
	Accessories for: 001SET-I - 001SET-K - 001TSP01
001**CSS**	Natural anodised aluminium post. H = 1 m / 3.28 ft.
001**CSSN**	Black anodised aluminium post. H = 1 m / 3.28 ft.
	Accessories for: 001SEM-2
001**SEC**	Code magnetic key.
001**CLM**	Natural anodised aluminium post H = 1 m / 3.28 ft with tamper-proof support.
001**CLMN**	Black anodised aluminium post H = 1 m / 3.28 ft with tamper-proof support.
	Accessories for: 001TSP01
001**TST01**	ISO 7810 - 7813 format transponder card.
009**PCT**	Keyfob transponder.
009**TAG**	Glass transponder bulb.

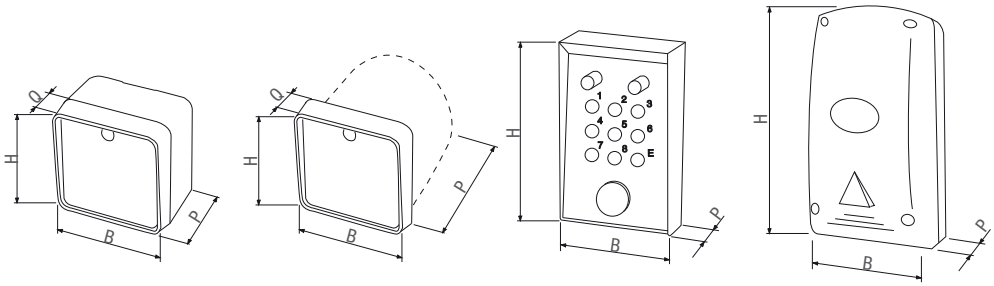
Digital

Digital keypads

The digital control for all automated devices

- Safe and reliable thanks to the electronic anti-break-in system.
- Also with radio even for those systems not specifically designed to work with radio.
- Made of aluminium and stainless steel for resistance, reliability and duration over time.

Dimensions



001S7000
001S9000

001S6000

001S5000

Dimensions (mm/in)

MODEL	MOUNTING	B	H	P	Q
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 - DC

Technical features

Type	S0001	S0002	S0004N	S9000
Protection rating IP	IP54	IP54	IP54	IP54
Power supply (V)	12 - 24 AC - DC	12 - 24 AC - DC	12 - 24 AC - DC	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 ciphres	8 MAX	6 MAX	6 MAX	8 MAX
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ALUMINIUM ALLOY - STEEL	ALUMINIUM ALLOY - STEEL	ALUMINIUM ALLOY - STEEL	ALUMINIUM ALLOY - STEEL

● 12 - 24 V AC - DC

The complete range

Code	Description
	Keypad digital selectors
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. 1,562,500 combinations (390,625 possible combinations per each code).
	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 receivers for: 001S9000
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 for: 001S9000
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).
	Accessories for: 001S6000 - 001S9000
001**CSS**	Natural anodised aluminium post. H = 1 m / 3.28 ft.
001**CSSN**	Black anodised aluminium post. H = 1 m / 3.28 ft.







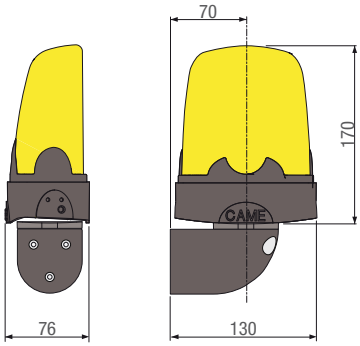

Kiaro

Flashing lights

The flashing light even with manoeuvre counter function

- Careful design and highest quality materials for a flashing light that provides much more than just a light signal.
- Some models feature a special gate-run counter function that facilitates the system scheduled maintenance.
- A wall-mounting support to solve any installation issues.

Dimensions (mm)



Type of lamp (W)

MODEL	LAMP	MANOEUVRE COUNTER
KIARON	25	-
KIAROIN	25	YES
KIAROLXN	6 XENON	-
KIARO24N	25	-
KIARO24IN	25	YES

● 230 V AC ● 24 V AC - DC

Technical features

Type	KIARON	KIAROIN	KIAROLXN	KIARO24N	KIARO24IN
Protection rating	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	24 - 24 AC - DC	24 - 24 AC - DC
Duty cycle (%)	50	50	50	50	50
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS - POLYCARBONATE	ABS - POLYCARBONATE	ABS - POLYCARBONATE	ABS - POLYCARBONATE	ABS - POLYCARBONATE

● 230 V AC ● 24 V AC - DC

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**KIARO24N**	Flashing light.	
001**KIARO24IN**	Flashing light with manoeuvres counter function.	
	Accessories	
001**KIAROS**	Wall fixing bracket.	

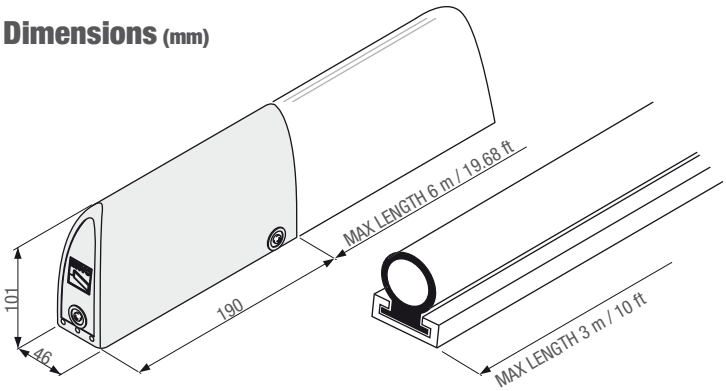
Df

Safety sensitive edges up to 6 m / 19.68 ft

The certified sensitive edges for total protection

- An exclusive Came patent for a total protection from mechanical hazards.
- The right solution for a high-level of safety and quality of the automated installation.
- An EN 12978 and EN 954-1 compliant product.

Dimensions (mm)



Df CP30

Limits to use

MODEL	DF15 - DF17 - DF20 - DF25	CP30	BRC15
Max length of assemblable profile (m/ft)	6/19.68	3/9.84	15/49.21
Max speed measured on leaf edge (m/min - ft/min)	12/39.37	-	-
Max length of cable collector system 001BRC15 (m/ft)	-	-	15/49.21

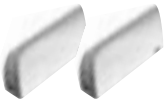
Technical features

Type	DF15 - DF17 - DF20 - DF25 - TMF - TMF6	CP30
Protection rating IP	IP54	IP54
24 V relais output (A)	1	-
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	TPE 65 SHORT A	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.
	Components for: Df series and assembled safety 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 a 15 m sliding gate set up: n. 1 001BRC15 + n. 3 001BRCP.
	Pneumatic sensitive edges
009**CP30**	Rubber and aluminium profile for pneumatic sensitive edges. H = 30 mm / 1.18 in. (Max length 3 m / 10 ft).
001**PPA**	N.O. contact pressure-switch.
001**PPC**	N.C. contact pressure-switch.
009**TBP**	Connector tube for 001PPC and 001PPA.
009**TP30**	Rubber cap for pneumatic sensitive edges H = 30 mm / 1.18 in.






NOTE:
001DFI is 12 - 24 V AC - DC.

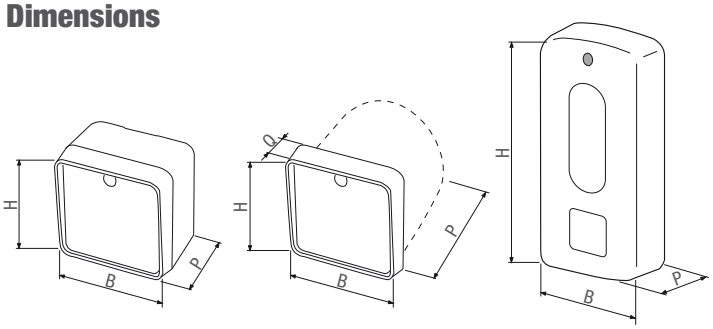
Delta-Dir-Delta S

Photocells

Safety devices for gates and doors in movement

- Controlling of the gate movement areas.
- Infrared beam, even synchronised, to fend off possible external signal disturbances.
- For the Dir series photocells a double height post is available for installations on passage ways where heavy vehicles transit.
- Today Came offers its Delta series infrared beam and Delta S synchronised beam photocells: one design for surface and flush-mounted applications.
- High-grade of protection from environmental agents.

Dimensions



001DELTA-E
001DELTA-SE

001DELTA-I
001DELTA-SI

001DIR10
001DIR20
001DIR30

Dimensions (mm/in)

MODEL	MOUNTING	B	H	P	Q
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
DIR10 - DIR20 - DIR30	SURFACE-MOUNTED	46/ 1.81	108/4.25	23/0.9	-

● 12 - 24 V AC - DC

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 /32.8	20/65.62	30/98.42

● 12 - 24 V AC - DC

Technical features

Type	DELTA-E - DELTA-I	DELTA-SE - DELTA-SI	DIR10 - DIR20 - DIR30
Protection rating IP	IP54	IP54	IP54
Power supply (V)	12 - 24 AC - DC	12 - 24 AC - DC	12 - 24 AC - DC
24 V relais output (mA)	500	500	1000
24 V AC current draw (mA)	110	70	60
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS - POLYCARBONATE	ABS - POLYCARBONATE	ABS - POLYCARBONATE

● 12 - 24 V AC - DC

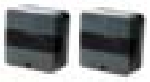
The complete range

CAME

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 photocells with synchronised infrared beam
001**DIR10**	Pair of photocells. Range: 10 m / 32.8 ft.
001**DIR20**	Pair of photocells. Range: 20 m / 65.62 ft.
001**DIR30**	Pair of photocells. Range: 30 m / 98.42 ft
	Delta S series photocells with synchronised infrared beam
001**DELTA-SI**	Pair of flush-mounted photocells complete with casing. Range: 20 m / 65.62 ft.
001**DELTA-SE**	Pair of surface-mounted photocells. Range: 20 m / 65.62 ft.
	Accessories for: 001DELTA-I - 001DELTA-SI
009**DOC-S**	Flush-mounted casing.
001**DOC-L**	Natural anodised aluminium post. H = 500 mm / 1.64 ft.
001**DOC-LN**	Black anodised 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**	Aluminium alloy impact-proof protection.
001**DIR-S**	Flush-mounted casing.
001**DIR-L**	Natural anodised aluminium post. H = 500 mm / 1.64 ft.
001**DIR-LN**	Black anodised aluminium post. H = 500 mm / 1.64 ft.
	Accessories for: 001DIR-L e 001DIR-LN
001**DIR-P**	Natural anodised aluminium extension H = 500 mm / 1.64 ft post. To apply with double pair of photocells.
001**DIR-PN**	Black anodised aluminium extension H = 500 mm / 1.64 ft post. To apply with double pair of photocells.













NOTE:
001DELTA-I - 001DELTA-E Max number of pairs of photocells on a single installation: 4.

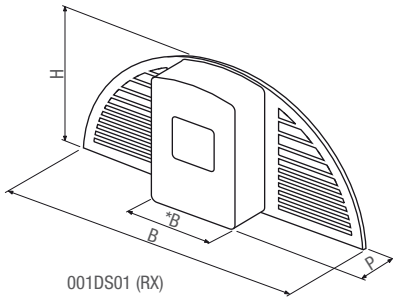
Db

Cordless photocells

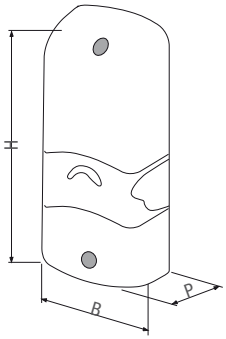
Infrared beam safety device

- The cordless photocells for easy perimeter coverage thanks to the bi-directional beam emitted by the repeaters and transmitters.
- Battery power for even easier handling.
- The 001DBS01 and 001DBS02 photocells with Df sensitive edges: photocells beam transmission onto the moving gate leaf edge ensures a total safety and protection.

Dimensions



001DS01 (RX)



001DBC01
001DBC03
001DBC04
001DBS01 (TX)
001DBS02
001DBCT

Dimensions (mm/in)

MODEL	MOUNTING	B	H	P
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	150/5.90 - *46/1.81	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 - DC

Limits to use

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

● 12 - 24 V AC - DC

Technical features

Type	DBC01 - DBC03 - DBC04	DBS01 - DBS02 - DBCT
Protection rating IP	IP54	IP54
Power supply (V)	12 - 24 AC - DC (only RX of 001DBC01)	12 - 24 AC - DC (only RX of 001DBS01 and 001DBS02)
Batteries (V)	4 x 1,5 AAA MIN 1000 mAH	4 x 1,5 AAA MIN 1000 mAH
24 V relais output (mA)	500	1
Current draw	DBC01 (TX 70 µA - RX 50 mA) - DBC03 (150 µA) - DBC04 (150 µA)	RX of 001DBS01 and 001DBS02 48 mA - TX 70 mA (24 V AC)
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS - POLYCARBONATE	ABS - POLYCARBONATE

● 12 - 24 V AC - DC

The complete range

Code	Description
	Db series cordless photocells
001**DBC01**	Pair of surface-mounted “cordless” photocells with synchronised mono-directional infrared beam. Range: 10 m / 32.8 ft (1 receiver + 1 transmitter with batteries).
001**DBC03**	Surface-mounted repeater module with bi-directional infrared beam. Range: 10 m / 32.8 ft (1 lateral receiver + 1 front transmitter with batteries).
001**DBC04**	Surface-mounted repeater module with bi-directional infrared beam. Range: 10 m / 32.8 ft (1 front receiver + 1 lateral transmitter with batteries).
	Mobile connection systems for Df safety sensitive edges for automation systems of the series: Bx-243 - Bx - Bk
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: 001DBC01 - 001DBC03 - 001DBC04
001**DB-L**	Natural anodised aluminium post. H = 500 mm / 1.64 ft.
001**DB-LN**	Black anodised aluminium post. H = 500 mm / 1.64 ft.



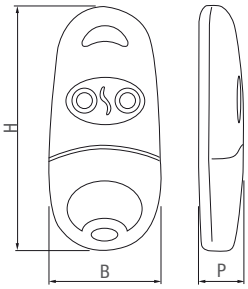

Atomo

433.92 MHz rolling code radio command

The ideal solution for multi-user settings with unclonable code.

- Rolling code: the “dynamic code” technology that guarantees signal safety and secrecy.
- Transmitter to transmitter self-learning.
- Even with transponder function.
- Available in the one-channel, two-channel and four-channel versions.
- 4,294,967,896 combinations.

Dimensions of transmitters



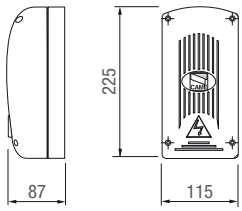
Dimensions (mm/in)

MODEL	B	H	P	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	12/0.47	22/0.77

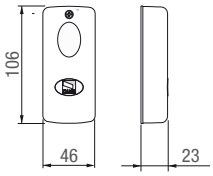
Limits to use

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

Dimensions of receivers (mm)



001RBE4RC



001RE432RC

Technical features

Type	AT01 - AT02 - AT04
Batteries	2 X CR2016 LITHIUM
Combinations	4,294,967,896
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F
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 for receivers	
001**TOP-A433N**	Antenna.	
001**TOP-RG58**	Antenna cable.	

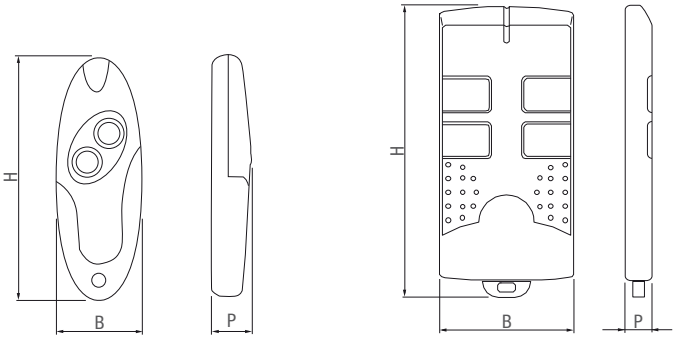
Tam

433.92 MHz radio command

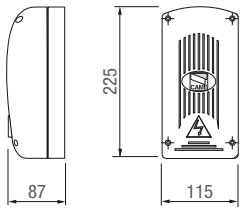
The ideal solution for apartment blocks

- A concentration of technology packed into just 12 grams.
- Transmitter to transmitter self-learning.
- Multi-user function.
- Available in versions from two to eight channels.
- 16,777,216 combinations.

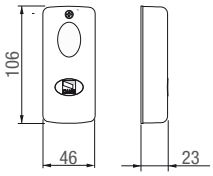
Dimensions of transmitters



Dimensions of receivers (mm)



001RBE4N
001RBE42
001RBE4MT



001RE432

Dimensions (mm/in)

MODEL	B	H	P	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)
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°C/°F	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS	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 for receivers	
001**TOP-A433N**	Antenna.	
001**TOP-RG58**	Antenna cable.	

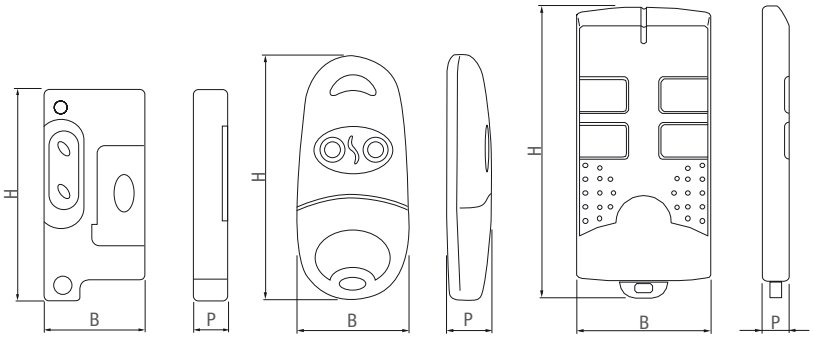
Top

433.92 MHz radio command

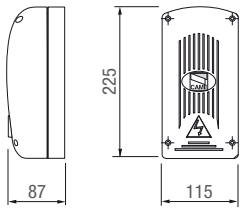
The ideal solution for residential premises

- Available in five radio command models.
- Transmitter to transmitter self-learning.
- Even with transponder function.
- 4,096 combinations.

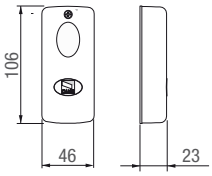
Dimensions of transmitters



Dimensions of receivers (mm)



001RBE4N
001RBE42
001RBE4MT



001RE432

Dimensions (mm/in)

MODEL	B	H	P	Weight (g/oz)
TOP-432S	31/1.22	65/2.55	15/0,59	25/0.88
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

Limits to use

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

The complete range

CAME

Code	Description
	433.92 MHz transmitters
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 transmitters. 1,024 combinations.
001**TOP-434A**	4-channel multi-user transmitter. 1,024 combinations.
001**TOP-432S**	Bi-channel miniaturised 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**	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-muonted radio module
001**RBE4N**	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.
	Accessories for: 001TOP-432NA - 001TOP-434NA
009**TAG**	Glass transponder bulb.
001**P3V**	Package of n. 2 3 V DC type CR2016 lithium batteries.
	Accessories for receivers
001**TOP-A433N**	Antenna.
001**TOP-RG58**	Antenna cable.

NOTE:
001TOP-432NA - 001TOP-434NA Max number of operators with differentiated code suggested for a single installation: 20.
Ex.: an apartment block with 20 customised garage doors.

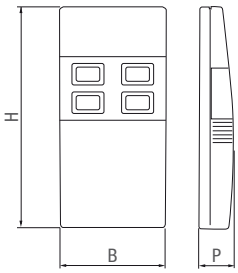
Twin

433.92 MHz radio command with KEY CODE

The ideal solution for both apartment blocks and multi-use settings

- Key Code transmitter, the password code protects the transmitter from unauthorised duplications.
- Available in either two or four channel versions.
- Even with transponder function.
- 4,294,967,896 combinations.
- Modern and elegant design.

Dimensions of transmitters



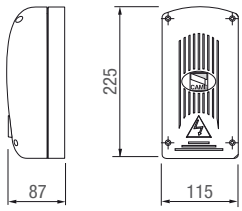
Dimensions (mm/in)

MODEL	B	H	P	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

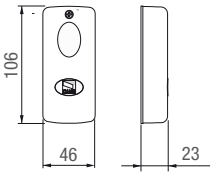
Limits to use

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

Dimensions of receivers (mm)



001RBE4N
001RBE42



001RE432
001RE432TW

Technical features

Type	TWIN2 - TWIN4
Batteries	2 X CR2016 LITHIUM
Combinations	4,294,967,896
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F
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**	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: 001TWIN2 - 001TWIN4
009**TAG**	Glass transponder bulb.
001**P3V**	Package of n. 2 3 V DC type CR2016 lithium batteries.
	Accessories for receivers
001**TOP-A433N**	Antenna.
001**TOP-RG58**	Antenna cable.

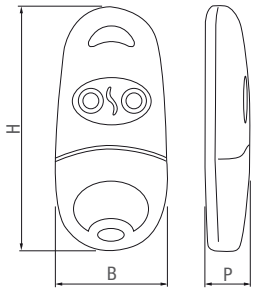
Top

868.35 MHz radio command

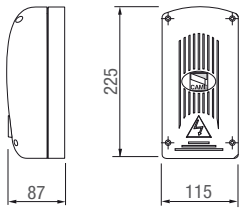
The ideal solution for residential premises

- Transmitter to transmitter self-learning.
- Even with transponder function.
- Multi-user function.
- 4,096 combinations.

