

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 impulse
The installation and the user	Private premises Trained user				 + 
	Private premises Untrained user			 + 	 + 
	Public premises Untrained user			 + 	 + 
	Public premises Untrained user	-	 + 	 + 	 + 

Safety devices required

-  “Man on” with automatic resetting of the command device
-  “Man on” with manual resetting of the command device
-  **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.
-  **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**



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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.



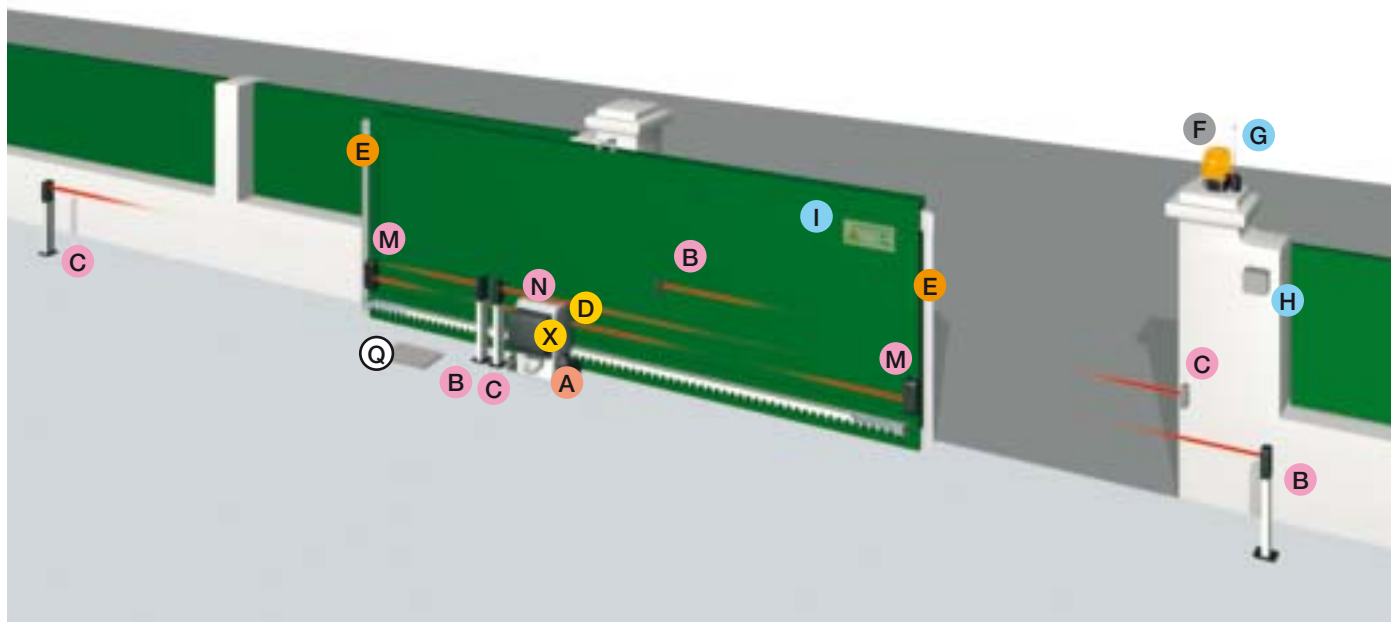
EN TESTED: CAME's added value

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 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop microswitches	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
Antenna	RG58 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



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

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



Complete sets



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



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



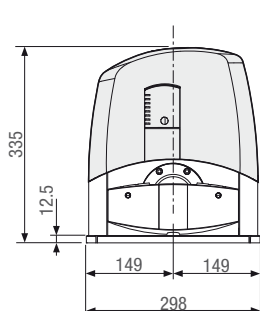
Gates of up to 300 Kg / 660 lb



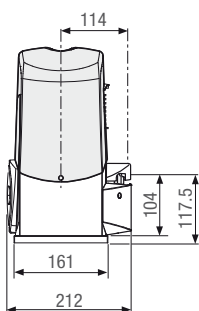
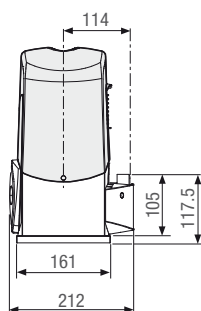
The ideal solution to apply to residential gates

- 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	
001BX-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.
001BX-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	
002LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Racks for: 001BX-243	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZP	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.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.



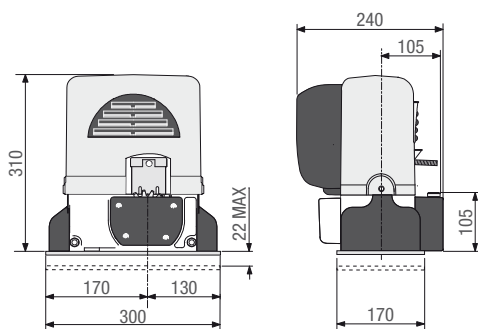
Gates of up to 800 Kg / 1,760 lb

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	
001BX-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	
001BX-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.
001BX-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.
001BX-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	
001BX-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	
002RSE	Combined opening function management card.
Accessories for: 001BX-246	
002LBD2	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001R001	Lock cylinder with DIN key.
001B4337	Chain transmission device.
009CCT	1/2 in simple chain.
009CGIU	Joint for 1/2 in chain.
Racks	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZP	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.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.



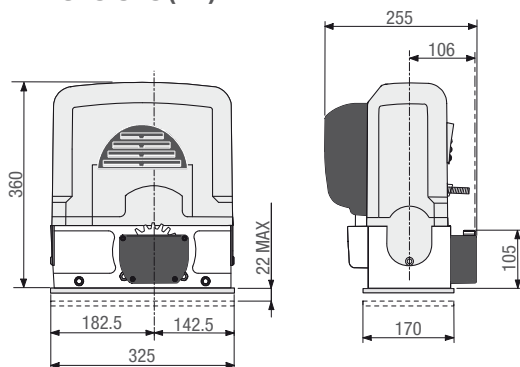
Gates of up to 2,200 Kg / 4,850 lb



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	
001BK-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.
001BK-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.
001BK-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.
001BK-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.
001BK-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.
001BK-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.
001BKE-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.
001BKE-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.
001BKE-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	
001BK-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	
002ZT6	Control panel with built-in radio decoder and auto-diagnosis of safety devices.
002ZT6C	Control panel, complete with safety block and buttons, built-in radio decoder and auto-diagnosis of safety devices.
Accessories	
001R001	Lock cylinder with DIN key.
001B4353	Chain transmission device.
009CCT	1/2 in simple chain.
009CGIU	Joint for 1/2 in chain.
Racks	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.
009CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in.



By-3500T



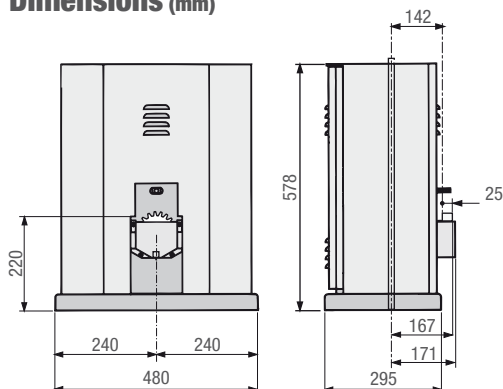
Gates of up to 3,500 Kg / 7,720 lb



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	
001BY-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	
001BRC15	Power cable collecting device for safety sensitive edges for sliding gates of up to 15 m / 49.21 ft in length.
001BRCP	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	
009CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in.

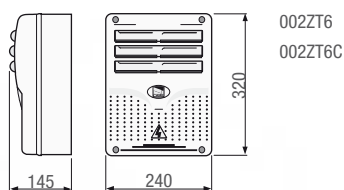


Electronic functions

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



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**



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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.



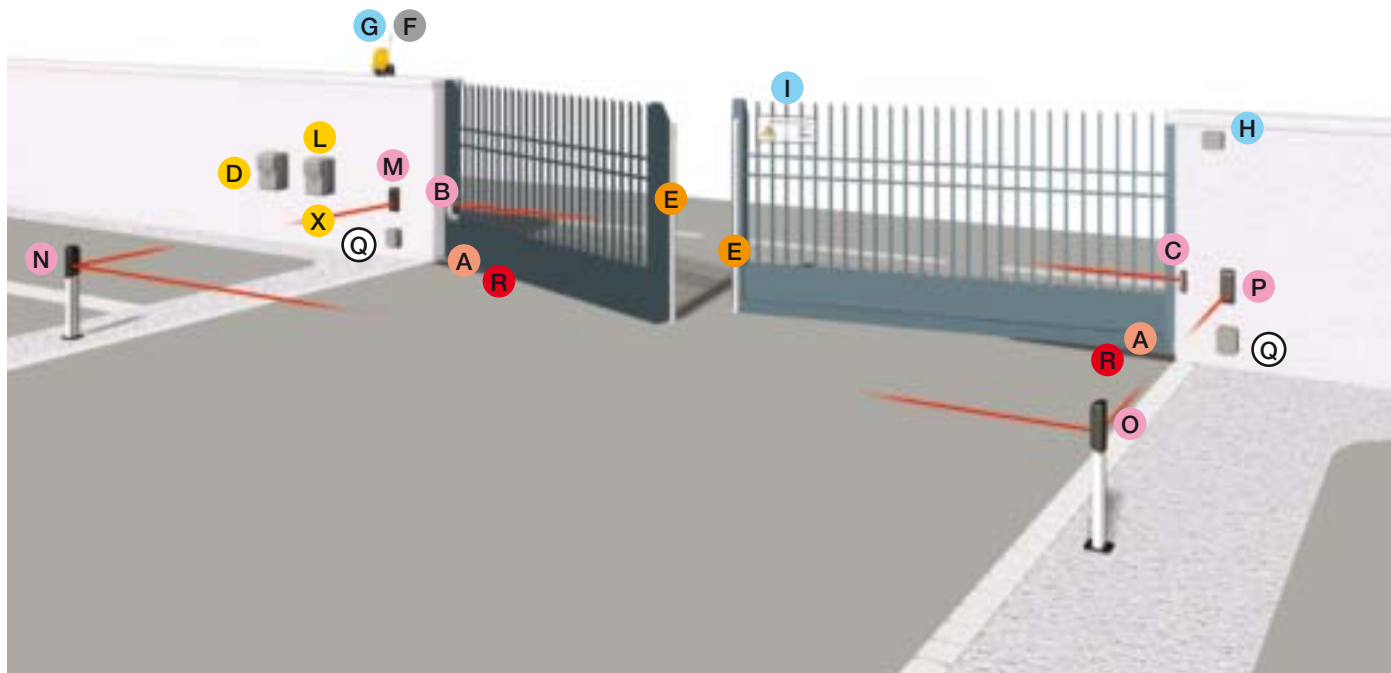
EN TESTED: CAME's added value

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.

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 2G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 2G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 2G x AWG14	3G x 1.5 mm ² / 2G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 2G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
12 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1.5 mm ² / 2 x AWG14
24 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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



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 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



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



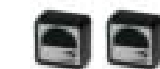
Complete sets



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



Complete sets



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

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



Complete sets



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 KIAR024N 	Flashing light.	1
	Gate plate.	1



Complete sets



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



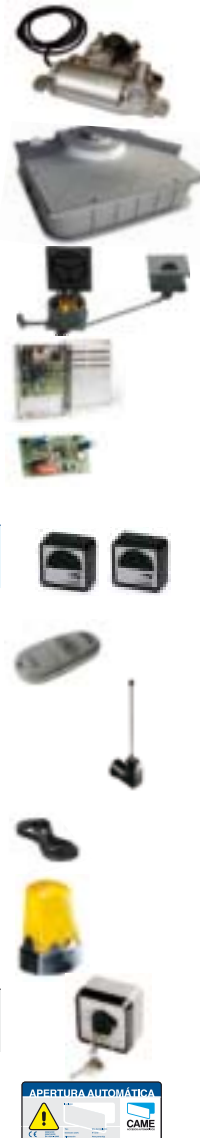
Complete sets



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 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



Frog-J

Gate-leaves of up to 1.8 m / 6 ft

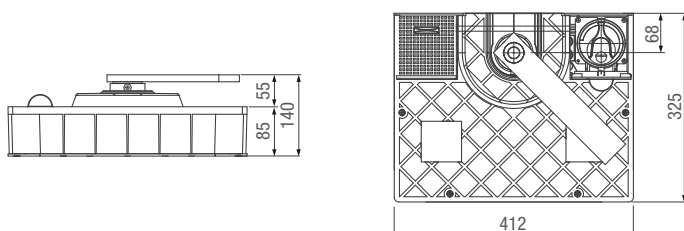


Hide-away solution to apply to residential gates

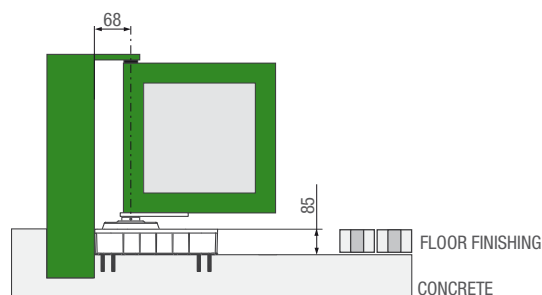
- Tested according to applicable rules and regulations.
- Release system protected by watertight trap-door that opens with customised key from the inside and outside.
- Encoder-based movement control.
- Can function in emergency mode during blackouts.
- Self-diagnosing safety devices.
- Simplified connection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

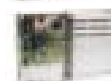
Type	FROG-J
Protection rating IP	IP67
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	10 MAX
Power (W)	240
90° opening time (s)	ADJUSTABLE
Duty cycle (%)	INTENSIVE USE
Torque (Nm)	260
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131
Motor thermo protection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

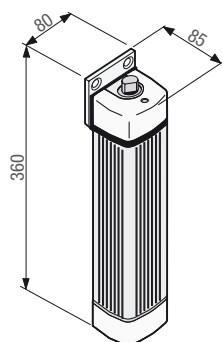


Gate leaves up to 1.6 m / 5.2 ft

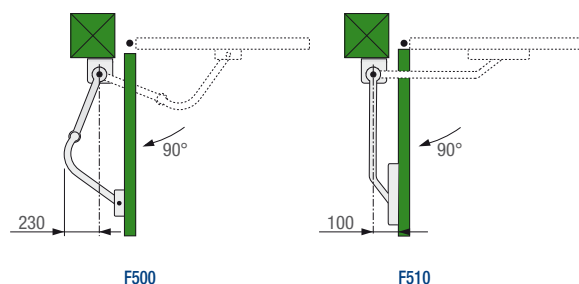
The ideal solution to apply to either pedestrian or vehicle gates

- 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)



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.

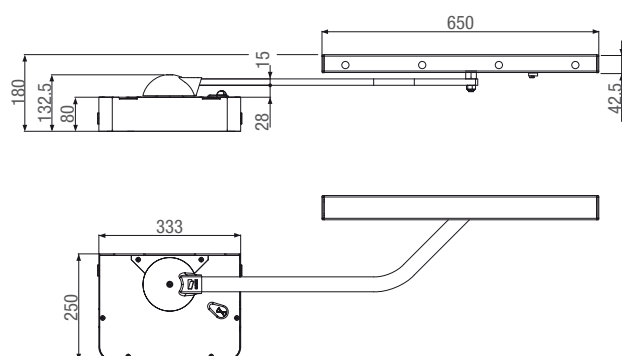




Hide-away or surface-mounted solution for residential gates

- 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.

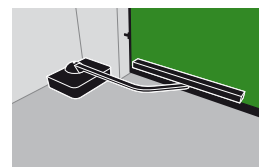
Dimensions (mm)



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)

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

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



Code	Description	
24 V DC operator and control panels - tested in compliance with EN 12453 - EN 12445		
001MYT0-ME	Operator with encoder for gate-leaves of up to 1.8 m / 6 ft.	 
002ZLJ14	Multifunction control panel for one-leaf swing gates featuring signalling display, self-diagnosis of safety devices and built-in radio decoder.	 
002ZL92	Control panel for two-leaf swing gates with function display, self-diagnosis of safety devices and built-in radio decoder.	 
002ZLJ24	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		
002LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.	 
Accessories for: 002ZLJ24		
002LB180	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.	 
Accessories		
001MYT0-C	Foundation casing for external fixing or for underground installation.	
001MYT0-BD	Transmission arm and slide guide.	



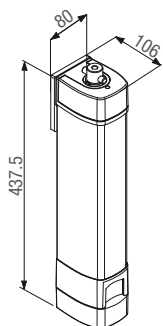
Gate-leaves of up to 1.8 m / 6 ft



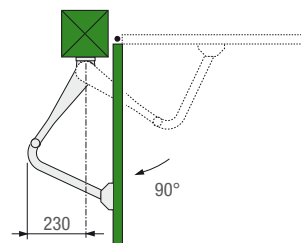
The ideal solution to apply to small-sized gate posts

- 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.



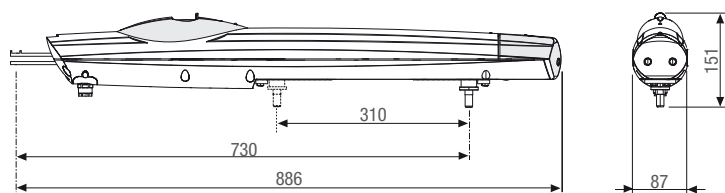
Gate-leaves of up to 2.2 m / 7.2 ft

The ideal solution to apply to gates in residential settings

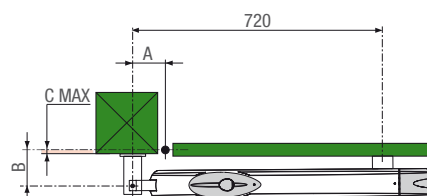


- Exclusive, distinguished style.
- Release system with triangular key.
- Adjustable mechanical stops to memorise the gate-run.
- Simplified connection with only one three-conductor cable.
- Supporting aluminium half-casings.
- Worm screw is always protected thanks to its dedicated cover.
- Can function 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.



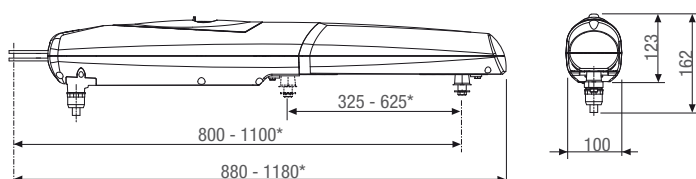
Gate-leaves of up to 7 m / 23 ft



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

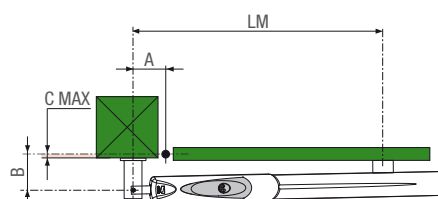
- Tested according to applicable rules and regulations.
- The 24 V version can function in emergency mode during blackouts.
- Available both in the reversible and self-locking versions.
- Worm screw is always protected thanks to its dedicated cover.
- The 24 V version comes with a simplified connection 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



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

Limits to use

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

● 230 V AC ● 24 V DC

NOTE:

* 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.

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.



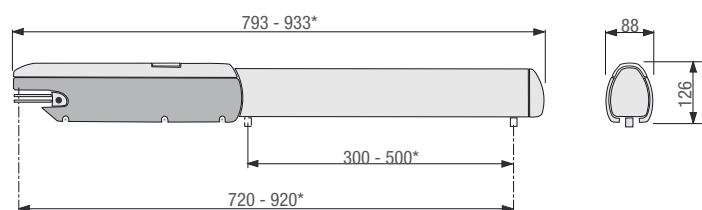
Gate-leaves of up to 5 m / 16 ft

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



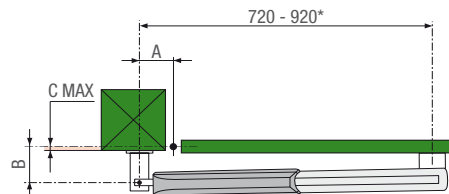
- The 24 V version can function in emergency mode during blackouts.
- Available both in the reversible and self-locking versions.
- Amperometric obstacle detection.
- Worm screw is always protected thanks to its dedicated cover.
- The 24 V version comes with a simplified connection system featuring a 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 - A3000A - A3100 - A3100A - A5000 - A5000A - A5100 - A5100A	A3006 - A3106 - A5006 - A5106	A3024N - A5024N
Protection rating IP	IP44		IP44
Power supply (V - 50/60 Hz)	230 AC		230 AC
Motor power supply (V - 50/60 Hz)	230 AC		24 DC
Current draw (A)	1.2		10 MAX
Power (W)	150		120
90° opening time (s)	19 ÷ 32		ADJUSTABLE
Duty cycle (%)	50		INTENSIVE USE
Thrust (N)	400 ÷ 3000		400 ÷ 3000
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 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.

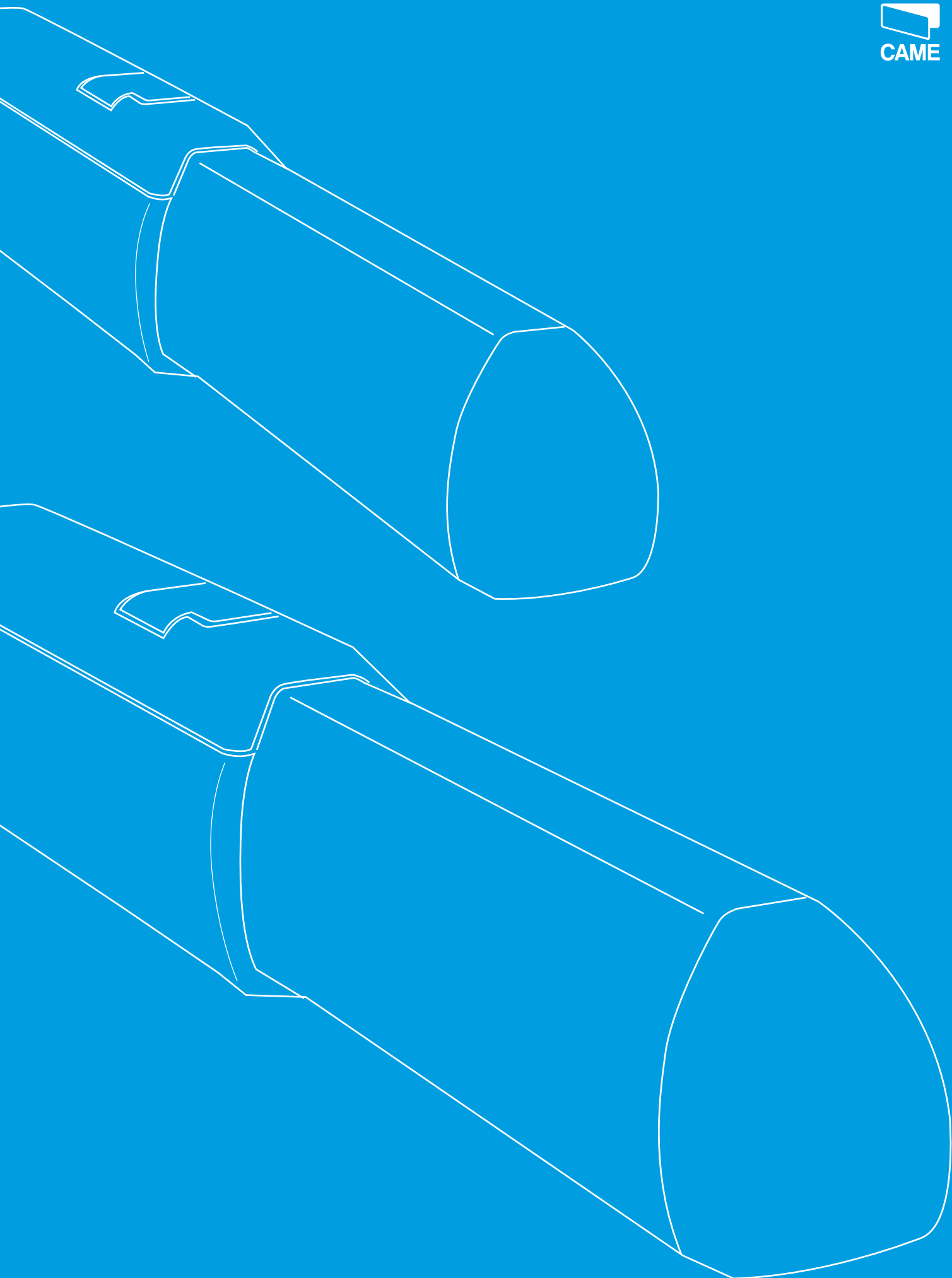


The complete range



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.





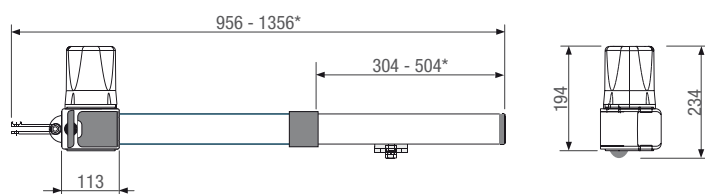
Gate-leaves of up to 5 m / 16 ft



The ideal solution to apply to stylish gates

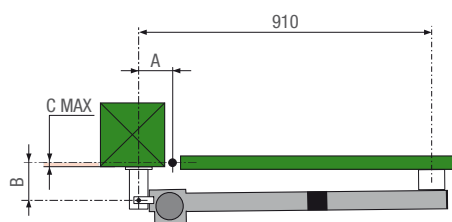
- Special stem-shaped aluminium structure.
- The opening and closing endpoint microswitches provide exact setting of the gate-leaf stop positions.
- A staple of Came tradition.

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.

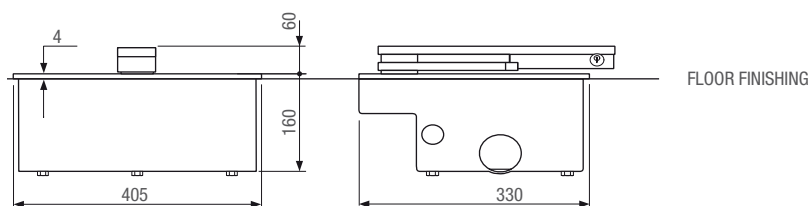




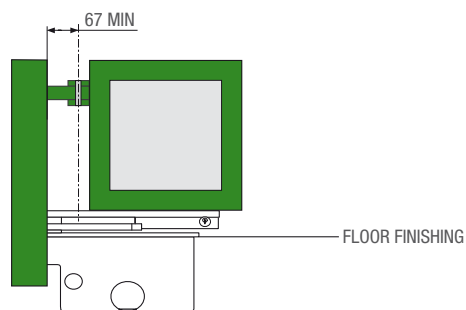
The hide-away solution to apply to gates in residential and apartment block settings

- 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)



Limits to use

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

● 230 V AC ● 24 V DC

NOTE:

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

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.

