

Barrier Gate Operators

















The Models



Barrier gates are one of the most effective types of automation for controlling the vehicle traffic in parking lots, private entrances and reserved apartment complex areas. CAME's range is complete with 24V D.C. models in galvanized and painted steel with a stainless steel option. Any type of passageway can be controlled: from small, narrow areas with quick barriers, to very wide passages of up to 40 ft. A large range of dedicated accessories are also available, designed to complement the gates, even with special features, such as articulated gate arms and break-away devices. The table below showcases the complete range of barrier gates in accordance to the width of the passageway, the limitations of use and the residential or commercial application setting.

Use		RESIDENTIAL	APARTMENT COMPLEX	INDUSTRIAL	INTENSIVE USE
					A
Series	Model	Ma	x. width of passage clearance (f	t.)	
Gard4	001G4140ZU	12	12	12	YES
Gard8	001G2180ZU	25	25	25	YES
Gard12	001G12010	40	40	40	YES
Gard	001G4000UL	13	13	13	YES
Gard	001G6000UL	22	22	22	YES
					● 24V D.C.



CAME is versatile

There is no "single solution" for all installations. This is the philosophy that has led us to constantly increase our technological solutions and produce a complete range of automation systems and accessories.

For nearly forty years, CAME has built its reputation as an efficient solution provider, ready to give a prompt and personalized answer to our customers' requests.





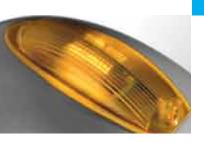




Gard 4 Automatic Barrier Gates

Designed for a range of large openings of up to 12 ft. The Gard4 barriers are the ideal solution to control roadways and parking areas for commercial and public use.





Design, materials, technology.

The exclusive built-in flashing light with an illuminated LED diffuser needs no special maintenance and ensures complete visibility of the warning light when the barrier arm is moving.



The safety guard on the bar is a standard feature.

It protects the user from possible risks when the arm is in motion.



Perfect barrier gate integration.

The safety photocells integrate harmoniously and aesthetically with the system.

A new concept in barrier gates.

Recent innovations in the design and features of the Gard barrier gate series provide a new standard in safety. The soft contours and rounded corners create an aerodynamic shape that offsets the "sail effect" in windy areas as well as creating a contemporary, aesthetic design that blends well in any setting.



State-of-the-Art Technology

The Gard4 series barriers are constructed with the latest in electronic innovation, guaranteeing total control of the automatic system while improving overall safety and the control functions, such as:

- · Autotest all the safety devices
- An electronic "checklist" prior to activating the motor.
- · Anti-crushing function
 - Electronic control of the movement of the bar with obstacle detection.
- · Stationary safety function

All control commands will override if an obstacle is detected.





The Advantages of 24V D.C. Barriers

· No more blackouts

The Gard4 24V D.C. electronics system automatically recognizes a power outage and activates the emergency back-up batteries (not included), to ensure the gate will always perform its function.

· Keep speed in check

The 24V D.C. electronics enable the operating speed to be based on installation/location requirements.

· Intensive traffic

The low 24V D.C. gear motor ensures reliable operation of the barrier during heavy/high traffic conditions.

· Opening time

With the low-voltage consumption technology, the barrier opening time can be adjusted between 2-6 seconds.

Global entry control.

The Gard4 series automatic barrier system can be connected to many of the CAME access control systems that allow identification, memorization, entry and exit only to authorized personnel. The equipment can also be integrated with a global access control system.

Gard 4 Automatic Barrier Gates clearance of up to 12 ft.



24V D.C. operated barrier gates complete with control panel

001**G4140ZU** Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories.



001**G4140IZU** AISI 304 stainless steel with satin finish bar complete with control panel and fitted to take additional accessories.



Available to work independently and in a synchronized action mode.

Thanks to the additional RSE card, the barriers can be installed facing each other or synchronized at the same access point.

*Barrier operators with batteries will only operate as long as the batteries have a charge.