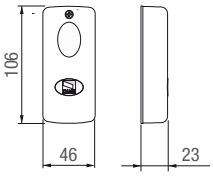
Dimensions of transmitters (mm)



Dimensions of receivers (mm)



001RBE4N
001RBE42



001RE862

Dimensions (mm/in)

MODEL	B	H	P	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)
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°C/°F
Material	ABS

The complete range

Code	Description	
	868.35 MHz transmitters	
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-muonted radio module	
001**RBE4N**	12 - 24 V AC - DC IP54 surface-mounted 4-channel multi-user radio module.	
	Accessories for: 001TOP-862NA - 001TOP-864NA	
009**TAG**	Glass transponder bulb.	
001**P3V**	Package of n. 2 3 V DC type CR2016 lithium batteries.	
	Accessories for receivers	
001**TOP-A862N**	Antenna.	
001**TOP-RG58**	Antenna cable.	

NOTE:
001TOP-862NA - 001TOP-864NA Max number of operators with differentiated code suggested for a single installation: 20.
Ex.: an apartment block with 20 customised garage doors.

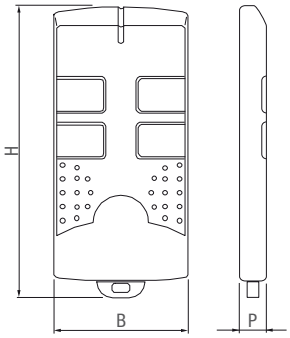
Top

30.900 MHz radio command

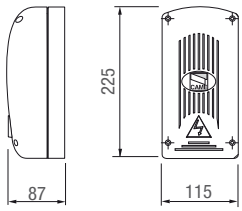
The ideal solution for residential premises

- The TOP-3022M transmitter features a double coded digital function and multi-user function.
- 1,024 combinations.

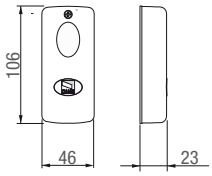
Dimensions of transmitters (mm)



Dimensions of receivers (mm)



001RBE4N
001RBE42



001RE301

Dimensions (mm/in)

MODEL	B	H	P	Weight (g/oz)
TOP-302A	58/2.28	113/4.44	23/0.9	16/0.56
TOP-304A	58/2.28	113/4.44	23/0.9	22/0.77
TOP-3022M	40/1.57	88/3.46	20/0.76	30/1.05

Limits to use

MODEL	Range (m)
TOP-302A	50 ÷ 150 / 160 ÷ 500
TOP-304A	50 ÷ 150 / 160 ÷ 500
TOP-3022M	50 ÷ 150 / 160 ÷ 500

Technical features

Type	TOP-302A - TOP-304A - TOP-3022M
Batteries	1 x 12 V AAA
Combinations	1,024
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS

The complete range

Code	Description	
	30.900 MHz transmitters	
001**TOP-302A**	Bi-channel transmitter. 1,024 combinations.	
001**TOP-304A**	4-channel transmitter. 1,024 combinations.	
001**TOP-3022M**	Multi-user bi-channel transmitter. 1,024 combinations.	
	30.900 MHz plug-in receivers	
001**AF30**	Plug-in radio frequency card.	
	30.900 MHz surface-mounted receivers	
001**RE301**	12 - 24 V AC - DC IP54 surface-mounted one-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 receivers	
001**TOP-A309**	Antenna.	
001**TOP-RG58**	Antenna cable.	

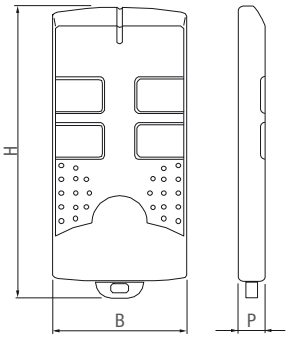
Tfm

30.900 MHz radio command

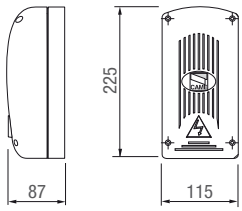
The ideal solution for apartment blocks

- Multi-user function.
- Available in versions from two to eight channels.
- 16,777,216 combinations.

Dimensions of transmitters



Dimensions of receivers (mm)



001RBE4N
001RBE42

Dimensions (mm/in)

MODEL	B	H	P	Weight (g/oz)
T152	45/1.77	92/3.62	15/0.59	34/1.19
T154	45/1.77	92/3.62	15/0.59	56/1.97
T158	45/1.77	92/3.62	15/0.59	56/1.97

Limits to use

MODEL	Range (m)
T15	50 ÷ 150 / 160 ÷ 500
T154	50 ÷ 150 / 160 ÷ 500
T158	50 ÷ 150 / 160 ÷ 500

Technical features

Type	T152 - T154 - T158
Batteries	1 x 12 V AAA
Combinations	16,777,216
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F
Material	ABS

The complete range

Code	Description	
	30.900 MHz transmitters	
001**T152**	Bi-channel multi-user transmitter. 16,777,216 combinations.	
001**T154**	4-channel multi-user transmitter. 16,777,216 combinations.	
001**T158**	8-channel multi-user transmitter. 16,777,216 combinations.	
	30.900 MHz plug-in receivers	
001**AF150**	Plug-in radio frequency card.	
	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 receivers	
001**TOP-A309N**	Antenna.	
001**TOP-RG58**	Antenna cable.	

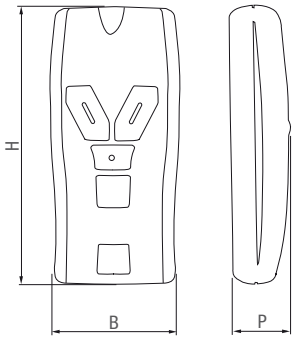
Touch

40.695 MHz radio command

The ideal solution for apartment blocks

- In the 2 +2 channels or 4 + 4 channels versions.
- The group of channels in use are shown by the light signal that may be either blue or red.
- Practical, with quartz technology and multi-user function.
- Harmonised frequency and ergonomic keys.
- 16,777,216 combinations.

Dimensions of transmitters



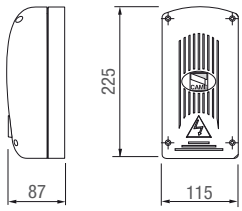
Dimensions (mm/in)

MODEL	B	H	P	Weight (g/oz)
TCH-4024	40/1.57	86/3.38	17/0.66	45/1.58
TCH-4048	40/1.57	86/3.38	17/0.66	45/1.58

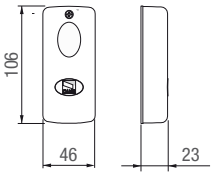
Limits to use

MODEL	Range (m)
TCH-4024	50 ÷ 150 / 160 ÷ 500
TCH-4048	50 ÷ 150 / 160 ÷ 500

Dimensions of receivers (mm)



001RBE4N
001RBE42



001RE402

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°C/°F
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 - 001TCH-4048	
009**TAG**	Glass transponder bulb.	
	Accessories for receivers	
001**TOP-A40**	Antenna.	
001**TOP-RG58**	Antenna cable.	

Automation for:
SWING AND SLIDING DOORS

Index

CAME

Your selection guide

Sliding and swing automatic doors

The table summarises the series and models along with their maximum limits to use only based on the weight of the door leaves.

Series	Model	Max door-leaf weight (Kg/lb)
Corsa Sliding doors	CORSA 1	75/165
	CORSA 2	75 + 75/165 + 165
Rodeo Sliding doors	RODEO 1	125/280
	RODEO 2	125 + 125/280 + 280
Fly Swing doors	1100PB1100	250/550
	PB2100	250 + 250/550 + 550

● 24 V DC INTENSIVE USE

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

Automatic doors

The SLIDING door

It quickly opens and closes taking up very little space. It is widely used especially in businesses and both private and public premises.
Series: Corsa - Rodeo

The SWING door

It applies to any swing door, even pre-installed ones.
Series: Fly

The ANTI-PANIC PUSH-TO-OPEN function

An electro-mechanical system for opening the sliding door leaves in emergency situations.
Series: Mi

The DEDICATED accessories

A broad range of dedicated safety and control accessories: radar, photocells, selectors, and emergency operation devices.
Series: Accessories

Profiles for automatic doors

Two series of profiles of automatic doors: the S20 and S40. Designed to realise automatic door frames, while taking into account every aspect, from aesthetics to the emergency operation mode.

Swing doors

The products

- A Operators for swing doors
- B TX photocells
- C RX photocells
- D Control and battery charging card
- H Command switch
  (Key - Code - Transponder card or keyfob)
- L Control panel
- Q Junction box
- A Radar
- B Function selector switch
- C Touch-panel sensor

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2,5 mm² / 3G x AWG12
Function selector switch	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length

One-leaf sliding door

The products

- A Operator for sliding door
- B TX photocells
- C RX photocells
- D Control and battery charging card
- X Pull-cord release device
- L Control panel
- Q Junction box
- A Radar
- B Function selector switch
- C Touch-panel sensor

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2,5 mm² / 3G x AWG12
Function selector switch	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length

Two-leaf sliding door

The products

- A Operator for sliding door
- B TX photocells
- C RX photocells
- D Control and battery charging card
- X Pull-cord release device
- L Control panel
- Q Junction box
- A Radar
- B Function selector switch
- C Touch-panel sensor

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm² / 3G x AWG14	3G x 1.5 mm² / 3G x AWG14	3G x 2,5 mm² / 3G x AWG12
Function selector switch	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20	7 x 0.5 mm² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16	4 x 1 mm² / 4 x AWG16
Command devices	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20	*n° x 0.5 mm² / n. x AWG20

*n° = see product assembly instructions - **Warning**: the cable section is merely indicative and may vary depending on the motor power and cable length

Customised supplying: CAME's added value

Corsa and Rodeo automation systems are supplied with dimensions required by the customer and with beam profile already pre-holed for their fixing to lintel or wall.
Upon request customisation of varnishing is also possible for beam profile and door profiles, so to get the best possible integration in terms of style.

CAME

Corsa and Rodeo assembling

Complete systems for Corsa and Rodeo automatic sliding door assembling

Code	Description	Quantity
	Complete automation with 24 V DC operator	
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**PLCD1**	Beam profile and slide guide - Corsa and Rodeo L = 6,850 mm / 269.68 in.	
001**PLCD2**	Beam profile and slide guide with holes - Corsa and Rodeo L = 6,700 mm / 263.77 in.	
001**LC68**	Natural anodized profile cover L = 6,850 mm / 269.68 in.	
001**LC68G**	Non-finish profile cover L = 6,850 mm / 269.68 in.	
001**LD68**	Natural anodized extra-size profile cover L = 6,850 mm / 269.68 in.	
001**LD68G**	Non-finish extra-size profile cover L = 6,850 mm / 269.68 in.	
	Accessories for: 001LC68	
001**LTC**	Package of n. 2 natural grey varnished caps for profile covers.	
	Accessories for: 001LC68G	
001**LTCG**	Package of n. 2 non-finish caps for profile covers.	
	Accessories for: 001LD68 - 001LD68G	
001**LTD**	Package of n. 2 caps with hinges for profile covers.	
	Complementary accessories	
001**MA7012C**	Package of n. 6 electro-blockers complete with pull cord and release lever.	
001**MA7036C**	Package of n. 6 cards for connecting n. 2 12 V – 1.2 Ah emergency batteries with supports (batteries not included).	
001**MA7041C**	Package of n. 6 function selector switches.	
001**MD001**	Package of n. 12 casters - Corsa max 75 Kg / 165.35 lb each pair.	
001**MD002**	Package of n. 12 casters - Rodeo max 125 Kg / 275.58 lb each pair.	

	Accessories for glass door leaves
001**MA53**	Package of fixation accessories for lower guiding profile.
001**MA70**	Package of fixation accessories for upper attaching profile.
001**MAM611**	Natural anodized aluminium upper attaching profile L = 5000 mm / 196.8 in.
001**MAM611G**	Non-finish aluminium upper attaching profile L = 5000 mm / 196.8 in.
001**MAM612**	Natural anodized aluminium lower guiding profile L = 5000 mm / 196.8 in.
001**MAM612G**	Non-finish 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 attaching profile.
001**MAM613**	Natural anodized aluminium upper attaching profile L = 5000 mm / 196.8 in.
001**MAM613G**	Non-finish aluminium upper attaching profile L = 5000 mm / 196.8 in.
001**MAM699**	Natural anodized aluminium lower guiding profile L = 5000 mm / 196.8 in.
001**MAM699G**	Non-finish aluminium lower guiding profile L = 5000 mm / 196.8 in.
	Assembling accessories
001**MA965**	Gasket for beam profile (package of 50 m / 164.04 ft).
001**MBA25**	Biadhesive tape (package of 25 m / 82.02 ft).
001**MCI30**	HTD8M belt for automatic doors (package of 30 m / 98.42 ft).
001**MP650**	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.

NOTE:
119COLOR2 Only on: 001LC68 - 001LC68G - 001LD68 - 001LD68G
119COLOR3 Only on: 001LTCG
119COLOR4 Only on: 001MAM611G - 001MAM612G
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

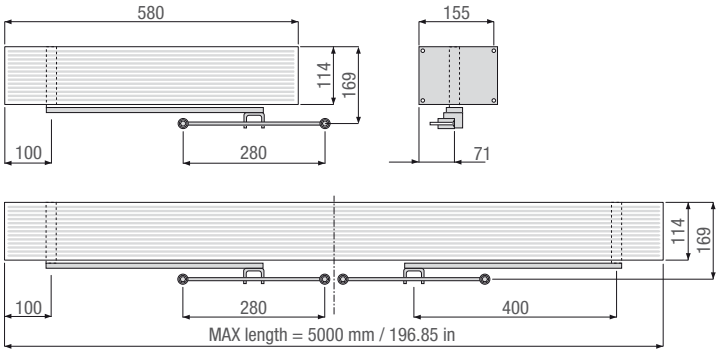
Fly

Door leaves of up to 250 Kg / 550 lb

The ideal solution to apply to even pre-installed swing doors

- A safe and reliable solution for regulating pedestrian access flows.
- An easy-to-install operator.
- Ideal for automating swing doors in large premises such as: hospitals, airports, and public administration facilities.
- A safe installation thanks to the 24 V DC technology.
- Adjustable operation speed and slow-down.
- Electronic obstacle detection.

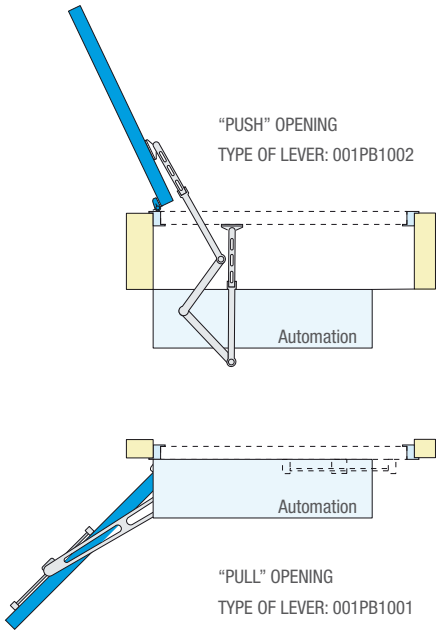
Dimensions (mm)



001PB1100

001PB2100

Application



Limits to use

MODEL	PB1100		
Max door-leaf width (m/in)	1.2/47	1/40	0.8/32
Maximum weight of door leaf (Kg/lb)	150/330	200/440	250/550
MODEL	**PB2100**		
Max door-leaf width (m/in)	1.2 + 1.2/47 + 47	1 + 1/40 + 40	0.8 + 0.8/32 + 32
Maximum weight of door leaf (Kg/lb)	150 + 150/ 330 + 330	200 + 200/ 440 + 440	250 + 250/ 550 + 550

● 24 V DC

NOTE:
MIN LENGTH OF BEAM PROFILE:
with 001PB1001 "PULL" OPENING LEVER = 1300 mm / 51.18 in
with 001PB1002 "PUSH" OPENING 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	-20 ÷ +55/-4 ÷ +131

● 24 V DC

The complete range

Code	Description
	Complete automation with 24 V DC operator
001**PB1100**	Operator for one-leaf swing doors.
001**PB2100**	Operator for two-leaf swing doors (without profile cover).
	Accessories for: 001PB2100
001**PF2100**	Profile cover.
	Accessories
001**PB1001**	Straight transmission-arm for “PULL” opening.
001**PB1002**	Articulated transmission-arm for “PUSH” opening.
001**MA7034**	Antipanic system complete with n.2 12 V - 0.8 Ah batteries.
001**MA7041**	Function selector switch.
	Customised treatment
119**COLOR12**	Extra coating.

NOTE:
119COLOR12 only applicable to: 001PF2100
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials to be coated.

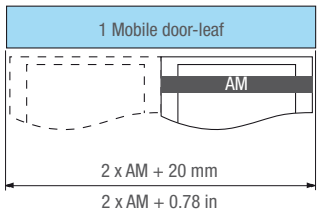
Corsa Rodeo

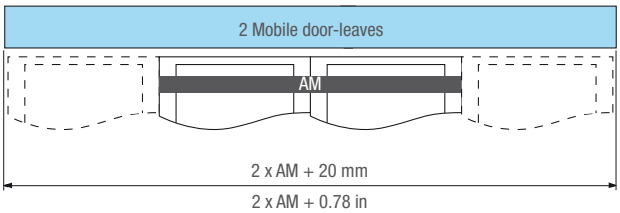
Door leaves of up to 125 Kg / 280 lb

The ideal solution to apply to universal sliding doors

- A safe and reliable solution for regulating pedestrian access flows.
- An easy-to-install operator.
- Ideal for automating sliding doors in large premises such as: hospitals, airports, and public administration facilities.
- A safe installation thanks to the 24 V DC technology.
- Adjustable operation speed and slow-down.
- Electronic obstacle detection.

Dimensions (mm/in)





AM Total width of mobile door-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	**RODEO1**	**RODEO2**
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	RODEO1	RODEO2
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)	5	5	8	8
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 24 V DC

The complete range

Code	Description
	Complete automation with 24 V DC operator
001**CORSA1**	Operator for one-leaf sliding doors of up to 75 Kg / 165 lb.
001**CORSA2**	Operator for two-leaf sliding doors of up to 75 Kg / 165 lb per leaf.
001**RODE01**	Operator for one-leaf sliding doors of up to 125 Kg / 280 lb.
001**RODE02**	Operator for two-leaf sliding doors of up to 125 Kg / 280 + 280 lb per leaf.
	Accessories
001**MA7012**	Electro-blocker complete with pull-cord and release lever.
001**MA7032**	Connecting card for n.2 12 V – 1.2 Ah batteries with support.
001**MA7041**	Function selector switch.

Beam profile section and profile covers (scale 1 : 2 - dimensions in mm/in)

MIN. 20 mm / 0.78 in
space for opening the profile cover

75/2.95

300/11.81

126/4.96

MIN 24 mm / 1 in

TYPE OF PROFILE COVER:
001LC00 - 001LC01 **NORMAL**

HOLES FOR ANCHORING THE BEAM
Ø 8.5 mm 250 mm hole

30

151/5.94

85/3.35

169/6.65

195/7.67

TYPE OF PROFILE COVER:
001LD00 - 001LD01 **WITH HINGES**

692.71

HT

HA

18/0.7

44/1.73

13/0.51

73/2.87

LEAF HEIGHT POSITION
+ / - 6 mm / 0.23 in

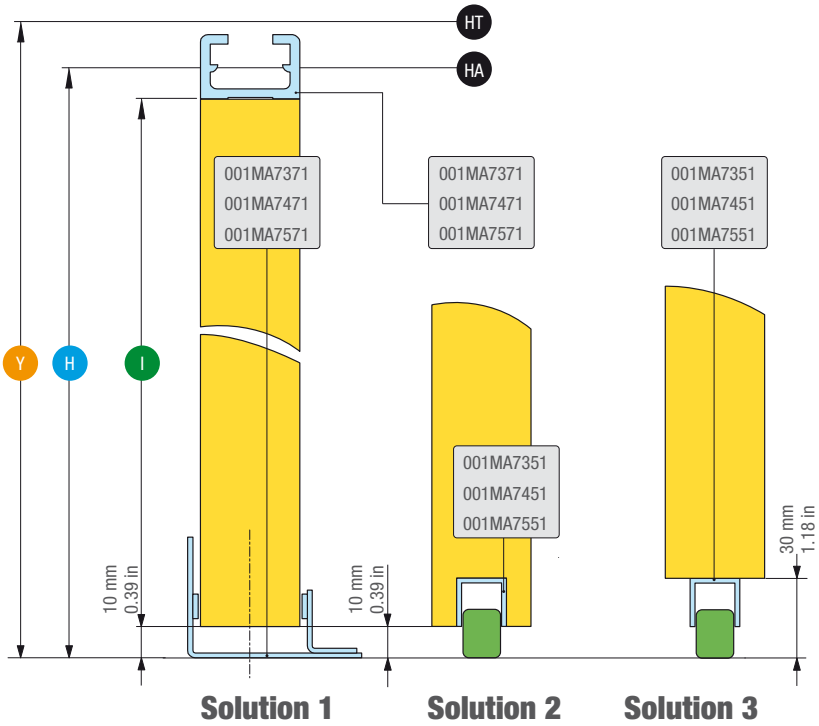
LEAF POSITION ADJUSTMENT
+ / - 6 mm / 0.23 in

Pre-holed beam profile for fixing

The automated customised devices are supplied with a pre-perforated beam profile to be anchored to the lintel or wall.
Set up proper anchoring systems, always using at least 2/3 of the available holes. The holes at the ends and centre must, however, always be used.