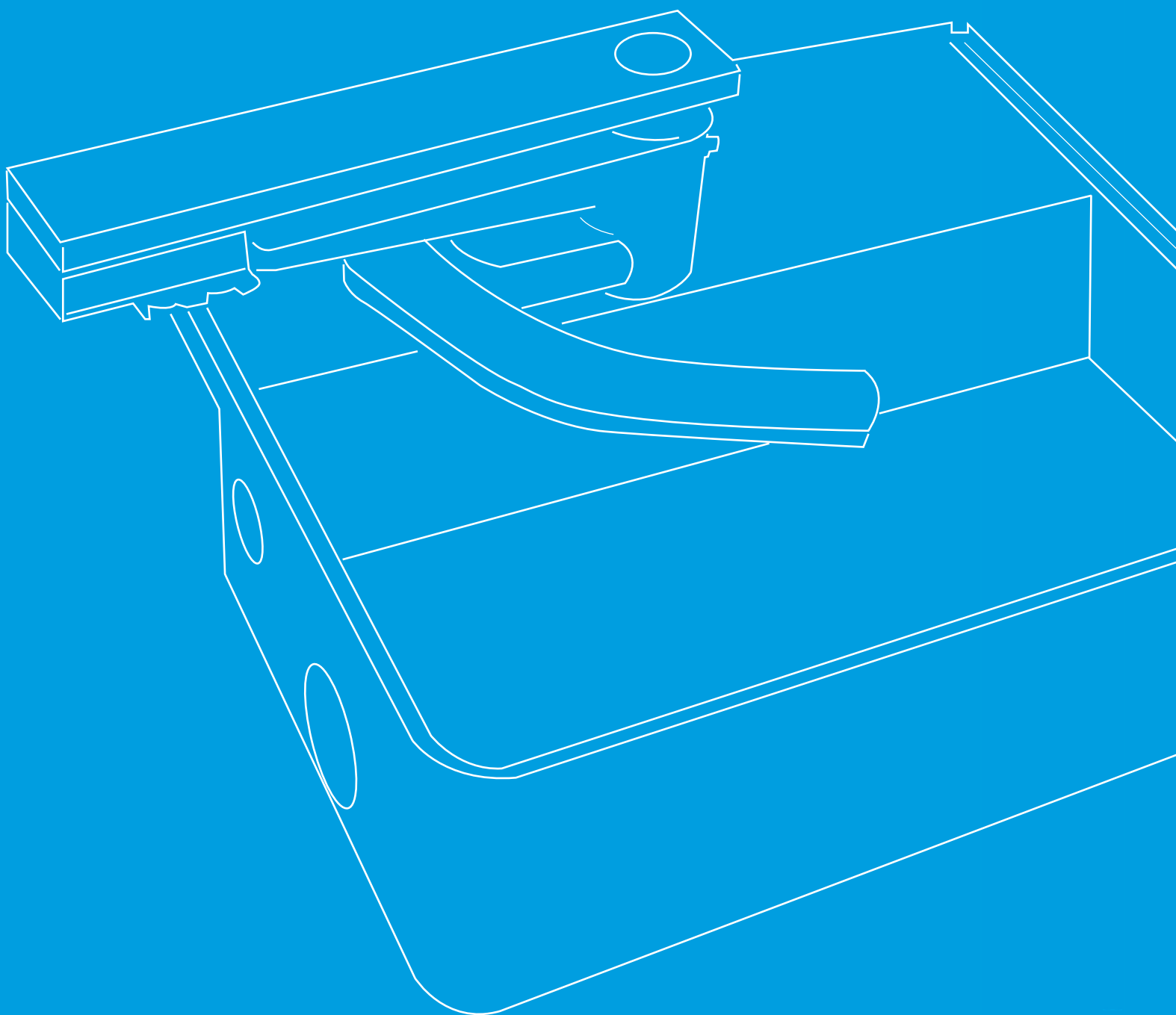


The complete range



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.





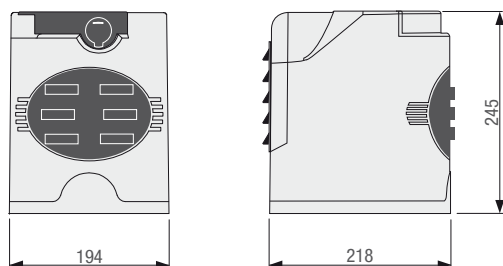
Gate-leaves of up to 2.3 m / 7.5 ft

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

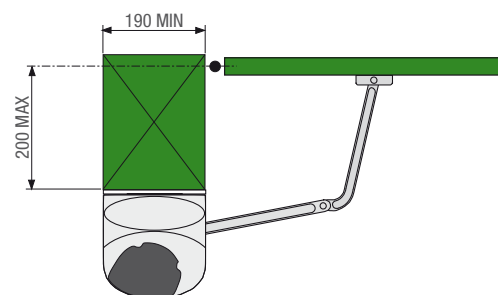


- Installed quickly and easily, even on medium and large gate posts.
- Handy release lever for manually opening the gate.
- The 001F7024N model features a simplified connection system with a single cable containing three conductors to handle both the motor and the encoder.
- The 24 V version can function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



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.

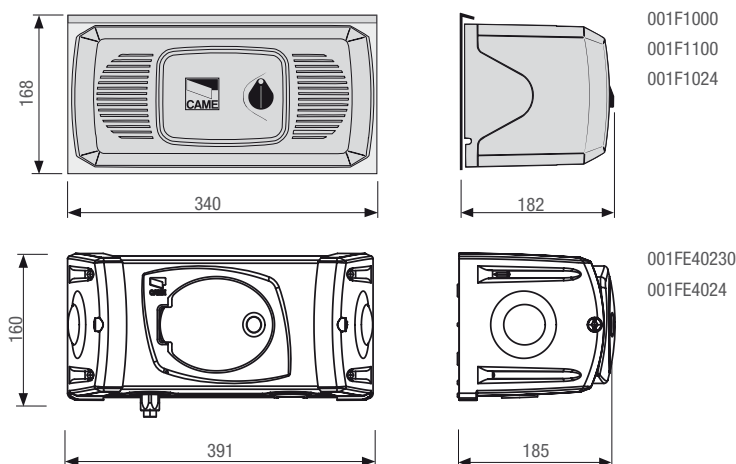




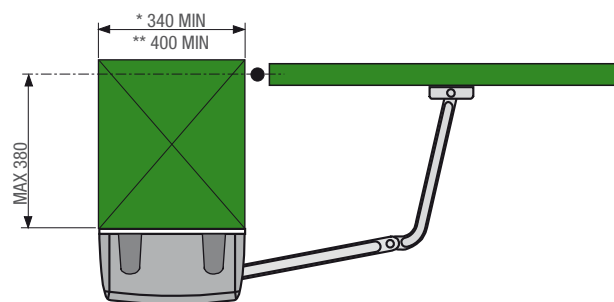
Ideal solution for residential or apartment-block applications on large posts

- 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.

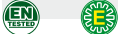
Technical features

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.

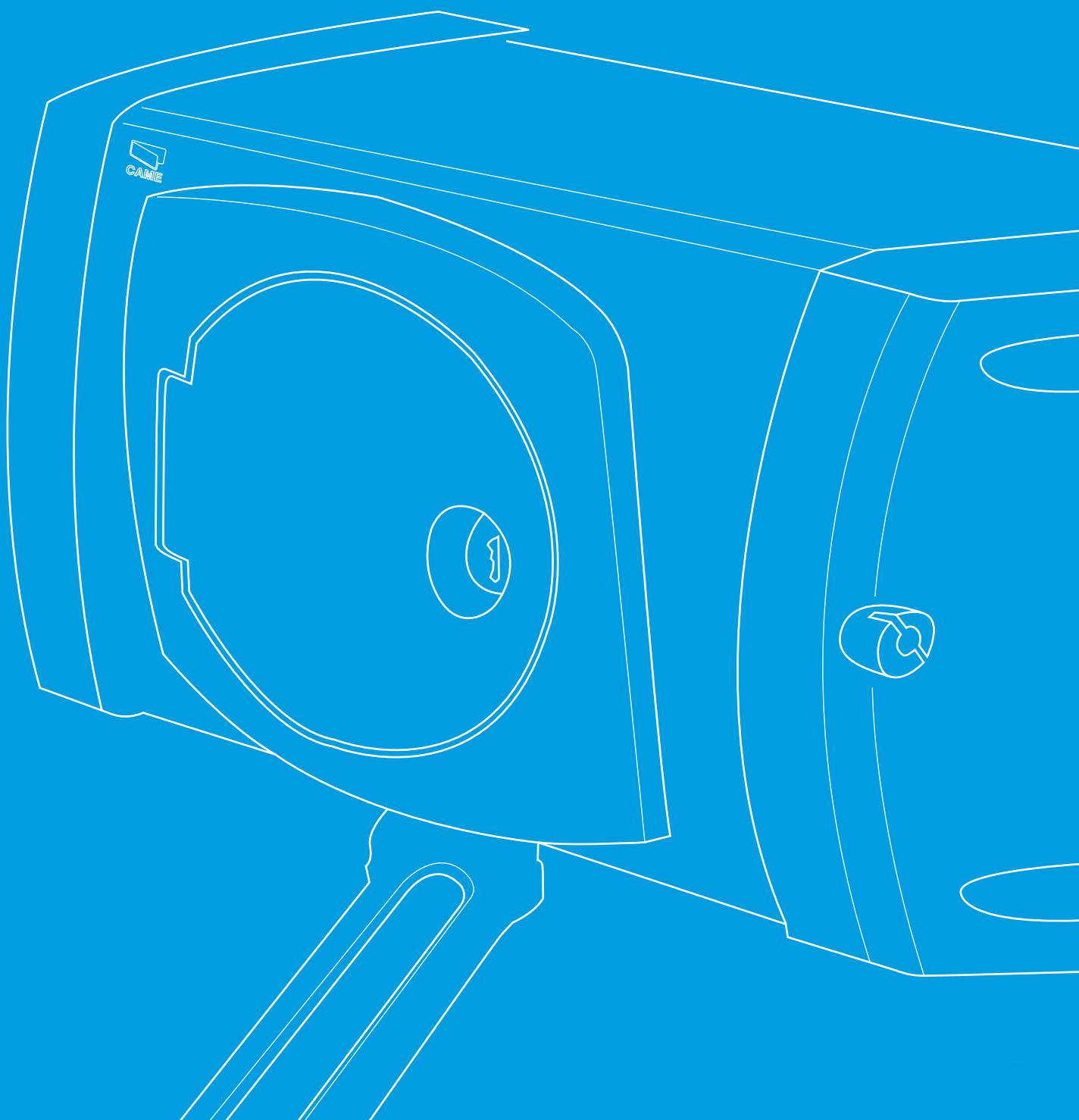


The complete range



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.





Super Frog

Gate-leaves of up to 8 m / 26 ft

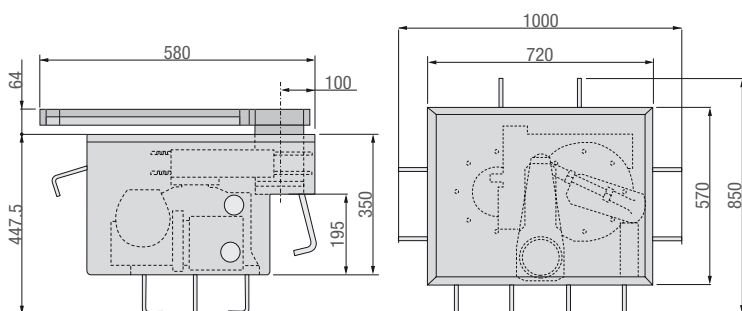


The hide-away solution for those special or exceptional applications

- 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)

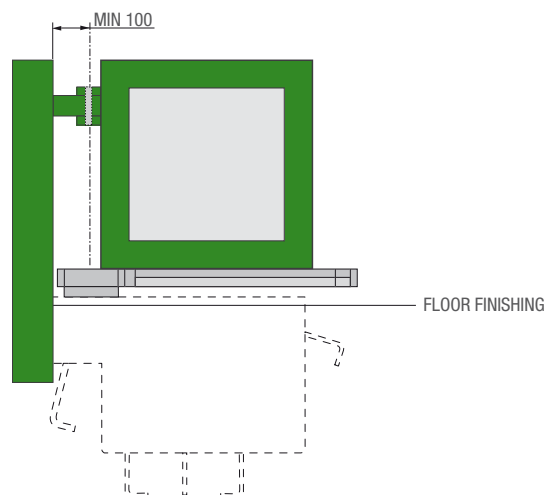


Limits to use

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

Application (mm)



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



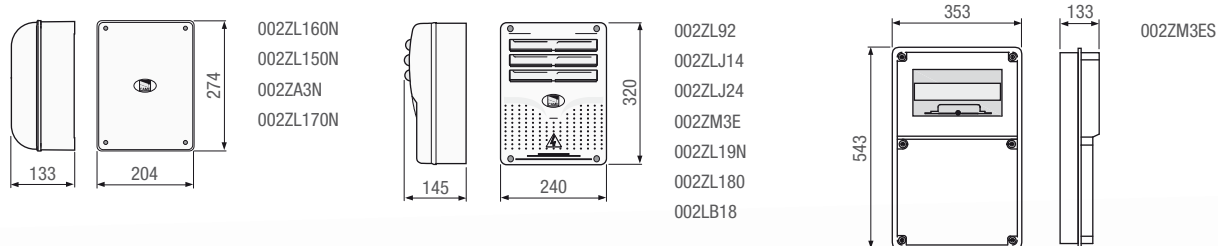
Code	Description
230 - 400 V AC 3-phase underground operators	
001 FROG-MD	Right-hand self-locking operator for gate-leaves of up to 8 m / 26 ft.
	
001 FROG-MS	Left-hand self-locking operator for gate-leaves of up to 8 m / 26 ft.
	
230 - 400 V 3-phase control panel	
002 ZM3ES	Multifunction control panel 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)





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**



76	Your selection guide
78	European Norms
82	Complete systems
88	Ver
90	Emega
92	Summary table of functions



Your selection guide

Overhead and sectional garage door operators

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.

Standard Installation: COUNTERWEIGHTED PARTIALLY RETRACTING OVERHEAD GARAGE DOOR



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
 - L** Control panel
 - Q** Junction box
 - R** Transmission levers
 - S** Pull-cord release device
 - X** Radio receiver
 - Y** Square transmission tube
- (key – code – card or transponder keyfob).

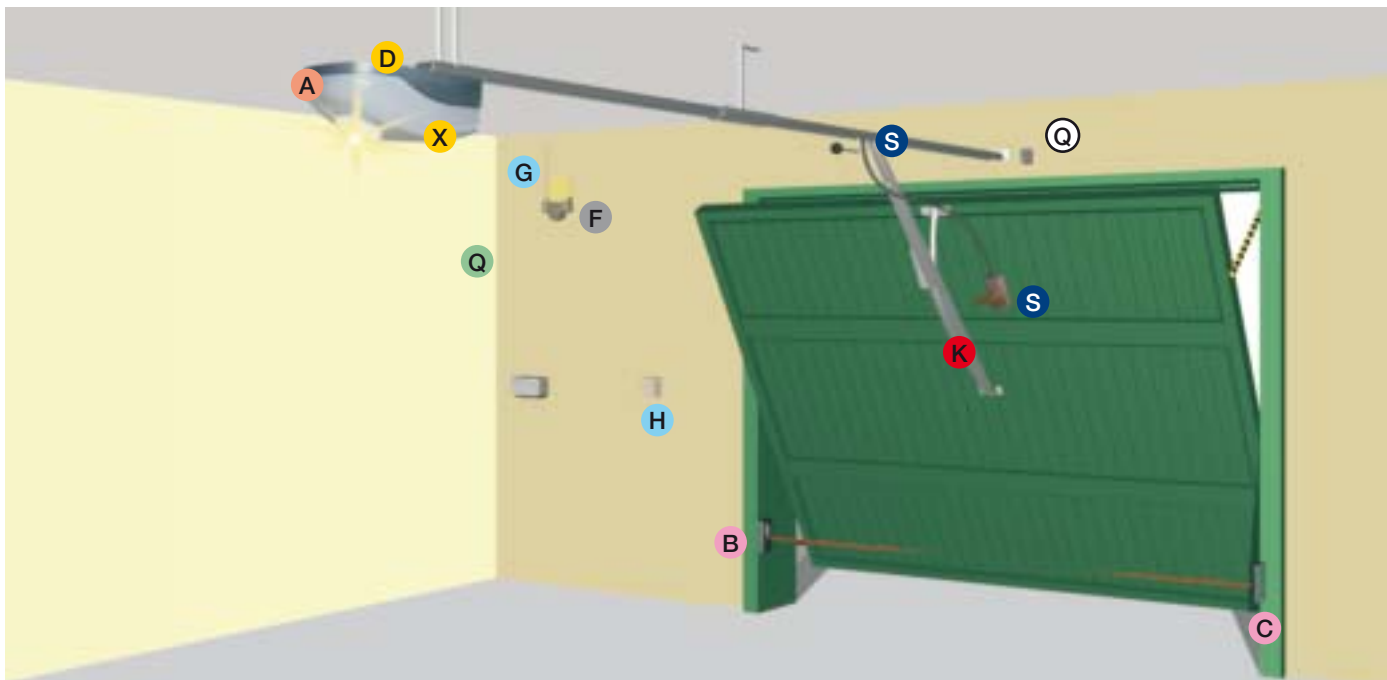
Which cables to use

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
24 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

Standard Installation: COUNTERWEIGHTED PARTIALLY RETRACTING OVERHEAD GARAGE DOOR

Mounting the operator onto the ceiling



The products

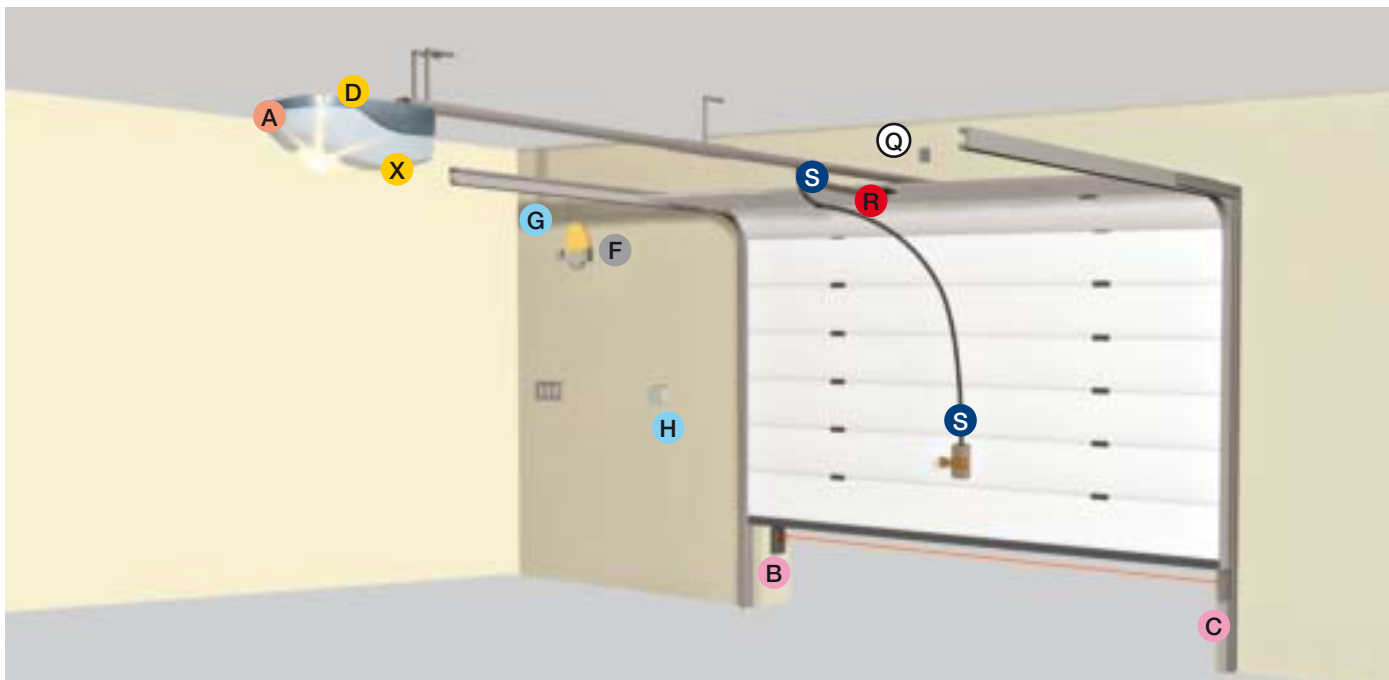
- A** Operator for overhead and sectional garage doors
- B** TX photocells
- C** RX photocells
- D** Control and battery charging card
- E** Safety sensitive edges
- F** Flashing light
- G** Antenna
- H** Command switch
(key – code – card or transponder keyfob).
- K** Adapter arm
- Q** Junction box
- 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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
24 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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
 - F** Flashing light
 - G** Antenna
 - H** Command switch
 - Q** Junction box
 - R** Transmission levers
 - S** Pull-cord release device
 - X** Radio receiver
- (key – code – card or transponder keyfob).

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
24 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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



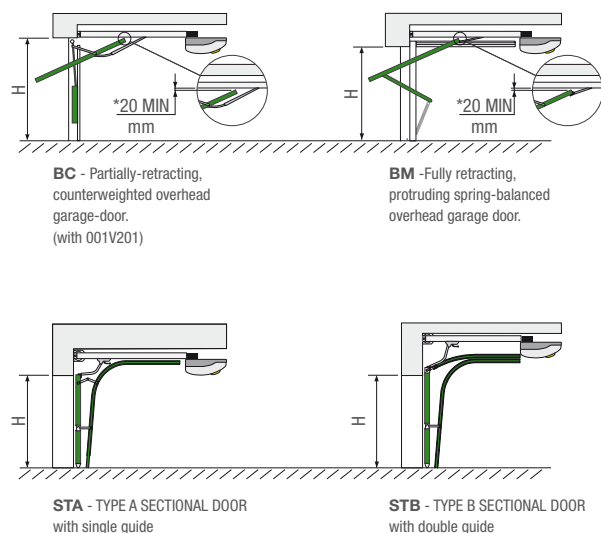
001U4483 Ver basic

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



Application (mm)



H = Max door height

* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets



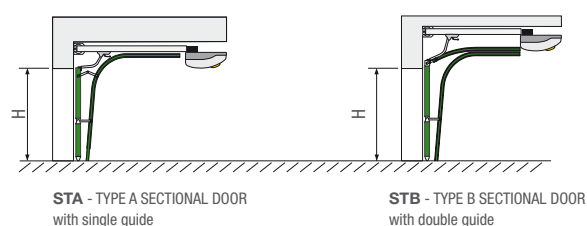
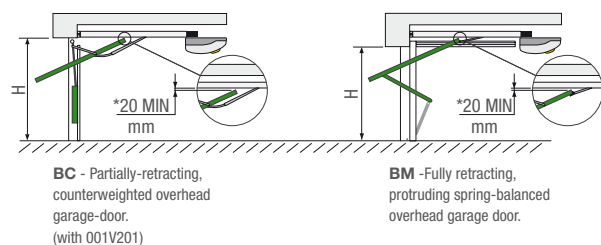
001U4484 Ver plus

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
001V900E 	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 500 N).	1
001V0679	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001AF43S	Plug-in radio frequency card.	1
001DOC-E 	Pair of photocells. Range: 18 m / 59.05 ft.	1
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001KIAR024N 	Flashing light.	1
001TOP-A433N	Antenna.	1
001TOP-RG58	Antenna cable.	m 5
001SET-J	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Door plate.	1



Application (mm)



H = Max door height

* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets



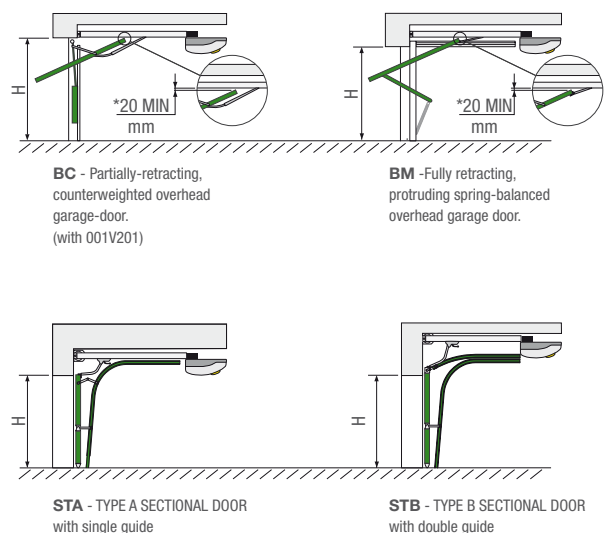
001U4510 Ver basic

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



Application (mm)



H = Max door height

* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets



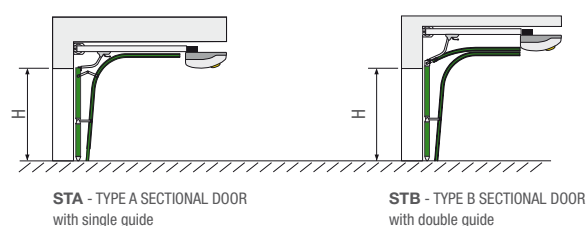
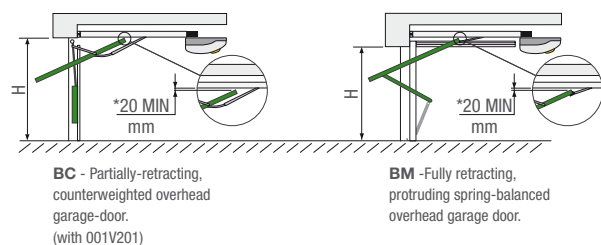
001U4511 Ver plus

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
001V700E 	Complete automation system with encoder-based control panel, for sectional doors and overhead counterweighted and spring-loaded doors (Traction force 850 N).	1
001V0679	Chain guide L = 3.02 m / 9.90 ft * Max door height: * BC = 2.4 m / 7.87 ft - BM = 2.25 m / 7.38 ft - STA = 2.1 m / 6.88 ft - STB = 2.2 m / 7.21 ft.	1
001AF43S	Plug-in radio frequency card.	1
001DOC-E 	Pair of photocells. Range: 18 m / 59 ft.	1
001TAM-432SA	Bi-channel multi-user transmitter. 16,777,216 combinations with self-learning function.	1
001KIAR024N 	Flashing light.	1
001TOP-A433N	Antenna.	1
001TOP-RG58	Antenna cable.	m 5
001SET-J	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Door plate.	1



Application (mm)



H = Max door height

* While moving the door max dimension in height is equal to around 2/3 of the opening

Complete sets



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

Complete sets



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



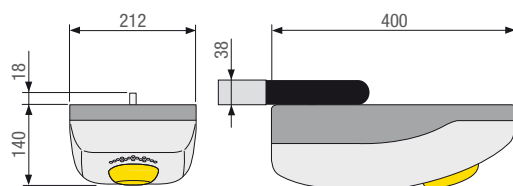
Max traction force 850 N



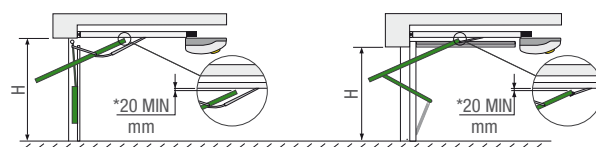
Ideal solution for sectional and overhead garage-doors for residential settings

- 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)

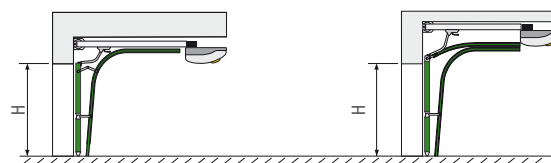


Application (mm)



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

NOTE:

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

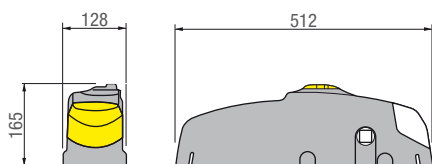




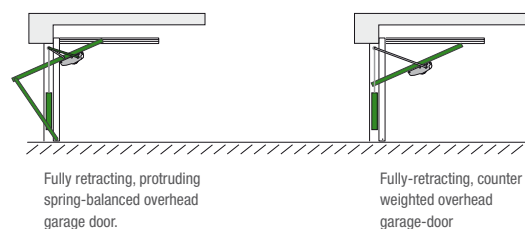
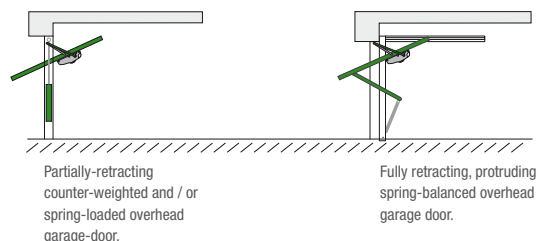
Ideal solution for overhead garage-door with anchoring of the operator on the door surface

- 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



Limits to use

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

● 230 V AC ● 24 V DC

NOTE:

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

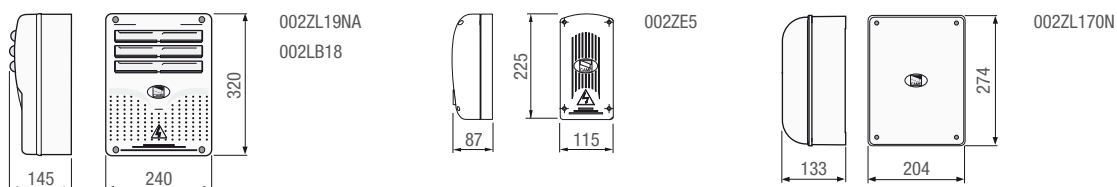


Electronic functions

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)





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**



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114	Gard 12
116	Summary table of functions



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.