Gard4 Kits & Technical Features





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	Product Code	Operator Model	Max. Leaf (ft.)	Control Board	001 G3750 13 ft. Arm with Yellow Bumper	001G06080 Red Counter-Balance Spring	001G02809 Warning stickers	001G02803 (32 ft.) of light strip	001 G02804 Light Strip Adapter	001 G02801 Dome Light	001 DIR10 Photocells	Battery Back-up Card 002LB38
Basic	KT-BG-GA/S-B0414-1	001G4140ZU	12	•	•	•	•					
Professional	KT-BG-GA/S-P0414-1	001G4140ZU	12	•	•	•	•	•	•			
Expert	KT-BG-GA/S-E0414-1	001G4140ZU	12	•	•	•	•	•	•	•	•	•

Please refer to the accessory and installation table to specify the balancing spring.

Type 001G4140ZU 001G4140IZU Protection rating IP54 IP54 Power supply (V) (50/60Hz) 120V A.C. 120V A.C. Motor power supply (V) 24V D.C. 24V D.C. Current draw (A) 15 Max 15 Max Power (HP) 1/2 1/2 Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400 Opening time 90° (s) 2 - 6 2 - 6	Technical features									
Power supply (V) (50/60Hz) 120V A.C. 120V A.C. Motor power supply (V) 24V D.C. 24V D.C. Current draw (A) 15 Max 15 Max Power (HP) 1/2 1/2 Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400	ZU									
Motor power supply (V) 24V D.C. 24V D.C. Current draw (A) 15 Max 15 Max Power (HP) 1/2 1/2 Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400										
Current draw (A) 15 Max 15 Max Power (HP) 1/2 1/2 Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400										
Power (HP) 1/2 1/2 Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400										
Duty cycle (%) Intensive use Intensive use Torque (Nm) 400 400										
Torque (Nm) 400 400										
/	e									
Opening time 90° (s) 2 - 6 2 - 6										
Motor's thermo-protection (°F)										
Operating temperature (°F) -4°F up to 131°F -4°F up to 131°F	1°F									

24V D.C.





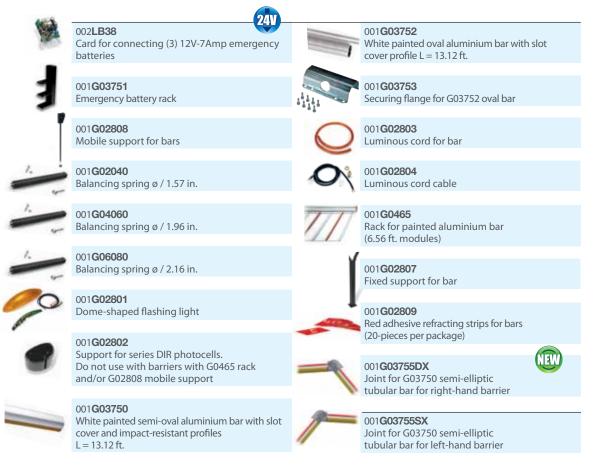


Gard4 Accessories

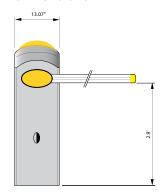


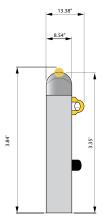


Accessories for barrier gates with 24V D.C. operator



Dimensions





Accessories and installation

Depending on the configuration of the accessories required for mounting the boom, different kinds of springs are available to provide the best possible balance of movement. The table shows the possible combinations of the various accessories and the maximum length of the moving boom. Standard issue booms come with transparent profiles and head cap.

Composition of the bar	Max. width of passage clearance (ft.)	5	5.7	6.6	7.4	8.2	9	9.8	10.7	11.5	12
Bar with shock-resistant profile		•	•	•	•	•	•	•	•	•	•
G02803 bar with shock-resistan	t profile and luminous cord				•	•	•	•	•	•	•
Bar with G0465 rack		•	•	•	•	•	•	•	•	•	•
Bar with G02803 luminous cord	and G0465 rack		•	•	•	•	•	•	•	•	•
Bar with shock-resistant profile	and G02808 mobile support	•	•	•	•	•	•	•	•	•	•
Bar with shock-resistant profile,	G02803 luminous cord and G02808 mobile support		•	•	•	•	•	•	•	•	•
Bar with G0465 rack and G0280	8 mobile support	•	•	•	•	•	•	•	•	•	
Bar with G02803 luminous cord,	G0465 rack and G02808 mobile support		•	•	•	•	•	•	•	•	

Max width
Passage clearance

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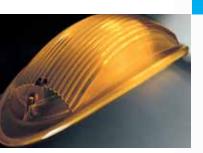




Gard8 Automatic Barrier Gates

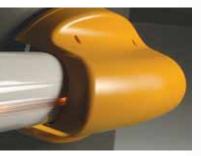
Designed for a range of large openings of up to 25 ft. The Gard8 barriers are the ideal solution to control roadways and parking areas for commercial and public use.