Determination of leaf height (no-scale - dimensions in mm/in)

Framed door leaves with series S40 profiles



Solution 1

I = H - 28 mm / 1.10 in

I = Y - 46 mm / 1.81 in

Solution 2

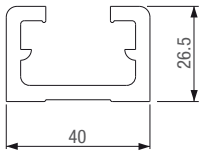
I = H - 28 mm / 1.10 in

I = Y - 46 mm / 1.81 in

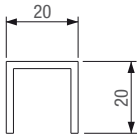
Solution 3

I = H - 48 mm / 1.88 in

I = Y - 66 mm / 2.59 in

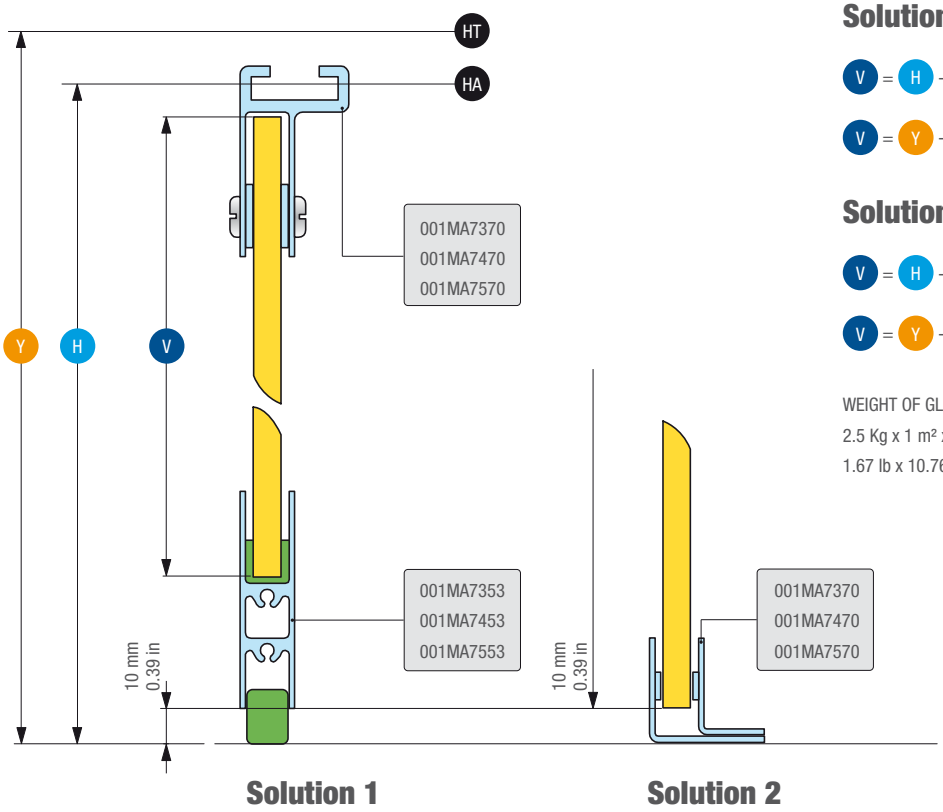


001MAM613
in the items:
001MA7371 - 001MA7471 - 001MA7571



001MAM699
in the items:
001MA7351 - 001MA7451 - 001MA7551

Glass door leaves with series S20 profiles



Solution 1

V = H - 70 mm / 2.75 in

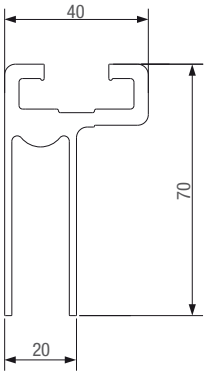
V = Y - 88 mm / 3.46 in

Solution 2

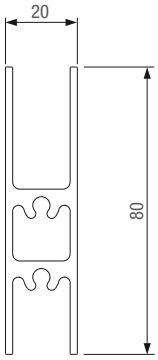
V = H - 22 mm / 0.86 in

V = Y - 40 mm / 1.57 in

WEIGHT OF GLASS
2.5 Kg x 1 m² x 1 mm thick
1.67 lb x 10.76 ft² x 0.039 in thick



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



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

Y = Height from floor for fixing the profile to the beam

H = Height from floor of lintel

V = Height of glass with S20 profiles

I = Height of framed leaf with S40 profiles

The complete range

Code	Description
	Aluminium support and profile cover.
001**PLCD**	Beam profile and slide-guide.
001**LC00**	Natural anodysed profile cover.
001**LC01**	Non-finish profile cover.
001**LD00**	Natural anodysed extra-size profile cover.
001**LD01**	Non-finish extra-size profile cover.
	Accessories for: 001LC00
001**LTC**	Package of n. 2 natural grey varnished caps for profile cover.
	Accessories for: 001LC01
001**LTCG**	Package of n. 2 non-finish caps for profile cover.
	Accessories for: 001LD00 and 001LD01
001**LTD**	Package of n. 2 caps with hinges for profile cover.
	Customised treatments
119**COLOR2**	Extra coating.
119**COLOR3**	Extra coating.

NOTE:
119COLOR2 only applicable to: 001LC00 - 001LC01 - 001LD00 - 001LD01
119COLOR3 Only applicable to: 001LTCG
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

The complete range

Code	Description
	Upper attaching profile for framed door-leaves, with brackets for anchoring to outer castors plus ground guide-sleds.
001**MA7371**	Complete kit for two door leaves of up to 500 mm / 19.68 in in width or one door leaf of up to 1000 mm / 39.37 in in witdth.
001**MA7471**	Complete kit for two door leaves of up to 750 mm / 29.52 in in width or one door leaf of up to 1500 mm / 59.05 in in width.
001**MA7571**	Complete kit for two door leaves of up to 1000 mm / 39.37 in in width or one door leaf of up to 2000 mm / 78.74 in in width.
	Lower guide profile for framed door-leaves with inner ground guide-sleds.
001**MA7351**	Complete kit for two door leaves of up to 500 mm / 19.68 in in width or one door leaf of up to 1000 mm / 39.37 in in witdth.
001**MA7451**	Complete kit for two door leaves of up to 750 mm / 29.52 in in width or one door leaf of up to 1500 mm / 59.05 in in width.
001**MA7551**	Complete kit for two door leaves of up to 1000 mm / 39.37 in in width or one door leaf of up to 2000 mm / 78.74 in in width.
	Upper attaching profile for 10 mm-thick tempered glass door leaves, with brackets for anchoring to outer castors plus ground guide-sleds.
001**MA7370**	Complete kit for two door leaves of up to 500 mm / 19.68 in in width or one door leaf of up to 1000 mm / 39.37 in in witdth.
001**MA7470**	Complete kit for two door leaves of up to 750 mm / 29.52 in in width or one door leaf of up to 1500 mm / 59.05 in in width.
001**MA7570**	Complete kit for two door leaves of up to 1000 mm / 39.37 in in width or one door leaf of up to 2000 mm / 78.74 in in width.
	Lower guide profile for 10 mm-thick tempered glass door leaves, with inner ground guide-sleds.
001**MA7353**	Complete kit for two door leaves of up to 500 mm / 19.68 in in width or one door leaf of up to 1000 mm / 39.37 in in witdth.
001**MA7453**	Complete kit for two door leaves of up to 750 mm / 29.52 in in width or one door leaf of up to 1500 mm / 59.05 in in width.
001**MA7553**	Complete kit for two door leaves of up to 1000 mm / 39.37 in in width or one door leaf of up to2000 mm / 78.74 in in width.
	Rubber gaskets for 10 mm / 0.39 in-thick tempered glass (30 m / 98.42 ft packages)
001**MAM601**	Black side gasket for fixed and sliding door leaves.
001**MAM601T**	Transparent side 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.
	Customised treatment
119**COLOR4**	Extra coating.

NOTE:
119COLOR4 Only applicable to: 001MA7371 - 001MA7471 - 001MA7571 - 001MA7370 - 001MA7470 - 001MA7570 - 001MA7353 - 001MA7453 - 001MA7553.
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

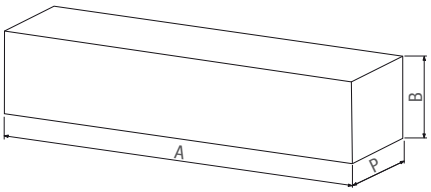
Accessories

For automatic doors

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

- Exclusive, distinguished style
- Releasing with customised key.
- One single opening and closing endstops adjustment when the automation is being installed.
- Simplified connection operations with one single three- or four-conductor cable.
- SELF-DIAGNOSING safety devices.
- Tested according to applicable rules and regulations.

Dimensions



Limits to use

MODEL	RANGE (m/ft)	MAX INSTALLATION HEIGHT (m/ft)
MF9011 - MF9111	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

Dimensions (mm / in)

MODEL	A x B x P
MF9011 - MF9111	-
MR8334 - MR8370 - MR8390	340 - 700 - 900 x 43,5 x 47,5 / 13.38 - 27.55 - 35.43 x 1.71 x 1.84
MR8003	221 x 63 x 29,9 / 8.70 x 2.48 x 1.17
MR8104 - MR8106 - MR8107	120 x 80 x 50 / 4.72 - 3.14 - 1.96
MR8105	120 x 80 x 50 / 4.72 - 3.14 - 1.96
MR8202	262 x 55 x 44 / 10.31 - 2.16 - 1.73
MS9502	84 x 84 x 14 / 3.30 x 3.30 x 0.55
MR8401	177 x 50 x 45 / 6.96 x 1,96 x 1.77

● 12 - 24 V DC

Technical features

Type	MF9011 - MF9111	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 AC - DC	12 AC - DC	12 AC - DC
Current draw (mA)	AC 125 MAX - DC 40 MAX	60 MAX	160 MAX (12 V)
Intervetion time	25 ms	< 50 ms	< 0.3 S
Recovery time	200 ms	-	0.5 S
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 12 - 24 V DC

Technical features

Type	MR8104 - MR8105 - MR8106 - MR8107	MR8202	MR8401	MS9502
Contact type and range	1 A (resistive load)	NC - 42 V AC - DC (resistive load)	1 A (a 30 V AC - DC)	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	-
Intervetion time (s)	0.5 ÷ 9 (ADJUSTABLE)	< 0.5	-	0.5
Recovery time	-	-	-	-
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 12 - 24 V DC

The complete range

CAME

Code	Description
	Micro-photocells
001**MF9011**	Pair of flush-mounted, 24 V AC- DC infrared beam micro-photocells, with 7 m / 22.96 ft range, complete with shielded cable.
001**MF9111**	Double pair of flush-mounted, 24 V AC- DC infrared beam micro-photocells, with 7 m / 22.96 ft range, complete with shielded cable.
	Infrared safety radar with anti-masking.
001**MR8334**	Safety radar *L = 340 mm / 13.38 in with anti-masking function12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
001**MR8370**	Safety radar *L = 700 mm 27.55 in with anti-masking function 12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
001**MR8390**	Safety radar *L = 900 mm /35.43 in with anti-masking function 12 - 24 V AC - DC. Maximum application height = 2.5 m / 8.2 ft - Detection beam diameter at 2 m / 6.56 ft = 0.13 m / 0.42 ft - Maximum detection depth = 0.53 m / 1.73 ft - Detection span adjustable from 0.7 to 2.5 m / 2.29 to 8.2 ft.
	Active infrared radar
001**MR8003**	Radar with adjustable field 12 – 24 V AC – DC. Maximum application height = 3 m / 9.84 ft Detection area: depth of field = 0.41 – 1.77 m / 16.14 – 69.68 in, length of field 3.1 m / 10.17 ft.
	Bidirectional radar for motion and presence detection
001**MR8202**	Radar with adjustable field 12 – 24 V AC – Dc. Maximum application height from 1.8 m to 4 m / 5.9 to 13.12 ft: Motion detection: -Detection mode: movement – bidirectional -Technology: hyper-frequency and microprocessor -Detection area: depth of field = 2 m / 6.56 ft - width of field 4 m / 13.12 ft. -Angle: from +15° to +50° in elevation (adjustable) Presence detection: -Detection mode: presence -Technology: focalised active infrared -Detection area: depth of field 0.35 m / 1.14 ft – width of field 2 m / 6,56 ft. -Angle: From -4° to +4° (adjustable)
	Digital movement radar
001**MR8401**	12 – 24 V AC- DC digital movement radar with adjustable field. Applicable height 2.3 – 4.6 m / 7.54 – 15.09 ft - Detection field: of up to 06 - 2.4 m / 1.96 - 7.87 ft.





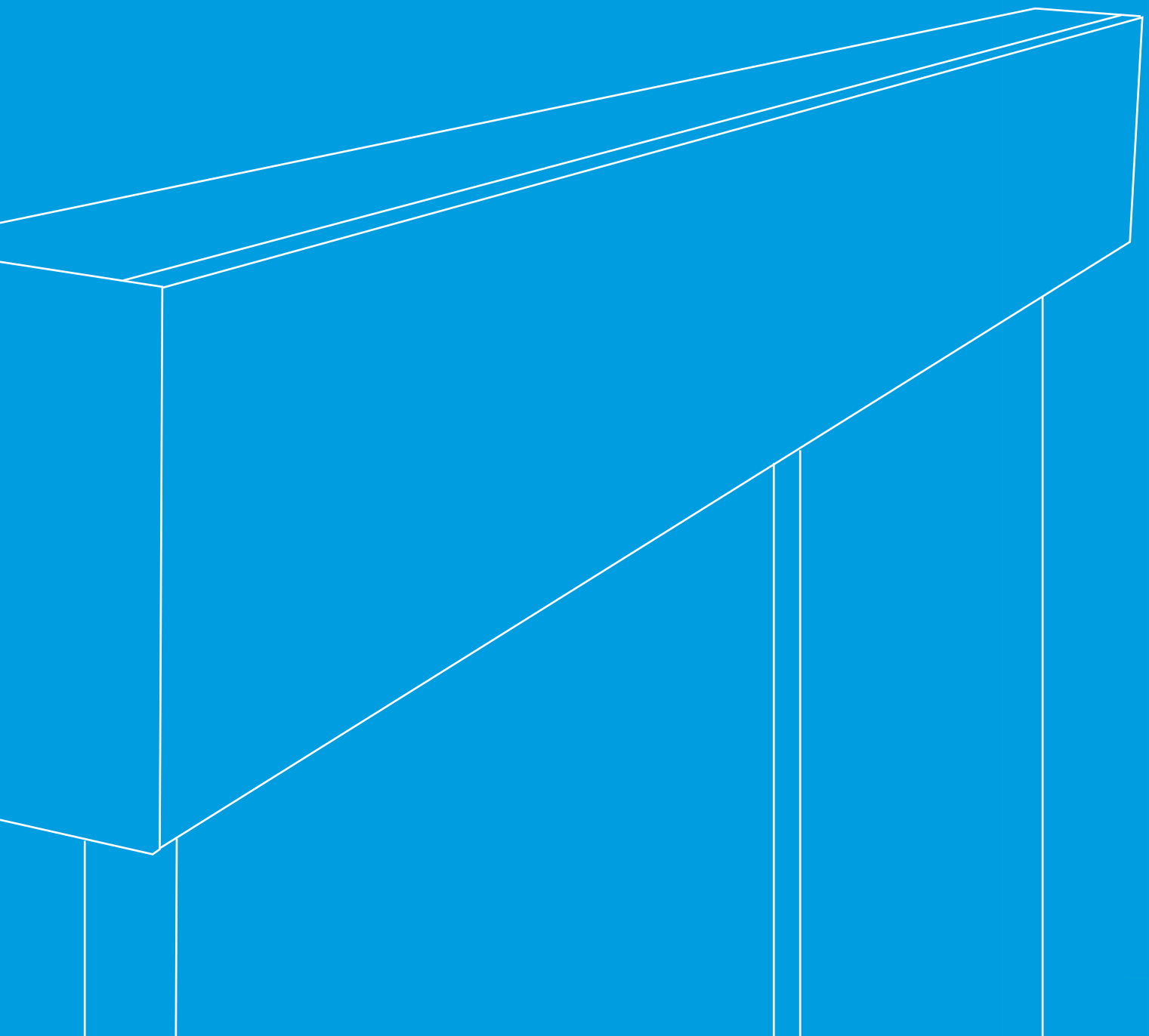

The complete range

Code	Description
	Volumetric microwave radars
001**MR8104**	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height = 4 m / 13.12 ft - Detection area equal to: - BROAD ANTENNA depth of field = 2 m / 6.56 ft and length of field 4 m / 13.12 ft - NARROW ANTENNA depth of field = 2.5 m / 8.20 ft and length of field 2 m / 6.56 ft Setting via 001MRT001 remote control.
001**MR8105**	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height = 5 m / 16.40 ft - Detection area equal to: depth of field = 2.5 m / 8.20 ft and width of field 4 m / 13.12 ft. Setting via 001MRT001 remote control.
001**MR8106**	Mono-directional - bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height 4 m / 13.12 ft - Detection area equal to: - BROAD ANTENNA depth of field = 2 m / 6.56 ft and length of field 4 m / 13.12 ft - NARROW ANTENNA depth of field = 2.5 m / 8.20 ft and length of field 2 m / 6.56 ft (in unidirectional mode it activates when with any approaching movement). Setting via 001MRT001 remote control.
001**MR8107**	Bi-directional volumetric microwave radar 12 – 24 V AC – DC. Maximum application height 4 m / 13.12 ft - Detection area equal to: - Depth of field = 2 m / 6.56 ft and width of field 4 m / 13.12 ft - Depth of field 2.5 m / 8.20 ft and width of field 2 m / 6.56 ft Manual setting.
	Accessories for: 001MR8104 - 001MR8105 - 001MR8106
001**MRT001**	Remote control for volumetric microwave radars.
	Accessories for: 001MR8104 - 001MR8105 - 001MR8106 - 001MR8107
001**MRWPC**	Rain-shield box for volumetric microwave radars.
	Touch sensors
001**MS9502**	12 - 24 V AC – DC microwave reflecting, volumetric touch sensor. Field of detection from 0.1 to 0.5 m / 3.93 to 19.68 in.
	Sensitive pads
001**MP8030**	Sensitive floor pad 800 x 300 mm / 31.46 x 11.81 in.
001**MP8060**	Sensitive floor pad 800 x 600 mm/ 31.46 x 23.62 in.





CAME



Mi

The anti-panic push-to-open function for Rodeo sliding doors

Emergency device for profiles in case of blackouts

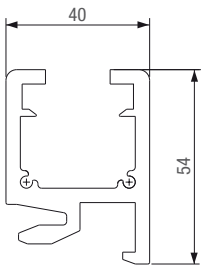
- For sliding doors, for those emergency opening situations.
- Can be perfectly integrated into the Came series S40 door profiles.
- Ground sliding rail-guide: allows door leaf to rotate and open during emergencies.
- Guaranteed safety by the special profiles that prevent opening from the outside.
- The anti-panic system can be applied either to mobile or fixed door leaves.

WARNING:
For door-leaves wider than 1100 mm and up to 1500 mm it is mandatory to mount the accessory wheel supplied in the packaging.
In such cases the max mobile door-leaf weight is indicated in the LIMITS TO USE table.
On door-leaves less than 1100 mm width, the mounting of the wheel allows to get best performance of the automation device.
The proper functioning of the wheel depends also on the type of floor finishing.

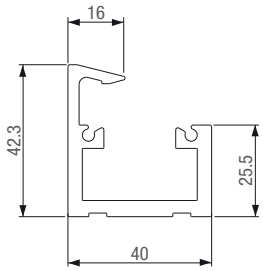
Limits to use

MODEL	MAX DOOR-LEAF/LEAVES WIDTH (M)/E (mm/in)	MOBILE LEAVES - FIXED LEAVES
MI6010	1100/43.30	YES - NO
MI6110	1500/59.05	YES - NO
MI6020	1100 + 1100/ 43.30 + 43.30	YES - NO
MI6120	1500 + 1500/ 59.05 + 59.05	YES - NO
MI6030	1100/ 59.05	YES - YES
MI6130	1500/ 59.05	YES - YES
MI6040	1100 + 1100/ 43.30 + 43.30	YES - YES
MI6140	1500 + 1500/ 59.05 + 59.05	YES - YES

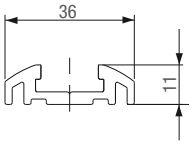
MAX DOOR-LEAF WIDTH (mm/in)	MAX DOOR-LEAF WEIGHT (Kg/lb)
TYPE OF AUTOMATION	RODEO AUTOMATION
500/19.68	120/264.55
600923.62	90/198.41
700/27.55	80/176.36
800/31.49	70/154.32
900/35.43	60/132.27
1000/39.37	50/110.23
1100/43.30	40/88.18



001MAM339
Mi series

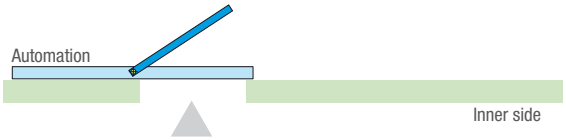


001MAM338
Mi series

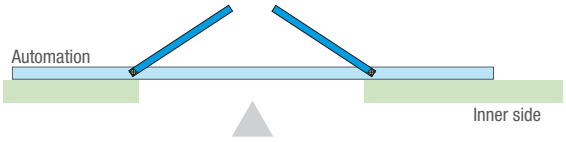


001MAM911
Mi series

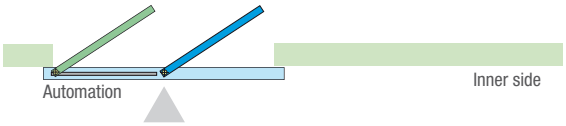
Application



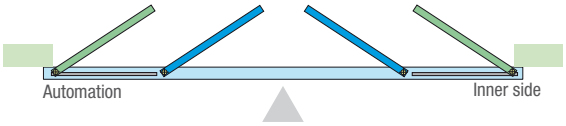
MI6010 - MI6110
1 MOBILE DOOR-LEAF



MI6020 - MI6120
2 MOBILE LEAVES



MI6030 - MI6130
1 MOBILE LEAF + 1 FIXED LEAF



MI6040 - MI6140
2 MOBILE LEAVES + 2 FIXED LEAVES

The complete range

Code	Description
	Complete push-to-open antipanic systems for sliding doors with S40 profiles
001**MI6010**	Complete system for one mobile door leaf with max width of 1100 mm / 43.30 in.
001**MI6110**	Complete system for one mobile door leaf with max width of 1500 mm / 59.05 in.
001**MI6020**	Complete system for two mobile and two fixed door leaves with max width 1100 + 1100 mm / 43.30 + 43.30 in.
001**MI6120**	Complete system for two mobile door leaves with max width of 1500 + 1500 mm / 59.05 + 59.05 in.
001**MI6030**	Complete system for one mobile and one fixed door leaves with max width of 1100 mm / 43.30 in.
001**MI6130**	Complete system for one mobile and one fixed door leaves with max width of 1500 mm / 59.05 in.
001**MI6040**	Complete system for two mobile and two fixed door leaves with max width 1100 + 1100 mm / 43.30 + 43.30 in.
001**MI6140**	Complete system for two mobile and two fixed door leaves with max width of 1500 + 1500 mm / 59.05 + 59.05 in.
	Customised treatments
119**COLOR8**	Extra coating.
119**COLOR9**	Extra coating.
119**COLOR10**	Extra coating.
119**COLOR11**	Extra coating.