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

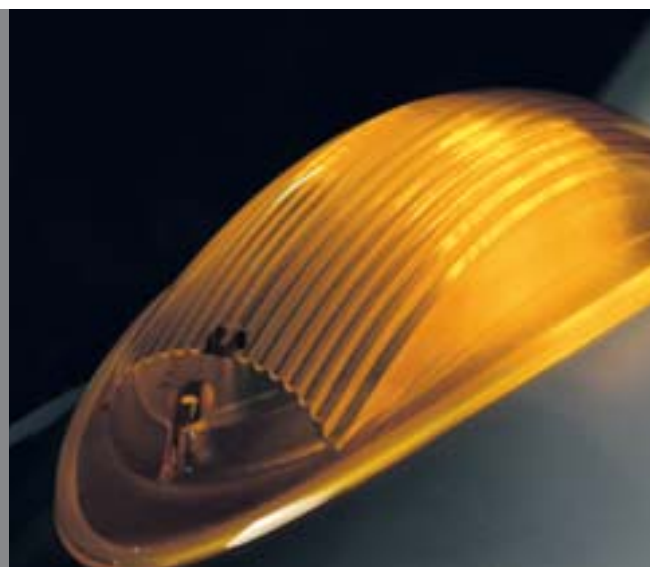


Barrier for LARGE PASSAGEWAYS

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.

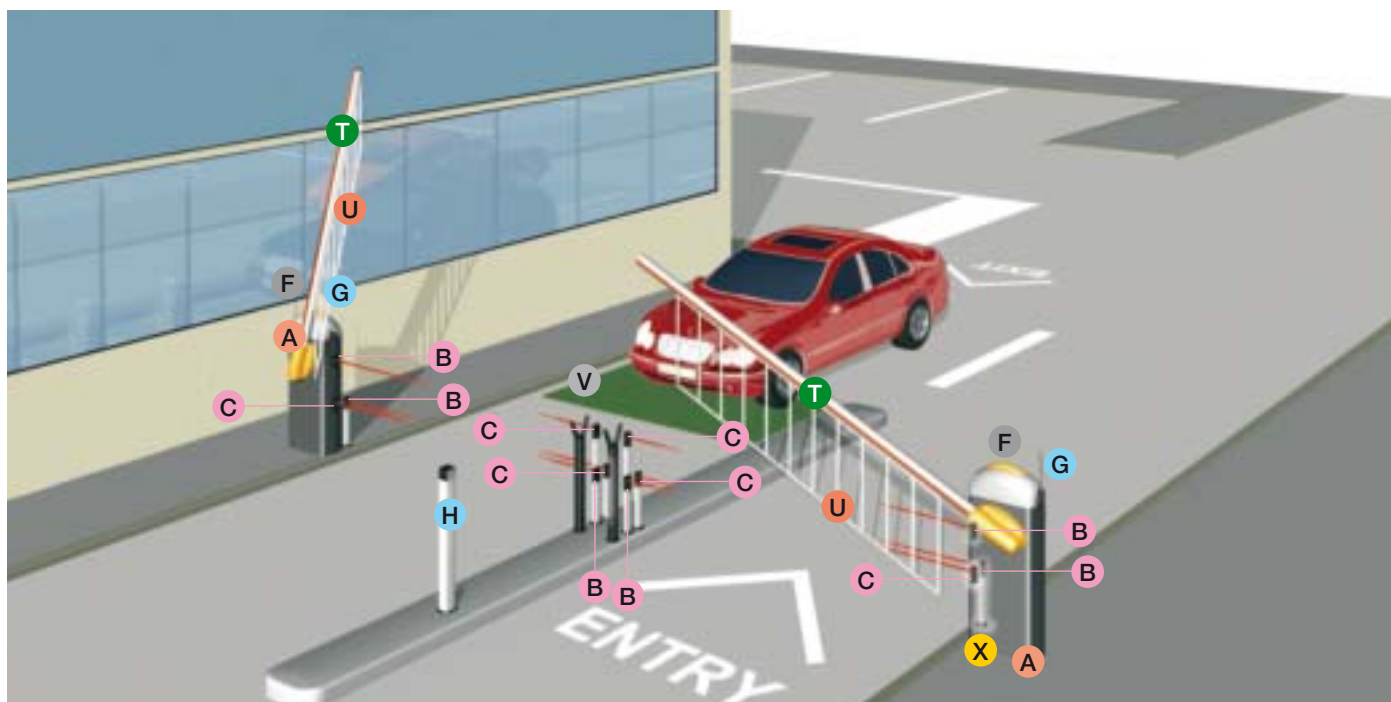
A Barrier
F Flashing light
G Antenna
H Command switch
 (key – code – card or transponder keyfob)

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

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	

Standard Installation: DOUBLE BARRIER

INTENSIVE use



The products

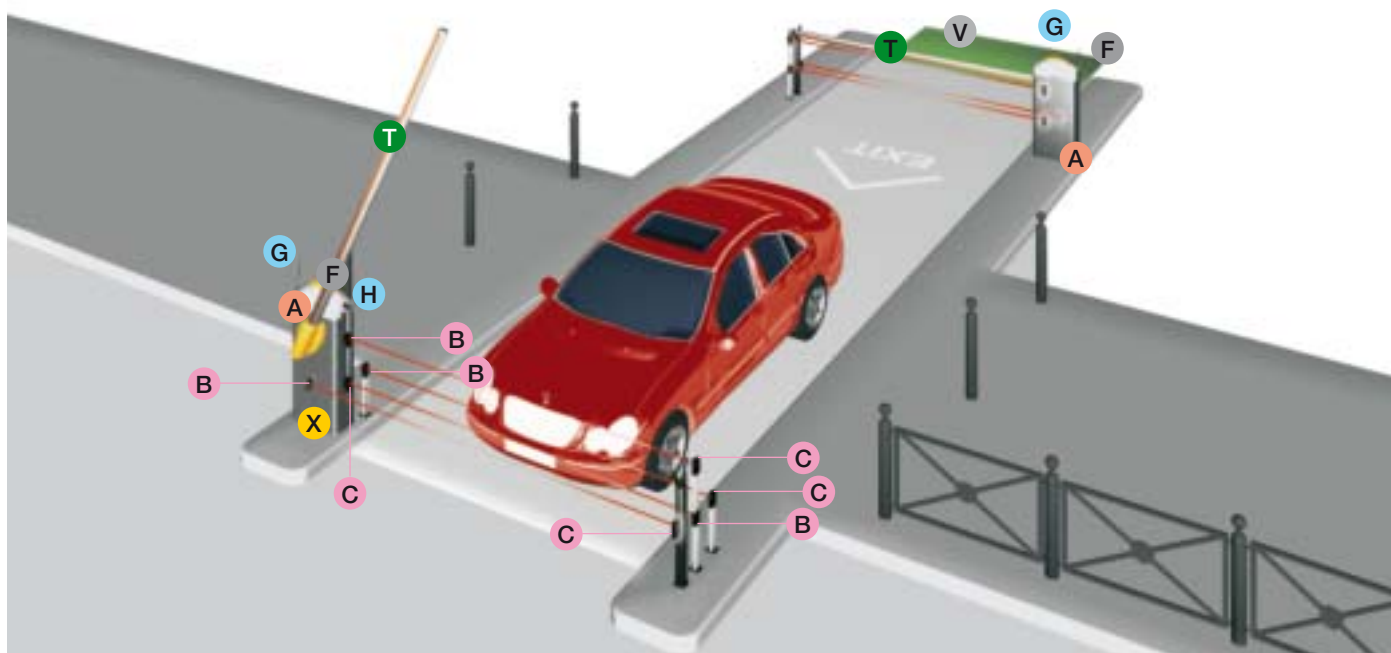
- A Barrier
 - B TX photocells
 - C RX photocells
 - F Flashing light
 - G Antenna
 - H Command switch
 - T Boom with luminous cord
 - X Radio receiver
 - U Rack
 - V Metal mass detection sensor
- (key – code – card or transponder keyfob).

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. X AWG20	*n x 0.5 mm ² / n. X AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. X AWG20	*n x 0.5 mm ² / n. X AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

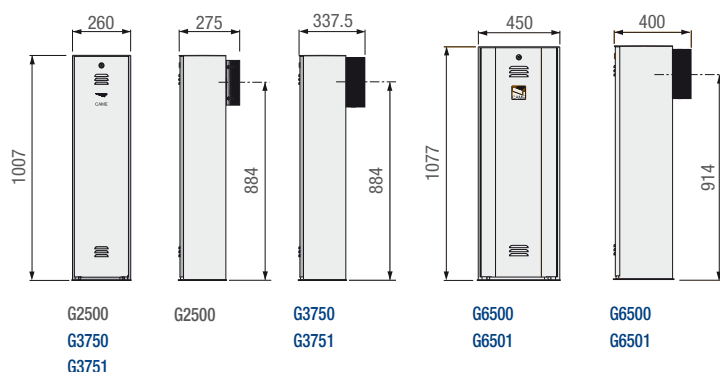
Passage clearance of up to 6.5 m / 21.30 ft



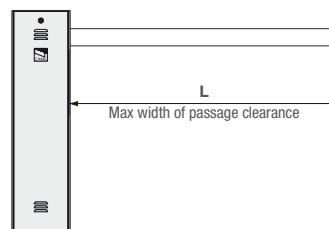
The ideal solution for medium-to-large transit in apartment blocks and industrial facilities

- 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)



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



Code	Description
24 V DC barriers with operator and built-in control panel	
001G3750	Galvanised and painted steel barrier fitted to take additional accessories.
001G3751	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G3750 - 001G3751	
001G03750	White painted semi-elliptic tubular aluminium boom L = 4 m / 13.12 ft, with slot-cover and shock-resistant profile.
001G0402	White painted tubular aluminium boom Ø 60 mm / 2.36 in L = 4,200 mm / 165.35 in.
Accessories for: 001G3750	
001G03756	Inner reinforcement support for semi-elliptic tubular aluminium boom.
001G03755DX	Joint for semi-elliptic tubular aluminium boom. For right-hand barrier.
001G03755SX	Joint for semi-elliptic tubular aluminium boom. For right-left barrier.
24 V DC barriers with operator and built-in control panel	
001G6500	Galvanised and painted steel barrier fitted to take additional accessories.
001G6501	AISI 304 stainless steel barrier with satin finish fitted to take additional accessories.
Accessories for: 001G6500 - 001G6501	
001G0602	White painted tubular bar Ø 100 mm / 3.93 in L = 6.85 m / 22.47 ft.
001G06850	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	●	●	●	●	●	●	●	●	●	●

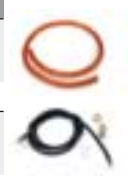
Boom assembly and balancing springs for 001G6500 - 001G6501

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 001G0465 and luminous cord 001G28401	●	●	●	●	●	●	●	●	●	●

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



Code	Description
Accessories for: 001G03750 - 001G06850	
001G028401	Luminous cord for booms.
001G028402	Luminous cord cable.
Accessories for: 001G3750 - 001G3751 - 001G6500 - 001G6501	
002LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
Accessories for balancing (see BOOM ASSEMBLY AND BALANCING SPRINGS table)	
001G02040	Balancing spring Ø 40 mm / 1.57 in.
001G04060	Balancing spring Ø 50 mm / 1.96 in.
001G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001G0465	Painted aluminium rack for booms (2 m / 6.56 ft modules).
001G02807	Fixed support for booms.
001G02808	Mobile support for booms.
001G02809	Package of n. 20 red adhesive refracting strips.
001G0468	Support for applying 001DELTA-I and 001DELTA-SI photocells on the cabinet.
001G04601	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 001G028401 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



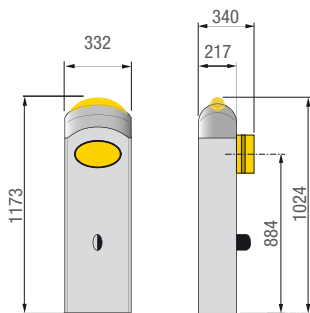
Passage clearance of up to 3.75 m / 12.30 ft

The ideal solution for intensive or vehicle transit

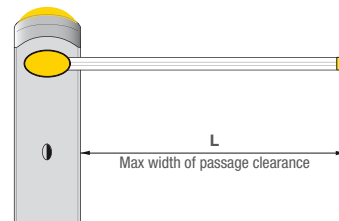


- A modern style barrier, with perfect aesthetics. Suited to any applicative setting.
- The LED dome-shaped flashing light, that provides long-lasting safety and durability, and the photocells that can be integrated into the cabinet.
- The protective casing shields the boom movement from shearing when 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



Code	Description
Accessories for balancing (see BOOM ASSEMBLY AND BALANCING SPRINGS table)	
001G02040	Balancing spring Ø 40 mm / 1.57 in.
001G04060	Balancing spring Ø 50 mm / 1.96 in.
001G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001G02801	Dome-shaped flashing light.
001G02802	Support for series Dir photocells.
001G03751	Emergency battery rack.
001G03750	White painted semi-elliptic tubular aluminium boom with slot cover and impact-resistant profiles. L = 4 m / 13.12 ft.
001G03752	White painted elliptic tubular aluminium boom with slot cover profile L = 4 m / 13.12 ft.
001G028401	Luminous cord for booms.
001G028402	Luminous cord cable.
001G0465	Painted aluminium rack for boom (2 m / 6.56 ft modules).
001G02807	Fixed support for booms.
001G02808	Mobile support for booms.
001G02809	Package of n. 20 red adhesive refracting strips.
Accessories for: 001G03750	
001G03756	Inner reinforcement support for semi-elliptic tubular aluminium boom.
001G03755DX	Joint for semi-elliptic tubular aluminium boom. For right-hand barrier.
001G03755SX	Joint for semi-elliptic tubular aluminium boom. For right-left barrier.
Accessories for: 001G03752	
001G03753	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.

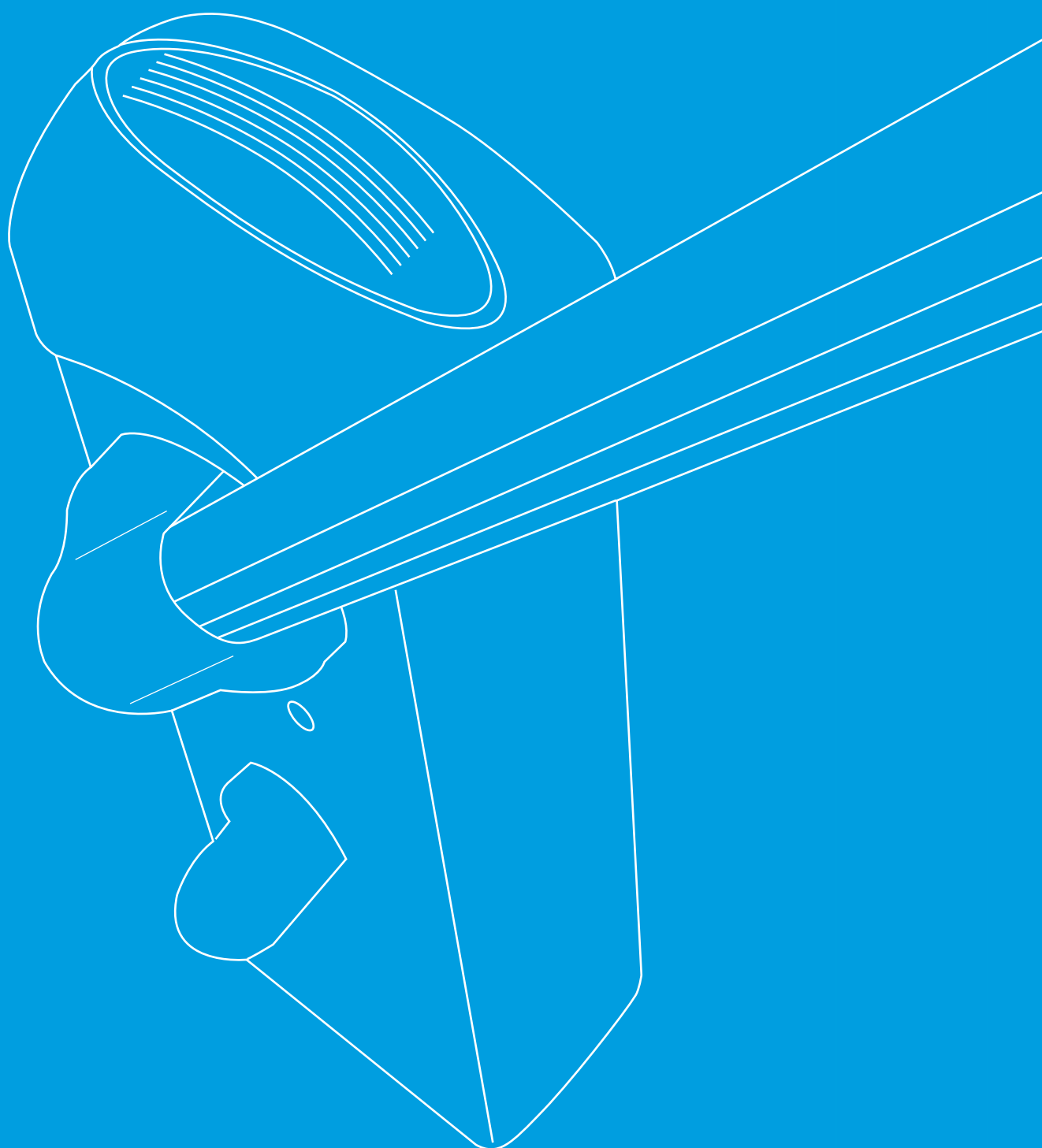
001G02808 MUST be used on barrier booms with passage clearance widths of up to 3 m maximum.

001G03756 MUST be used on barrier booms with passage clearance widths greater than 3 m, fitted with the 001G028401 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 8



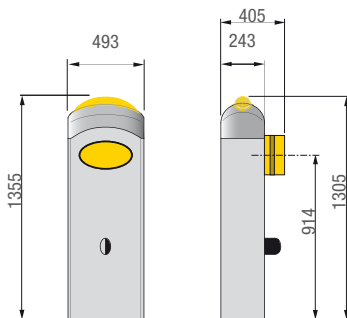
Passage clearance of 7.6 m / 25 ft



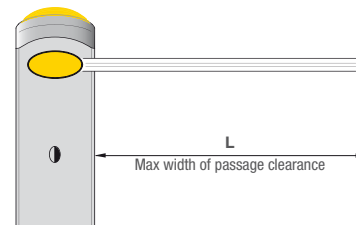
The ideal solution for large passageways in apartment blocks and industrial facilities

- 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)	
001G02040	Balancing spring Ø 40 mm / 1.57 in.
001G04060	Balancing spring Ø 50 mm / 1.96 in.
001G06080	Balancing spring Ø 55 mm / 2.16 in.
Accessories	
001G02801	Dome-shaped flashing light.
001G02802	Support for series Dir photocells.
001G02805	Emergency battery rack.
001G02000	White painted aluminium tubular boom Ø 100 mm / 3.93 in complete with slot cover profile L = 2 m / 6.56 ft.
001G04000	White painted aluminium tubular boom Ø 100 mm / 3.93 in complete with slot cover profile L = 4 m / 13.12 ft.
001G06000	White painted aluminium tubular boom Ø 100 mm / 3.93 in complete with slot cover profile L = 6 m / 19.68 ft.
001G06803	Boom joint complete with internal reinforcement.
001G028401	Luminous cord for booms.
001G028402	Luminous cord cable.
001G0465	Painted aluminium rack for boom (2 m / 6.56 ft modules).
001G02807	Fixed support for booms.
001G02808	Mobile support for booms.
001G02809	Package of n. 20 red adhesive refracting strips.
001G028011	Break-away boom fitting.
Accessories for: 001G06000	
001G06802	Internal reinforcement for tube booms applied to barriers with passage widths greater than 4 m.



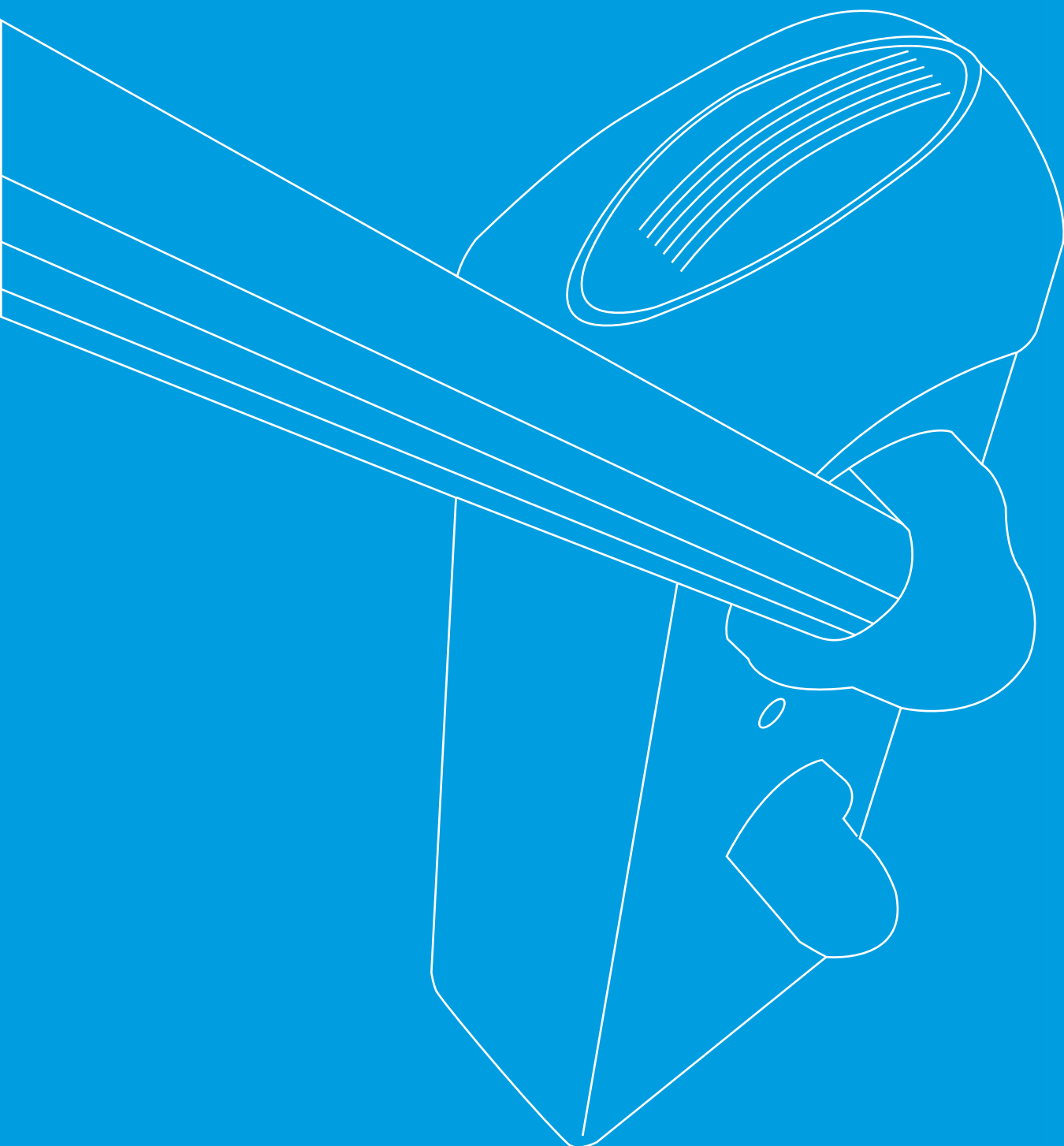
WARNING: RESPECT THE LIMITS OF USE DETAILED IN THE CATALOGUE

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.



Gard 12

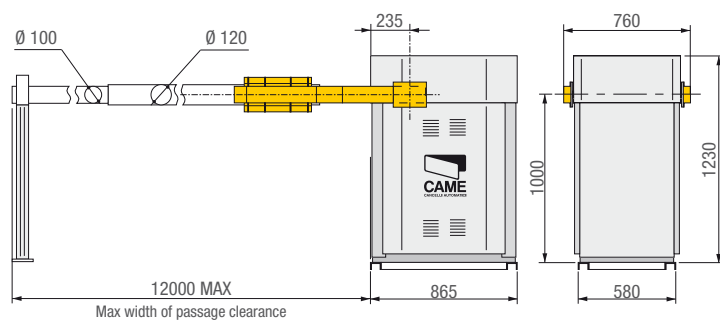
Clearance of 12 m / 40 ft



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.





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**



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122	European Norms
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128	Cbx
132	Summary table of functions



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.



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.



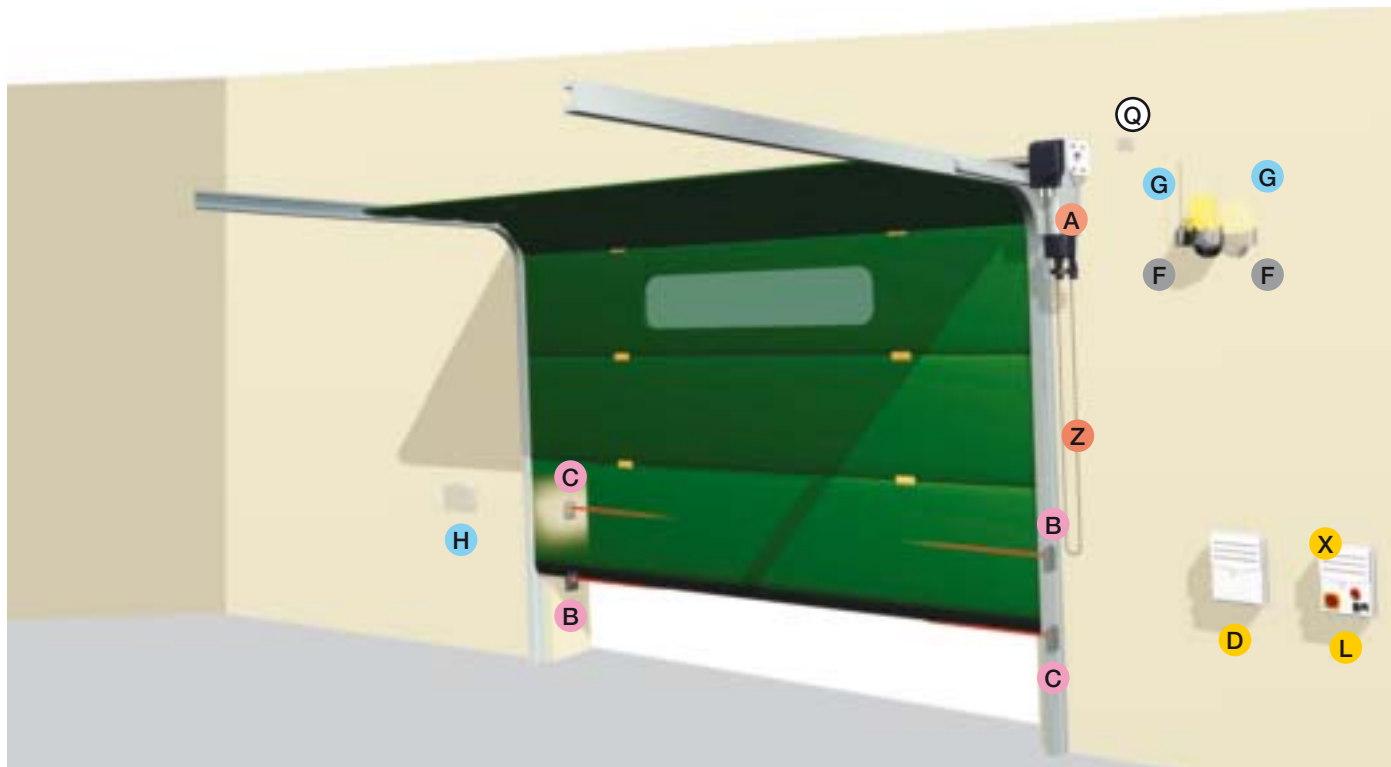
EN TESTED: CAME's added value

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.