Design, materials, technology.

The exclusive built-in flashing light with an illuminated LED diffuser needs no special maintenance and ensures complete visibility of the warning light when the bar is moving.



The safety guard on the bar is a standard feature.

It protects the user from possible risks when the arm is in motion.

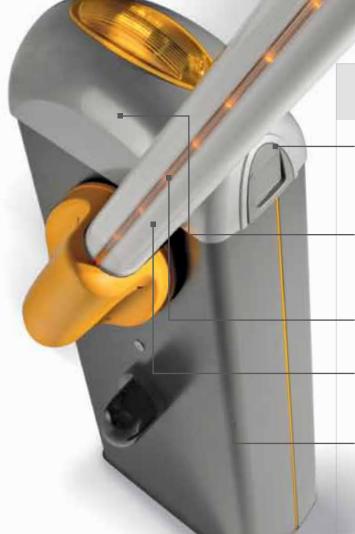


Perfect barrier gate integration.

The safety photocells integrate harmoniously and aesthetically with the system.

A new concept of automatic barrier gates.

The recent innovation in the design features of the Gard barrier series provide a new standard in safety. The soft contours and rounded corners create an aerodynamic shape that offsets the "sail effect" in windy areas as well as creating a contemporary, aesthetic design that blends well in any setting.



The Gard8 offers the same innovative features as the Gard4, including:

Maximum safety.

Next-generation electronics automatically interrupt the power supply as soon as the service door is opened.

Accessible and well protected electronics.

The die-cast aluminum housing provides a secure, yet accessible casing for the electronics.

Luminous bar.

Superior visibility of the arm and durability of the light fixtures.

Round tubular bar.

Maximum reduction of the "sail effect," ensuring correct operation in areas subject to high winds.

Differentiated sensitivity spring.

For exceptional balancing of the bar.

State-of-the-Art Technology

The Gard8 series barriers are constructed with next-generation electronics that guarantee total control of the automatic system while improving safety and the control functions, such as:

Autotest all the safety devices

An electronic "checklist" prior to activating the motor.

Anti-crushing function

Electronic control of the movement of the bar with obstacle detection.

Stationary safety function

All control commands will override if an obstacle is detected.





The Advantages of 24V D.C. Barriers

· No more blackouts

The Gard8 24V D.C. electronics system automatically recognizes a power outage and activates the emergency back-up batteries (not included), to ensure the gate will always perform its function.

· Keep speed in check

The 24V D.C. electronics enable the operating speed to be based on installation/location

· Intensive traffic

The low 24V D.C.gear motor ensures reliable operation of the barrier during heavy/high traffic conditions.

· Opening time

With the low-voltage consumption technology, the barrier opening time can be adjusted between 4-8 seconds.

Global entry control.

The Gard8 series automatic barrier system can be connected to many of the CAME access control systems that allow identification, memorization, entry and exit only to authorized personnel. The equipment can also be integrated with a global access control system.

Gard 8 Automatic Barrier Gates clearance of up to 25 ft.





24V D.C. operated barrier gates complete with control panel

Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories



001**G2180IZU** AISI 304 stainless steel with satin finish bar complete with control panel and fitted to take additional accessories



Available to work independently and in a synchronized action mode.

Thanks to the additional RSE card, the barriers can be installed facing each other or synchronized at the same access point.

*Barrier operators with batteries will only operate as long as the batteries have a charge.



Gard8 Kits & Technical Features





	Product Code	Operator Model	Max. Leaf (ft.)	Control Board	001 G06000 19.7 ft. Arm with Yellow Bumper	001G04060 Red Counter-Balance Spring	001G02809 Warning stickers	001G02803 (64 ft.) of light strip	001 G02804 Light Strip Adapter	001 G02801 Dome Light	OOI DIR10 Photocells	Battery Back-up Card 002LB38
Basic	KT-BG-GA/S-B0814-1	001G2180ZU	25	•	•	•	•					
Professional	KT-BG-GA/S-P0814-1	001G2180ZU	25	•	•	•	•	•	•			
Expert	KT-BG-GA/S-E0814-1	001G2180ZU	25	•	•	•	•	•	•	•	•	•

Please refer to the accessory and installation table to specify the balancing spring.