NOTE:
119COLOR8 only applicable to: 001MI6010 - 001MI6030
119COLOR9 Only applicable to: 001MI6110 - 001MI6130
119COLOR10 only applicable to: 001MI6020 - 001MI6040
119COLOR11 only applicable to: 001MI6120 - 001MI6140
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

S20

Glass door-leaf profiles

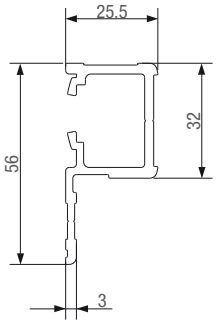
Stands for lots of light and great aesthetics

- Sturdy, elegant and easy to assemble.
- For glass door leaves from 4 mm to 15 mm / 0.16 to 0.59 thick.
- Ideal to couple with Came Corsa and Rodeo operators.
- Comes with a complete and broad range of dedicated accessories for assembly.

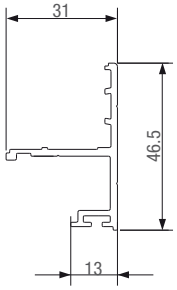
Profile material and weight

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

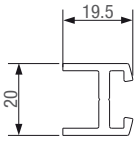
Dimensions (mm)



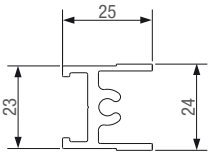
001MAL204



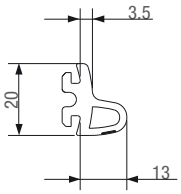
001MAL790



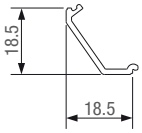
001MAL199



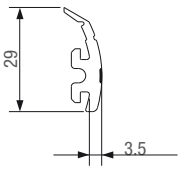
001MAL200



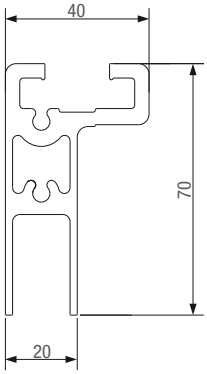
001MAL202



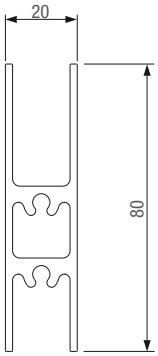
001MAL791



001MAL201



001MAL203



001MAM612

The complete range

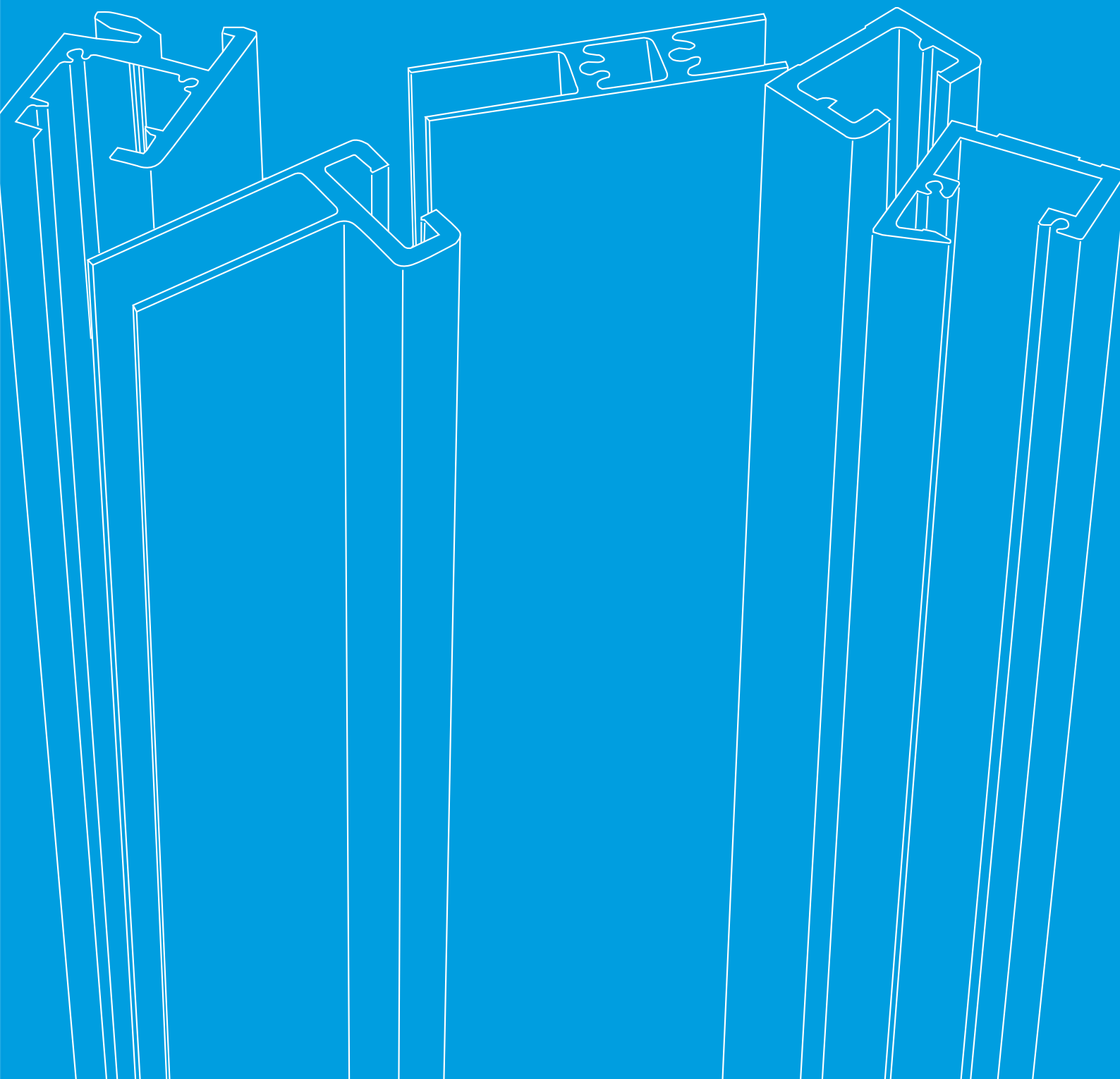
Code	Description
	Aluminium profiles for 4 mm to 16 mm / 0.16to 0.59 in thick glass door leaves (standard supplied length L = 5 m / 16.40 ft)
001**MAL199**	Natural anodised vertical post for fixed and mobile door leaves.
001**MAL199G**	Non-finish vertical post for fixed and mobile door leaves.
001**MAL200**	Natural anodised wall-anchoring profile for fixed door leaves.
001**MAL200G**	Non-finish wall-anchoring profile for fixed door leaves.
001**MAL203**	Natural anodised upper anchoring crosspiece.
001**MAL203G**	Non-finish upper anchoring crosspiece.
001**MAL204**	Natural anodised vertical profile for photocell housing and door post for one door leaf.
001**MAL204G**	Non-finish vertical profile for photocell housing and post for one door leaf.
001**MAM612**	Natural anodised lower guide profile.
001**MAM612G**	Non-finish lower guide profile.
001**MAL790**	Natural anodised reduced profile for photocell housing.
001**MAL790G**	Non-finish reduced profile for photocell housing.

The complete range

Code	Description
	Plastic containment profiles (30 m / 98.42 ft packages)
001**MAL201**	Lateral gasket for fixed and mobile door leaves.
001**MAL202**	Central gasket for fixed and mobile door leaves.
	Plastic containment profiles for: 001MAL790 (30 m / 98.42 ft packages)
001**MAL791**	Closing profile (n. 10 pieces of 3 m / 9.84 ft each).
	Mounting accessories
001**MAF001**	Assembly kit for one fixed door leaf.
001**MAM001**	Assembly kit for one mobile door leaf with sliding sled.
	Filler gaskets (30 m / 98.42 ft packages)
009**P3**	Filler gasket for glass 3 mm / 0.118 in thick.
009**P4**	Filler gasket for glass 4 mm / 0.157 in thick.
009**P5**	Filler gasket for glass 5 mm / 0.196 in thick.
009**P6**	Filler gasket for glass 6 mm / 0.236 in thick.
009**P7**	Filler gasket for glass 7 mm / 0.275 in thick.
	Customised treatments
119**COLOR4**	Extra coating.

NOTE:
119COLOR4 Only applicable to: 001MAL199G - 001MAL200G - 001MAL203G - 001MAL204G - 001MAM612G - 001MAL790G.
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

CAME



S40

Profiles for framed door leaves

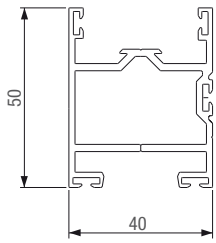
Aluminium profiles for building door frames

- A line of profiles for framed door leaves that require high levels of sturdiness.
- Comes with a complete and broad range of dedicated accessories for assembly.
- Designed for those intensive use doors, such as those found in shopping malls, public offices and hospitals.
- They can complement anti-panic push-to-open systems of the Mi series.

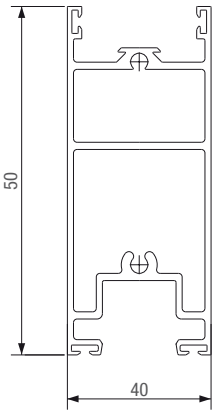
Profile material and weight

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

Dimensions (mm)



001MAL226



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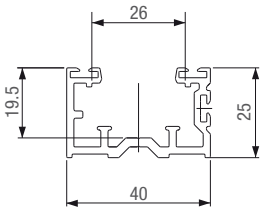

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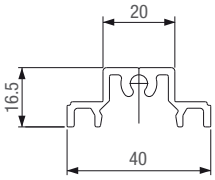

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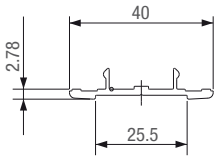

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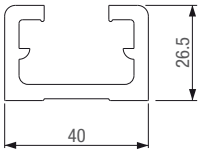

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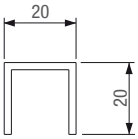

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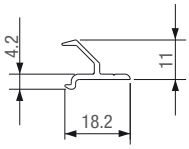

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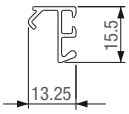

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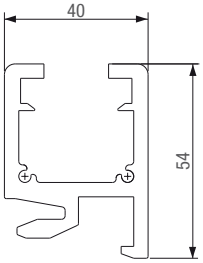

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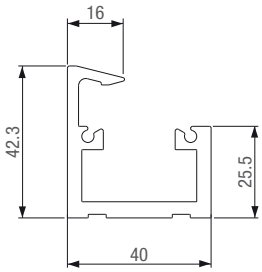

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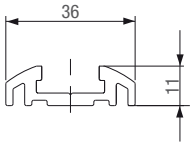
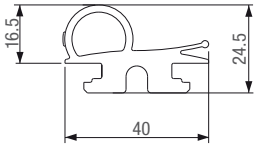


001MAM911



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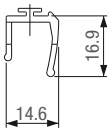


001MAL223

The complete range

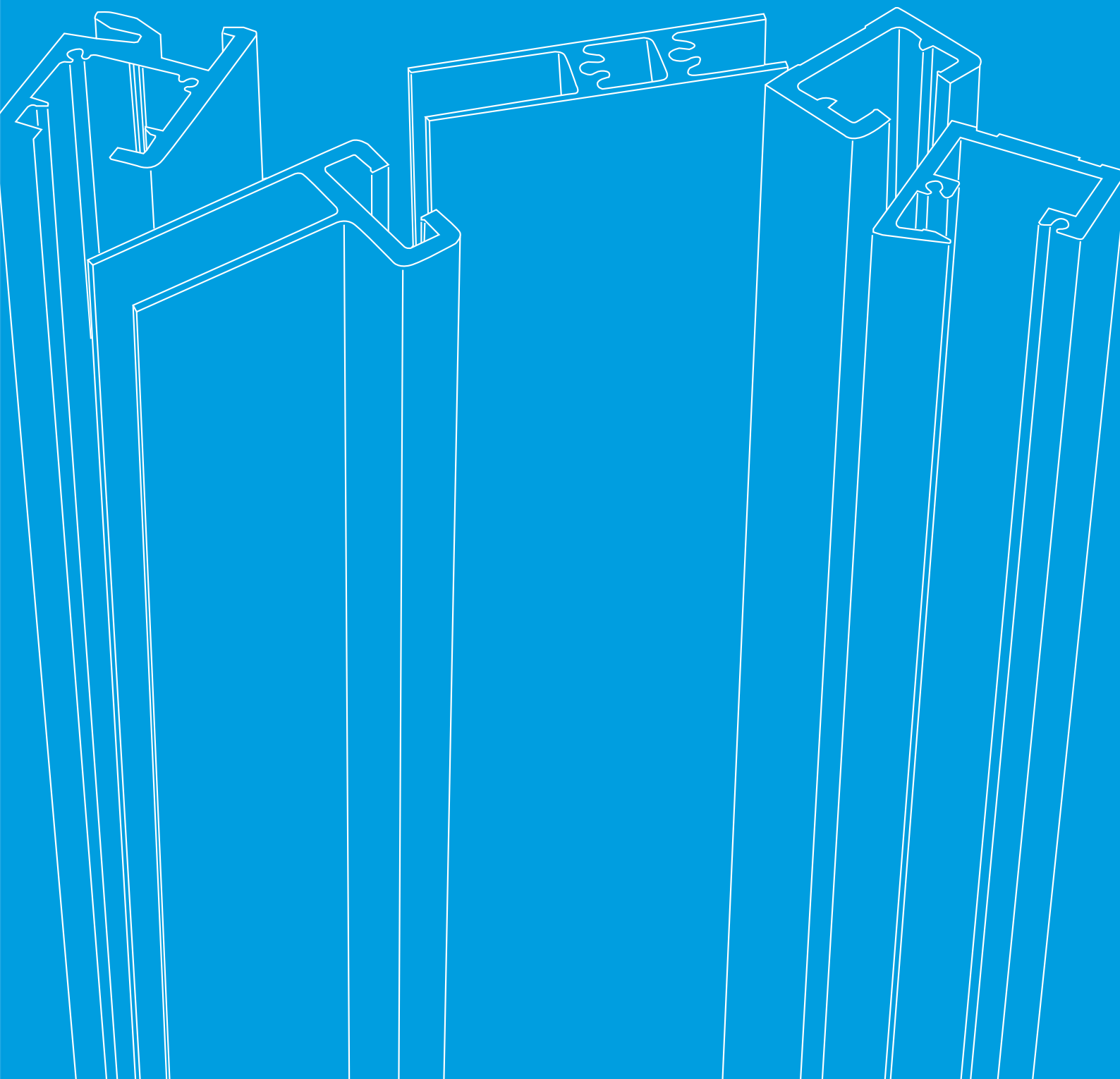
Code	Description
	Aluminium profiles for framed 4 to 30 mm / 0.6 to 0.18 in-thick glass door leaves (standard supplied length L = 5 m / 16.40 ft)
001**MAM613**	Natural anodised upper attaching profile for framed door leaves.
001**MAM613G**	Non-finish upper attaching profile for framed door leaves.
001**MAM699**	Natural anodised lower guide for framed door leaves.
001**MAM699G**	Non-finish lower guide for profile door leaves.
001**MAL225**	Natural anodised wall-anchoring profile for fixed door leaves.
001**MAL225G**	Non-finish wall-anchoring profile for fixed door leaves.
001**MAL226**	Natural anodised vertical post and upper attaching crosspiece for fixed and mobile door leaves.
001**MAL226G**	Non-finish vertical post and upper attaching crosspiece for fixed and mobile door leaves.
001**MAL227**	Natural anodised lower slide-guide profile.
001**MAL227G**	Non-finish lower slide-guide profile.
001**MAL228**	Natural anodised flush floor profile for blocking and lining up fixed door leaves.
001**MAL228G**	Non-finish flush floor profile for blocking and lining up fixed door leaves.
001**MAL229**	Natural anodised door leaf blocking profile for anti-panic push-to-open systems.
001**MAL229G**	Non-finish door leaf blocking profile for anti-panic push-to-open systems.
001**MAL230**	Natural anodised vertical profile photocells for housing and leaf end-point.
001**MAL230G**	Non-finish vertical profile photocells for housing and leaf end-point.
	Accessories for: 001MAL226 - 001MAL227
001**MAL231**	Natural anodised glass-holding profile.
	Accessories for: 001MAL226G - 001MAL227G
001**MAL231G**	Non-finish glass-holding profile.

The complete range

Code	Description
	Mounting accessories
001**MAF002**	Door-leaf to profile attaching bracket.
001**MAF003**	Upper and lower angled brackets for attaching fixed door leaves.
001**MAM002**	Cover for mobile door leaves fitted with anti-panic and push-to-open systems.
001**MAM003**	Package of accessories for attaching mobile door leaf and slide sled.
001**MAMF01**	Complete nuts and bolts package for door leaf assembly.
001**MAMF02**	Angled adjusting bracket for one door leaf.
001**MAMF03**	Angled profile-bracket
	Filler gaskets (30 m / 98.42 ft packages)
009**P3**	Filler gasket for glass 3 mm / 0.118 in thick.
009**P4**	Filler gasket for glass 4 mm / 0.157 in thick.
009**P5**	Filler gasket for glass 5 mm / 0.196 in thick.
009**P6**	Filler gasket for glass 6 mm / 0.236 in thick.
009**P7**	Filler gasket for glass 7 mm / 0.275 in thick.
	Plastic containment profiles (30 m / 98.42 ft packages)
001**MAL223**	Multiuse gasket (package of n. 10 pieces of 3 m / 9.84 ft each).
001**MAL224**	Central gasket for mobile door leaves (package of n. 10 pieces of 3 m / 9.84 ft each).
	Customised treatment
119**COLOR4**	Extra coating.

NOTE:
Only applicable to: 001MAM613G - 001MAM699 - 001MAL225G - 001MAL226G - 001MAL227G - 001MAL228G - 001MAL229G - 001MAL230G - 001MAL231G.
Customer requests for custom paint coatings are delivered at least 30 working days from receipt of order.
Paint coats are based on glossy or matt RAL colours.
WARNING: the cost for oxidation coats is calculated considering the amount of materials that needs to be coated.

CAME



FURINI

The product line dedicated to access control !

Furini is the Came Group company dedicated to controlling and selecting pedestrian access flows.

A very broad range of technical solutions, all engineered and built to be functional, dependable and modular, to manage pedestrian traffic flows in high-intensity passages, such as:

- Public and private entities
- Small and medium-size enterprises
- Railway and maritime stations
- Urban and suburban metro-stations
- Sports facilities, stadiums, arenas and gyms
- Shopping malls and large distribution centres
- Hotels, inns and tourist sector facilities

Furini turnstiles, which integrate with access control devices, represent the optimal solution when setting up any customised system !

Automation for:
PARKING FACILITIES ACCESS CONTROL AND TURNSTILES

Index

CAME

Your selection guide

Parking facilities, turnstiles and access control

The tables summarise both series and models showing their maximum limits to use based on the max number of parking spaces or users.

Series	Model	
	Parking spaces available	
Ps	BARCODE	10,000
	TOKEN	10,000
	EASY	Unlimited - 500 with the 001RBM21 - 5,500 with the 001RBM84

● 230 V AC

Series	Model	
	Max number of users	
RBM21	RBM21	500
RBM84	RBM84	5,500

● 230 V AC

Parking facilities, turnstiles and access control

FLOOR-LEVEL parking facilities

Pay-to-park facilities, manned or entirely automated high-rotation exchangers,
The Ps systems let you manage occasional users by issuing a “BARCODE” heading or "Recyclable transponder" as well as prepaid registered users in debit or timed mode by using the one transponder card.
Series: Ps

INDOOR parking facilities

Parking in multilevel or underground structure, with counter and notification of free spaces.
The Ps systems can provide either manned management by one or more manual cash register stations, or completely automated management thanks to the dedicated automatic cash registers.
Also combined manual and automated management is possible.
Series: Ps

Access control with cards FOR SMALL USERS VOLUMES

Ideal for limited members management such as gyms, clubs, etc.
Series: Rbm21

Access control with cards and/or transmitters FOR LARGE USERS VOLUMES

Hospitals, shopping malls, business centres.
Series: Rbm84

Keychain transponder!

Came’s transponder keychain brings you all of the potential of a transponder card, along with the comfort of always having the access device handy.
The 009PCT keychain provides the same features of a card, but with more resistance and ease-of-use.

European Regulations

A standard installation compliant with European Regulations

Installation:
IN PUBLIC AREA

The system is installed in a public area or bordering with a public area.
Example: a pay-to-park facility with entrance/exit on street or sidewalk.

Type of user:
UNTRAINED

The system is activated by untrained users.

Type of command used:
AUTOMATIC COMMAND

The command goes through motion detector devices that are activated when users pass through.

The solutions for system safety:
INFRARED BEAM PHOTOCELLS

Came road barriers are designed to fit photocells directly onto the barrier cabinet.
For installation in automatic parking facilities there are the 001SMA - 001SMA2 - 001SMA220 magnetic metal mass detectors available.