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

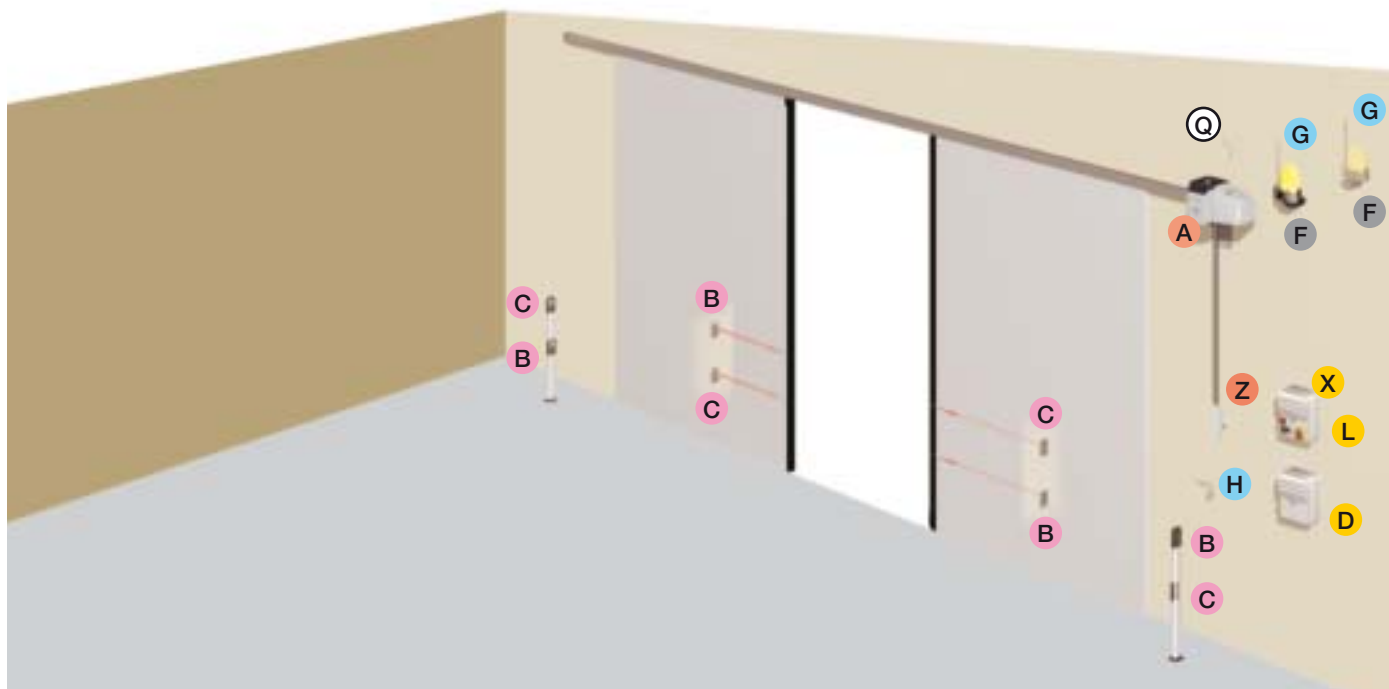
Which cables to use

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

Standard Installation: SLIDING DOOR

Chain TRANSMISSION



The products

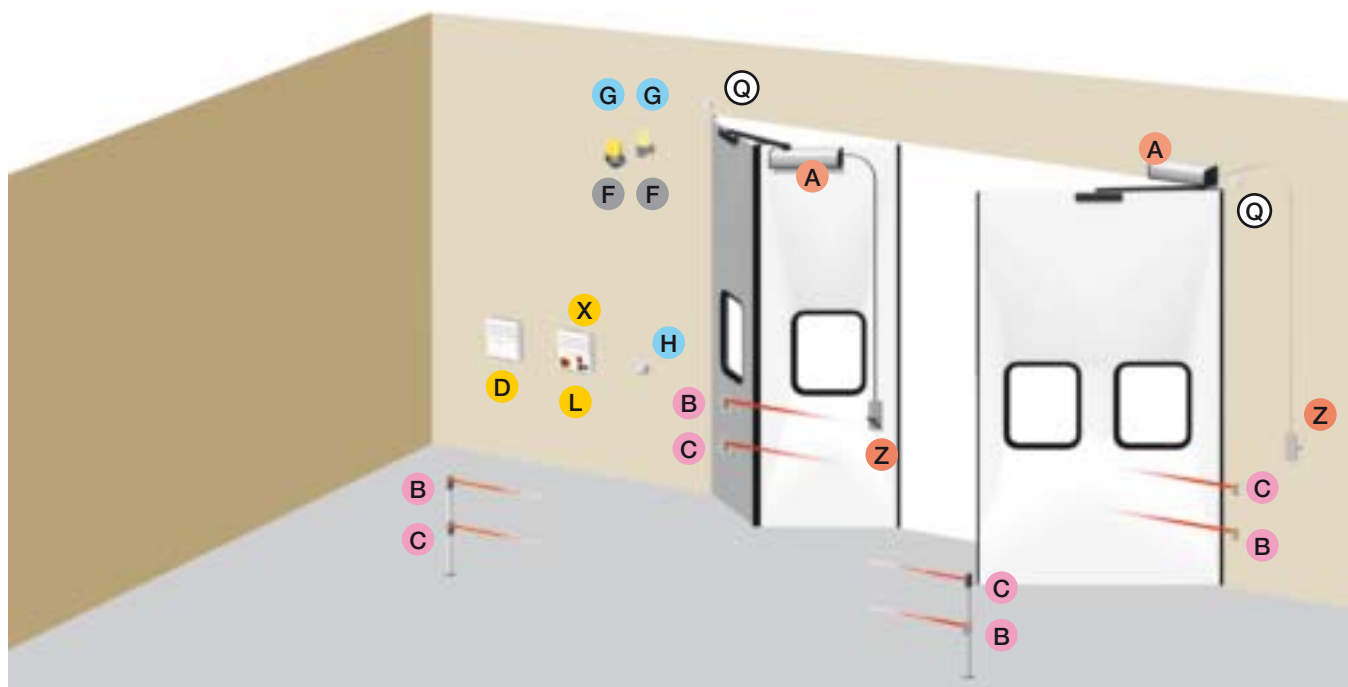
- A** Operators for sliding doors
- B** TX photocells
- C** RX photocells
- D** Control and battery charging card
- F** Flashing light
- G** Antenna
- H** Command switch
(key – code – card or transponder keyfob).
- L** Control panel
- Q** Junction box
- X** Radio receiver
- Z** Release device

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / 4G x AWG14	4G x 1.5 mm ² / 4G x AWG14	4G x 2.5 mm ² / 4G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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

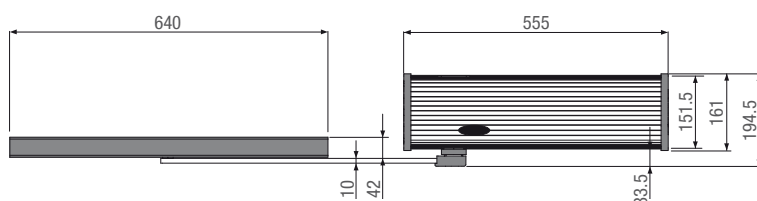


The ideal solution for swing and folding door applications



- 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.



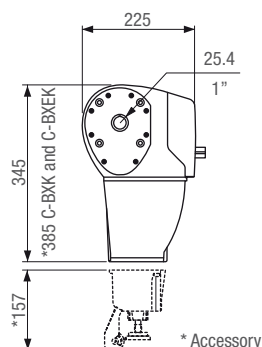
Doors of up to 11 m / 36 ft

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



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

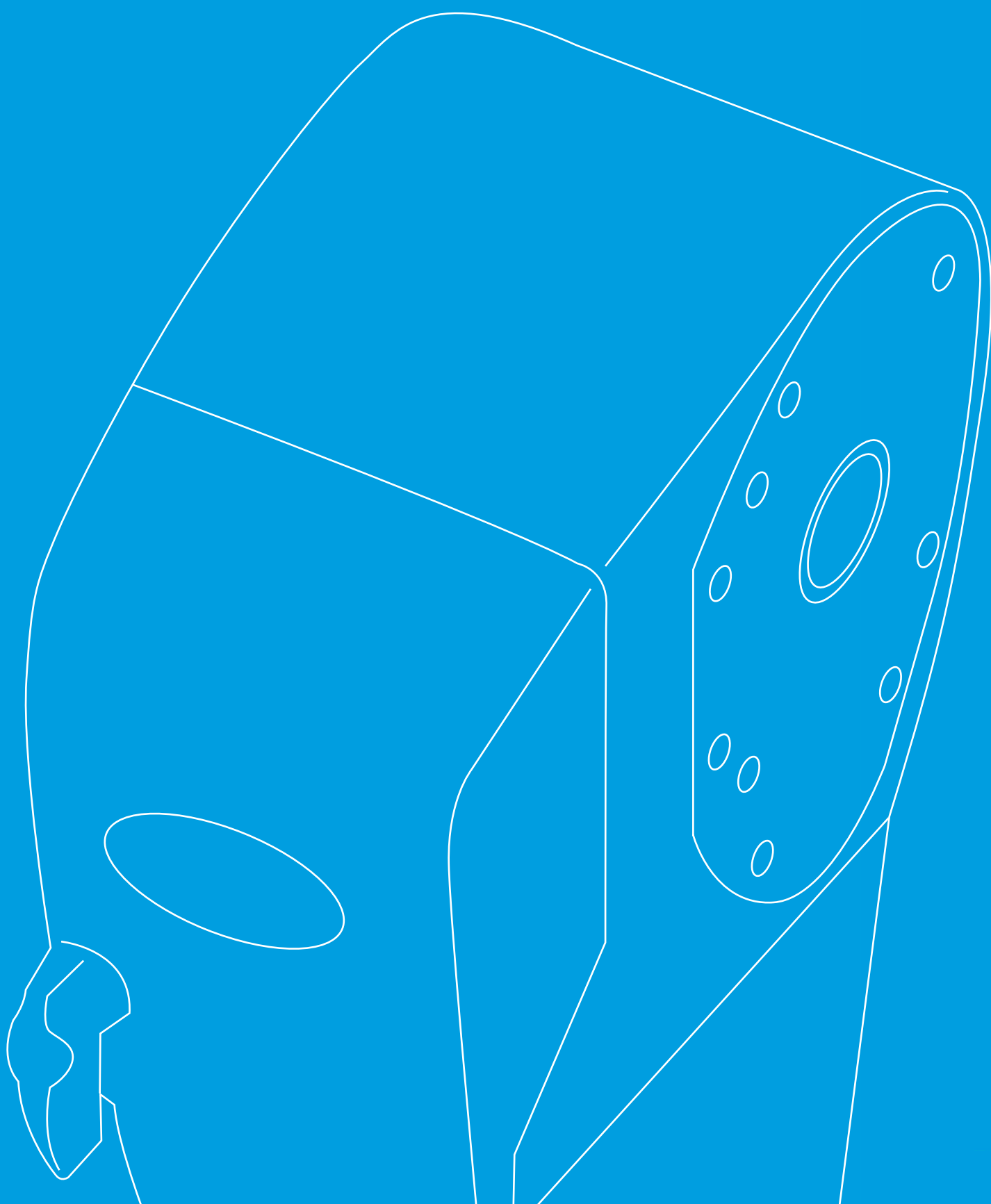


The complete range



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.



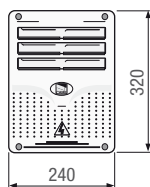
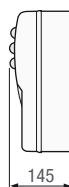


Electronic functions

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





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



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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 ROLLING SHUTTERS	
H	H1003	120/265
	H1103	
	H2003	200/440
	H2103	
● 230 V AC		

Series	Model	
	Lift capacity (Kg/lb)	
	OPERATORS FOR BLINDS	
Mio	MI050S020	36/79
	MI050S030	55/121
	MI050S040	74/163
● 230 V AC		

Rolling shutters and blinds



Rolling SHUTTER

Ideal for shops, houses and apartment blocks.

Series: H



Rolling BLIND

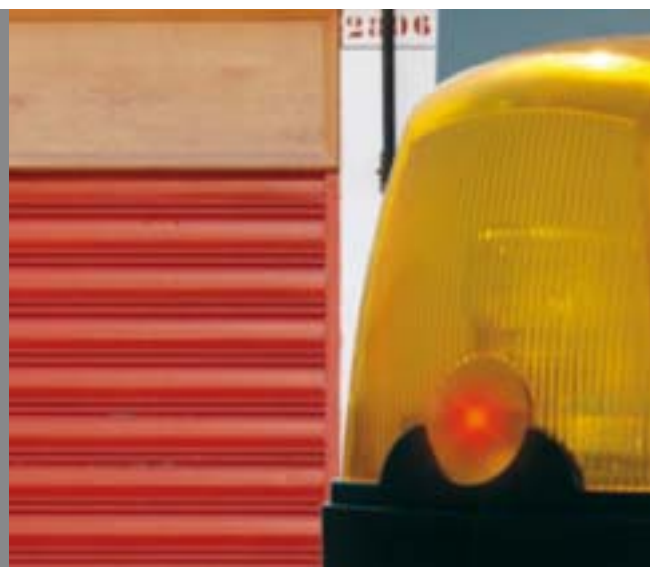
For home, office and generally any working environment.

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**

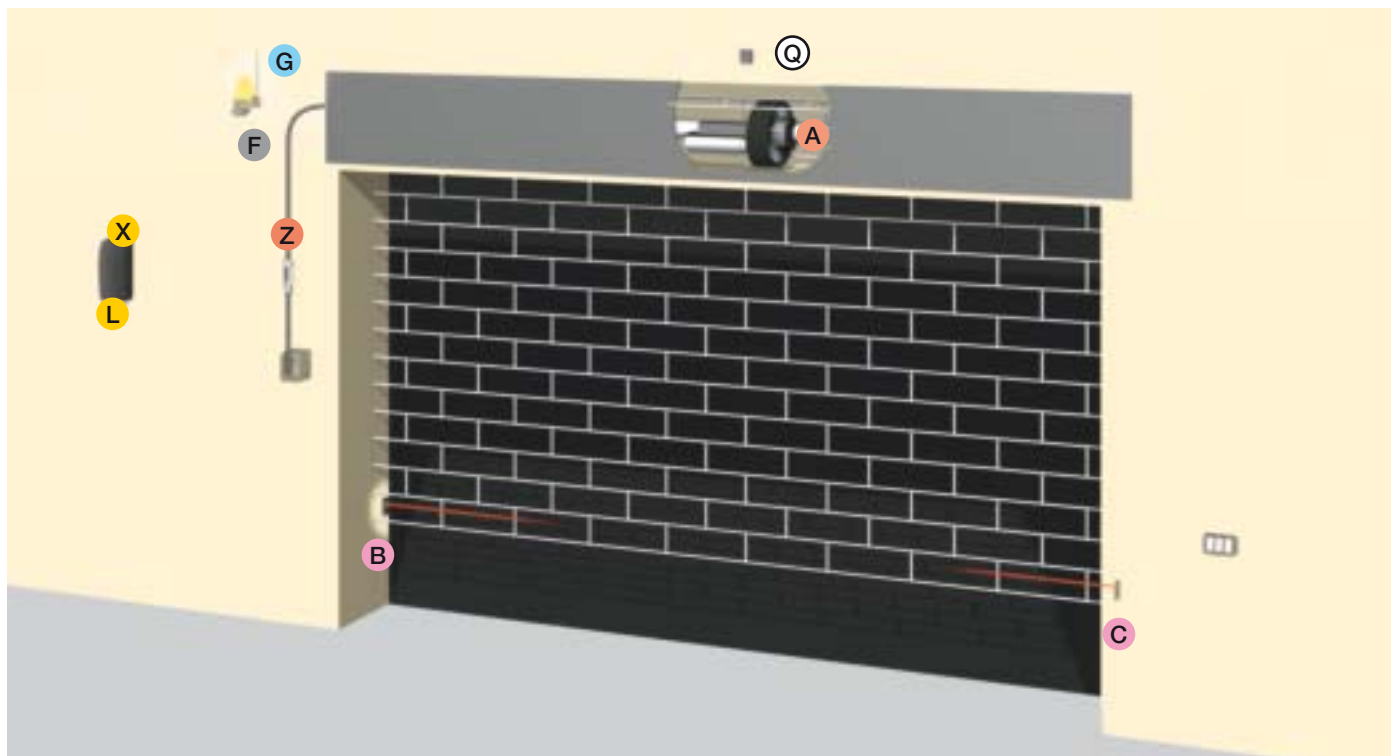
CAME's Dir series synchronised infrared-beam photocells with their reduced dimensions are ideal for installing laterally to the rolling shutter. They are ideal for safe and compliant installations.



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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
12 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1.5 mm ² / 2 x AWG14
24 V DC electric lock	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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



001UAMT001 Mio

Complete set for rolling blinds with 20 N electromechanical tubular gearmotor

Code	Description	Quantity
001MI050S020	Electromechanical tubular gearmotor (20 Nm) with progressive screw-adjusted endpoints (lift capacity = max 36 Kg / 79.36 lb).	1
001AMTAP0916	Adaptor kit for octagonal tubes of 60 mm/ 2.36 in.	1
001AMTAM0947	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin).	1
001AMTAM0511	Standard support.	1
001AMT11653NY	Squared safety insert for 50 series tubular gearmotors.	1
001AMTAM0656	Ø 28 mm / 1.10 in metal bearing with Ø 12 mm / 0.47 in hole.	1
001AMTAM0655	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
001MI050S030	Electromechanical tubular gearmotor (30 Nm) with progressive screw-adjusted endpoints (lift capacity = max 55 Kg / 121.25 lb).	1
001AMTAP0916	Adaptor kit for octagonal tubes of 60 mm / 2.36 in.	1
001AMTAM0947	Ø 60 mm / 2.36 in octagonal shell (with Ø 12 mm / 0.47 in pin).	1
001AMTAM0511	Standard support.	1
001AMT11653NY	Squared safety insert for 50 series tubular gearmotors.	1
001AMTAM0656	Ø 28 mm / 1.10 in metal bearing with Ø 12 mm / 0.47 in hole.	1
001AMTAM0655	Ø 28 mm / 1.10 in bearing holder.	1



Complete sets



001UAMT003 Mio

Complete set for rolling blinds with 40 N electromechanical tubular gearmotor

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



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

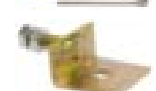
Type	MIO50S020	MIO50S030	MIO50S040
Protection rating IP	IP44	IP44	IP44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Operator weight (Kg)	2.2	2.7	2.8
Current draw (A)	0.57	0.73	0.98
Power (W)	129	168	226
Rotation speed (rpm)	13	13	13
Working time (min)	4	4	4
Torque (Nm)	20	30	40
Operating temperature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



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



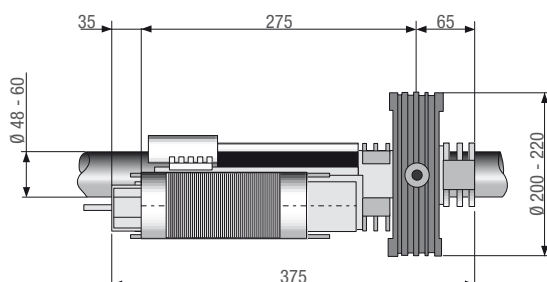
Rated to lift up to 200 Kg / 440 lb

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	
001H1003	Self-locking operator complete with cord-release. (lift capacity: 120 Kg / 265 lb).
001H2003	Self-locking operator with two motors complete with cord-release. (lift capacity: 200 Kg / 440 lb).
001H1103	Reversible operator. (lift capacity: 120 Kg / 265 lb).
001H2103	Reversible operator with two motors. (lift capacity: 200 Kg / 440 lb).
Control panel for 230 V AC operators	
002ZR24	Control panel with built-in radio decoder.
Accessories for: 001H1003 and 001H1103	
001H3100	Reversible gearmotor to combine with 001H1003 and 001H1103 operators.
Accessories for: 001H1103 and 001H2103	
001H3012	Electroblocker for 001H1103 and 001H2103 reversible operators complete with release cord L = 5 m / 16.4 ft and handle.
Accessories for: 001H1003 and 001H2003	
001H3001	Safety casing for cord-release, complete with handle and command button.

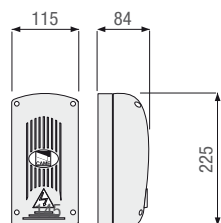


Electronic functions

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



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**



- 150 Your selection guide
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- 160 Summary table of functions



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**

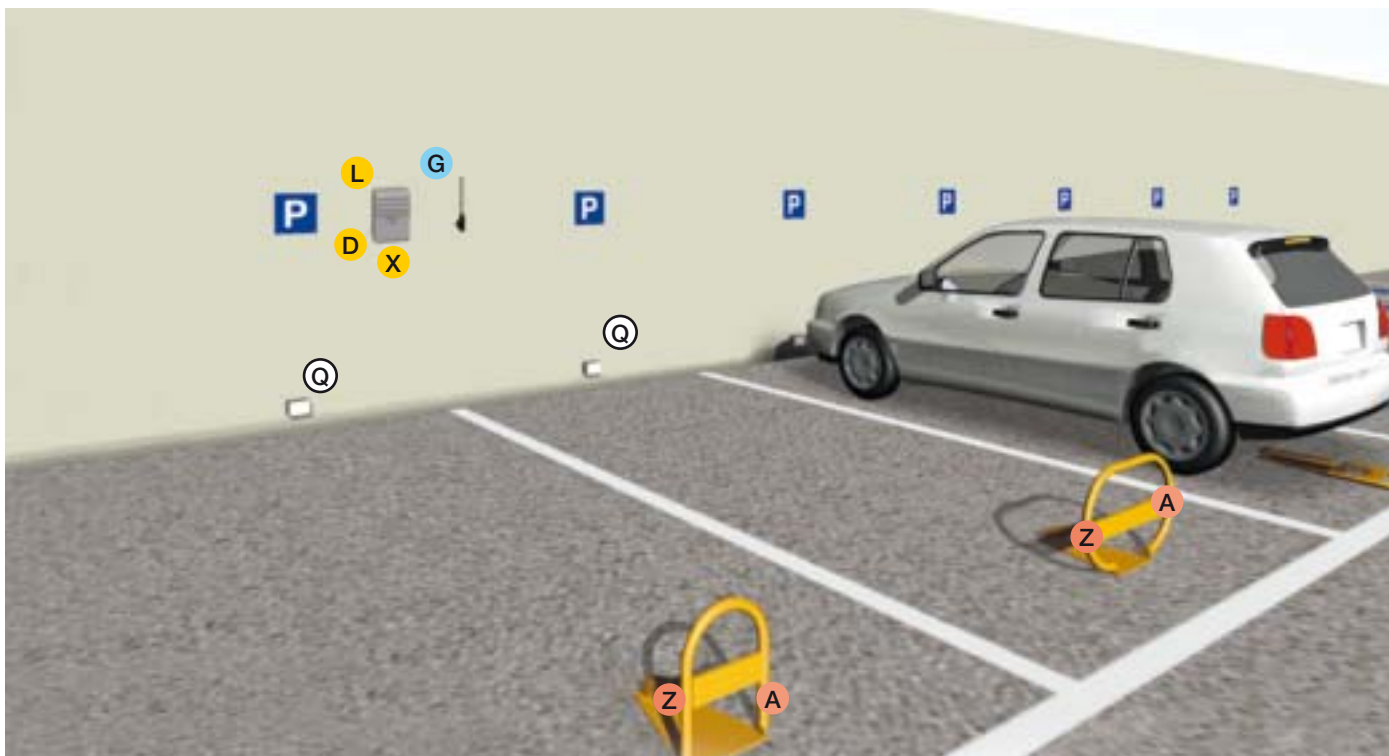
Came synchronised infrared beam photocells of the Delta S series are ideal for safe and compliant installations. Easy to install and with modern design features.



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.

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

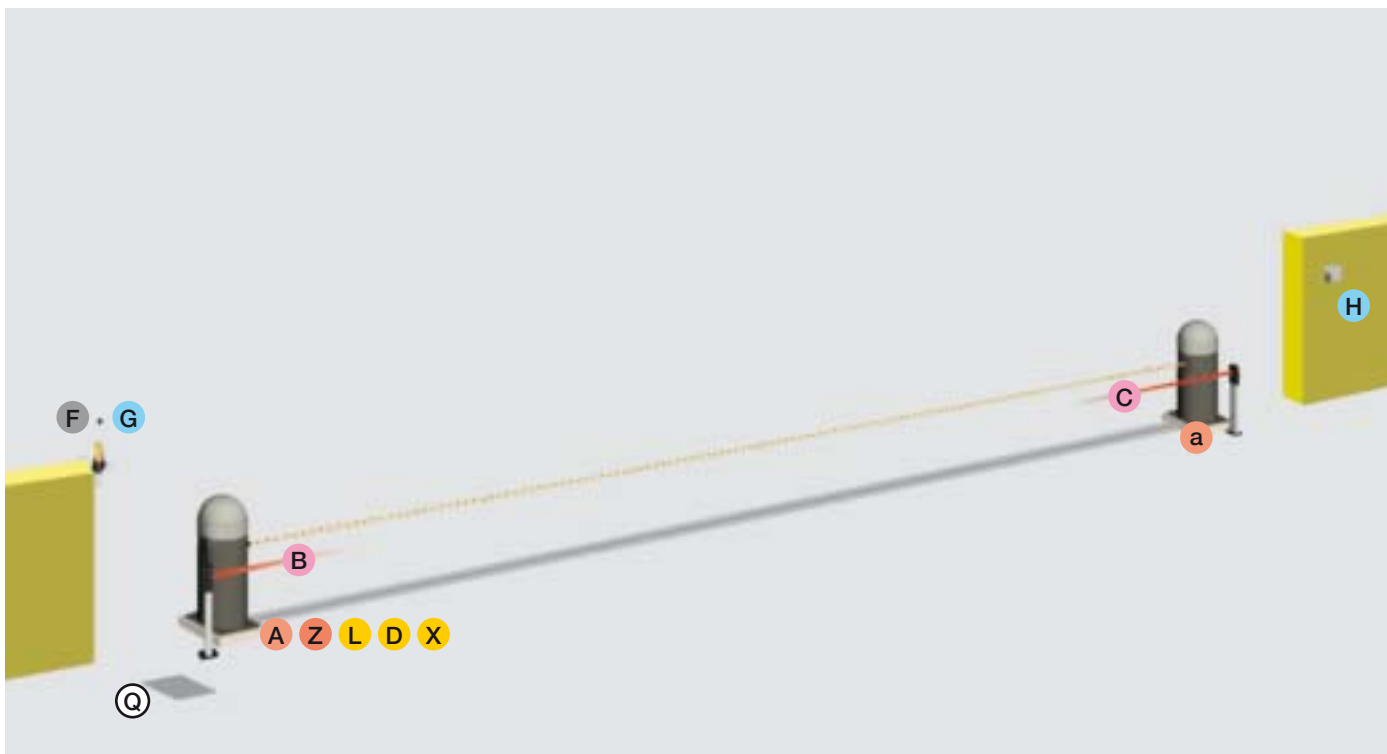
Which cables to use

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ²	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

Standard Installation: CHAIN BARRIER

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ²	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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 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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
230 V AC motor power supply	3G x 1.5 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
24 V DC motor power supply	2G x 1.5 mm ² / 2G x AWG14	2G x 1.5 mm ² / 2G x AWG14	2G x 2.5 mm ² / 2G x AWG12
Endstop microswitches	*n° x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20	*n x 0.5 mm ² / n. x AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16	2 x 1 mm ² / 2 x AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14	2 x 1.5 mm ² / 2 x AWG14
TX photocells	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20	2 x 0.5 mm ² / 2 x AWG20
RX photocells	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20	4 x 0.5 mm ² / 4 x AWG20
Command devices	*n° x 0.5 mm ²	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20
Antenna		RG58 10 m max / 32.8 ft	

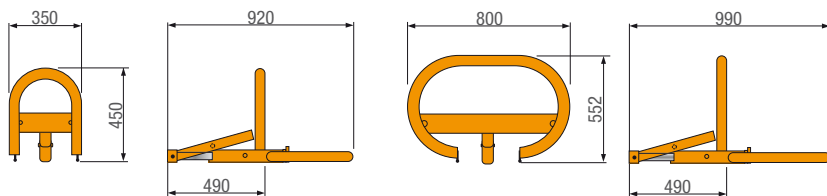
*n° = see product assembly instructions - **Warning:** the cable section is merely indicative and may vary depending on the motor power and cable length.