Technical features									
Туре	001G2180ZU	001G2180IZU							
Protection rating	IP54	IP54							
Power supply (V) (50/60Hz)	120V A.C.	120V A.C.							
Motor power supply (V)	24V D.C	24V D.C.							
Current draw (A)	15 Max	15 Max							
Power (HP)	1/2	1/2							
Duty cycle (%)	Intensive use	Intensive use							
Torque (Nm)	600	600							
Opening time 90° (s)	4 - 8	4 - 8							
Motor's thermo-protection (°F)	-	-							
Operating temperature (°F)	-4°F up to 131°F	-4°F up to 131°F							

24V D.C.





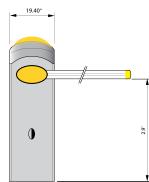


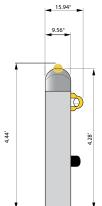
Gard8 Accessories



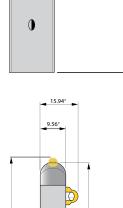


Dimensions





for both the US & Canada



Accessories for barrier gates with 24V D.C. operator

24V



002**LB38**

Card for connecting (3) 12V-7Amp emergency



001**G06000**

White painted aluminum tubular bar 3.93 in. complete with slot cover profile L = 19.68 ft.



001**G02805**

Emergency battery rack



001**G06803**

Joint for bar complete with additional insert to attach bar



001**G02040**

Balancing spring ø / 1.57 in.



001**G02803**

Luminous cord for bar



001**G02804**

Luminous cord cable



001**G06080**

001**G02801**

001**G02802**

Balancing spring ø / 2.16 in.

Dome-shaped flashing light

Support for series DIR photocells (Do not use with barriers with G0465 rack

and/or G02808 mobile support)



001**G0465**

Rack for painted aluminium bar (6.56 ft. modules)



001**G02807**

Fixed support for bar



001**G02808**

Mobile support for bars



001**G02809**

Warning sticker



001**G028011** Break-away fitting for bar

001**G04000**

001**G02000**

White painted aluminum tubular bar 3.93 in. complete with slot cover profile L = 13.12 ft.

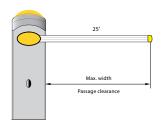
White painted aluminum tubular bar 3.93 in.

complete with slot cover profile L = 6.56 ft.

Accessories and installation

Depending on the configuration of the accessories required for mounting the boom, different kinds of springs are available to provide the best possible balance of movement. The table shows the possible combinations of the various accessories and the maximum length of the moving boom. Standard issue booms come with transparent profiles and head cap.

Composition of the bar	Max. width of passage clearance (ft.)	6.6	8.2	9.8	11.5	13.1	14.8	16.4	18	21.3	23	25
Simple bar		•	•	•	• •	•	• •	• •	• •	• •	• •	• •
Simple bar and G0280	08 mobile support					• •	• •	• •	• •	• •	• •	
Simple bar and G0280	3 luminous cord	•	•	• •	• •	• •	• •	• •	• •	• •	• •	• •
Bar with G02808 mob	ile support and G02803 luminous cord				•	• •	• •	• •	• •	• •	• •	
Simple bar and G0465	i rack	•	•	• •	•	• •	• •	• •	• •	• •	• •	
Simple bar, G0465 rad	ck and G02803 luminous cord				• •	• •	• •	• •	• •	• •	• •	



Color: Cabinet - grey textured Code 053 0837 Cover RAL9006



Gard 12 Automatic Barrier Gates

Gard12 is specifically engineered to operate large industrial passageways. A tubular bar allows for a 40 ft. road area to open and close in just 10 seconds.





The barrier for large clearance passageways.

Gard12 is a truly unique automation system. A special motor operates a bar up to 40 ft. long to manage special passageways such as in industrial loading docks, materials receiving and highways.



The Gard12 offers many innovative features, including:

Modular tubular bar.

The rounded section, with its differentiated diameters allows for easy carrying and reduced wind resistance.

Maximum safety.

Next-generation electronics automatically interrupt the power supply as soon as the service door is opened.

Accessible and well protected electronics.

It is located in an easy-to-reach position to aid scheduled maintenance operation and it is protected from environmental agents.

Balanced by counterweights.

Adjustable by way of steel modules that can be added or removed depending on the length of the bar.