The “stand alone” sensor.

The 001TSP01 is the stand-alone operating sensor for transponder cards.
This sensor can be coupled with 250 001TST01 transponder cards or 009PCT keychains or 009TAG bulbs
(it is also possible to mix-match devices totalling max. 250).
Easy to use, every card or keychain have a different code which is added to the sensor directly via cards, keychains or master bulbs.

Simplified parking

The products

A Barrier

K 001PS5000 automatic cash register of the Ps Easy series.

V Loop-detector sensor

NOTE:

- For safety devices, see road barrier section

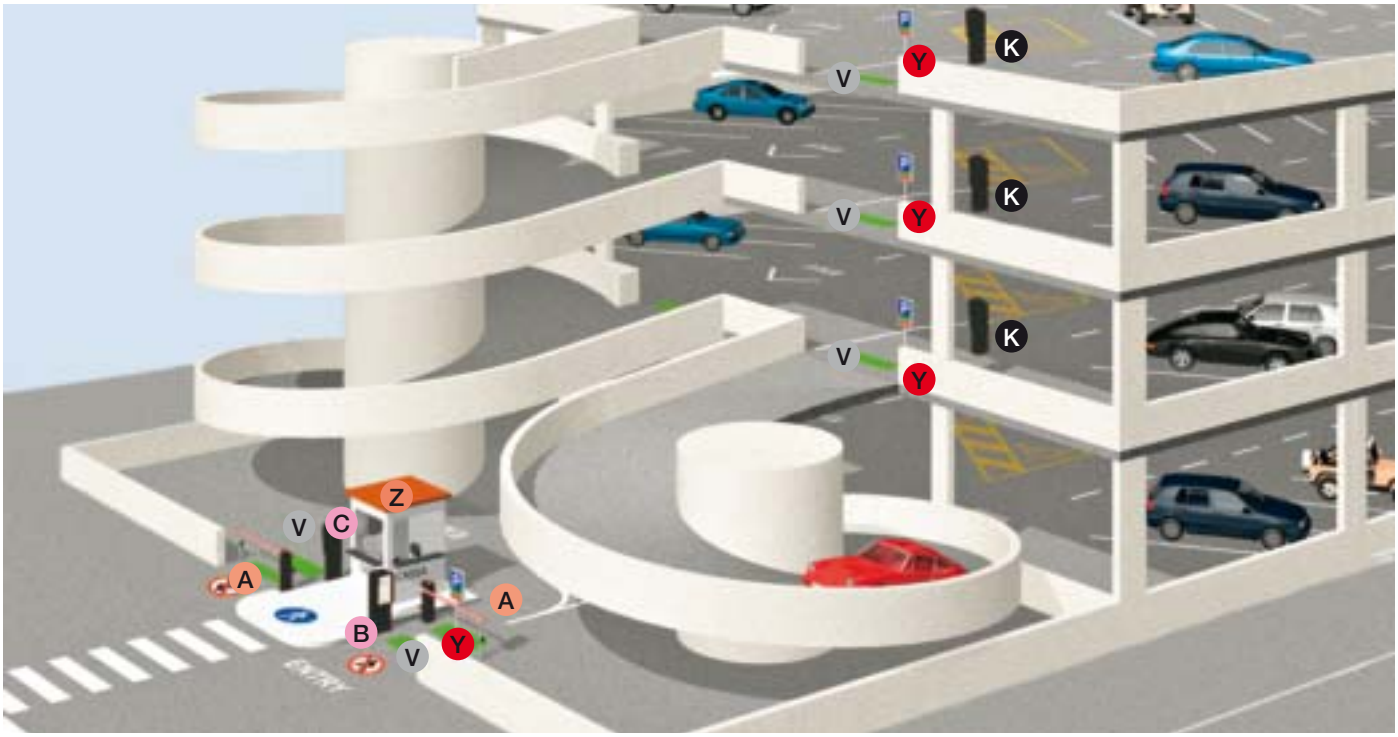
To coupling with access control system see Rbm84.

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
Powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14
Endstop microswitches	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14
TX photocells	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20
RX photocells	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20
Command devices	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product mounting instructions - **Warning**: The cable section is merely for example purposes as it varies depending on the power of the motor and length of the cable.

Multi-level parking



The products

- A Barriers
- K Automatic cash register unit
- V Loop-detector sensor
- B Entrance unit
- C Exit unit
- Y Lightbox signs and traffic lights
- Z Manual cash register station

NOTE:
- For safety devices, see road barrier section.

This type of system merely shows the main components. Every project must be carefully evaluated according to specifications and peculiar structure requirements.

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
Powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14
Endstop microswitches	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14
TX photocells	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20
RX photocells	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20
Command devices	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product mounting instructions - **Warning**: The cable section is merely for example purposes as it varies depending on the power of the motor and length of the cable.

Simplified access control

The products

- A Main entrance sensor
- B Warehouse entrance sensor
- C Reception/Office entrance sensor
- D Laboratory entrance sensor

NOTE:
For safety devices, see specific section for type of automated door.

This type of system merely shows the main components. Every project must be carefully evaluated according to specifications and peculiar structure requirements.
The 001RBM21or 001RBM84 access control unit may be placed anywhere on-site, depending on the max distances allowed by the combined sensors.

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
Powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14	3G x 1.5 mm² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14	2G x 1.5 mm² / AWG14
Endstop microswitches	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16	2 x 1 mm² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14	2 x 1.5 mm² / AWG14
TX photocells	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20	2 x 0.5 mm² / AWG20
RX photocells	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20	4 x 0.5 mm² / AWG20
Command devices	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20	*n° x 0.5 mm² / AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product mounting instructions - **Warning**: The cable section is merely for example purposes as it varies depending on the power of the motor and length of the cable.

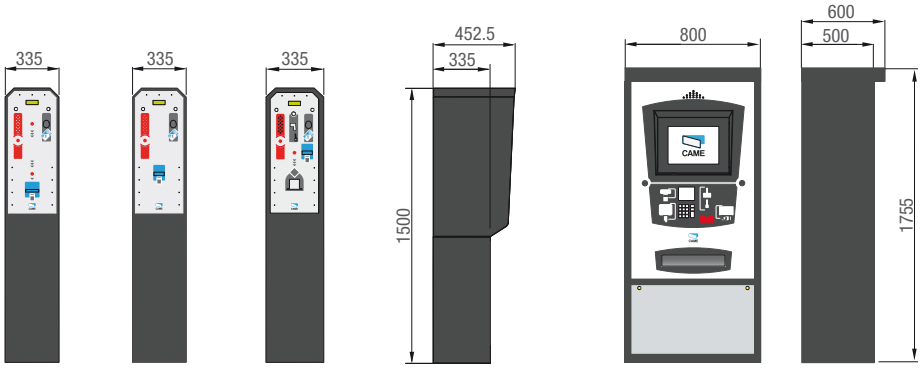
Ps Barcode

Ticket-issuing automatic parking facilities

The barcode solution for managing occasional and registered users

- The system can be customised according to your needs.
- Provides management cost reduction and greater system profitability.
- Lets you establish business relationships with both public and private entities.
- Offers maximum modularity and service efficiency.
- FANFOLD ISO standard pre-cut barcode ticket for occasional users.

Dimensions (mm)



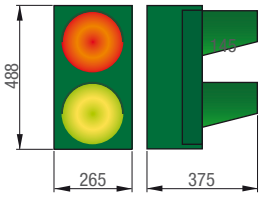
001PSE3000 001PSU3000 001PSC3000 PSC7001

Technical features

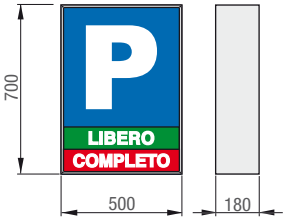
Type	IP	Model	Dimensions (B x H x P mm/in)	Power supply (V)	Material / Colour	Draw MAX	Power draw when idle	MAX power
PSC3000	40	Automatic cash register	335 x 1500 x 452.5 / 13.18 x 59.05 x 17.81	230 AC 50/60 Hz	Steel / code 053 0837	*190 mA (AC)	125 mA (AC)	*44 W
PSE3000	44	Entrance unit	295 x 1500 x 452.5 / 11.61 x 59.05 x 17.81	230 AC 50/60 Hz	Steel / code 053 0837	*200 mA (AC)	95 mA (AC)	*46 W
PSU3000	44	Exit unit	295 x 1500 x 452.5 / 11.61 x 59.05 x 17.81	230 AC 50/60 Hz	Steel / code 053 0837	*110 mA (AC)	98 mA (AC)	*26 W
PSM3000	-	Manned control unit	-	230 AC 50/60 Hz	-	-	-	-
PSC7001	40	Automatic cash register	800 x 1755 x 600 / 31.49 x 69.09 x 23.62	230 AC 50/60 Hz	Steel / code 053 0837	400 mA (AC)	360 mA (AC)	92 W
PC50	20	Interface PC	185 x 130 x 55 / 7.28 x 5.11 x 2.16	-	ABS	-	150 mA (AC)	-
PSI16	-	Control auxiliary cash registers	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	35 mA (AC)	-
PSIO1	-	Auxiliary device control	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	60 mA (AC)	-
PSC3	-	Auxiliary cash register	185 x 130 x 55 / 7.28 x 5.11 x 2.16	-	ABS	-	195 mA (AC)	-
PSD1	-	Display	145 x 185 x 40 / 5.70 x 7.28 x 1.57	-	ABS	-	150 mA (AC)	-
RBMP1	-	Electronic control unit	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	35 mA (AC)	-
PSSRV	55	RED / GREEN traffic light	265 x 200 X 500 / 10.43 X 7.87 X 19.68	-	Steel - Polymethacrylate	-	-	-
PSINS	44	FREE FULL sign	445 x 1500 x 452.5 / 117.51 x 59.05 x 17.81	-	Steel - Polymethacrylate	-	-	-
TST01	-	transponder	ISO7810-7813 (85 x 54 mm / 3.46 x 2.12 in)	-	-	-	-	-
PCT	-	Keychain transponder	33 x 49 x 4 / 1.29 x 1.92 x 0.15	-	ABS	-	-	-
TAG	-	Transponder bulb	-	-	Glass	-	-	-

With heating unit active, the coil absorbs an additional 500 mA and requires another 90 W of power. PSC7000 credit card reader excluded

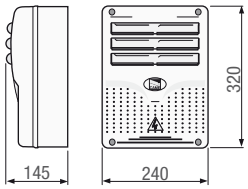
Dimensions (mm)



001PSSRV

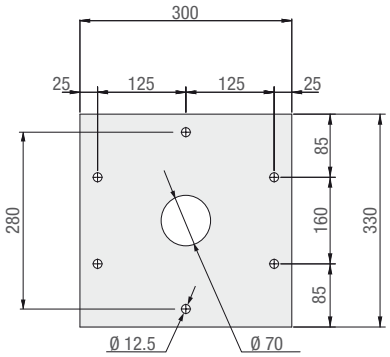


001PSINS

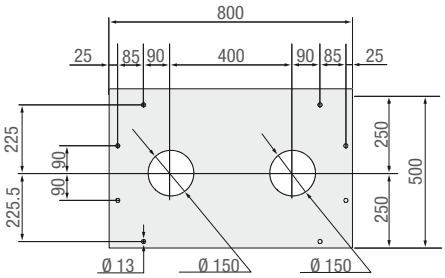


001PSM3000 - 002PSIO1 - 001PSI16

Application (mm)



LOWER FASTENING BASE FOR:
PSE3000 - PSU3000 - PSC3000



LOWER FASTENING BASE FOR:
PSC7001

The automatic cash register with TOUCH SCREEN

001PSC7001 is the new automatic antibreak-in 'touch screen' steel cash register.
Payment is made by coins and banknotes.
Registered users can directly and automatically recharge their card at the automatic cashier.

The functions

- **Multi-language menu** with 6 language choices.
- **Coin and banknote reader** programmable based on the currency of the country where installed.
- **BARCODE ticket reader.**
- **Notification during payment operations:** amount reached - missing - change.
- **SMS-based diagnosis** with real time checking of system status (optional).
- **Designed to take interphone** connection with help call button.
- **Membership management with transponder cards** with possibility of automatically recharging registered users cards directly at the automatic cash register.
- **Advertising or service-based** notices available for customers.

The auxiliary cash register 001PSC3

A special unit to manage several validation or toll payment stations, even without a PC.
It is very useful at supermarket cash registers or in all cases where a business manager wishes to award faithful customer with a bonus on their parking fee.

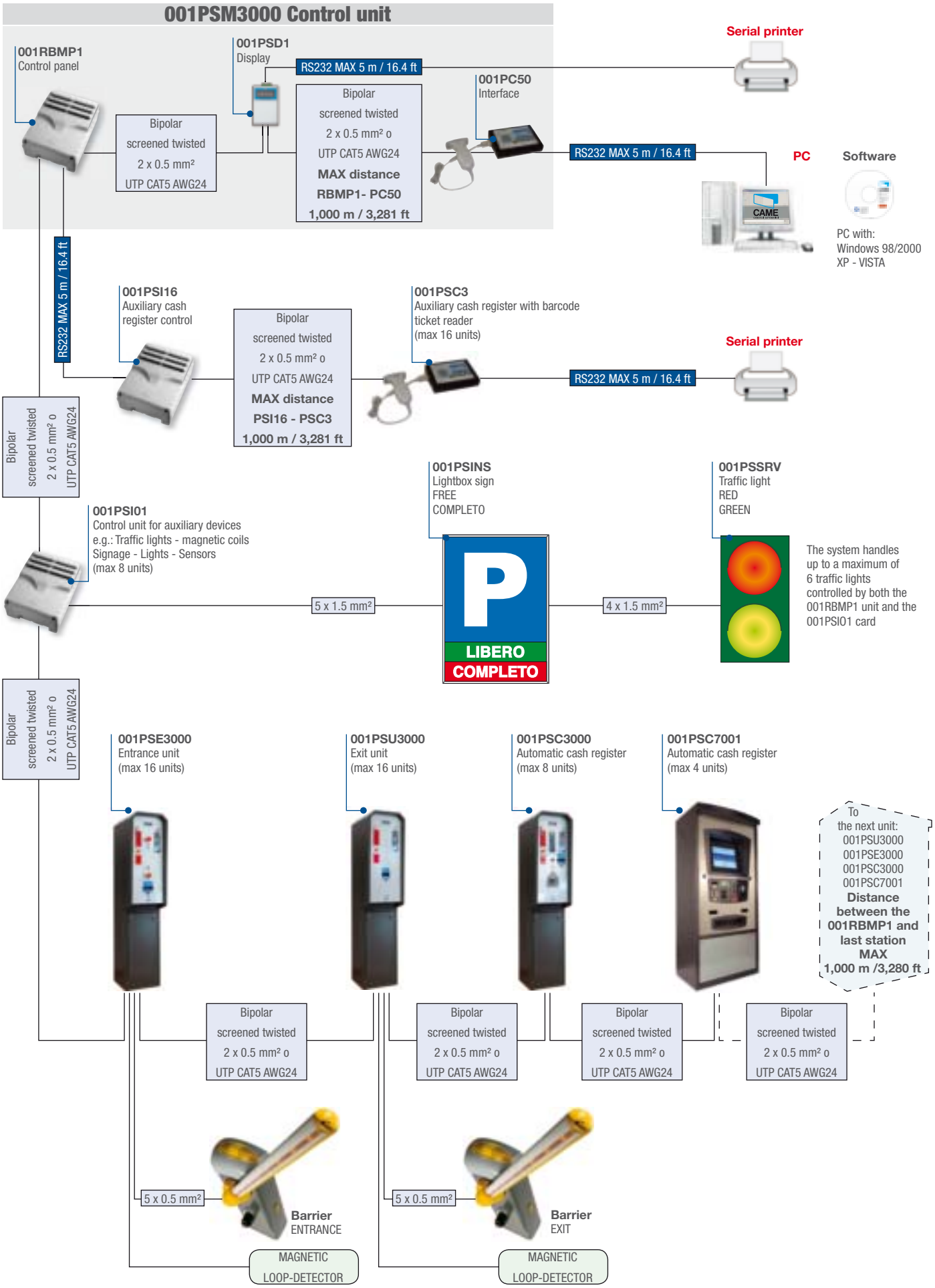
The complete range

CAME

Code	Description
	230 V AC automatic parking system
001**PSE3000**	Entrance unit made of varnished and galvanised steel, complete with transponder sensor, ticket dispenser and display showing remaining credit.
001**PSU3000**	Exit unit made of varnished and galvanised steel, complete with transponder sensor, ticket dispenser and display showing remaining credit.
001**PSC3000**	Automatic cash register made of varnished galvanised steel, complete with card and transponder sensor plus display (does not give change but prints receipt).
001**PSC7001**	Automatic cash register with varnished galvanised cabinet, satin finish AISI 304 stainless steel panel, complete with PC, coin and banknote reader - with change return device.
001**PSM3000**	Manned cash register complete with electronic control station, management software, dispay and PC50 interface for connecting to PC.
002**PSI01**	Control unit for auxiliary devices management such as traffic lights, lightbox signs, magnetic sensors and safety sensors (max 8 outputs).
001**PSC3**	Auxiliary manual cash register with barcode ticket reader. (Together with the PSI16 lets you realise a pay station without a stable connection to a PC).
001**PSI16**	Interface to connect up to 16 auxiliary manual cashiers.
001**PSTICKET2A**	Package of n. 2,000 pre-cut standard FANFOLD ISO type tickets.
	Accessories for transponder sensor
001**TST01**	ISO 7810 -7813 format transponder card.
009**PCT**	Keychain transponder.
009**TAG**	Glass transponder bulb.
	24 V AC - DC magnetic sensors
009**SMA**	24 V AC - DC one-channel magnetic loop-detector sensor.
009**SMA2**	24 V AC - DC bi-channel magnetic loop-detector sensor.
	230 V AC magnetic sensors
009**SMA220**	230 V AC bi-channel magnetic loop-detector sensor.
	Warning accessories
001**PSINS**	Two sided lightbox sign “FREE” - "FULL".
001**PSSRV**	Traffic light with red and green lights in two separate modules, dimensions 265 x 200 x 500 mm / 10.43 X 7.87 X 19.68 in, made of ABS plastic with Ø 200 mm / 7.87 in polymethacrylate lamp screen and IP55 protection rating.

NOTE
001PSSRV maximum power for each lamp is 70 W powered by 230 V AC, complete with rain guard for each module (size of the rain guard is Ø 220 mm / 8.66 in L = 200 mm / 7.87 in.)
The lamps ARE NOT INCLUDED.

Connection diagram



● NOT SUPPLIED

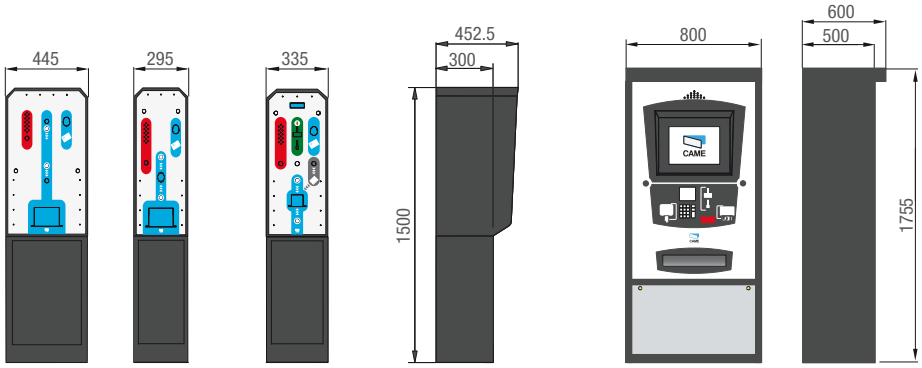
Ps Token

Transponder token parking facilities

The coin-operated solution for managing occasional users with toll

- Parking facility management system with transponder token, easy to use.
- Ideal for managing occasional users.
- Can also manage registered users via transponder cards.
- Ps Token is a modular and flexible system, the right answer to complex multi-level or multi-floor installations, with various entrance and exit points.