Parking 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/cm ² - lb/in ²)	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.

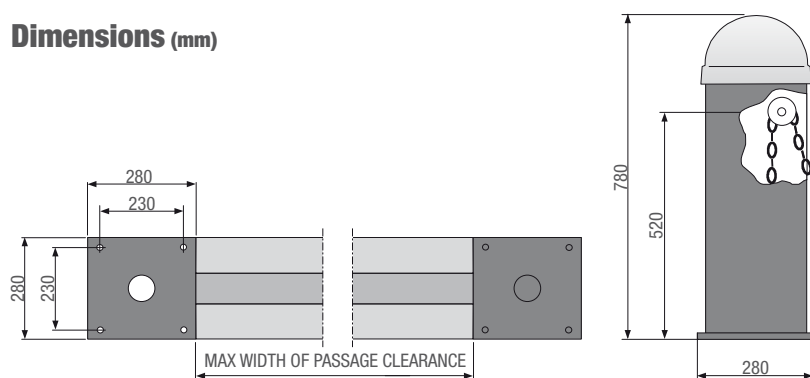


Passage clearance of up to 16 m / 53 ft

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



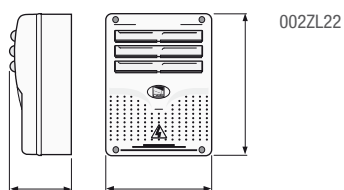
Code	Description
230 V AC chain barrier	
001 CAT-X	Post with operator and built-in control panel.
24 V DC chain barrier	
001 CAT-X24	Post with operator and built-in control panel.
Accessories for: 001CAT-X24	
002 LB38	Card for connecting n. 3 12 V - 7 Ah emergency batteries.
Chain barrier bollard for: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





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



164	Your selection guide	
166	Safety accessories	
168	Radio command accessories	
170	Complete systems	
172	Wave	Home automation
174	Set	Key switch selectors
176	Digital	Digital keypads
178	Kiaro	Flashing lights
180	Df	Safety sensitive edges
182	Delta - Dir - Delta S	Photocells
184	Db	Cordless photocells
186	Atomo	433.92 MHz
188	Tam	433.92 MHz
190	Top	433.92 MHz
192	Twin	433.92 MHz
194	Top	868.35 MHz
196	Top	30.900 MHz
198	Tfm	30.900 MHz
200	Touch	40.695 MHz



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
Sensitive edges	For surface-mounting	Db	RX/TX cordless	001DBS01
	For surface-mounting	Db	RX/TX cordless	001DBS02
	For surface-mounting	Db	Transmitter module	001DBCT
	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
		D	To assemble	001PPA
		D	To assemble	001PPC
Flashing lights	230 V AC	Kiario	Basic	001KIARON
		Kiario	Xenon	001KIAROLXN
		Kiario	Manoeuvre counter	001KIAROIN
	24 V AC - DC	Kiario	Basic	001KIARO24N
		Kiario	Manoeuvre counter	001KIARO24IN
		Kiario	Manoeuvre counter	001KIARO24IN



Command and safety accessories

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	
				001SEM-2	
		S	With magnetic key	001SEM-2	
				001SET-E	
				001SET-EN	
				001SET-J	
	For flush-mounting —	S	Digital	001S6000	
				001SET-I	
Sensors	To build into the panel —	S	Metal mass detection	001SET-K	
				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	
	868.35 MHz —	Twin		001TOP-432S	
				001TWIN2	
		Top		001TWIN4	
				001TOP-862NA	
		Tfm		001TOP-864NA	
				001T152	
	30.900 MHz —	Top		001T154	
				001T158	
		Touch		001TOP-302A	
				001TOP-304A	
	40.685 MHz —			001TOP-3022M	
				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 foreseen 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

001KIAR0IN and 001KIAR024IN 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

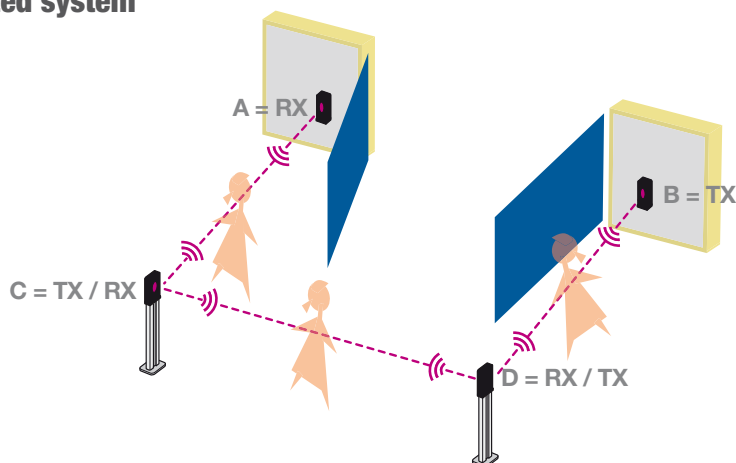
Synchronised infrared beam technology allows 001DELTA-SI and 001DELTA-SE photocells to be installed without being obliged to invert transmitter and receiver positions when the pairs are close to each other.

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

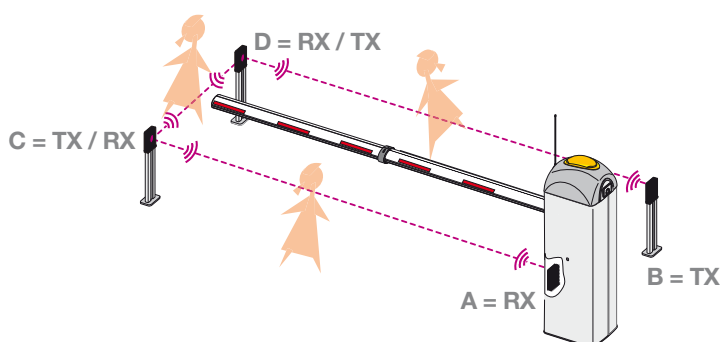
Example of perimeter protection
of an installation with a **SWING GATE**

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



Example of perimeter protection
of an installation with a **ROAD BARRIER**

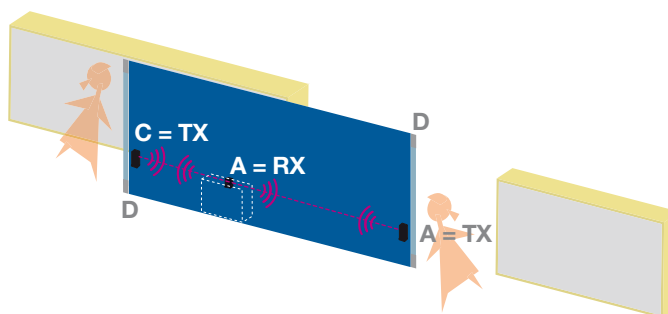
- A = 001DBC01 receiver
- B = 001DBC01 transmitter
- C = 001DBC03 repeater
- D = 001DBC04 repeater



The Db + Df integrated system

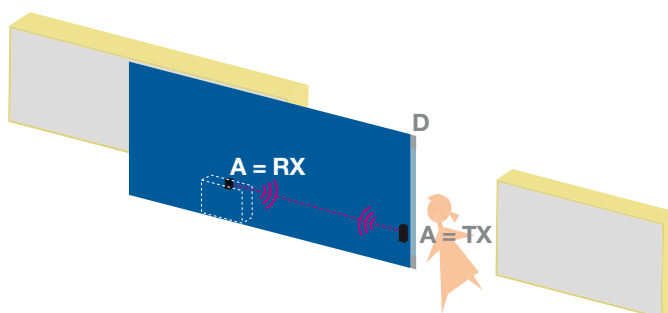
Protection example with integrated system
photocells and sensitive edges with
BIDIRECTIONAL RECEIVER

- 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.

FUNCTION SUMMARY TABLES



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

	Model	CARDS PLUG-IN RECEIVERS								SURFACE-MOUNTED RECEIVERS								RADIO MODULES	
		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



TRA03 - 12-24 V DC Top series

433.92 MHz complete radio system for universal use

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



TRA08 - 230 V AC Top series

433.92 MHz complete radio system for universal use

001TOP-434NA	4-channel multi-user transmitter. 4,096 combinations with self-learning function.	2
001AF43S	Plug-in radio frequency card.	1
001RBE42	230 V AC IP54 surface-mounted 4-channel radio module.	1
001TOP-A433N	Antenna.	1
001TOP-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)

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



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

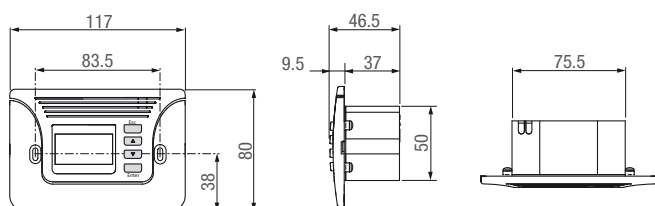


Ideal solution for controlling your house



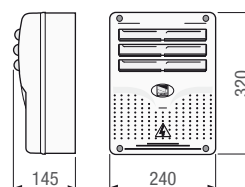
- Commands up to five devices.
- Programmable alarm clock in two time slots.
- Regulates temperatures.
- Programming and managing of: indoor and garden lights, alarm system, gate opening, garden sprinkler.
- Access control in stand-alone mode with transponder cards.
- Multi-language menu.
- Password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



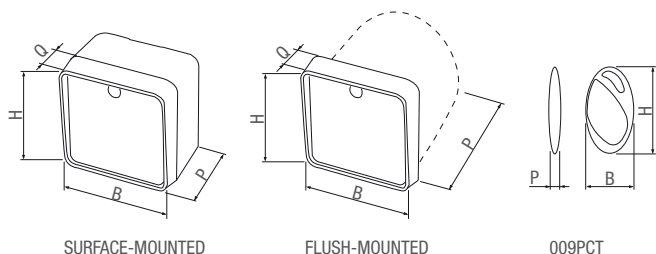
Keyn switch selectors

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



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.

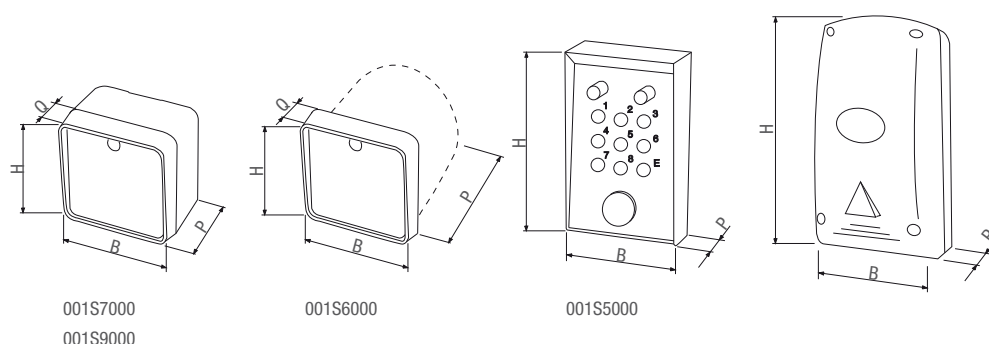


The digital control for all automated devices



- 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



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 ciphers	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.



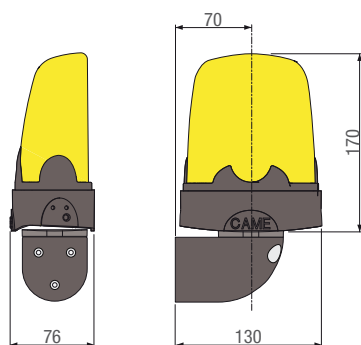
Flashing lights



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	-
KIARON	25	YES
KIAROLXN	6 XENON	-
KIAR024N	25	-
KIAR024IN	25	YES

● 230 V AC ● 24 V AC - DC

Technical features

Type	KIARON	KIARON	KIAROLXN	KIAR024N	KIAR024IN
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 KIAR024N	Flashing light.
001 KIAR024IN	Flashing light with manoeuvres counter function.
Accessories	
001 KIAROS	Wall fixing bracket.

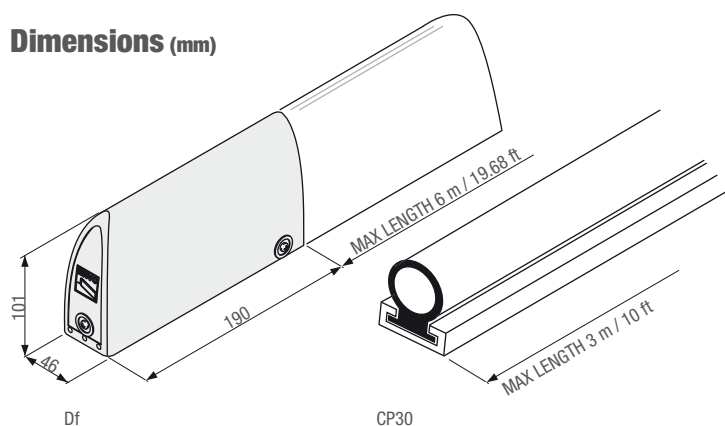


Safety sensitive edges up to 6 m / 19.68 ft

The certified sensitive edges for total protection

- 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)



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	
001DF15	Safety sensitive mechanical edge - length 1.5 m / 4.92 ft.
001DF17	Safety sensitive mechanical edge - length 1.7 m / 5.57 ft.
001DF20	Safety sensitive mechanical edge - length 2 m / 6.56 ft.
001DF25	Safety sensitive mechanical edge - length 2.5 m / 8.2 ft.
Components to assemble safety sensitive edges	
001CMP	Rubber and aluminium profile for sensitive edges. Max length 4 ÷ 6 m / 13.12 ÷ 19.68 ft.
001TMF	Set of caps and mechanisms for maximum 4 m / 13.12 ft long safety sensitive edges.
001TMF6	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	
001DFI	Self-diagnosing card for electrical connections.
Cable collecting devices	
001BRC15	Power cable collecting device for safety sensitive edges for sliding gates of up to 15 m / 49.21 ft in length.
001BRCP	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	
009CP30	Rubber and aluminium profile for pneumatic sensitive edges. H = 30 mm / 1.18 in. (Max length 3 m / 10 ft).
001PPA	N.O. contact pressure-switch.
001PPC	N.C. contact pressure-switch.
009TBP	Connector tube for 001PPC and 001PPA.
009TP30	Rubber cap for pneumatic sensitive edges H = 30 mm / 1.18 in.



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

Delta-Dir-Delta S



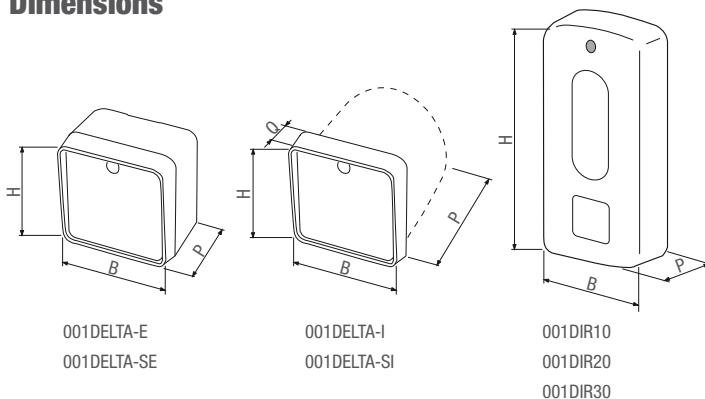
Photocells

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



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

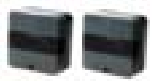
Type	DELTA-E - DELTA-I	DELTA-SE - DELTA-SI	DIR10 - DIR20 - DIR30
Protection rating IP	IP54	IP54	IP54
Power supply (V)	12 - 24 AC - DC	12 - 24 AC - DC	12 - 24 AC - DC
24 V relais output (mA)	500	500	1000
24 V AC current draw (mA)	110	70	60
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131°C/°F	-20 ÷ +55/-4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

● 12 - 24 V AC - DC

The complete range



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.

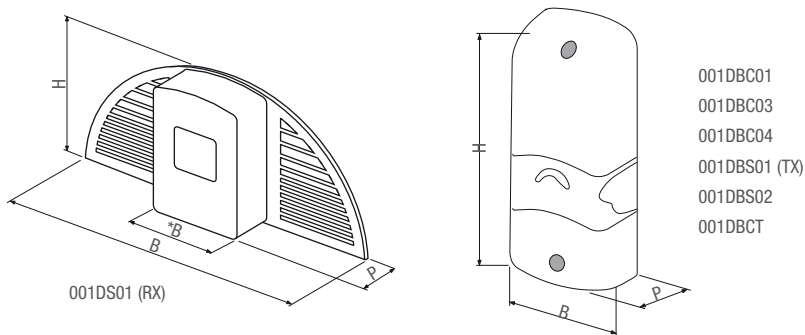
Cordless photocells



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



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	
001DBC01	Pair of surface-mounted "cordless" photocells with synchronised mono-directional infrared beam. Range: 10 m / 32.8 ft (1 receiver + 1 transmitter with batteries).
001DBC03	Surface-mounted repeater module with bi-directional infrared beam. Range: 10 m / 32.8 ft (1 lateral receiver + 1 front transmitter with batteries).
001DBC04	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	
001DBS01	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.
001DBS02	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	
001DBCT	Surface-mounted battery-charged transmitter module. Range: max 10 m / 32.8 ft.
Accessories for: 001DBC01 - 001DBC03 - 001DBC04	
001DB-L	Natural anodised aluminium post. H = 500 mm / 1.64 ft.
001DB-LN	Black anodised aluminium post. H = 500 mm / 1.64 ft.



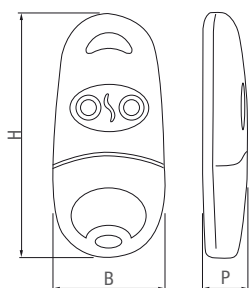
433.92 MHz rolling code radio command

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



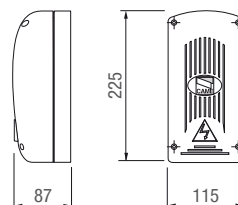
Dimensions (mm/in)

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

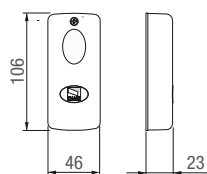
Limits to use

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.

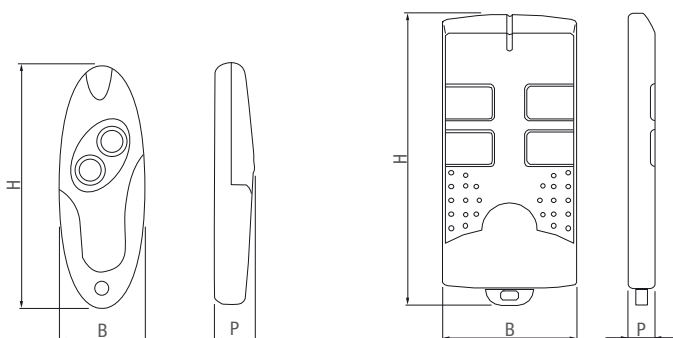


The ideal solution for apartment blocks

- 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 (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

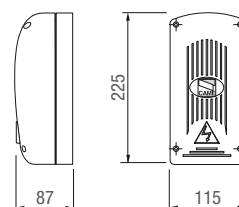
Limits to use

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

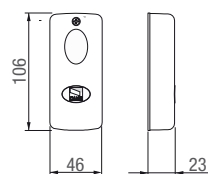
Technical features

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

Dimensions of receivers (mm)



001RBE4N
001RBE42
001RBE4MT



001RE432

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.

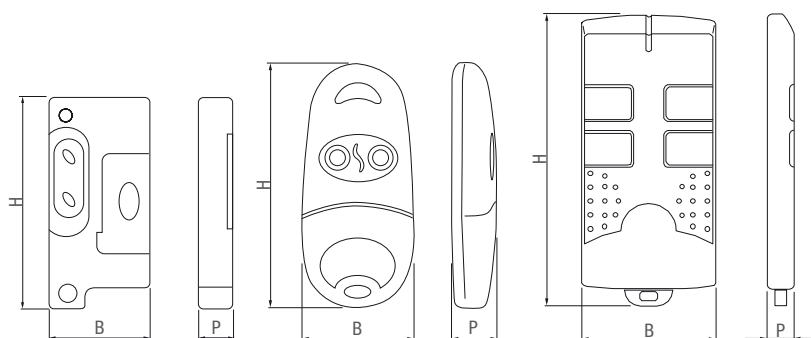


The ideal solution for residential premises

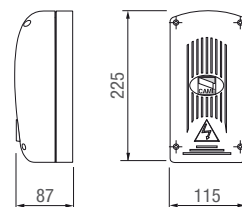


- Available in five radio command models.
- Transmitter to transmitter self-learning.
- Even with transponder function.
- 4,096 combinations.

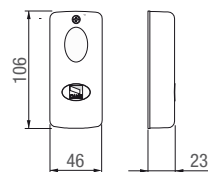
Dimensions of transmitters



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



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-mounted 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.

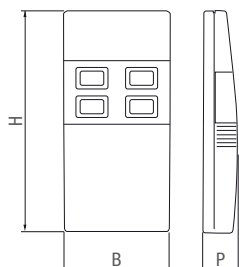
433.92 MHz radio command with KEY CODE

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

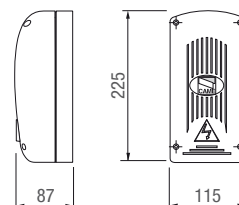


- Key Code transmitter, the password code protects the transmitter from unauthorised duplications.
- Available in either two or four channel versions.
- Even with transponder function.
- 4,294,967,896 combinations.
- Modern and elegant design.

Dimensions of transmitters



Dimensions of receivers (mm)



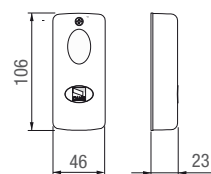
001RBE4N
001RBE42

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



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.

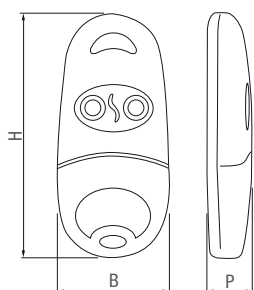


The ideal solution for residential premises

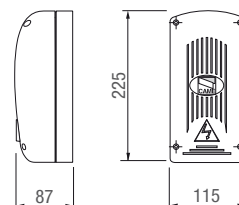


- Transmitter to transmitter self-learning.
- Even with transponder function.
- Multi-user function.
- 4,096 combinations.

Dimensions of transmitters (mm)



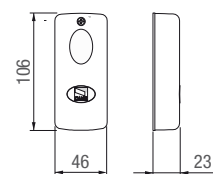
Dimensions of receivers (mm)



001RBE4N
001RBE42

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



001RE862

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.
001 RBE42	230 V AC IP54 surface-mounted 4-channel 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.



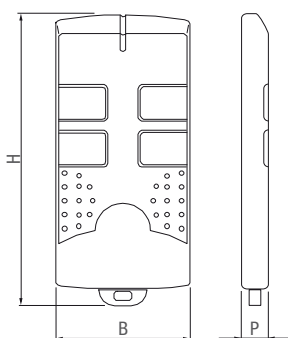
NOTE:
001TOP-862NA - 001TOP-864NA Max number of operators with differentiated code suggested for a single installation: 20.
Ex.: an apartment block with 20 customised garage doors.

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)



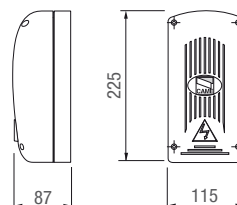
Dimensions (mm/in)

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

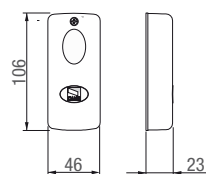
Limits to use

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

Dimensions of receivers (mm)



001RBE4N
001RBE42



001RE301

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.



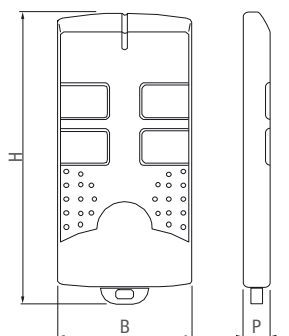
30.900 MHz radio command

The ideal solution for apartment blocks

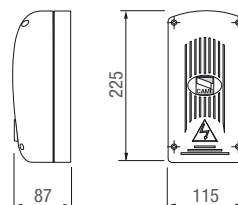


- Multi-user function.
- Available in versions from two to eight channels.
- 16,777,216 combinations.

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

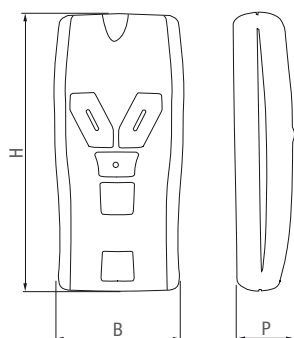


The ideal solution for apartment blocks

- 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



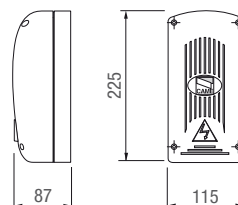
Dimensions (mm/in)

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

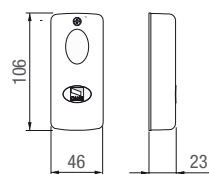
Limits to use

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**



204	Your selection guide
210	Fly
212	Corsa Rodeo
218	Accessories
222	Mi
224	S20 profiles for doors
228	S40 profiles for doors



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.



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.



Standard installation

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
Function selector switch	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
Function selector switch	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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

Standard installation

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 mm ² / 3G x AWG14	3G x 1.5 mm ² / 3G x AWG14	3G x 2.5 mm ² / 3G x AWG12
Function selector switch	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20	7 x 0.5 mm ² / 7 x AWG20
12 - 24 V AC - DC touch-panel sensor	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16	4 x 1 mm ² / 4 x AWG16
Command devices	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / n. x AWG20	*n° x 0.5 mm ² / 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.

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 MC130	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: 001LTG

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.