Double motor, twice the lasting power.

Gard12 is equipped with 2 motors, which are installed along the same axis and provide remarkable torque.



Counterweighted balancing.

This ensures safe and reliable motion of the bar, even when used frequently.



Integration and modularity.

A special automation system perfectly integrates with all the CAME command and safety accessories.



Gard 12 Automatic Barrier Gates clearance of up to 40 ft.

State-of-the-Art Technology

The Gard12 new generation electronics provide for total control of the system, improving the usual command and safety functions, such as:

· Obstacle detection

A special electronic circuit constantly analyzes the proper functioning of the barrier, and will either stop or invert the mode, if it comes into contact with any obstacles.

Delayed motion during opening or closing

For sefety purposes, the electronics featured in 001G12010 allow decelerated movement of the bar nearing its end range of motion in the final stages of gate opening or closing.

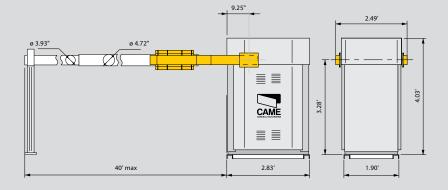
· No more blackouts

The 24V D.C. Gard12 automatically detects any interruption in the power source and immediately activates the emergency mode through the auxiliary batteries. (optional)



Global access control.

Every CAME automatic barrier, can be connected to a series of different access control systems which enable to identify, memorize and clear the entry or exit of authorized personnel only. The system can be integrated with an extensive access control system.



Color: Cabinet - grey textured Code 053 0837 Cover RAL9006



Gard 12 Accesories & Technical Features





24V D.C. operated barrier gate complete with control panel

001**G12010** Galvanized steel barrier complete with control panel





Accessories for road barriers with 24V D.C. operator

White painted tubular bar composed of:

- · 1 fixed support
- 1 tubular bar L = 244 in = Ø 4.72 in.
 1 tubular bar L = 236 in = Ø 4.72 in.
- · 1 accessory kit for bar extension.





001**G0461**

Red adhesive refracting strips for bars (24-pieces per package)



002**LB38**

Card for connecting (3) 12V-7Amp emergency batteries



001**DIR20**

Pair of photocells. Range: 65 ft.





Technical features	
Туре	001G12010
Protection rating	IP54
Power supply (V) (50/60Hz)	120V A.C.
Motor power supply (V)	24V D.C.
Current draw (A)	15 Max
Power (HP)	1/2
Maneuver speed 90° (s)	10
Duty cycle (%)	50
Torque (Nm)	600
Operating temperature (°F)	-4°F up to 131°F
	● 24V D.C







Warning flashing light.

The entire series of CAME Kiaro flashing lights can be directly installed on the Gard series cabinet.



Also comes in INOX steel for those special uses.

The G4001 and 6001 models come with AISI 301 stainless steel cabinet for those critical installations such as at toll booths or in areas with high salinity content in the air.

Garce Automatic Barrier Gates

Suited for clearances of up to 22 ft. Gard barriers come in different models depending on the passage.

The G4000UL was designed for clearance of up to 13ft., and the G6000UL for clearances of up to 22ft. Both models are fitted with a 24V D.C. operator and suited for intensive and frequent use.



The G4000UL and G6000UL barrier gates are ideal for controlling street access points.

Gard barriers are the ideal solution for controlling access points in residential and commercial areas, even in high traffic areas. The G4000UL and G6000UL barriers are easy to install.



Arm with rubber bumper.

Made of profiled aluminium, the bumpers come with rectangular or circular sections, which decrease wind resistance.

Protected, integrated, intermittent warning lights.

The warning lights improve bar visibility and durability of the illuminating elements.

State-of-the-Art Technology

The model's electronics provide optimal control of the bar's movement, providing desired speed of opening and closing.

- Just 2 seconds to clear the passage effectively Even during high-frequency use.
- Auto-memorizes the radio code From the transmitter to the receiver.
- Can work in maintained action mode

As required by current standards.





The Advantages of 24V D.C. Barriers

· Frequent blackouts

The 24V D.C. electronics system automatically recognizes a power loss and activates emergency operation with special auxiliary batteries.

· Keep speed in check

For total service, the 24V D.C. electronics enables the operating speed to be adjusted depending on whether the situation requires faster or slower openings and closings.