Dimensions (mm)



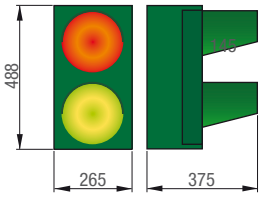
001PSE4000 001PSU4000 001PSC4000 PSC6001

Technical features

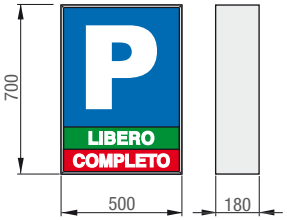
Type	IP	Model	Dimensions (B x H x P mm/in)	Power supply (V)	Material / Colour	MAX draw	Power draw when idle	MAX power
PSC4000	40	Automatic cash register	335 x 1500 x 452.5 / 13.18 x 59.05 x 17.81	230 AC 50/60 Hz	RAL 1028 / Steel	*200 mA (AC)	125 mA (AC)	*46 W
PSE4000	44	Entrance unit	295 x 1500 x 452.5 / 11.61 x 59.05 x 17.81	230 AC 50/60 Hz	RAL 1028 / Steel	*180 mA (AC)	98 mA (AC)	*42 W
PSU4000	44	Exit unit	295 x 1500 x 452.5 / 11.61 x 59.05 x 17.81	230 AC 50/60 Hz	RAL 1028 / Steel	*235 mA (AC)	72 mA (AC)	*55 W
PSM4000	-	Control unit	-	230 AC 50/60 Hz	-	-	-	-
PSC6001	40	Automatic cash register	800 x 1755 x 600 / 31.49 x 69.09 x 23.62	230 AC 50/60 Hz	Steel / code 053 0837	400 mA (AC)	360 mA (AC)	92 W
PC30	20	Interface PC	185 x 130 x 55 / 7.28 x 5.11 x 2.16	-	ABS	-	175 mA (AC)	-
PSI16	-	Control auxiliary cash registers	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	35 mA (AC)	-
PSIO1	-	Auxiliary device control	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	60 mA (AC)	-
PSC1	-	Auxiliary cash register	185 x 130 x 55 / 7.28 x 5.11 x 2.16	-	ABS	-	195 mA (AC)	-
PSD1	-	Display	145 x 185 x 40 / 5.70 x 7.28 x 1.57	-	ABS	-	150 mA (AC)	-
RBMP1	-	Electronic control unit	320 x 240 x 145 / 12.59 x 9.44 x 5.70	-	ABS	-	35 mA (AC)	-
PSSRV	55	RED / GREEN traffic light	-	-	Steel - Polymethacrylate	-	-	-
PSINS	44	FREE FULL sign	445 x 1500 x 452.5 / 117.51 x 59.05 x 17.81	-	Steel - Polymethacrylate	-	-	-
TST01	-	Transponder card	ISO7810-7813 (85 x 54 mm / 3.46 x 2.12 in)	-	-	-	-	-
PCT	-	Keychain transponder	33 x 49 x 4 / 1.29 x 1.92 x 0.15	-	ABS	-	-	-
TAG	-	Transponder bulb	-	-	Glass	-	-	-
GET	-	Transponder token	Ø 30 / 1.18	-	ABS	-	-	-

With heating unit active, the coil absorbs an additional 500 mA and requires another 90 W of power. PSC6000 credit card reader excluded

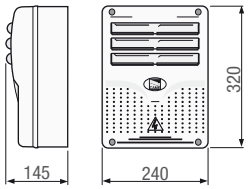
Dimensions (mm)



001PSSRV

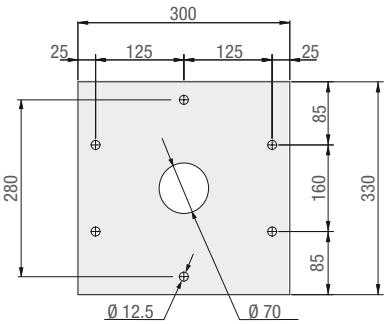


001PSINS

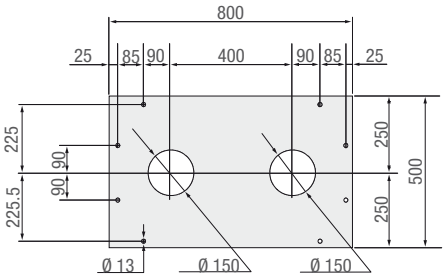


001PSM4000 - 002PSIO1 - 001PSI16

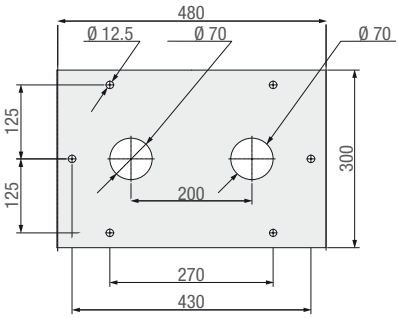
Application (mm)



LOWER FASTENING BASE FOR:
PSU4000 - PSC4000



LOWER FASTENING BASE FOR:
PSC6001



LOWER FASTENING BASE FOR:
PSE4000

The automatic cash register with TOUCH SCREEN

001PSC6001 is the new automatic antibreak-in 'touch screen' steel cash register.
Payment is made by coins and banknotes.
Memberships can directly and automatically recharge their card at the automatic cashier.

The functions

- **Multi-language menu** with 6 language choices.
- **Coin and banknote reader** programmable according to the country currency where installed.
- **Notification during payment operations:** amount reached - missing - change.
- **SMS-based diagnosis** with real time checking system of system status (optional).
- **Designed to take interphone connection** with HELP call button.
- **Management of registered users with transponder cards** which can automatically recharge memberships at the automatic cash register.
- **Advertising or service-related messages** available for customers.

The auxiliary cash register 001PSC1

A special unit to realise several validation or toll payment stations, even without a PC.
It is very useful at supermarket cash registers or in all cases where a business manager wishes to award repeat customers with complementary or partially complementary parking.

The complete range

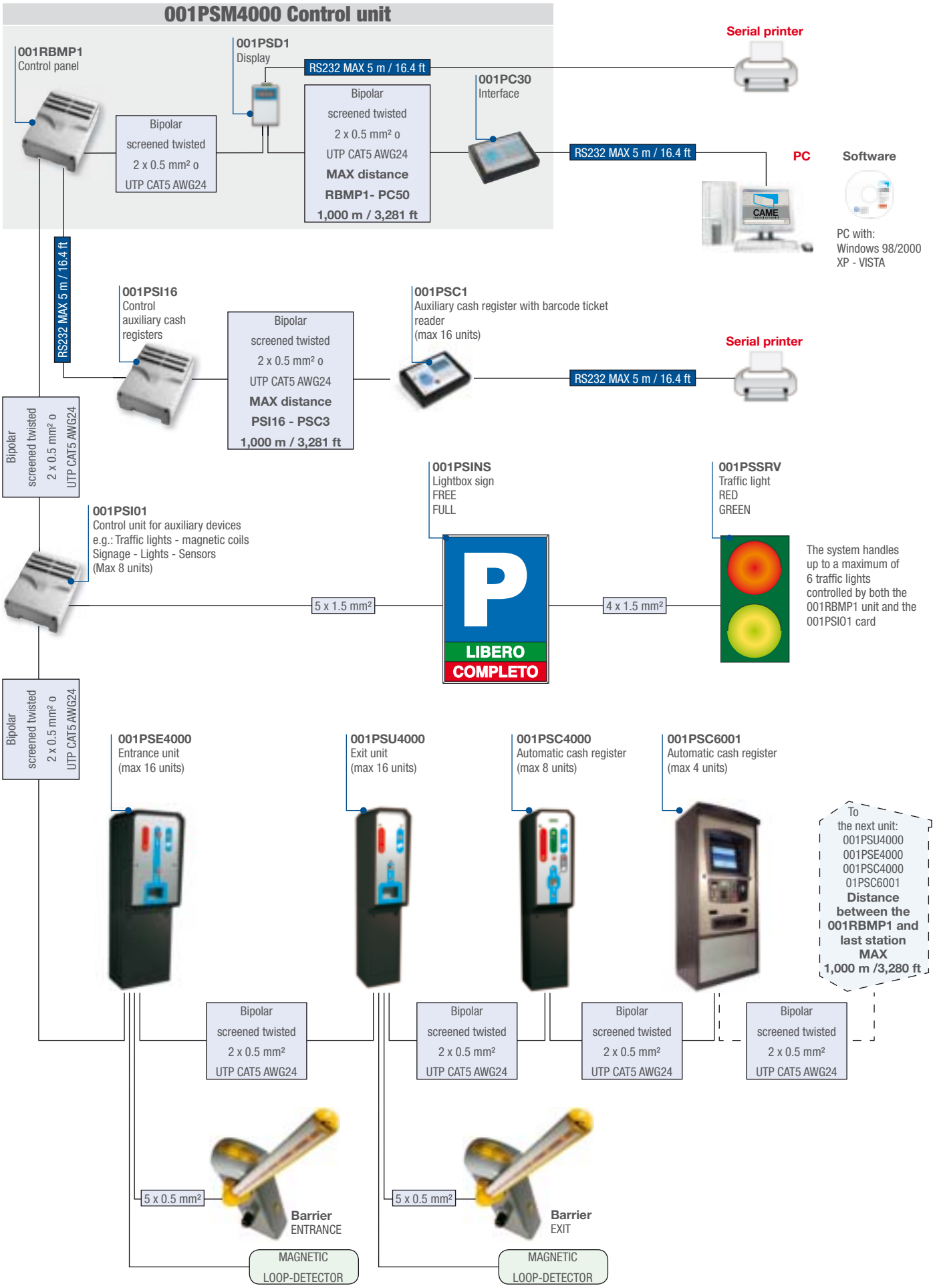
CAME

Code	Description
	230 V AC automatic parking system
001**PSE4000**	Entrance unit made of varnished galvanised steel, complete with transponder keychain, card sensor and token dispenser.
001**PSU4000**	Exit unit made of varnished galvanised steel, complete with transponder keychain, card sensor and token collector.
001**PSC4000**	Automatic cash register made of varnished, galvanised steel, complete with card and transponder, with coin toll, token reader and display. (Does not give change but prints receipts).
001**PSC6001**	Automatic cash register with varnished galvanised cabinet, satin finish AISI 304 stainless steel panel, complet with PC, coin and banknote reader with coin change return device.
001**PSM4000**	Manned cashier register complete with control station, management software, display and interface to connect to PC30.
002**PSIO1**	Control unit for auxiliary devices management such as traffic lights, lightbox signs, magnetic sensors and safety sensors (max 8 outputs).
001**PSC1**	Auxiliary manual cash register. (Together with the PSI16 lets you realise a pay station without a stable connection to a PC).
001**PSI16**	Interface for connecting up to 16 manual cash register units.
009**GET**	Transponder token.
	Accessories for transponder sensor
001**TST01**	ISO 7810 -7813 format transponder card.
009**PCT**	Transponder keychain.
009**TAG**	Glass transponder bulb.
	24 V AC - DC magnetic sensors
009**SMA**	24 V AC - DC one-channel magnetic loop-detector sensor.
009**SMA2**	24 V AC - DC bi-channel magnetic loop-detector sensor.
	230 V AC magnetic sensors
009**SMA220**	230 V AC bi-channel magnetic loop-detector sensor.
	Warning accessories
001**PSINS**	Two sided lightbox sign “FREE” - “FULL”.
001**PSSRV**	Traffic light with red and green lights in two separate modules, dimensions 265 x 200 x 500 mm / 10.43 X 7.87 X 19.68 in, made of ABS plastic with Ø 200 mm / 7.87 in polymethacrylate lamp screen and IP55 protection rating.

NOTE
001PSSRV maximum power for each lamp is 70 W powered by 230 V AC, complete with rain guard for each module (size of the rain guard is Ø 220 mm / 8.66 in L = 200 mm / 7.87 in.)
The lamps ARE NOT INCLUDED.

Connection diagram

CAME



● NOT SUPPLIED

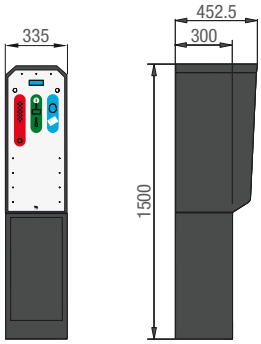
PS Easy

Simplified automatic parking facilities

The ideal solution for managing users with coin toll

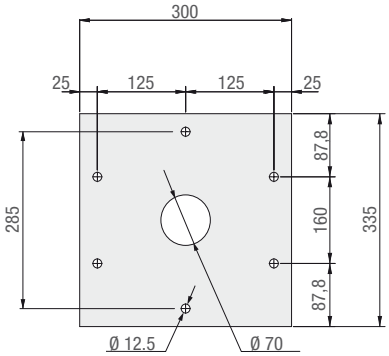
- A practical and safe solution for managing small rest areas.
- Easy to install, it works only with coins and does not give change.
- Coupled with the Rbm21 or Rbm84 access control system, it allows you to manage registered parkers or residents.
- A fixed-rate toll system which is programmable by the staff operating the system.
- Simple and convenient to completely manage parking.

Dimensions (mm)

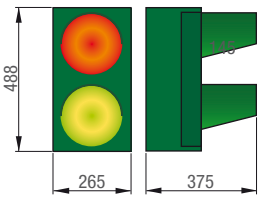


001PS5000

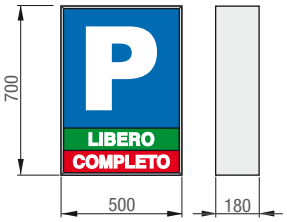
Application (mm)



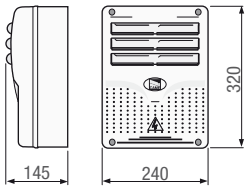
LOWER FASTENING BASE FOR:
PS5000



001PSSRV



001PSINS



001RBM84

Technical features

Type	IP	Model	Dimensions (B x H x P mm/in)	Power supply (V)	Material / Colour	MAX draw	22,889 mm	MAX power
PSC5000	54	Automatic cash register	335 x 1500 x 452.5 / 13.18 x 59.05 x 17.81	230 AC 50/60 Hz	Steel / code 053 0837	*100 mA (AC)	-	-
PSSRV	55	RED / GREEN traffic light	-	-	Steel - Polymethacrylate	-	-	-
PSINS	44	FREE / FULL lightbox sign	445 x 1500 x 452.5 / 117.51 x 59.05 x 17.81	-	Steel - Polymethacrylate	-	-	-
TST01	-	transponder	ISO7810-7813 (85 x 54 mm)	-	-	-	-	-
PCT	-	Keychain transponder	33 x 49 x 4 / 1.29 x 1.92 x 0.15	-	ABS	-	-	-
TAG	-	Transponder bulb	-	-	Glass	-	-	-

When heating unit is active, the coil absorbs an additional 600 mA

The complete range

Code	Description
	230 V AC automatic parking system
001**PS5000**	Galvanised and varnished steel cash register, complete with coin-pay system and display (showing fixed parking rate - does not give change).
	24 V AC - DC magnetic sensors
009**SMA**	24 V AC - DC one-channel magnetic loop-detector sensor.
009**SMA2**	24 V AC - DC bi-channel magnetic loop-detector sensor.
	230 V AC magnetic sensors
009**SMA220**	230 V AC bi-channel magnetic loop-detector sensor.

NOTE
To set up parking management services, the 001PS5000 parking system must be coupled with the 001RBM84 access control system.

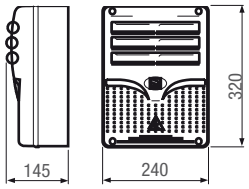
Rbm21

Access control for up to 500 users

The ideal solution for managing pedestrian or vehicle transit with or without toll

- Ideal for managing membership services at gyms, sports centres and small parking facilities.
- It comes with its own dedicated software and works with transponder and magnetic band cards.
- Private parking managed by the RBM21 is complete with the addition of the 001PSSRV and 001PSINS traffic light and lightbox sign respectively.
- An on-board sensor makes it possible to load cards directly into the system control board. This ensures perfect functioning even in stand-alone mode.

Dimensions (mm)



Limits to use

MODEL	RBM21
Max number of users	500
Dedicated software	YES
Used without PC	YES (PARTIAL)
Type of PC connection	RS232 - RS485
Max distance between the RBM21 and the PC	PC40 (RS232) PC40)
Max number of connectable sensors	2 inputs + 2 outputs (or 2 inputs/outputs)
Relay outputs for commanding the automation	2 (N.O. - C.)
Connecting to the traffic light or lightbox sign	1 (N.O. - N.C.)
Auxiliary memory card	YES
On-board selection display	YES
Total number of magnetic coil connections	2
On-board sensor	YES (Only for transponder cards)

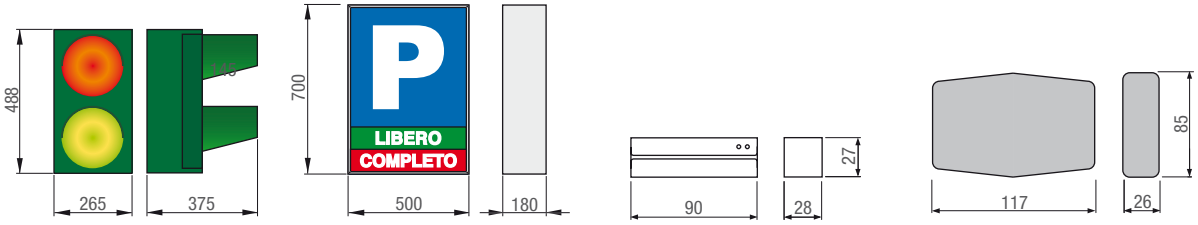
● 230 V AC

Technical features

Type	RBM21	PC40	TSP00	LT001
IP protection rating	IP54	IP20	IP54	-
Power supply (V)	230 AC (50/60 Hz)	12 AC (power source)	from R700	from R700
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 230 V AC

Dimensions (mm)



001PSSRV 001PSINS 001LT001 001PC40

Access control STAND ALONE

Thanks to an on-board sensor for inputing transponder cards into the control board **RBM21** can function and configure the installation even without PC.

The software for the RBM21

The graphics program of the dedicated software is clear, easy to understand and use, runs on Windows and needs no particular hardware to work.
Can be configured to individual system requirements and can memorise cards and parameters for each user. It also debits user credit at entrances, even with different values, that can be customised at each single sensor.
If needed, opening can be commanded directly via PC.

The functions

- **Prepaid at entrances:** users of this service are debited to their cards which work in credit mode. The user scale a credit from the card at every use.
  Credits must be assigned at the time the card is added to the system and each sensor may be associated with a different value.
- **Prepaid time mode:** users of this service are debited to their cards depending on the time spent with the managed facility.
- **Card blocking:** cards can be blocked at any time.
- **User addition:** a new card can be added at any time.
- **Antipassback:** this function prevents simultaneous entrance of users using the same card.
- **Timed antipassback:** this function blocks cards for a set amount of time. Cards are normally cleared upon exit, with this function.

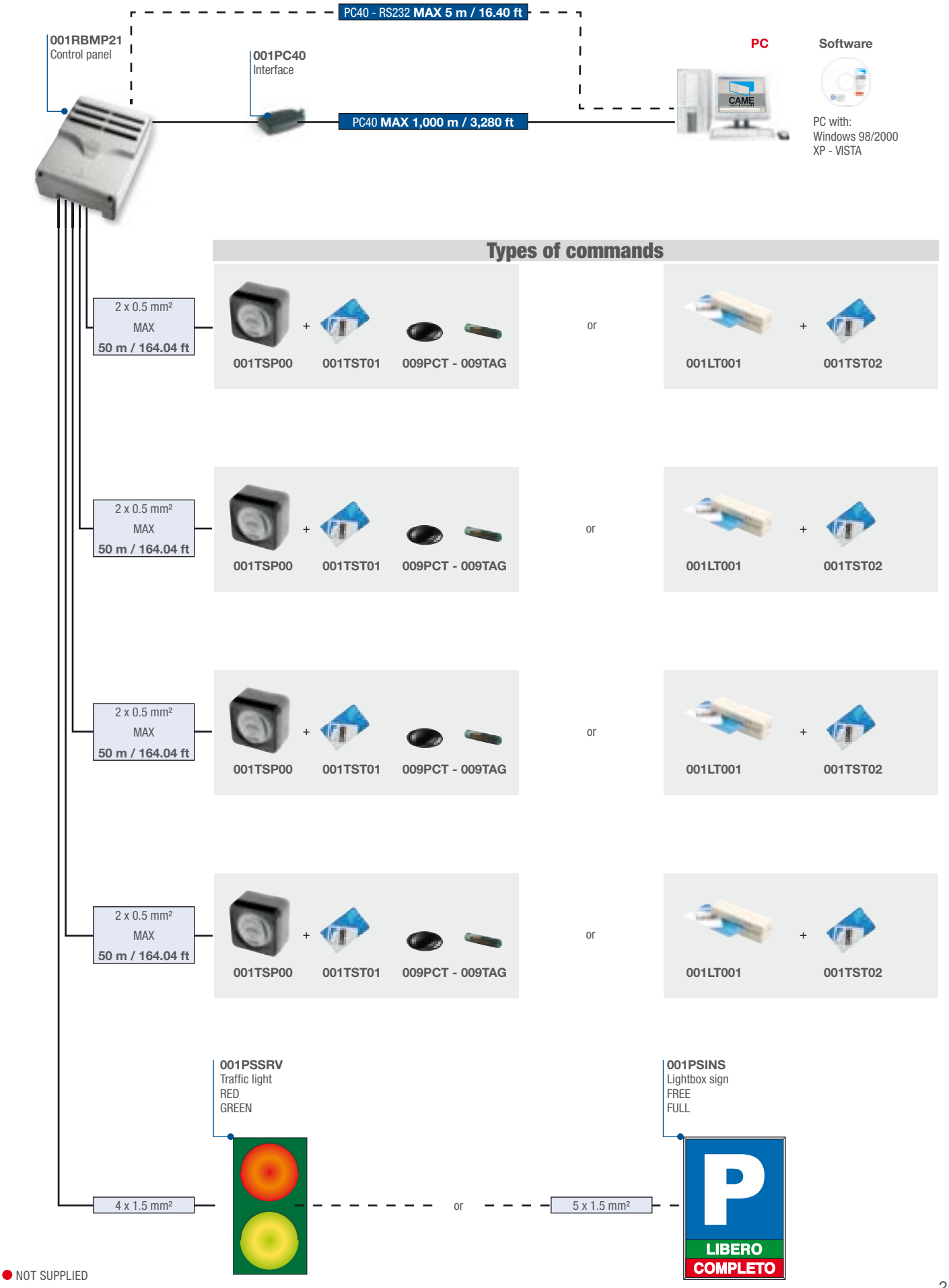
This system can work with any Came automation such as road and chain barriers.

The complete range

Code	Description
	230 V AC management and control unit
001**RBM21**	Control unit for transponder sensors, magnetic loop-detector sensors and magnetic band card readers, complete with software.
	Accessories for: 001RBM21
001**PC40**	Serial interface for remote PC connection (up to 1,000 m / 3,280 ft).
	Transponder sensors
001**TSP00**	Transponder sensor for cards, keychains and glass transponder bulbs (TAG).
	Accessories for: 001TSP00
001**TST01**	ISO 7810 - 7813 format transponder card.
	Magnetic band card readers
001**LT001**	Magnetic card reader.
	Accessories for: 001LT001
001**TST02**	Magnetic band card in ISO 7810 -7813 format.
001**LTT**	Card reader support.
	Warning accessories
001**PSINS**	Two sided lightbox sign “FREE” - “FULL”.
001**PSSRV**	Traffic light with red and green lights in two separate modules, dimensions 265 x 200 x 500 mm / 10.43 X 7.87 X 19.68 in, made of ABS plastic with Ø 200 mm / 7.87 in polymethacrylate lamp screen and IP55 protection rating.