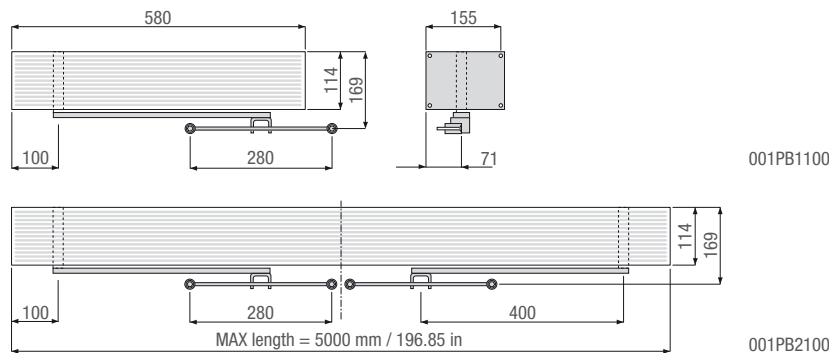
Door leaves of up to 250 Kg / 550 lb

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

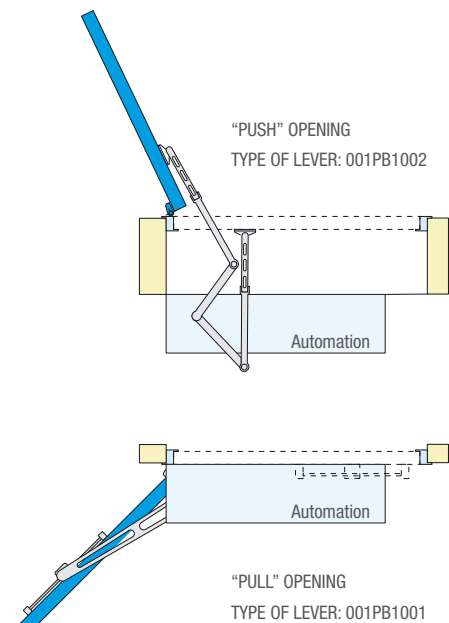


- A safe and reliable solution for regulating pedestrian access flows.
- An easy-to-install operator.
- Ideal for automating swing doors in large premises such as: hospitals, airports, and public administration facilities.
- A safe installation thanks to the 24 V DC technology.
- Adjustable operation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

Dimensions (mm)



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



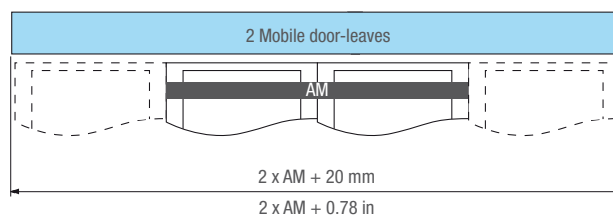
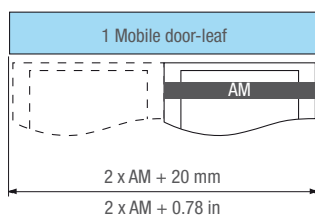
Door leaves of up to 125 Kg / 280 lb

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

● 24 V DC

Technical features

Type	CORSA1	CORSA2	RODE01	RODE02
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	24 DC	24 DC	24 DC	24 DC
Current draw (A)	0.6	0.6	0.6	0.6
Power (W)	70	70	90	90
Max manoeuvre speed (cm/s - in/s)	57/22.44	102/40.15	45/17.71	80/31.49
Duty cycle (%)	INTENSIVE USE	INTENSIVE USE	INTENSIVE USE	INTENSIVE USE
Thrust (Kg)	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

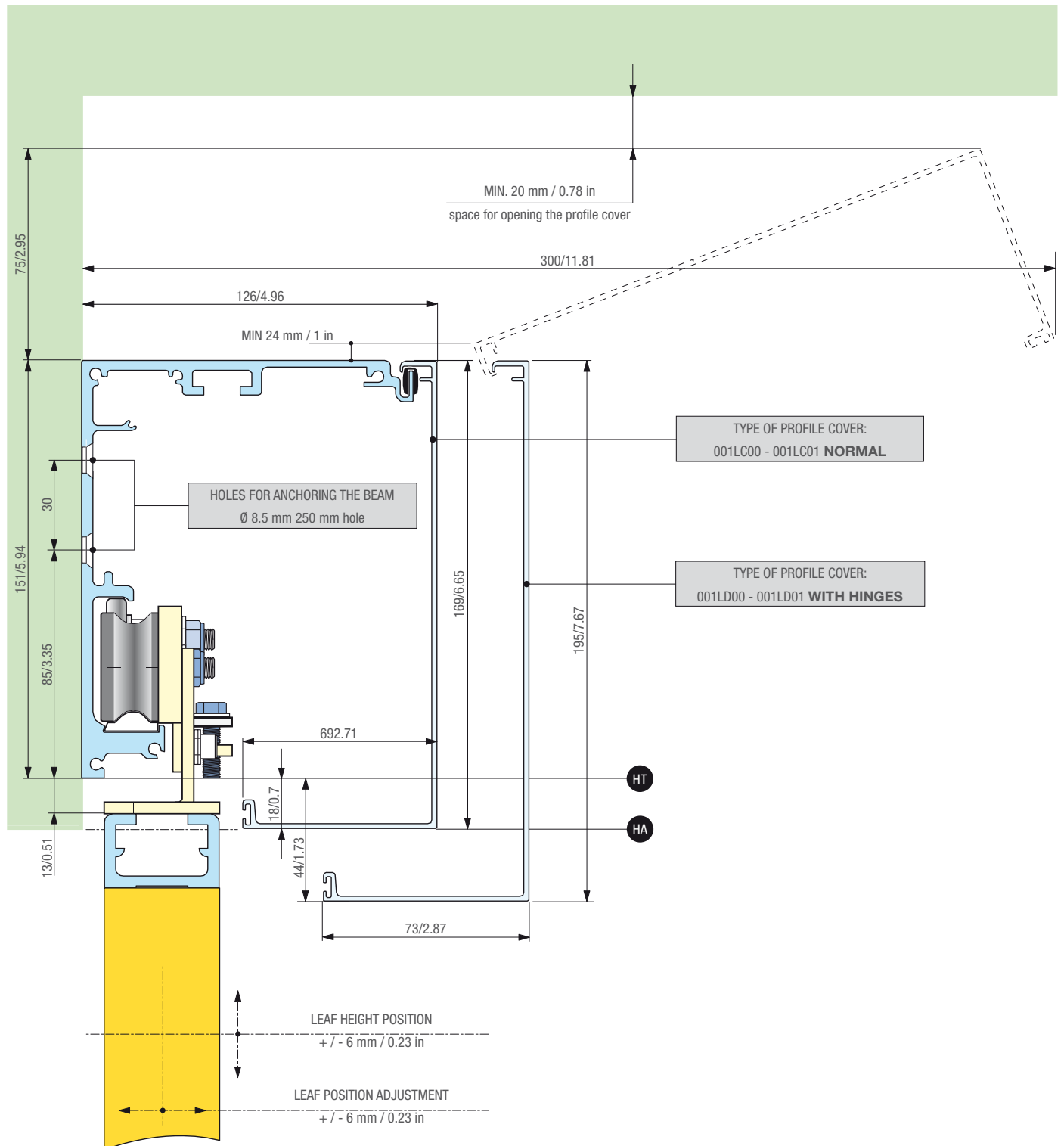
The complete range



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)



Pre-holed beam profile for fixing

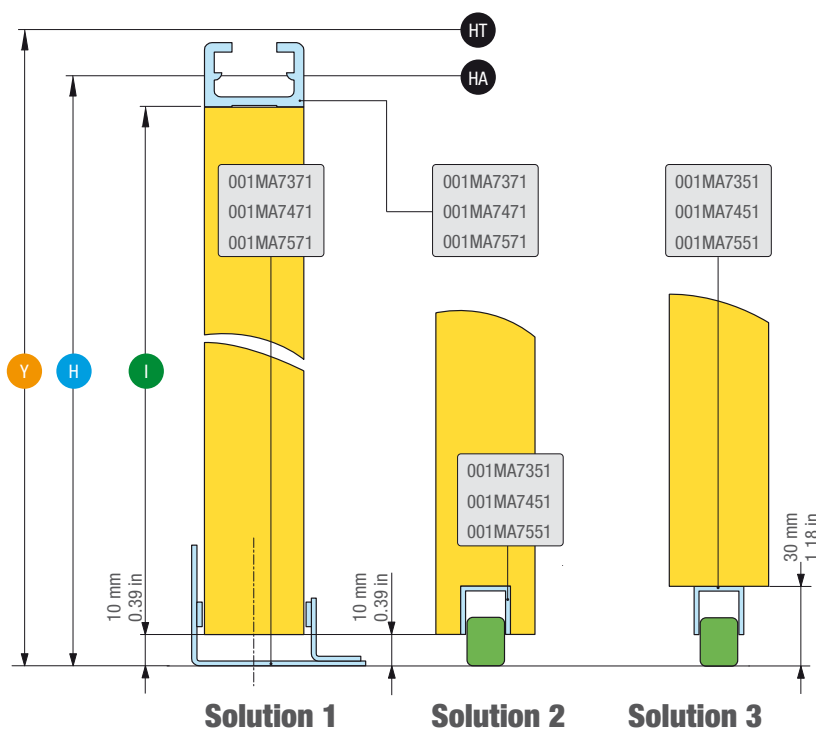
The automated customised devices are supplied with a pre-perforated beam profile to be anchored to the lintel or wall.

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

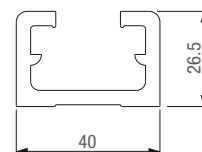
I = H - 28 mm / 1.10 in

I = Y - 46 mm / 1.81 in

Solution 3

I = H - 48 mm / 1.88 in

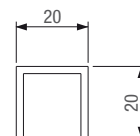
I = Y - 66 mm / 2.59 in



001MAM613

in the items:

001MA7371 - 001MA7471 - 001MA7571

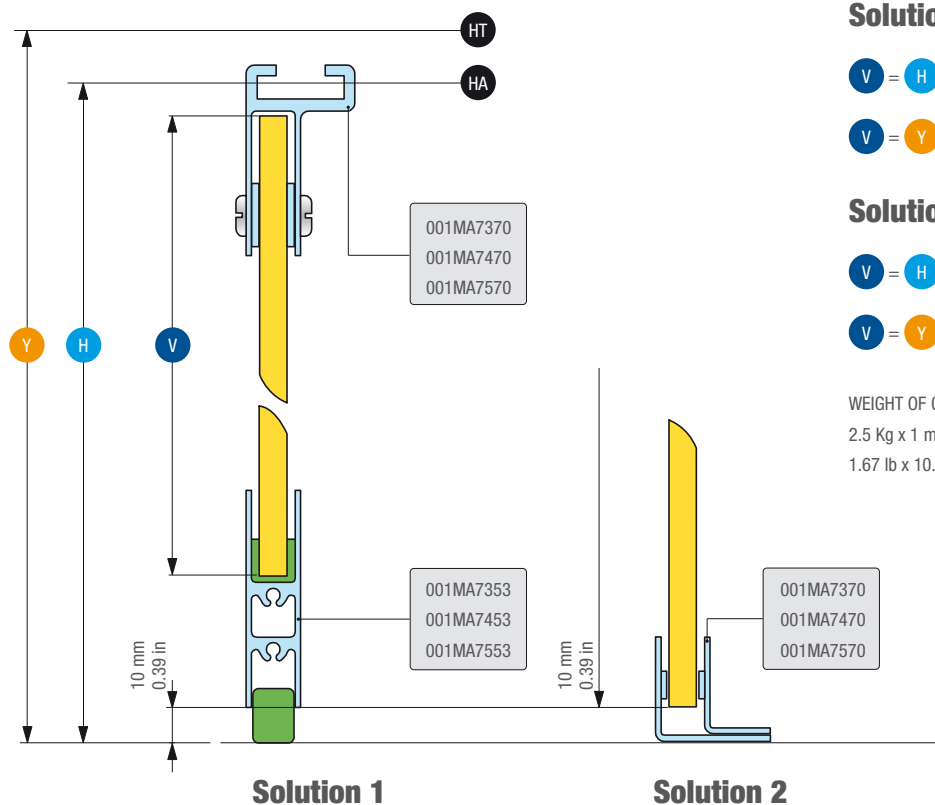


001MAM699

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

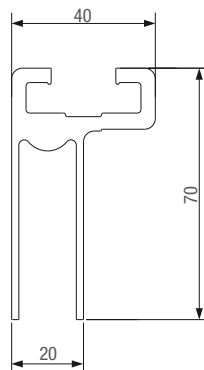
V = H - 22 mm / 0.86 in

V = Y - 40 mm / 1.57 in

WEIGHT OF GLASS

2.5 Kg x 1 m² x 1 mm thick

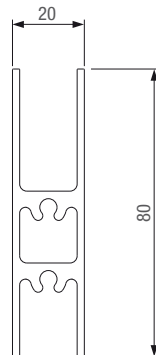
1.67 lb x 10.76 ft² x 0.039 in thick



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 anodised profile cover.
001 LC01	Non-finish profile cover.
001 LD00	Natural anodised 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 width.
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 width.
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 width.
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 width.
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 to 2000 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



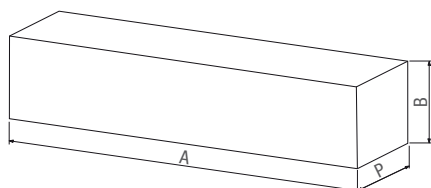
For automatic doors

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)
Intervention 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	-
Intervention 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



Code	Description
Micro-photocells	
001MF9011	Pair of flush-mounted, 24 V AC- DC infrared beam micro-photocells, with 7 m / 22.96 ft range, complete with shielded cable.
001MF9111	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.	
001MR8334	Safety radar *L = 340 mm / 13.38 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.
001MR8370	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.
001MR8390	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	
001MR8003	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	
001MR8202	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	
001MR8401	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.

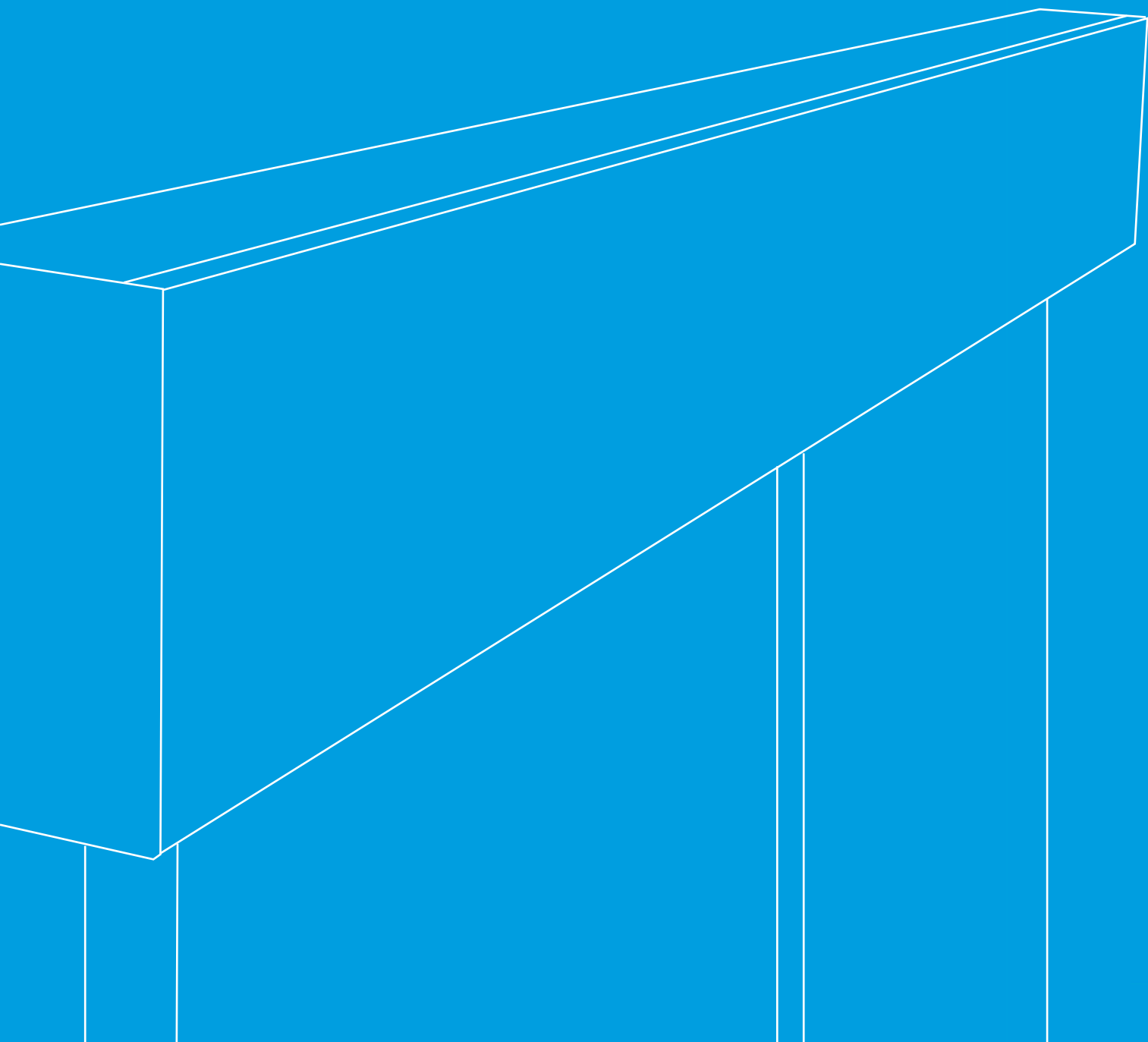


The complete range



Code	Description
Volumetric microwave radars	
001MR8104	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.
001MR8105	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.
001MR8106	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.
001MR8107	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	
001MRT001	Remote control for volumetric microwave radars.
Accessories for: 001MR8104 - 001MR8105 - 001MR8106 - 001MR8107	
001MRWPC	Rain-shield box for volumetric microwave radars.
Touch sensors	
001MS9502	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	
001MP8030	Sensitive floor pad 800 x 300 mm / 31.46 x 11.81 in.
001MP8060	Sensitive floor pad 800 x 600 mm / 31.46 x 23.62 in.





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.

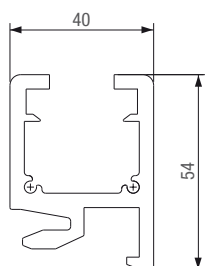
In such cases the max mobile door-leaf weight is indicated in the LIMITS TO USE table.

On door-leaves less than 1100 mm width, the mounting of the wheel allows to get best performance of the automation device.

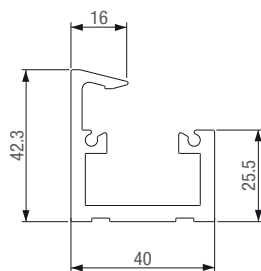
The proper functioning of the wheel depends also on the type of floor finishing.

Limits to use

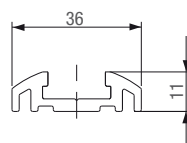
MODEL	MAX DOOR-LEAF/LEAVES WIDTH (M)/E (mm/in)	MOBILE LEAVES - FIXED LEAVES
MI6010	1100/43.30	YES - NO
MI6110	1500/59.05	YES - NO
MI6020	1100 + 1100/ 43.30 + 43.30	YES - NO
MI6120	1500 + 1500/ 59.05 + 59.05	YES - NO
MI6030	1100/ 59.05	YES - YES
MI6130	1500/ 59.05	YES - YES
MI6040	1100 + 1100/ 43.30 + 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	
600/23.62	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

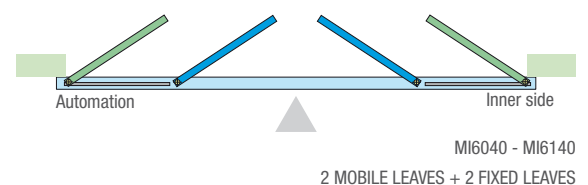
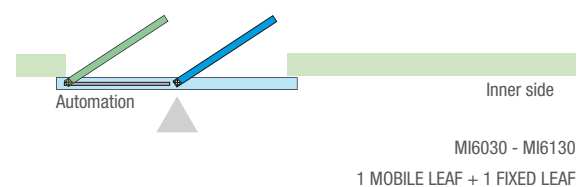
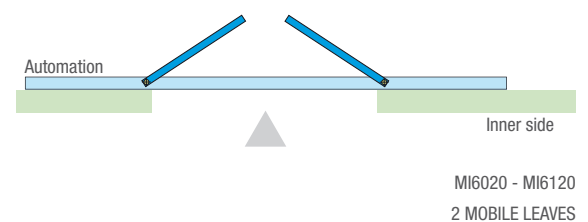
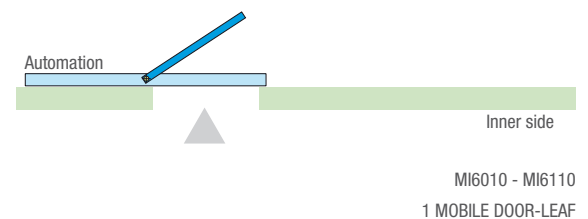


001MAM338
Mi series



001MAM911
Mi series

Application



The complete range



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



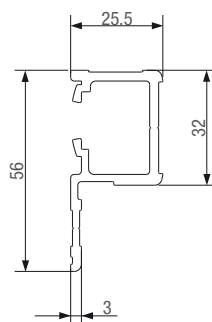
Stands for lots of light and great aesthetics

- 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.

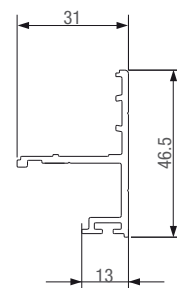
Profile material and weight

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

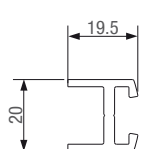
Dimensions (mm)



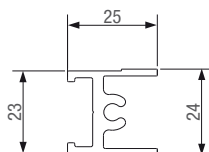
001MAL204



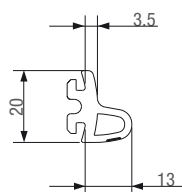
001MAL790



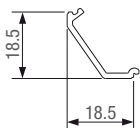
001MAL199



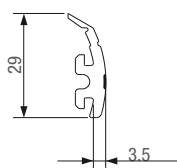
001MAL200



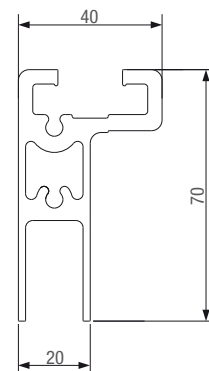
001MAL202



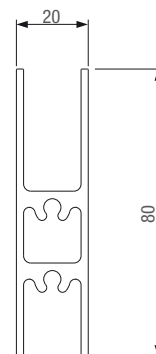
001MAL791



001MAL201



001MAL203



001MAM612

The complete range



Code	Description
Aluminium profiles for 4 mm to 16 mm / 0.16 to 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:

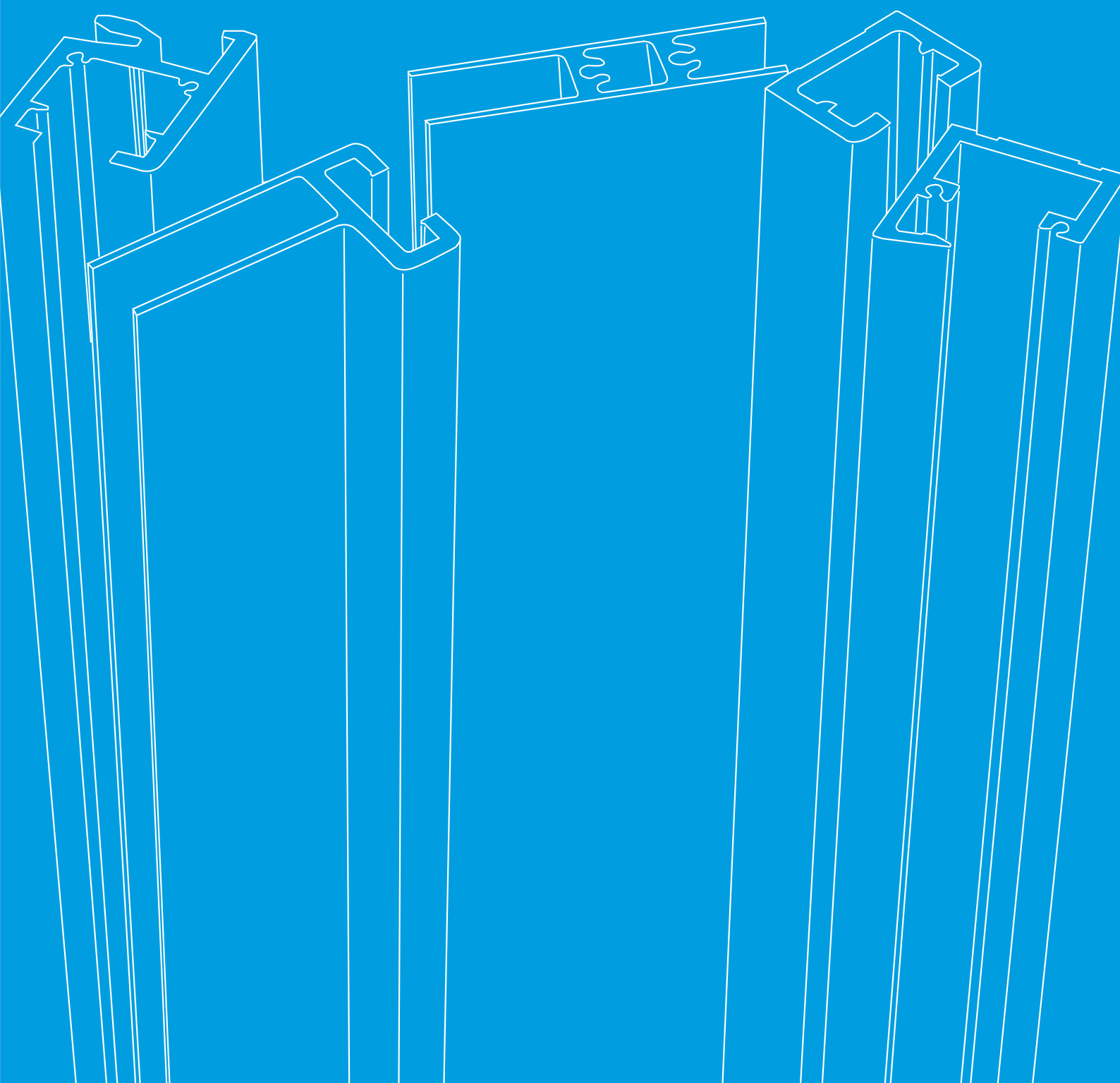
119COLOR4 Only applicable to: 001MAL199G - 001MAL200G - 001MAL203G - 001MAL204G - 001MAM612G - 001MAL790G.

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.





S40

Profiles for framed door leaves.



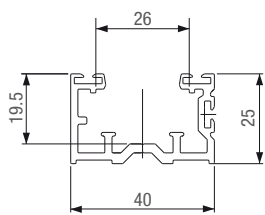
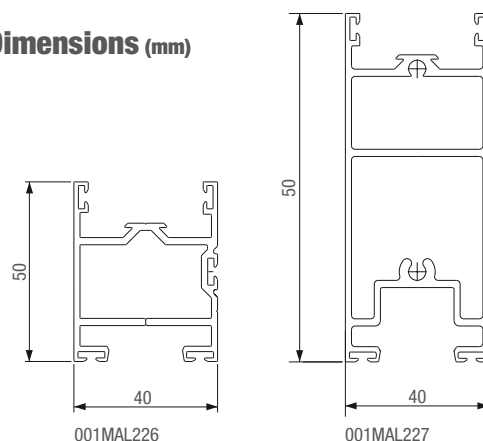
Aluminium profiles for building door frames

- 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.

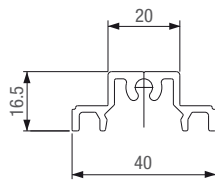
Profile material and weight

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

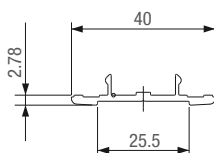
Dimensions (mm)



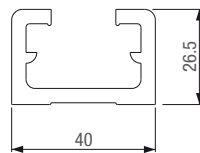
001MAL225



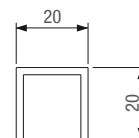
001MAL228



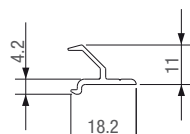
001MAL230



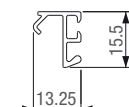
001MAM613



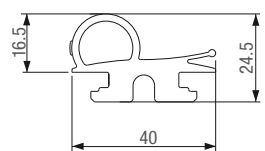
001MAM699



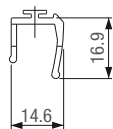
001MAL229



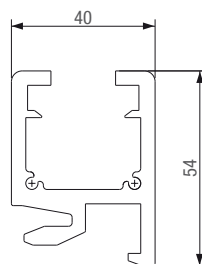
001MAL231



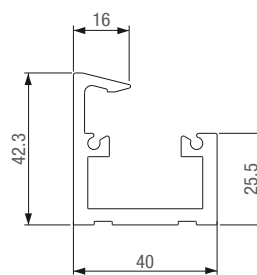
001MAL224



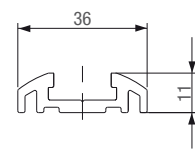
001MAL223



001MAM339



001MAM338



001MAM911

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.

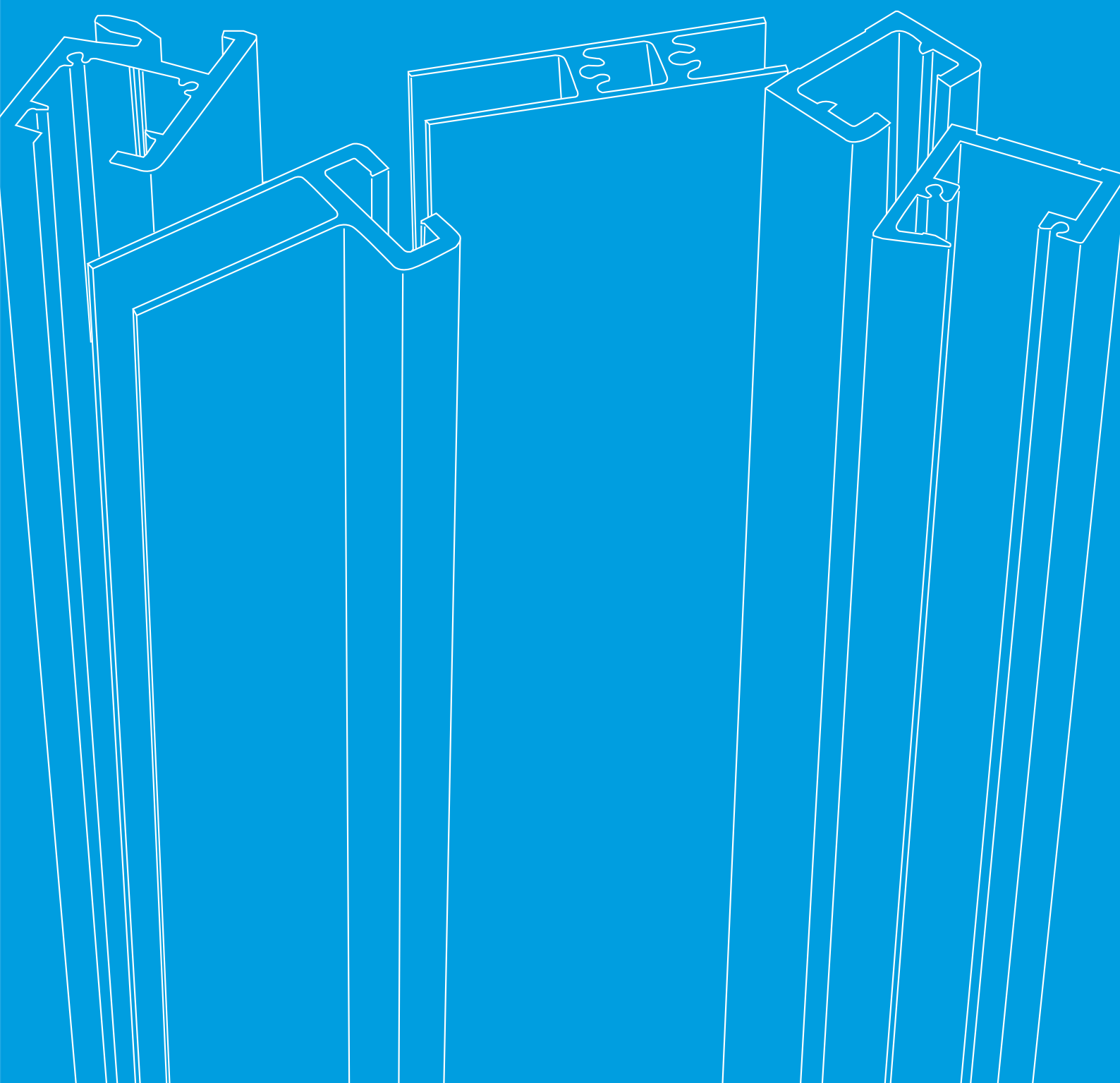


NOTE:

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.





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



236 Your selection guide

242 Ps Barcode

246 Ps Token

250 PS Easy

252 Rbm21

256 Rbm84

260 Bridge

262 Twister light

264 Twister

266 Guardian

268 Wing

270 Saloon

272 Compass

274 Flag

276 Accessories



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



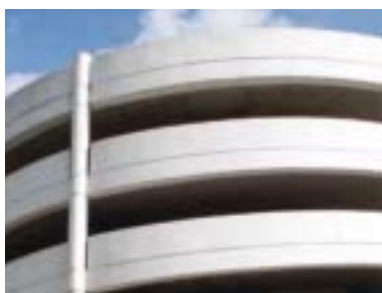
Parking facilities, turnstiles and access control



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.



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.

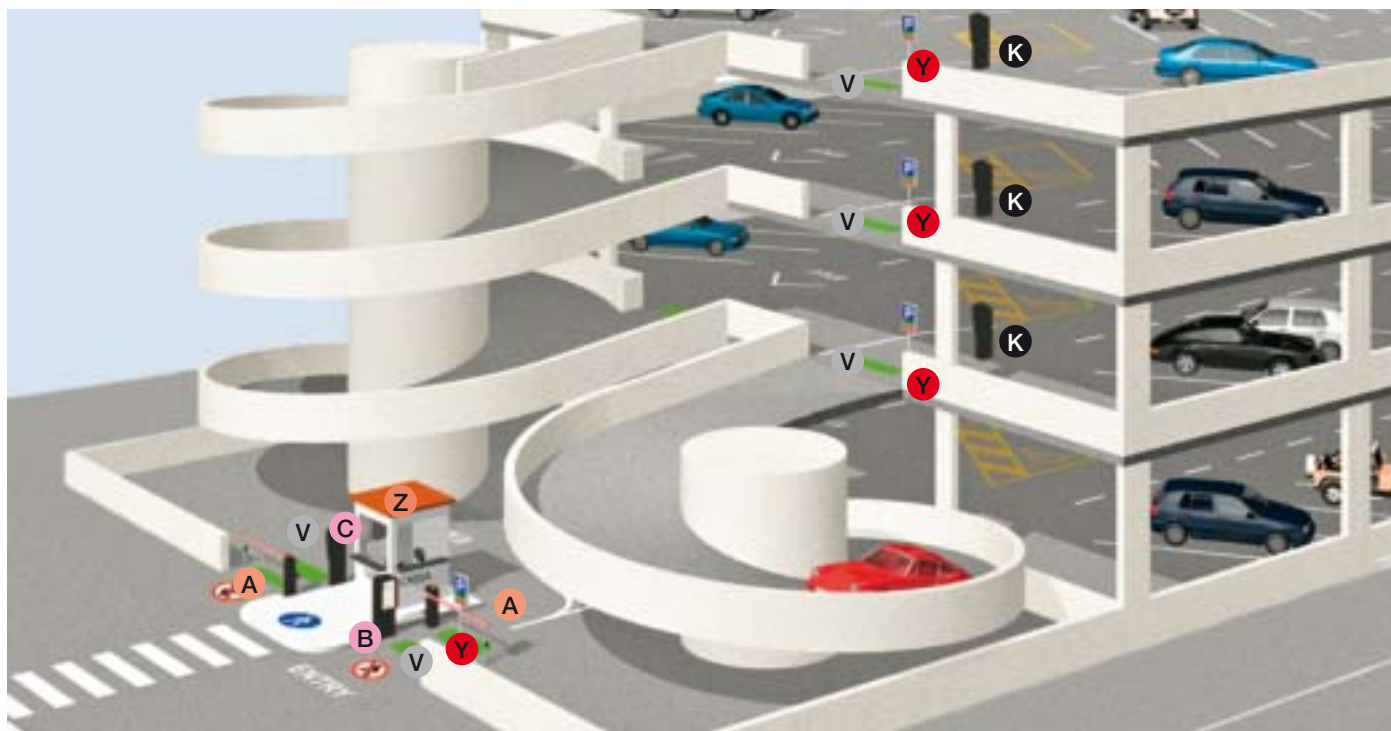
Which cables to use

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 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14
Endstop microswitches	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
Antenna	RG58 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.

Standard installation

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 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14
Endstop microswitches	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
Antenna	RG58 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 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 230 V AC	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14
Motor powered by 24 V AC	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14
Endstop microswitches	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
24 V AC - DC 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
Antenna	RG58 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

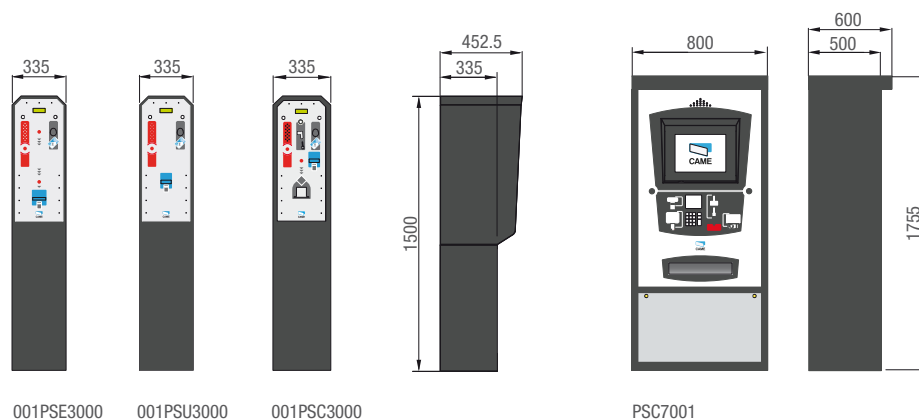
Ticket-issuing automatic parking facilities



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)

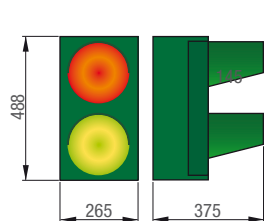


Technical features

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

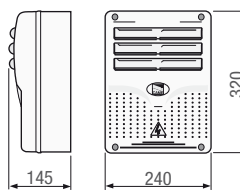
Dimensions (mm)



001PSSRV

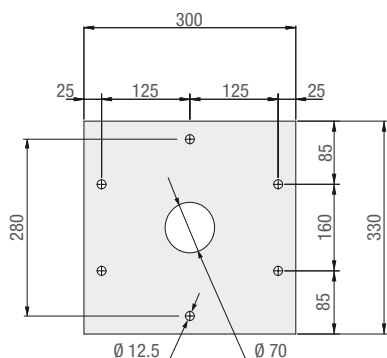


001PSINS

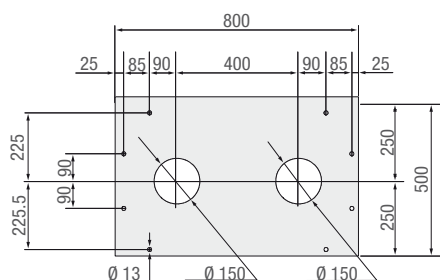


001PSM3000 - 002PSIO1 - 001PSI16

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

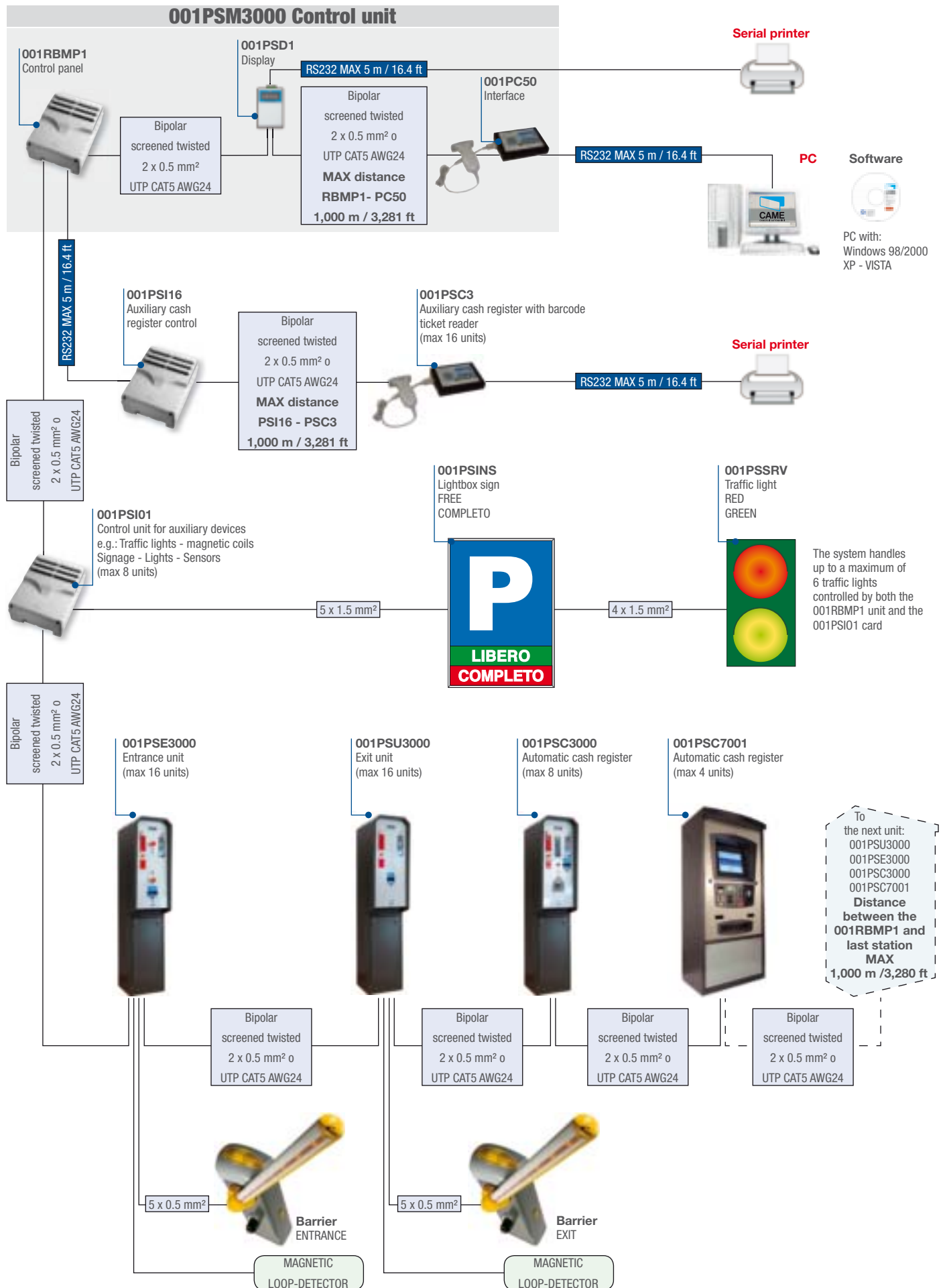
Code	Description
230 V AC automatic parking system	
001PSE3000	Entrance unit made of varnished and galvanised steel, complete with transponder sensor, ticket dispenser and display showing remaining credit.
001PSU3000	Exit unit made of varnished and galvanised steel, complete with transponder sensor, ticket dispenser and display showing remaining credit.
001PSC3000	Automatic cash register made of varnished galvanised steel, complete with card and transponder sensor plus display (does not give change but prints receipt).
001PSC7001	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.
001PSM3000	Manned cash register complete with electronic control station, management software, display and PC50 interface for connecting to PC.
002PSI01	Control unit for auxiliary devices management such as traffic lights, lightbox signs, magnetic sensors and safety sensors (max 8 outputs).
001PSC3	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).
001PSI16	Interface to connect up to 16 auxiliary manual cashiers.
001PSTICKET2A	Package of n. 2,000 pre-cut standard FANFOLD ISO type tickets.
Accessories for transponder sensor	
001TST01	ISO 7810 -7813 format transponder card.
009PCT	Keychain transponder.
009TAG	Glass transponder bulb.
24 V AC - DC magnetic sensors	
009SMA	24 V AC - DC one-channel magnetic loop-detector sensor.
009SMA2	24 V AC - DC bi-channel magnetic loop-detector sensor.
230 V AC magnetic sensors	
009SMA220	230 V AC bi-channel magnetic loop-detector sensor.
Warning accessories	
001PSINS	Two sided lightbox sign "FREE" - "FULL".
001PSSRV	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



Ps Token

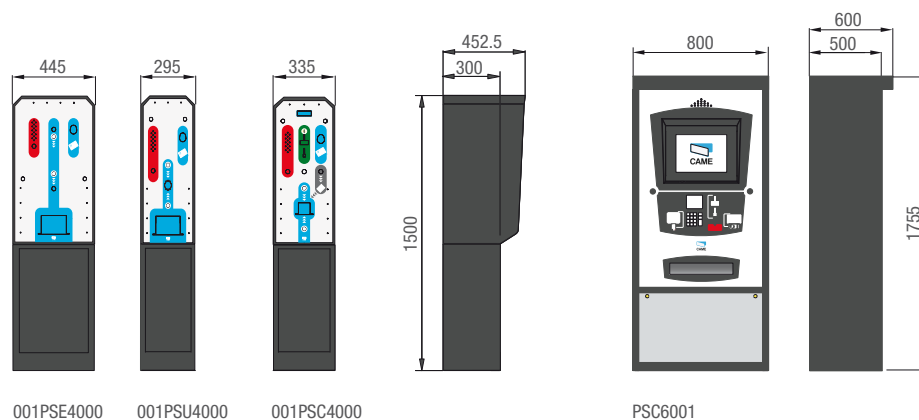
Transponder token parking facilities



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)

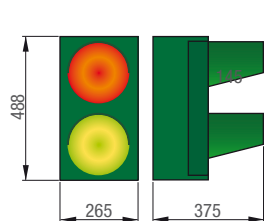


Technical features

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 / 17.51 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

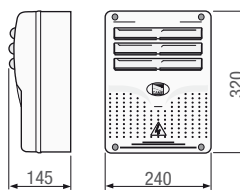
Dimensions (mm)



001PSSRV

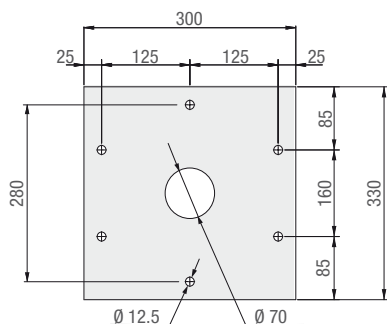


001PSINS

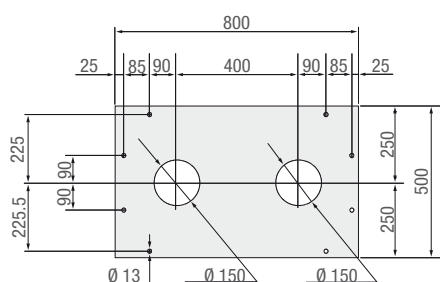


001PSM4000 - 002PSI01 - 001PSI16

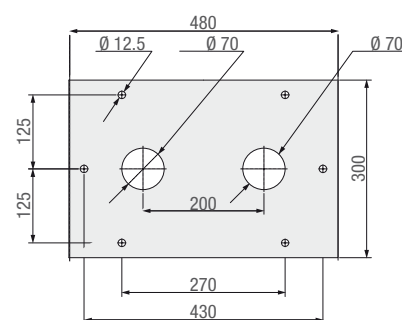
Application (mm)



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.

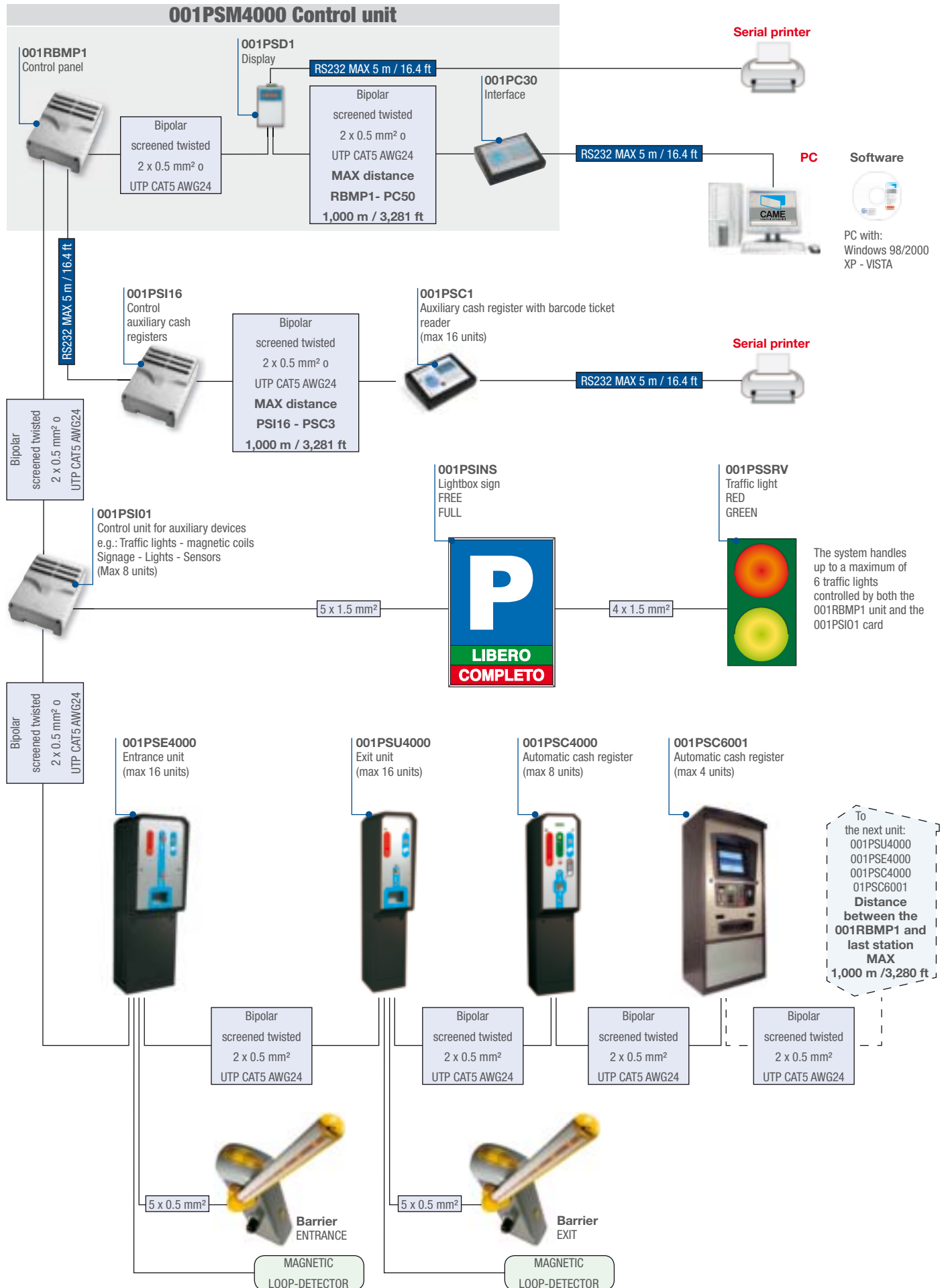
The complete range

Code	Description
230 V AC automatic parking system	
001PSE4000	Entrance unit made of varnished galvanised steel, complete with transponder keychain, card sensor and token dispenser.
001PSU4000	Exit unit made of varnished galvanised steel, complete with transponder keychain, card sensor and token collector.
001PSC4000	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).
001PSC6001	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.
001PSM4000	Manned cashier register complete with control station, management software, display and interface to connect to PC30.
002PSI01	Control unit for auxiliary devices management such as traffic lights, lightbox signs, magnetic sensors and safety sensors (max 8 outputs).
001PSC1	Auxiliary manual cash register. (Together with the PSI16 lets you realise a pay station without a stable connection to a PC).
001PSI16	Interface for connecting up to 16 manual cash register units.
009GET	Transponder token.
Accessories for transponder sensor	
001TST01	ISO 7810 -7813 format transponder card.
009PCT	Transponder keychain.
009TAG	Glass transponder bulb.
24 V AC - DC magnetic sensors	
009SMA	24 V AC - DC one-channel magnetic loop-detector sensor.
009SMA2	24 V AC - DC bi-channel magnetic loop-detector sensor.
230 V AC magnetic sensors	
009SMA220	230 V AC bi-channel magnetic loop-detector sensor.
Warning accessories	
001PSINS	Two sided lightbox sign "FREE" - "FULL".
001PSSRV	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



PS Easy

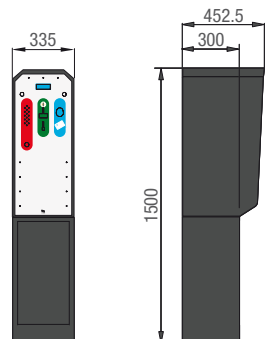
Simplified automatic parking facilities

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.