NOTE
001PSSRV maximum power for each lamp is 70 W powered by 230 V AC, complete with rain guard for each module (size of the rain guard is Ø 220 mm / 8.66 in L = 200 mm / 7.87 in.)
The lamps ARE NOT INCLUDED.

Connection diagram



● NOT SUPPLIED

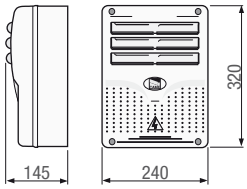
Rbm84

Access control for up to 5,500 users

The ideal solution for managing parking facilities in high traffic volume areas

- Global access control.
- It can be completed with various command systems.
- An easy and intuitive software for managing user-specific functions.
- Users are managed via transponder and magnetic band cards, coded keypad or transmitters.
- Real time processing of user-specific permits and clearances to provide or deny access to a specific area controlled by the system.
- Works even via modem.

Dimensions (mm)



Limits to use

MODEL	RBM21
Max number of users	5,500
Dedicated software	YES
Used without PC	YES
Programming without PC	NO
Type of PC connection	RS232
Max distance between the RBM84 and the PC	1,000 m with the PC30 (RS485)
Max number of connectable sensors	124 (max configuration with 60 REMs)
Relay outputs for commanding the automated device	128 (max configuration with 60 REMs)
Digital inputs	128
Connecting to the traffic light or lightbox sign	YES
Connection for magnetic coils	YES

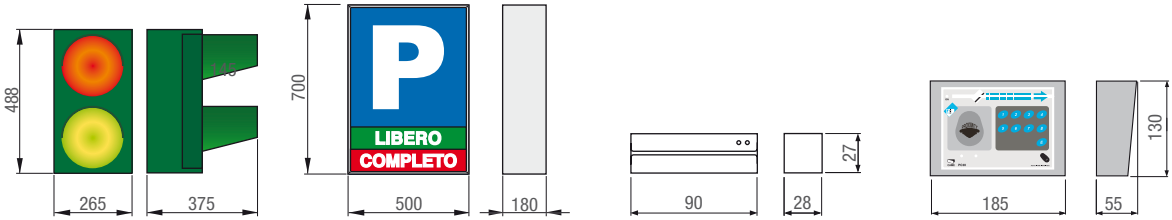
● 230 V AC

Technical features

Type	RBM84	PC30	TSP00	LT001
IP protection rating	IP54	IP20	IP54	-
Power supply (V)	230 AC (50/60 Hz)	12 AC (power source)	from R700	from R700
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 230 V AC

Dimensions (mm)



001PSSRV 001PSINS 001LT001 001PC30

All commands
WITHIN EASY REACH

RBM84 allows you to manage systems with large amount of users using different command systems (i.e. transmitters, coded selectors, cards, etc.)
It also provides real time access data for all users present within the managed area.

The software
RBM84

The graphics program of the dedicated software is clear, easy to understand and use, runs on Windows and needs no particular hardware to work.

The functions

- **Prepaid at entrances** Prepaid at entrances with debiting to prepaid entrance credits
- **Prepaid time mode** Prepaid at entrances with debiting to prepaid entrance credits
- **Selectable time intervals**
- **Card blocker** from PC
- **Card insertion** from PC
- **Parking mode**
- **Event printing**
- **Entrance/exit antipassback**
- **Timed antipassback**
- **Flow history**
- **Instant event** visualisation
- **Automation direct** command
- **Differentiated user control** (through groups)
- **Opening and/or closing** at facilities on pre-set dates
- **Automatic opening** of facilities at pre-set times
- **Total block** of the system from PC
- **Software** access password
- **Synchronisation** of the state of the facilities

This system can work with any Came automated device such as road and chain barriers.

The complete range

Code	Description
	230 V AC management and control unit
001**RBM84**	Radio control unit for transponder sensors, magnetic loop-detector sensors and magnetic band card readers complete with software.
	Accessories for: 001RBM284
001**PC30**	Serial interface for managing the 001RBM84 unit via PC, complete with 12 V - 800 mA power supply unit and serial connection cable.
001**REM**	Built-in radio-decoder unit for expanding the 001RBM84.
	Transponder sensors
001**TSP00**	Transponder sensor for cards, keychains and glass transponder bulbs (TAG).
	Accessories for: 001TSP00
001**TST01**	ISO 7810 - 7813 format transponder card.
	Magnetic band card readers
001**LT001**	Magnetic card readers.
	Accessories for: 001LT001
001**TST02**	Magnetic band card in ISO 7810 -7813 format.
001**LTT**	Card reader support.
	Accessories for: 001S5000 - 001S6000 - 001S7000
001**R800**	Decoder and access control management card for keypad digital selectors.
	Accessories for: 001TSP00 - 001LT001
001**R700**	Decoder and access control management card for transponder sensors and magnetic band card readers.
	Radio modules
001**R501N**	Radio module (to combine with 001AF43S).
	Warning accessories
001**PSINS**	Two sided lightbox sign “FREE” - “FULL”.
001**PSSRV**	Traffic light with red and green lights in two separate modules, dimensions 265 x 200 x 500 mm / 10.43 X 7.87 X 19.68 in, made of ABS plastic with Ø 200 mm / 7.87 in polymethacrylate lamp screen and IP55 protection rating.

NOTE
001PSSRV maximum power for each lamp is 70 W powered by 230 V AC, complete with rain guard for each module (size of the rain guard is Ø 220 mm / 8.66 in L = 200 mm / 7.87 in.)
The lamps ARE NOT INCLUDED.
For the radio command see the following series: Atomo, Tam, Twin.
For coded keyboards see the Digital series.

Connection diagram

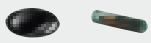
CAME

Types of commands

Atomo
Tam
Twin
Transmitters

001TSP00
001TST01
Transponder sensor for cards

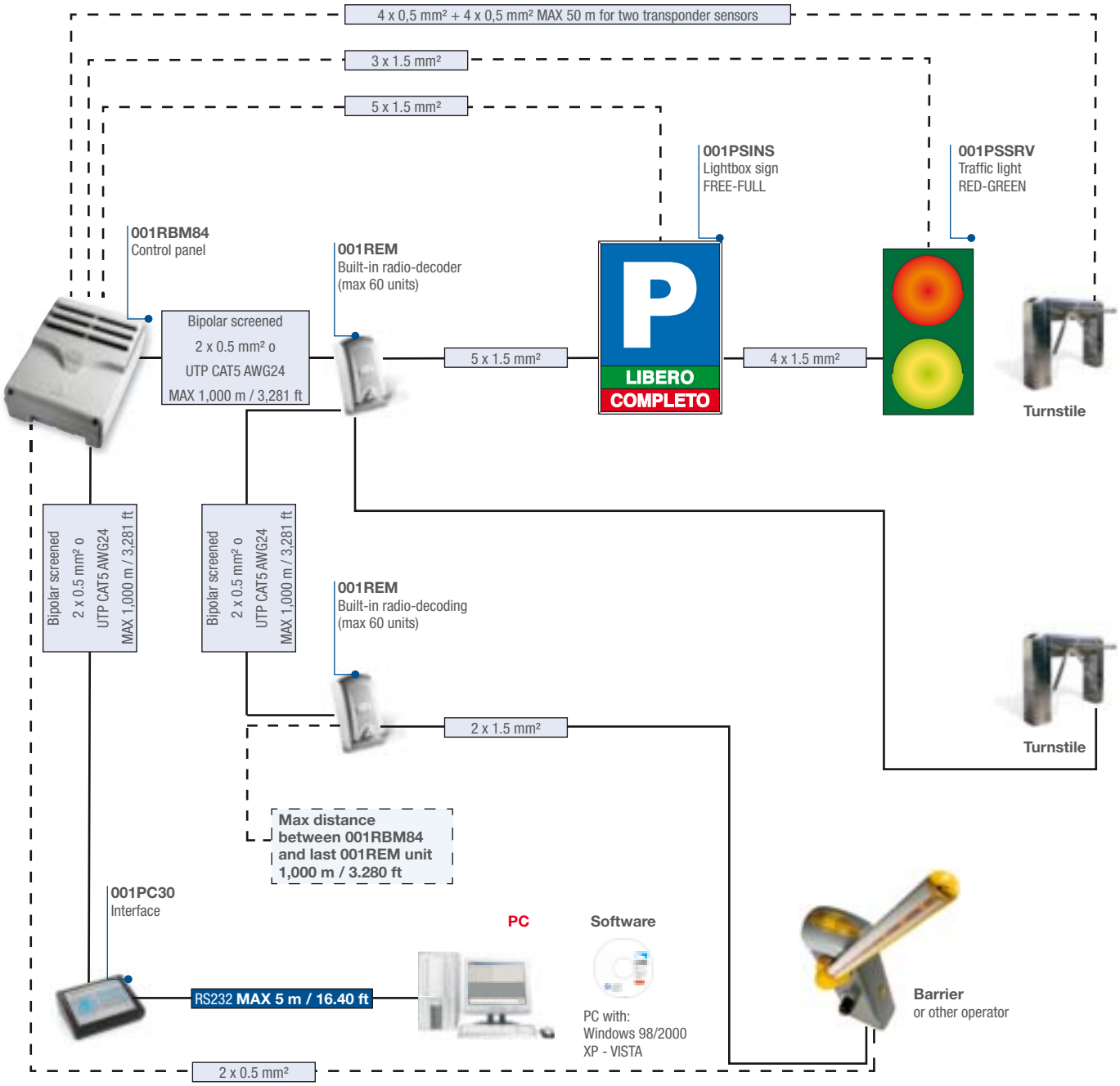
009PCT
009TAG
Keychain transponder TAG Transmitters



001LT001
001TST02
Magnetic card readers

001WA01
Transponder sensor with built-in transmitter

Serie S
Selectors



● NOT SUPPLIED

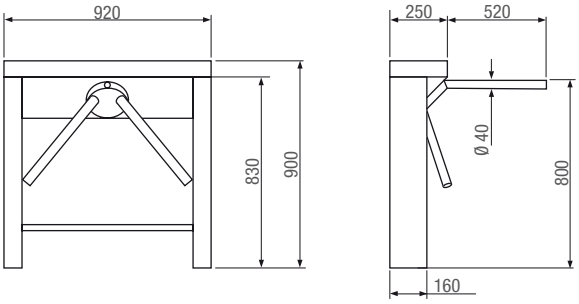
Bridge

Mechanical and electromechanical tripod turnstiles

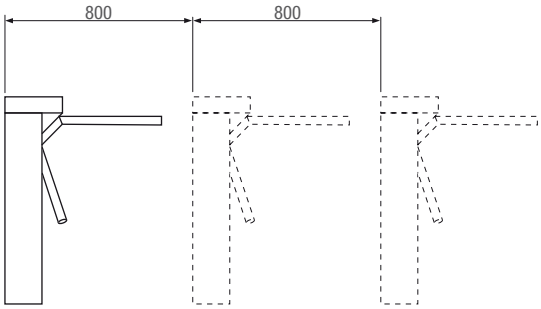
The ideal solution for selecting pedestrian transit in high-intensity flow situations

- Ideal for controlling entrances and exits at small to medium sized sports centres, as well as supermarkets and business facilities.
- Small in size it is the ideal solution for multiple access control even when space is an issue.
- Especially sturdy and resistant to vandalism and tampering.
- RAL 7035 varnish finish.

Dimensions (mm)



Application (mm)



Technical features

Type	PSAP01A - PSAP010	PSAP07 - PSAP08
Power supply (V)	-	230 AC
Operating power (V)	-	24 DC
Current draw (A)	-	2.5
Weight (Kg)	40	40
Operating temperature (°C/°F)	-	-20 ÷ +55/-4 ÷ +131

● 230 V AC

The complete range

Code	Description	
	Mechanical tripod turnstiles	
001**PSAP01A**	Mechanical monodirectional anti-clockwise turnstile complete with hydraulic damper. Painted steel body.	
001**PSAP01O**	Mechanical monodirectional turnstile clockwise complete with hydraulic damper. Painted steel body.	
	Electromechanical tripod turnstiles	
001**PSAP07N**	Electromechanical bi-directional turnstile complete with control board and hydraulic damper. Automatic tripod release in case of blackouts.	
001**PSAP08**	Electromechanical bi-directional turnstile complete with control board, hydraulic damper, bi-directional traffic light and high luminosity LED. Automatic tripod release in case of blackouts.	
	Accessories for mechanical and electromechanical tripod turnstiles	
001**PSOPSC01**	Antipanic rods with preassure joints.	
001**PSOPCN01**	Mechanical counter.	
001**PSOPG01**	Channeler complete with galvanized metal flange riser, plastic flange cover and AISI. 304 stainless steel post with arc H = 1,000 mm / 39.37 in.	
001**PSOPG01X**	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc H = 1,000 mm / 39.37 in.	
001**PSPEART**	Plate with anticorodal structure and rice-grain aluminium walkway. To couple with Top series barriers and modular barriers.	
	Accessories for electromechanical tripod turnstiles	
001**PSOPCN03**	Electronic counter.	
001**PSOPSF03**	Bi-directional traffic light with high-luminosity LED.	

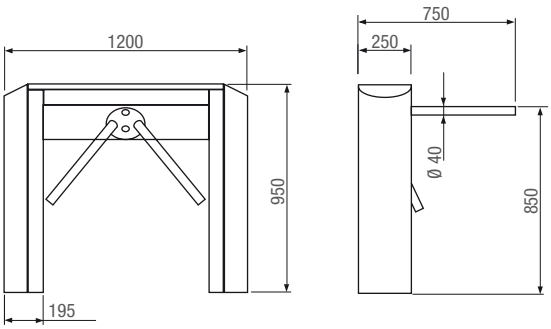
Twister light

Electromechanical tripod turnstiles

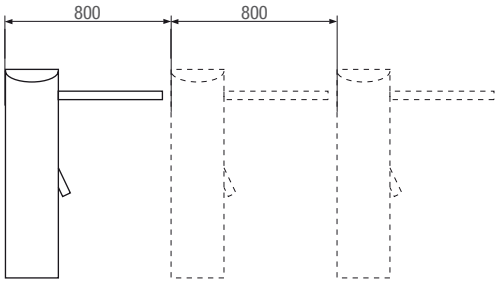
The ideal solution for selecting pedestrian transit in high-intensity flow situations - ready to fit a transponder

- The practical and functional turnstile for managing high-flow rates
- Ideal for installing at train stations, ports and metro stations, sports facilties and stadiums, where entrance and exit operations need to be optimised.
- Perfectly integratable with Came access control systems.

Dimensions (mm)



Application (mm)



Technical features

Type	PSBPS07N
Power supply (V)	230 AC
Operating power (V)	24 DC
Current draw (A)	2.5
Weight (Kg)	60
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131

● 230 V AC

The complete range

Code	Description	
	Electromechanical tripod turnstiles	
001**PSBPS07N**	Electromechanical bi-directional turnstile made of AISI 304 steel with scotch-brite finish. Complete with control board and hydraulic damper. Automatic tripod release in case of blackouts.	
	Accessories for: electromechanical tripod turnstiles	
001**PSOPSC01**	Antipanic rods with preassure joints.	
001**PSOPG01**	Channeler complete with galvanized metal flange riser, plastic flange cover and AISI 304 stainless steel post with arc 1,000 mm / 39.37 in.	
001**PSOPG01X**	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc 1,000 mm / 39.37 in.	
001**PSPEBUL**	Plate with anticorodal structure and rice-grain aluminium walkway. To couple with Top series barriers and modular barriers.	
001**PSOPCN03**	Electronic counter.	
001**PSOPSF03**	Bi-directional traffic light with high-luminosity LED.	

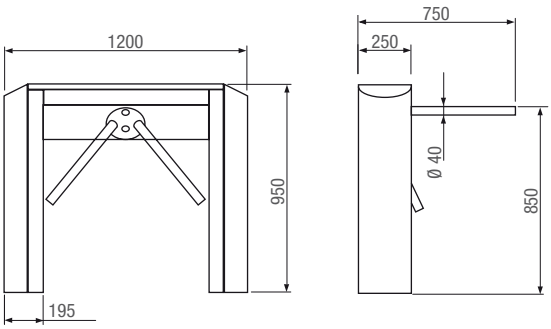
Twister

Electromechanical tripod turnstiles

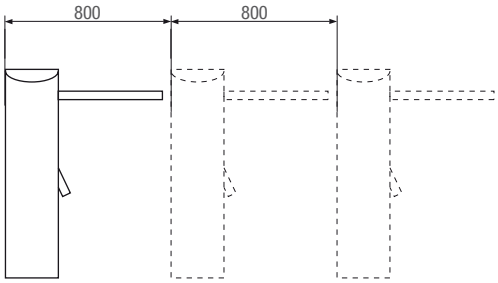
The ideal solution for selecting pedestrian transit in high-intensity passage flow areas with transponder

- The practical and functional turnstile for managing high-flow rates.
- Ideal for installing at train stations, ports and metro stations, sports facilties and stadiums, where entrance and exit operations need to be optimised.
- Perfectly integratable with Came access control systems.

Dimensions (mm)



Application (mm)



Technical features

Type	PSTPST001 - PST002 - PST003 - PST004
Power supply (V)	230 AC
Operating power (V)	24 DC
Current draw (A)	2.5
Weight (Kg)	60
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131

● 230 V AC

The complete range

Code	Description	
	Electromechanical tripod turnstiles	
001**PST001**	Electromechanical bi-directional turnstile made of AISI 304 steel with transponder sensors plus traffic light with display. Automatic tripod release in case of blackouts.	
001**PST002**	Electromechanical bi-directional turnstile made of AISI 304 steel with display. Automatic tripod release in case of blackouts.	
001**PST003**	Electromechanical bi-directional turnstile made of AISI 304 steel with scotch-brite finishing, complete with control board, high-luminosity LED traffic light, display and anti-overclimbing system. Automatic tripod release in case of blackouts.	
001**PST004**	Electromechanical bi-directional turnstile made of AISI 304 steel with display. Automatic tripod release in case of blackouts and arm stand-down system.	
	Accessories for: electromechanical tripod turnstiles	
001**PSOPSC01**	Antipanic rods with preassure joints.	
001**PSOPG01**	Channeler complete with galvanized metal flange riser, plastic flange cover and AISI 304 stainless steel post with arc H = 1,000 mm / 39.37 in.	
001**PSOPG01X**	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc H = 1,000 mm / 39.37 in.	
001**PSPEBUL**	Plate with anticorodal structure and rice-grain aluminium walkway. To couple with Top series barriers and modular barriers.	

NOTE
001PSOPSC01 Not suitable for 001PST004.

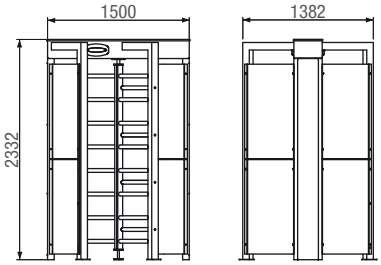
Guardian

High security turnstiles

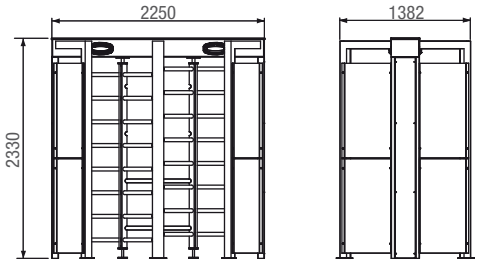
The ideal solution for selecting pedestrian transit in high-security settings

- The full-height turnstile takes care of your security issues.
- Resistant to weather conditions and ideal for installing outdoors.
- Ideal for installing in airports, metro stations and stadiums.
- Solid, sturdy and durable, to ensure total protection.
- RAL 7035 varnish finish.
- Central rotor made of AISI 304 stainless steel.

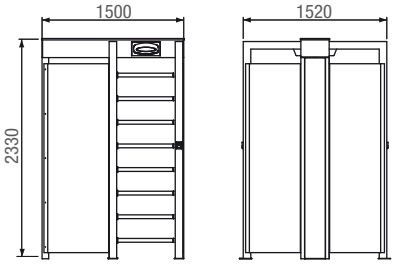
Dimensions (mm)



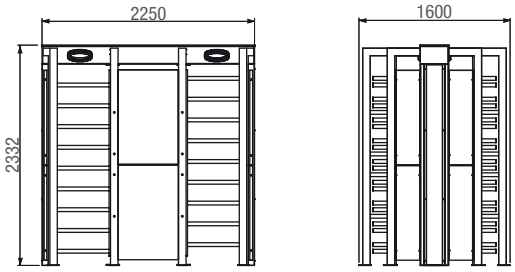
00101PSHPS001A - 01PSHPS0010 - 3PSGS3



001PSGD3



001PSGS4



001PSGD4

Technical features

Type	PSHPS01A - PSHPS010	PSGS3 - PSGS4	PSGD3 - PSGD4
Power supply (V)	-	230 AC	230 AC
Operating power (V)	-	24 DC	24 DC
Current draw (A)	-	2.5	5
Weight (Kg)	400	400	650
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131

● 230 V AC

The complete range

Code	Description	
	High-security mechanical turnstiles	
001**PSHPS01A**	Mechanical full-height mono-directional and counter-clockwise turnstile with hydraulic damper. Galvanized and painted steel body (RAL7035).	
001**PSHPS01O**	Mechanical full-height mono-directional and clockwise turnstile with hydraulic damper. Galvanized and painted steel body (RAL7035).	
	High-security electromechanical turnstiles	
001**PSGS3**	Electromechanical full-height bi-directional single turnstile with 3 120° sectors, control board and hydraulic damper. Bi-directional high-luminosity LED traffic light, with multifunction display and courtesy light, fitted to take transponder sensor. Galvanized and painted steel body (RAL7035).	
001**PSGD3**	Electromechanical full-height bi-directional double turnstile with 3 120° sectors, control board and hydraulic damper. Bi-directional high-luminosity LED traffic light, with multifunction display and courtesy light, fitted to take transponder sensor. Galvanized and painted steel body (RAL7035).	
001**PSGS4**	Electromechanical full-height bi-directional single turnstile with 4 90° sectors, control board and hydraulic damper. Bi-directional high-luminosity LED traffic light, with multifunction display and courtesy light, fitted to take transponder sensor. Galvanized and painted steel body (RAL7035).	
001**PSGD4**	Electromechanical full-height bi-directional double turnstile with 4 90° sectors, control board and hydraulic damper. Bi-directional high-luminosity LED traffic light, with multifunction display and courtesy light, fitted to take transponder sensor. Galvanized and painted steel body (RAL7035).	
	Customised treatments	
001**PSHPSVP**	Extra charge for customised RAL range varnish finishes.	