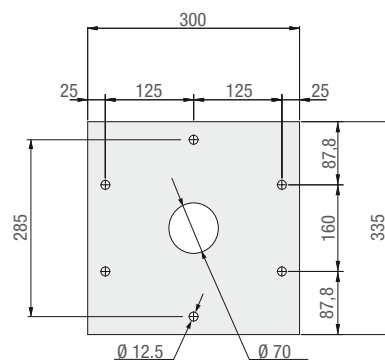


Dimensions (mm)

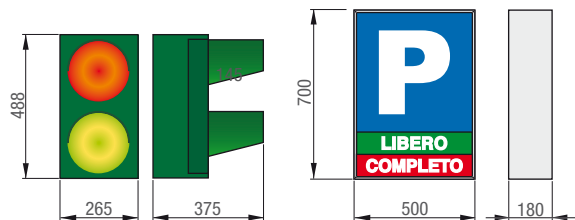


001PS5000

Application (mm)



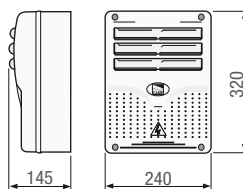
LOWER FASTENING BASE FOR:
PS5000



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

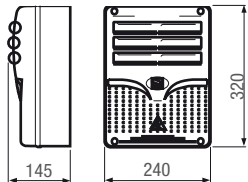
Access control for up to 500 users

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)

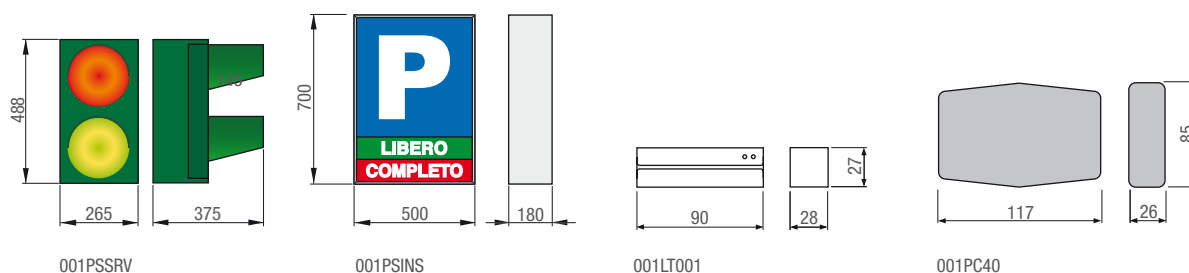
● 230 V AC

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)



Access control STAND ALONE

Thanks to an on-board sensor for inputting 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



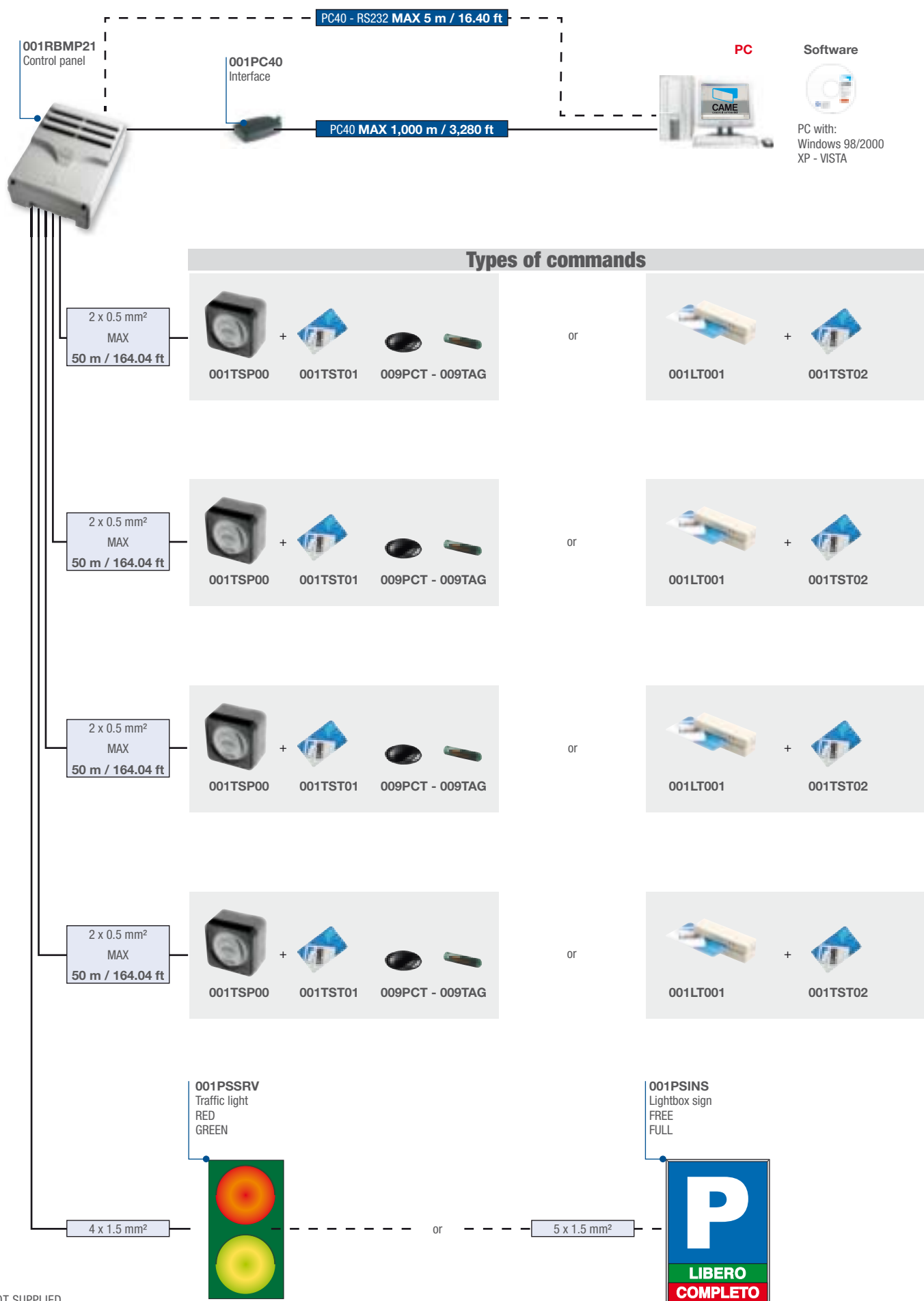
Code	Description
230 V AC management and control unit	
001RBM21	Control unit for transponder sensors, magnetic loop-detector sensors and magnetic band card readers, complete with software.
Accessories for: 001RBM21	
001PC40	Serial interface for remote PC connection (up to 1,000 m / 3,280 ft).
Transponder sensors	
001TSP00	Transponder sensor for cards, keychains and glass transponder bulbs (TAG).
Accessories for: 001TSP00	
001TST01	ISO 7810 - 7813 format transponder card.
Magnetic band card readers	
001LT001	Magnetic card reader.
Accessories for: 001LT001	
001TST02	Magnetic band card in ISO 7810 -7813 format.
001LTT	Card reader support.
Warning accessories	
001PSINS	Two sided lightbox sign "FREE" - "FULL".
001PSSRV	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



Rbm84

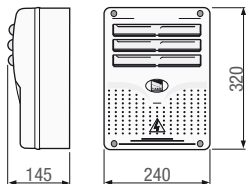
Access control for up to 5,500 users

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

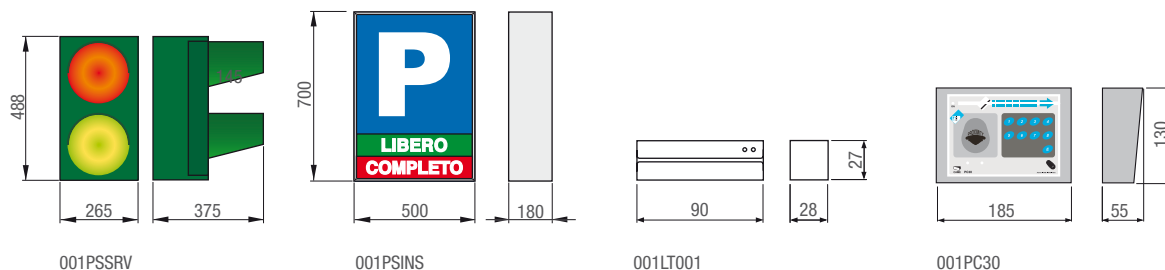
● 230 V AC

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)



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	
001RBM84	Radio control unit for transponder sensors, magnetic loop-detector sensors and magnetic band card readers complete with software.
Accessories for: 001RBM284	
001PC30	Serial interface for managing the 001RBM84 unit via PC, complete with 12 V - 800 mA power supply unit and serial connection cable.
001REM	Built-in radio-decoder unit for expanding the 001RBM84.
Transponder sensors	
001TSP00	Transponder sensor for cards, keychains and glass transponder bulbs (TAG).
Accessories for: 001TSP00	
001TST01	ISO 7810 - 7813 format transponder card.
Magnetic band card readers	
001LT001	Magnetic card readers.
Accessories for: 001LT001	
001TST02	Magnetic band card in ISO 7810 -7813 format.
001LTT	Card reader support.
Accessories for: 001S5000 - 001S6000 - 001S7000	
001R800	Decoder and access control management card for keypad digital selectors.
Accessories for: 001TSP00 - 001LT001	
001R700	Decoder and access control management card for transponder sensors and magnetic band card readers.
Radio modules	
001R501N	Radio module (to combine with 001AF43S).
Warning accessories	
001PSINS	Two sided lightbox sign "FREE" - "FULL".
001PSSRV	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

Types of commands

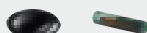
**Atomo
Tam
Twin**
Transmitters



**001TSP00
001TST01**
Transponder sensor
for cards



**009PCT
009TAG**
Keychain
transponder
TAG
Transmitters



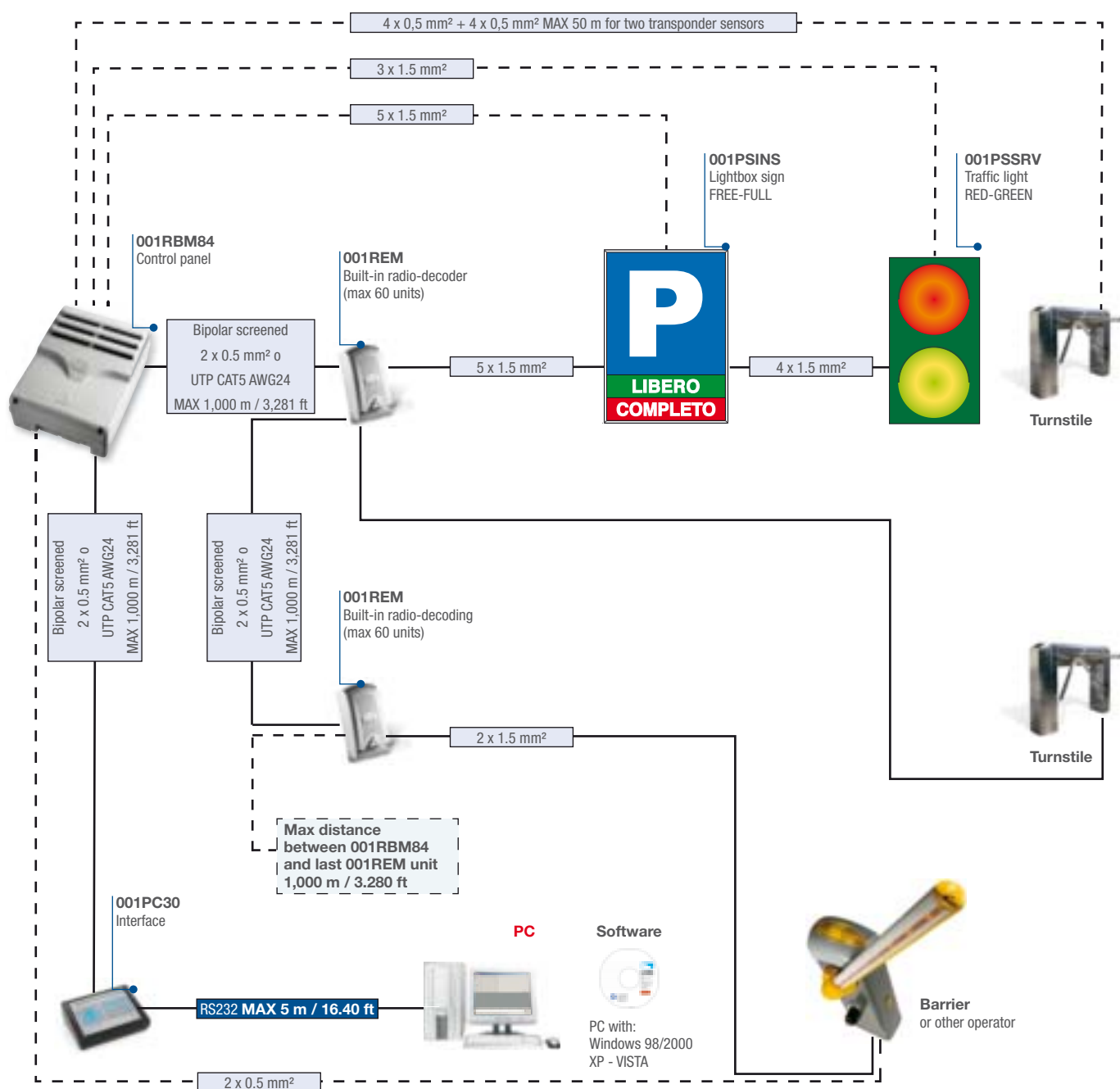
**001LT001
001TST02**
Magnetic card
readers



001WA01
Transponder sensor
with built-in transmitter



Serie S
Selectors

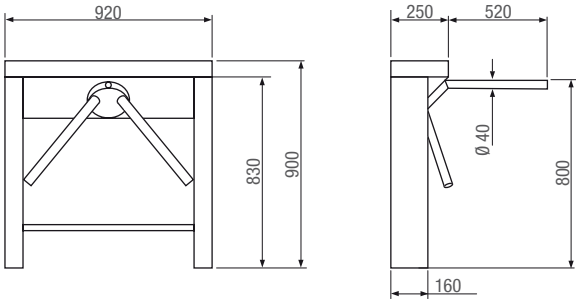


Bridge

Mechanical and electromechanical tripod turnstiles



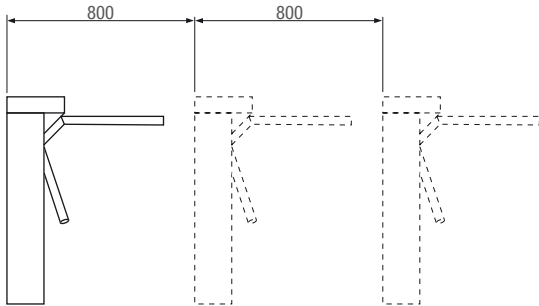
Dimensions (mm)



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.

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	
001PSAP01A	Mechanical monodirectional anti-clockwise turnstile complete with hydraulic damper. Painted steel body.
001PSAP010	Mechanical monodirectional turnstile clockwise complete with hydraulic damper. Painted steel body.
Electromechanical tripod turnstiles	
001PSAP07N	Electromechanical bi-directional turnstile complete with control board and hydraulic damper. Automatic tripod release in case of blackouts.
001PSAP08	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	
001PSOPSC01	Antipanic rods with preassure joints.
001PSOPCN01	Mechanical counter.
001PSOPG01	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.
001PSOPG01X	Channeler complete with AISI 304 stainless steel flange riser, flange cover and post with arc H = 1,000 mm / 39.37 in.
001PSPEAT	Plate with anticorodal structure and rice-grain aluminium walkway. To couple with Top series barriers and modular barriers.
Accessories for electromechanical tripod turnstiles	
001PSOPCN03	Electronic counter.
001PSOPSF03	Bi-directional traffic light with high-luminosity LED.



Twister light

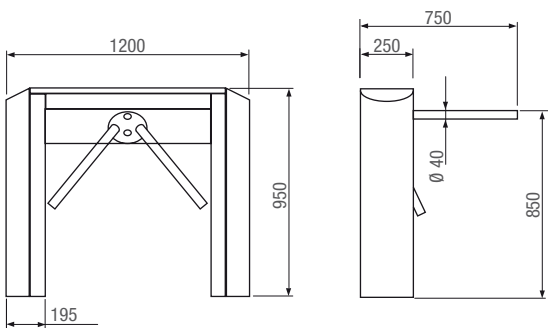
Electromechanical tripod turnstiles



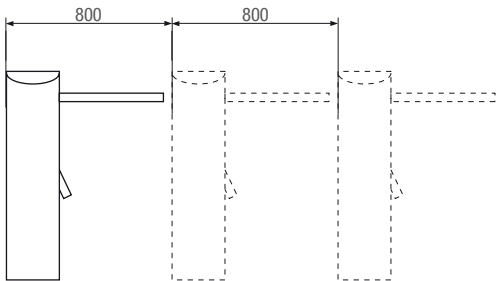
The ideal solution for selecting pedestrian transit in high-intensity flow situations - ready to fit a transponder

- The practical and functional turnstile for managing high-flow rates
- Ideal for installing at train stations, ports and metro stations, sports facilities 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

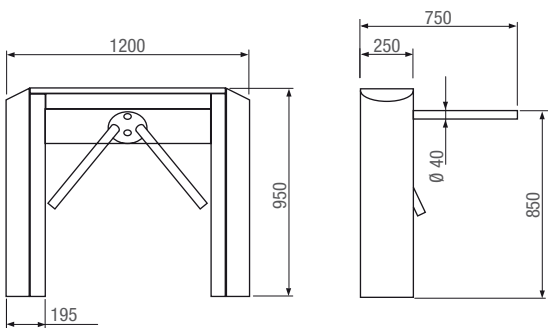
Electromechanical tripod turnstiles



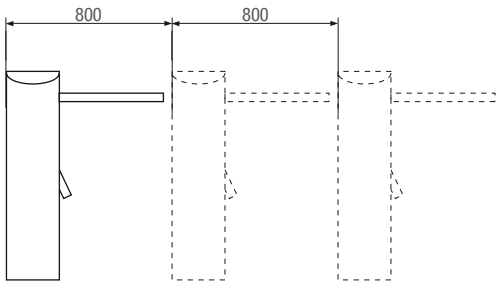
The ideal solution for selecting pedestrian transit in high-intensity passage flow areas with transponder

- The practical and functional turnstile for managing high-flow rates.
- Ideal for installing at train stations, ports and metro stations, sports facilities 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

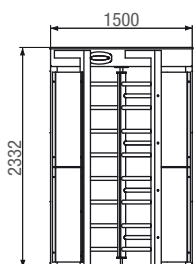
High security turnstiles



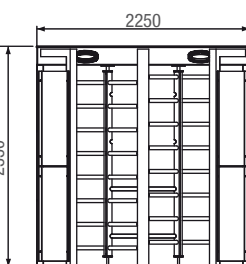
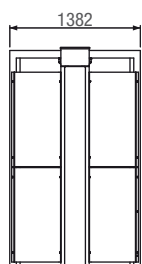
The ideal solution for selecting pedestrian transit in high-security settings

- 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.

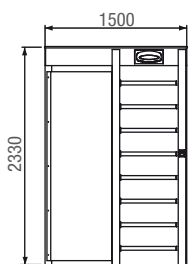
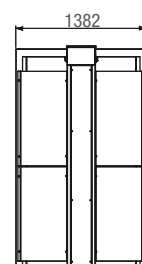
Dimensions (mm)



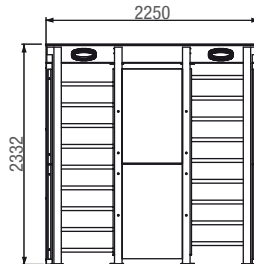
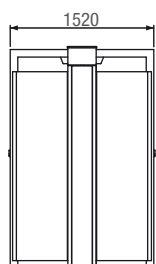
00101PSHPS001A - 01PSHPS0010 - 3PSGS3



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	
001PSHPS01A	Mechanical full-height mono-directional and counter-clockwise turnstile with hydraulic damper. Galvanized and painted steel body (RAL7035).
001PSHPS010	Mechanical full-height mono-directional and clockwise turnstile with hydraulic damper. Galvanized and painted steel body (RAL7035).
High-security electromechanical turnstiles	
001PSGS3	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).
001PSGD3	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).
001PSGS4	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).
001PSGD4	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	
001PSHPSVP	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

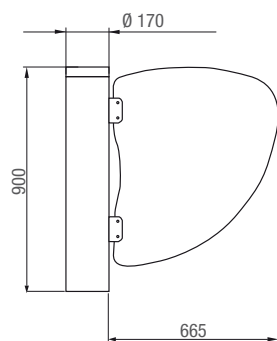
Motorised swing turnstiles



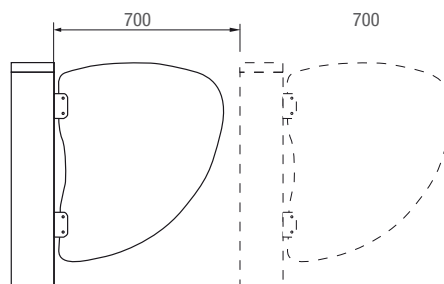
The ideal solution for selecting pedestrian transit in prestigious facilities

- 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

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	Console for remotely controlling up to max 4 access-ways.



NOTE

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

Saloon

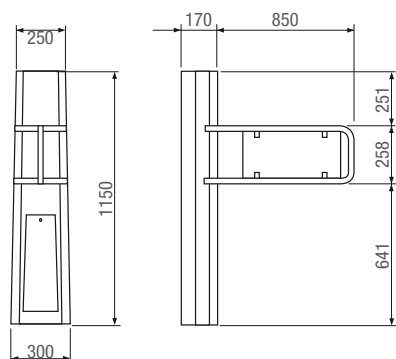
Motorised swing turnstiles



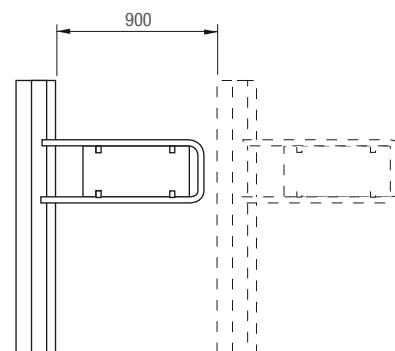
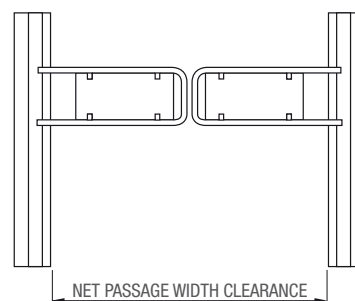
The ideal solution for selecting shopping cart transit

- 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

The complete range



Code	Description
24 V DC motorised swing turnstiles	
001PSEP0S00	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.
001PSEPSS00	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	
001PSOPAL01	24 V DC 2.5 A switching power unit complete with IP65 casing for one turnstile.
001PSOPAL06	24 V DC 6.5 A switching power unit complete with IP65 casing for two turnstiles.
001PSMCECH	Synchro card for double passage openings.
Accessories	
001PSOPSF01	Bi-directional traffic light with high-luminosity LED.
001PSEPTRF	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.
001PSEPTRFX	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.
001PSCSCR04	Console for remotely controlling up to max 4 access-ways.
Customised treatments	
001PSMLANT	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

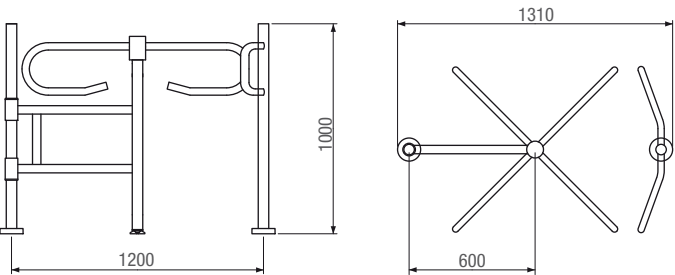
Mechanical turnstiles



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 - PSSPCW - 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 PSSPCW	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.

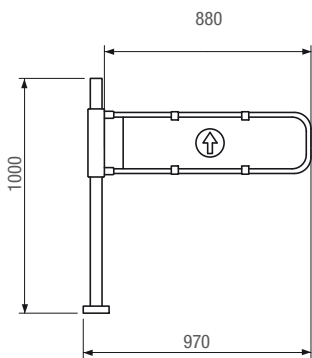


Flag

Mechanical swing turnstiles



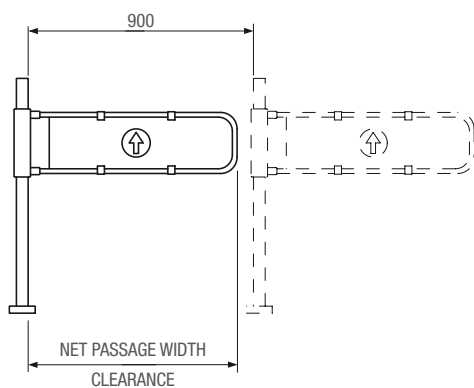
Dimensions (mm)



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 hygienic reasons.
- Today even with lock.

Application (mm)



Technical features

Type	PSBPCWO - PSBPCCW - PSBP00 - PSBPCWQA - PSBPCCWA - PSBP00A
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 PSBP00	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 PSBP00A	Bi-directional mechanical swing turnstile with lock and key. H = 1,000 mm / 39.37 in L = 900 mm / 35.43 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.
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

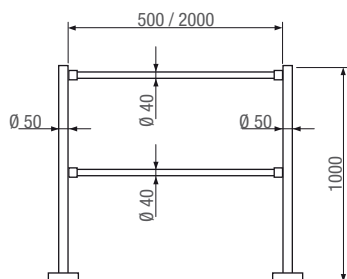
Modular barriers



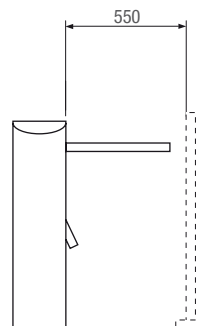
The complete range for system configuration

- 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



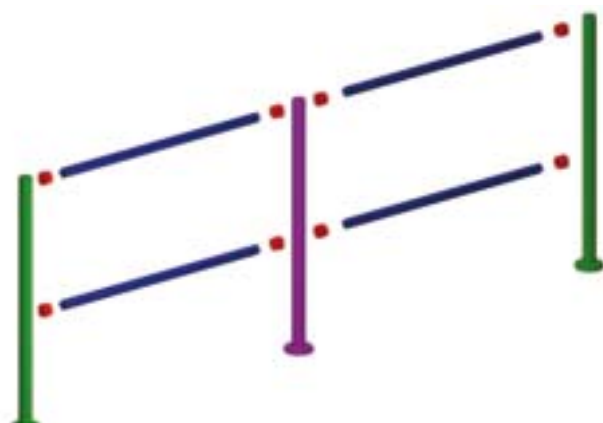
Code	Description
Vertical elements for assembled barriers	
001 PSTRV	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. Without holes. H = 1,000 mm / 39.37 in.
001 PSTRV2F	Riser made of galvanised steel with fastening flange and chromed plastic flange cover. With 2 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.



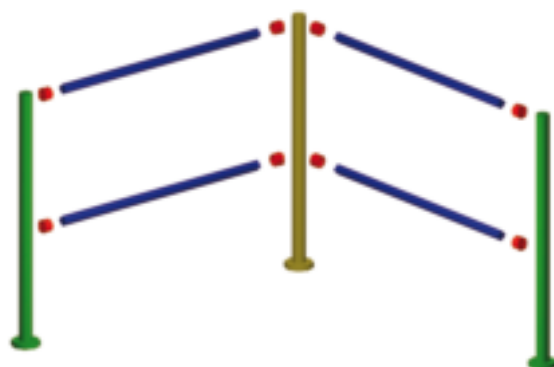
The complete range



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



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



- 001PSTRM001 - 001PSTRM003
- 001PSTRV2F - 001PSTRVX2F
- 001PSTRV4F090 - 001PSTRVX4F090
- 001PSTRT050 - 001PSTRT100 - 001PSTRT150 - 001PSTRT200

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.



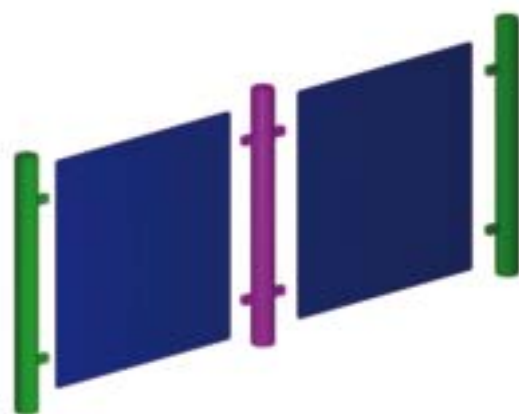
The complete range



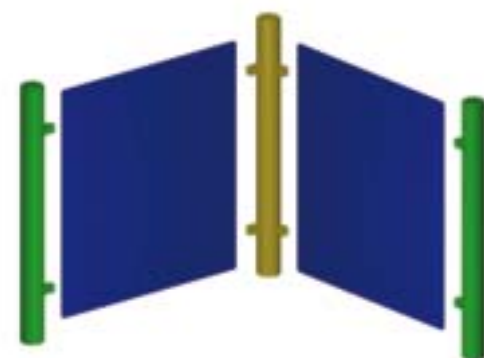
Code	Description
SMART barriers	
001 PSTRV80	AISI 304 steel riser without clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001 PSTRV802F	AISI 304 steel riser with 2 clamps. H = 900 mm / 35.43 in Ø 80 mm / 3.14 in.
001 PSTRV804F090	AISI 304 steel riser with 2 + 2 90° clamps. H = 900 mm / 35.43 in Ø 80 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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