NOTE
All high-security turnstiles, upon customer request, can have custom RAL varnish finishes.
(delivery times in this case require an extra 15 days).

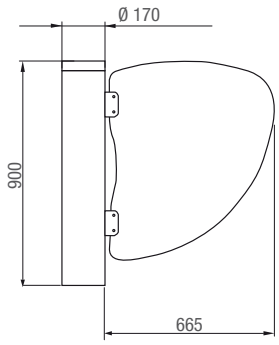
Wing

Motorised swing turnstiles

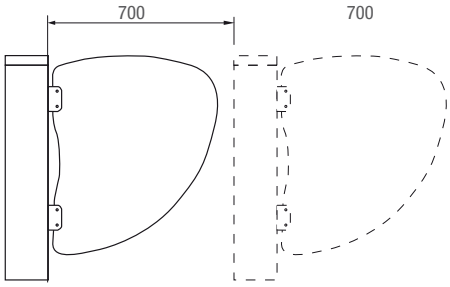
The ideal solution for selecting pedestrian transit in prestigious facilities

- This turnstile stands out thanks to its elegance, quality and silent operation.
- Ideal for installing in prestigious settings such as hotels, showrooms and beauty centers.
- It even comes in the double version (with synchro card) to manage those wider passages.
- Can be coupled with modular barriers to complete installations and perfectly integrates with all Came access control systems.

Dimensions (mm)



Application (mm)



Technical features

Type	PSEPCSS00 - PSEPCSD00 - PSEPCSS00CT - PSEPCSD00CT
Power supply (V)	230 AC
Operating power (V)	24 DC
Current draw (A)	2.5
Weight (Kg)	40
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131

● 24 V DC

The complete range

Code	Description
	24 V DC motorised swing turnstiles
001**PSEPCSS00**	Motorised bi-directional single turnstile complete with control board and push-to-open antipanic system. Plexiglass leaf.
001**PSEPCSD00**	Motorised bi-directional double turnstile complete with control board and push-to-open antipanic system. Plexiglass leaves.
001**PSEPCSS00CT**	Motorised bi-directional single turnstile complete with control board and push-to-open antipanic system. Tempered glass leaf.
001**PSEPCSD00CT**	Motorised bi-directional double turnstile complete with control board and push-to-open antipanic system. Tempered glass leaves.
	MANDATORY accessories
001**PSOPAL01**	24 V DC 2.5 A switching power unit complete with IP65 casing for one turnstile.
001**PSOPAL06**	24 V DC 6.5 A switching power unit complete with IP65 casing for two turnstiles.
	Accessories
001**PSOPEPCDIS**	Plexiglass leaf for the physically challenged. Leaf width: 900 mm / 35.43 in.
001**PSOPEPCDISCT**	Tempered glass leaf for the physically challenged. Leaf width: 900 mm / 35.43 in.
001**PSCSCR04**	Consolle for remotely controlling up to max 4 access-ways.

NOTE
001PSOPAL01 - 001PSOPAL06 IT IS MANDATORY the use of the feeder with the turnstiles.

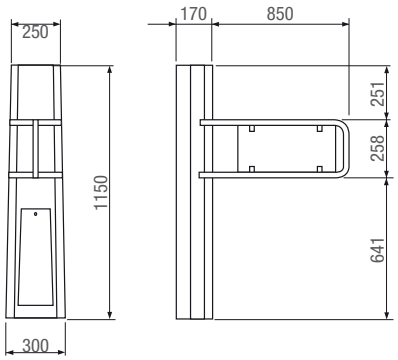
Saloon

Motorised swing turnstiles

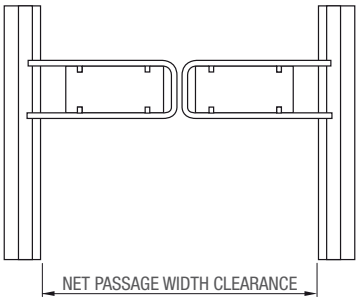
The ideal solution for selecting shopping cart transit

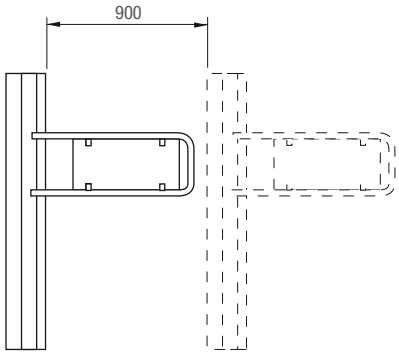
- This turnstile stands out thanks to its elegance, quality and silent operation.
- Ideal for installing in prestigious settings such as hotels, showrooms and beauty centers.
- It even comes in the double version to manage those wider passages.
- Can be coupled with modular barriers to complete installations and perfectly integrates with all Came access control systems.
- RAL 7035 enamel finish.

Dimensions (mm)



Application (mm)





Technical features

Type	PSEP0S00 - PSEPSS00
Power supply (V)	230 AC
Operating power (V)	24 DC
Current draw (A)	2.5
Weight (Kg)	40
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131

● 24 V DC

The complete range

Code	Description
	24 V DC motorised swing turnstiles
001**PSEP0S00** 24	Motorised bi-directional swing turnstile made of galvanised steel with RAL 7035 varnish finish complete with control board and push-to-open antipanic system. Leaf width L = 850 mm / 33.46 in.
001**PSEPSS00** 24	Motorised bi-directional swing turnstile made of AISI 304 steel complete with control board and push-to-open antipanic system. Leaf width L = 850 mm / 33.46 in.
	MANDATORY accessories
001**PSOPAL01**	24 V DC 2.5 A switching power unit complete with IP65 casing for one turnstile.
001**PSOPAL06**	24 V DC 6.5 A switching power unit complete with IP65 casing for two turnstiles.
001**PSMCECH**	Synchro card for double passage openings.
	Accessories
001**PSOPSF01**	Bi-directional traffic light with high-luminosity LED.
001**PSEPTRF**	Barrier composed of: - n. 1 vertical element with built-in photocell, made of AISI 304 steel, fastening flange in galvanised steel and flange cover in chromed plastic - n. 2 horizontal elements measuring L = 1,000 mm / 39.37 in - n. 4 chromed plastic sleeves.
001**PSEPTRFX**	Barrier composed of: - n. 1 vertical element, AISI 304 steel fastening flange and flange cover, with built-in photocell. - n. 2 horizontal elements measuring L = 1,000 mm / 39.37 in - n. 4 AISI 304 steel sleeves with glossy finish.
001**PSCSCR04**	Consolle for remotely controlling up to max 4 access-ways.
	Customised treatments
001**PSMLANT**	Extra charge for changing width of leaf (MIN = 500 mm / 19.68 in - MAX = 1,000 mm / 39.37 in).

NOTE

001PSMLANT Specify the custom width of the leaf (MIN = 500 mm - MAX = 1,000 mm).

001PSMCECH For synchronized opening of double access-ways it is necessary to order one synchronization card for each turnstile.

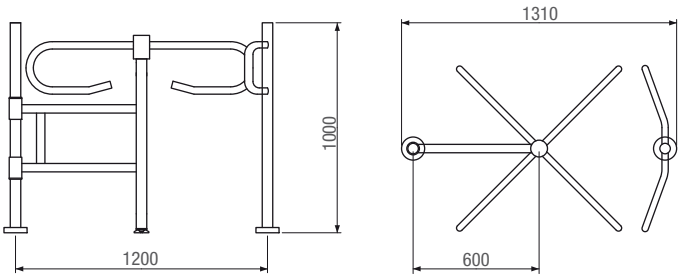
Compass

Mechanical turnstiles

The ideal solution for selecting pedestrian transit

- A simple, cost effective solution, for truly effectively managing people flows.
- Available with either clockwise or anticlockwise openings, and also bi-directional.
- Can be coupled with modular barriers to complete installations.

Dimensions (mm)



Technical features

Type	PSSPCWO - PSSPCCW - PSSPFMCWO - PSSPFMCCW
Weight (Kg)	18

The complete range

Code	Description
	Mechanical turnstiles
001**PSSPCWO**	Removable mechanical turnstile with right-hand post for fastening to floors. H = 1,000 mm / 39.37 in.
001**PSSPCCW**	Removable mechanical turnstile with left-hand post for fastening to floors. H = 1,000 mm / 39.37 in.
001**PSSPFMCWO**	Fixed mechanical turnstile with right-hand post for fastening to walls. H = 1,000 mm / 39.37 in.
001**PSSPFMCCW**	Fixed mechanical turnstile with left-hand post for fastening to walls. H = 1,000 mm / 39.37 in.
	Accessories
001**PSOPG01**	Channeler complete with galvanized metal flange riser, plastic flange cover and AISI 304 stainless steel post with arc H = 1,000 mm / 39.37 in.
001**PSOPG01X**	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc H = 1,000 mm / 39.37 in.

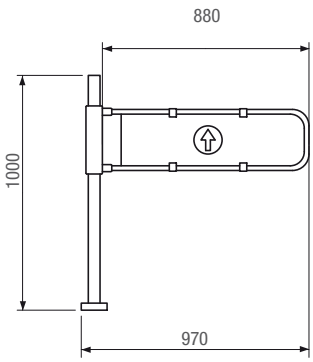
Flag

Mechanical swing turnstiles

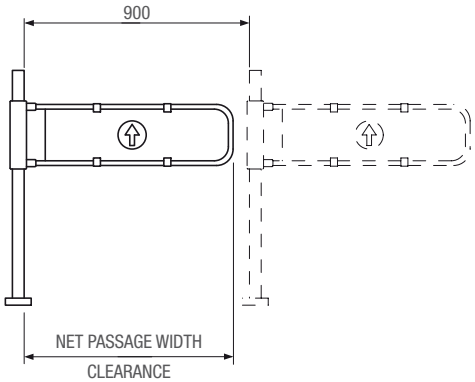
The ideal spring-return solution for selecting pedestrian transit

- The mechanical push-to-open turnstile.
- A ready-to-use solution for managing people flows.
- Useful when needing to control and manage people passage flows for safety and hygenic reasons.
- Today even with lock.

Dimensions (mm)



Application (mm)



Technical features

Type	PSBPCWO - PSBPCCW - PSBPOO - PSBPCWOA - PSBPCCWA - PSBPOOA
Weight (Kg)	10

The complete range

Code	Description
	Mechanical turnstiles
001**PSBPCWO**	Mechanical swing turnstile with right-hand post. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
001**PSBPCCW**	Mechanical swing turnstile with left-hand post. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
001**PSBPOO**	Bi-directional mechanical swing turnstile. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
001**PSBPCWOA**	Mechanical swing turnstile with right-hand post, lock and key. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
001**PSBPCCWA**	Mechanical swing turnstile with left-hand post, lock and key. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
001**PSBPOOA**	Bi-directional mechanical swing turnstile with lock and key. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 in.
	Accessories
001**PSOPGO1**	Channeler complete with galvanized metal flange riser, plastic flange cover and AISI 304 stainless steel post with arc H = 1,000 mm / 39.37 in.
001**PSOPGO1X**	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc H = 1,000 mm / 39.37 in.
	Customised treatments
001**PSMLANT**	Extra charge for changing width of leaf (MIN = 500 mm / 19.68 in - MAX = 900 mm / 35.43 in).

NOTE
001PSMLANT Specify the custom width of the leaf (MIN = 500 mm - MAX = 900 mm).

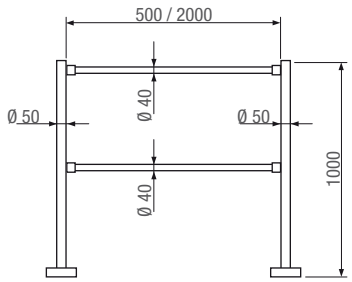
Accessories

Modular barriers

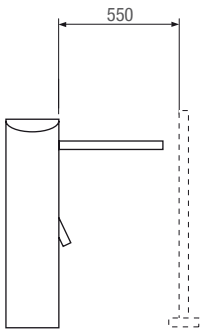
The complete range for system configuration

- Exitpass modular barriers
- Completing turnstile installations.
- The special barrier for shopping carts is indispensable in applications at shopping malls and supermarkets.
- Even with antipanic push-to-open bar.

Dimensions (mm)



Application (mm)

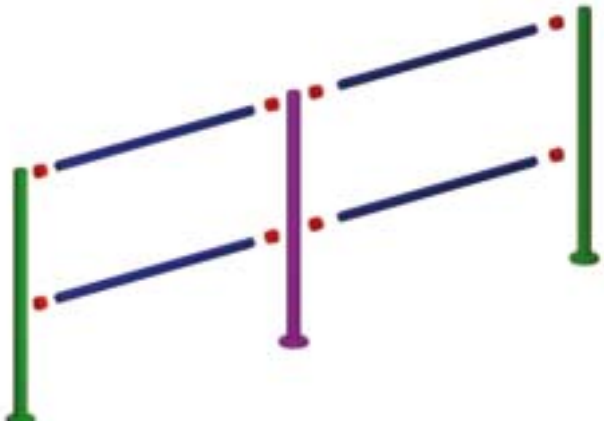


The complete range

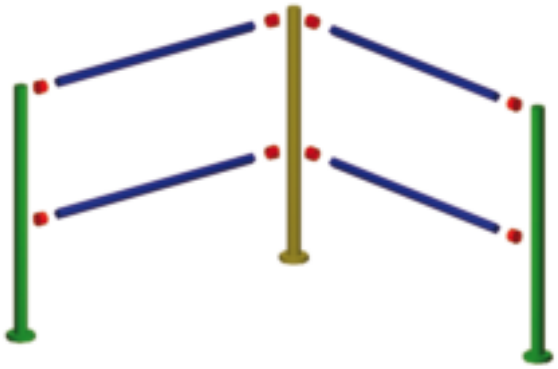
Code	Description
	Vertical elements for assembled barriers
001**PSTRV**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. Without holes. H = 1,000 mm / 39.37 in.
001**PSTRV2F**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 2 holes H = 1,000 mm / 39.37 in.
001**PSTRV4F90**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 2 + 2 90° holes H = 1,000 mm / 39.37 in.
001**PSTRV4F180**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 2 + 2 180° holes H = 1,000 mm / 39.37 in
001**PSTRV6F**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 6 holes H = 1,000 mm / 39.37 in.
001**PSTRV8F**	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 8 holes H = 1,000 mm / 39.37 in.
001**PSTRVX**	AISI 304 steel riser with fastening flange and flange cover. Without holes H = 1,000 mm / 39.37 in.
001**PSTRVX2F**	AISI 304 steel riser with fastening flange and flange cover. With 2 holes H = 1,000 mm / 39.37 in.
001**PSTRVX4F90**	AISI 304 steel riser with fastening flange and flange cover. With 2 + 2 90° holes H = 1,000 mm / 39.37 in.
001**PSTRVX4F180**	AISI 304 riser with fastening flange and steel flange cover. With 2 + 2 180° holes H = 1,000 mm / 39.37 in.
001**PSTRVX6F**	AISI 304 riser with fastening flange and steel flange cover. With 6 holes H = 1,000 mm / 39.37 in.
001**PSRVX8F**	AISI 304 riser with fastening flange and steel flange cover. With 8 holes H = 1,000 mm.

The complete range

Code	Description
	Horizontal elements for assembled barriers and sleeves
001**PSTRT050**	Horizontal tube for AISI 304 steel barrier Ø 40 mm / 1.57 in wide. L = 500 mm / 19.68 in.
001**PSTRT100**	Horizontal tube for AISI 304 steel barrierØ 40 mm / 1.57 in wide. L = 1,000 mm / 39.37 in.
001**PSTRT150**	Horizontal tube for AISI 304 steel barrier Ø 40 mm / 1.57 in wide. L = 1,500 mm / 59.08 in.
001**PSTRT200**	Horizontal tube for AISI 304 steel barrier Ø 40 mm / 1.57 in wide. L = 2,000 mm / 78.74 in.
001**PSTRM001**	Package of n. 2 coupling sleeves made of chromed plastic complete with fastening screws.
001**PSTRM003**	Package of n. 2 coupling sleeves made of AISI 304 steel complete with fastening screws.
001**PSTRM004**	Package of n. 2 wall fastening sleeves made of AISI 304 steel complete with screws.



- 001**PSTRM001** - 001**PSTRM003** - 001**PSTRM004**
- 001**PSTRV2F** - 001**PSTRVX2F**
- 001**PSTRV4F180** - 001**PSTRVX4F180**
- 001**PSTRT050** - 001**PSTRT100** - 001**PSTRT150** - 001**PSTRT200**



- 001**PSTRM001** - 001**PSTRM003**
- 001**PSTRV2F** - 001**PSTRVX2F**
- 001**PSTRV4F090** - 001**PSTRVX4F090**
- 001**PSTRT50** - 001**PSTRT100** - 001**PSTRT150** - 001**PSTRT200**

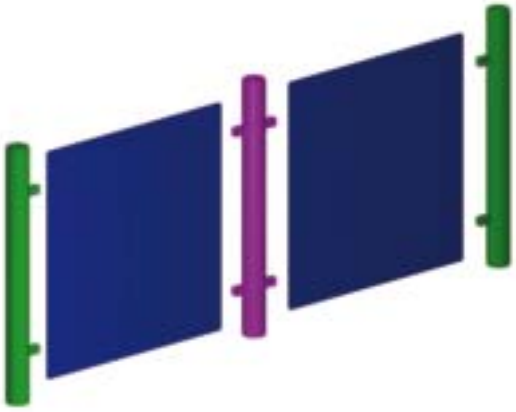
The complete range

Code	Description
	Horizontal elements for shopping cart barrier
001**PSTPC100**	Monodirectional barrier for shopping cart passage with 2 arcs. L = 1,000 mm / 39.37 in H = 1,000 mm / 39.37 in.
001**PSTPC150**	Monodirectional barrier for shopping cart passage with 3 arcs. L = 1,500 mm / 59.08 in H = 1,000 mm / 39.37 in.
001**PSTPC200**	Monodirectional barrier for shopping cart passage with 4 arcs. L = 2,000 mm / 78.74 in H = 1,000 mm / 39.37 in.
	TOP barriers
001**PSTRFPA**	Barrier for floor fastening or ramp-mounting made of AISI 304 steel plate and polycarbonate panel. Panel thickness 6 mm / 0.23 in H = 900 mm / 35.43 in.
001**PSTRFPAN**	Barrier for floor fastening or ramp-mounting made of AISI 304 steel plate without panel. H = 900 mm / 35.43 in.
	EXITPASS barriers
001**PSUS120D**	Barrier made of AISI 304 steel with right-hand post and antipanic push-to-open bar. L = 1,200 mm / 47.24 in H = 1,000 mm / 39.37 in.
001**PSUS120S**	Barrier made of AISI 304 steel with left-hand post and antipanic push-to-open bar. L = 1,200 mm / 47.24 in H = 1,000 mm / 39.37 in.
001**PSUS090D**	Barrier made of AISI 304 steel with right-hand post and antipanic push-to-open bar. L = 900 mm / 35.43 in H = 1,000 mm / 39.37 in.
001**PSUS090S**	Barrier made of AISI 304 steel with left-hand post and antipanic push-to-open bar. L = 900 mm / 35.43 in H = 1,000 mm / 39.37 in.
001**PSUS060D**	Barrier made of AISI 304 steel with right-hand post and antipanic push-to-open bar. L = 600 mm / 23.62 in H = 1,000 mm / 39.37 in.
001**PSUS060S**	Barrier made of AISI 304 steel with left-hand post and antipanic push-to-open bar. L = 600 mm / 23.62 in H = 1,000 mm / 39.37 in.

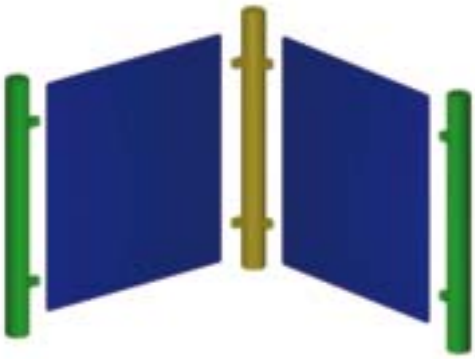
The complete range

Code	Description
	SMART barriers
001**PSTRV80**	AISI 304 steel riser without clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRV802F**	AISI 304 steel riser with 2 clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRV804F090**	AISI 304 steel riser with 2 + 2 90° clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRV804F180**	AISI 304 steel riser with 2 + 2 180° clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRV806F**	AISI 304 steel riser with 6 clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRV808F**	AISI 304 steel riser with 8 clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001**PSTRSFPL60875**	Transparent polycarbonate panel 6 mm thick, dimensions L = 750 mm / 29.52 in H = 800 mm / 31.49 in.
	Customised treatments
001**PSMTP**	Extra charge for changing width of polycarbonate panel.

NOTE
001PSMTP Specify the custom width of the panel which cannot be greater than 750 mm/ 29.52 in (standard dimension).



- 001**PSTRV802F**
- 001**PSTRV804F180**
- 001**PSTRSFPL60875**



- 001**PSTRV802F**
- 001**PSTRV804F090**
- 001**PSTRSFPL60875**

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