· Intensive use

The low-voltage motor ensures operation of the barrier for intensive traffic conditions, such as streets, parking areas and other settings entailing constant, intensive operation.

· Obstacle detection

A special electronic circuit constantly analyzes the proper functioning of the bar, allowing for them to completely stop or invert the motion if obstacles are detected.

Global entry control.

The Gard series automatic barrier system can be connected to many of the CAME access control systems that allow identification, memorization, entry and exit only to authorized personnel. The equipment can also be integrated with a global access control system.







24V D.C. barrier gates complete with control panel

001**G4000UL** Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories, 13 ft.

001**G6000UL** Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories, 22 ft.



Perfectly synchronized.

Through an opposite plug on the control panel, the G4000UL and G6000UL models can be synchronized to control the actions of two barriers.







Gard Kits & Technical Features

Gard 4000UL Kits

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	Product Code	Operator Model	Max. Leaf (ft.)	Control Board	001G0401 13 ft. Arm	001G0461 Warning Stickers	001G0403 Rubber Bumper	Photocells 001D0C-E with 001G0468 Support	001 KIARO24N with 001 G04601 Adapter	Battery Back-up Card 002LB38
Basic	KT-BG-G4/S-B0414-1	001G4000UL	13	•	•	•				
Professional	KT-BG-G4/S-P0414-1	001G4000UL	13	•	•	•	•			
Expert	KT-BG-G4/S-E0414-1	001G4000UL	13	•	•	•	•	•	•	•

Gard 6000UL Kits

			l	-	10	_	\ <u> </u>	*		1
	Product Code	Operator Model	Max. Leaf (ft.)	Control Board	001G0601 22 ft. Arm	001G0461 Warning Stickers	001G0G03 Rubber Bumper	Photocells 001 DOC-E with 001 GO468 Support	001KIARO24N with 001G04601 Adapter	Battery Back-up Card 002LB38
Basic	KT-BG-G6/S-B0614-1	001G6000UL	22	•	•	•				
Professional	KT-BG-G6/S-P0614-1	001G6000UL	22	•	•	•	•			
Expert	KT-BG-G6/S-E0614-1	001G6000UL	22	•	•	•	•	•	•	•

Technical features		
Туре	G4000UL	G6000UL
Protection rating	IP54	IP54
Power supply (V) (50/60Hz)	120V A.C	120V A.C
Motor power supply (V)	24V D.C.	24V D.C.
Current draw (A)	15 Max	15 Max
Power (HP)	1/2	1/2
Duty cycle (%)	Intensive use	Intensive use
Torque (Nm)	200	600
Opening time 90° (s)	2 - 6	2 - 6
Motor's thermo-protection (°F)	-	302 °F
Operating temperature (°F)	-4°F up to 131°F	-4°F up to 131°F
		24V D.C







Gard Accessories

Accessories for barrier gates with 24V D.C. operators









002**LB38**

Card for connecting (3) 12V-7Ah emergency batteries for: G4000UL and G6000UL barriers



White painted aluminum bar for G4000UL barriers. Section: 2.36 x 1.57 x 165.35 in.

001**G0402**

White painted aluminum bar for G4000UL barriers. Section: 2.36 x 165.35 in. (for areas subject to strong wind)

001**G0461**

Red adhesive refracting strips for bars (24 pieces per package)



001**G0405**

Fitting for G0402 bar



001**G0403**

Impact-resistant red protective rubber



001**G0460**

Package of (6) 24V signalling lamps for G0401 bars



001**G0465**

Rack for painted aluminum bar for G4000UL and G6000UL barriers (6.56 ft modules)



Joint for bars. For G4000UL and G6000UL barriers



001**G0462**

Fixed support for bar. For G4000UL and G6000UL barriers



Mobile support for bar. For G4000UL and G6000UL barriers



Support for applying Doc series photocells on the cabinet. For G4000UL and G6000UL barriers



001**DOC-F**

Photocells with 001G0468 support

Rectangular-section aluminum bar 1.57 x 3.94 x 270 in. for G6000UL barriers

001**G0602**

Tubular aluminum bar 3.94 x 270 in. for G6000UL barriers (special accessory for areas subject to strong winds)



001**G0605**

Fitting for G0602 tubular bar



001**G0603**

Impact-resistant red protective rubber



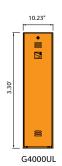
001**G04601**

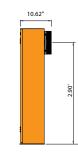
Adapter for application of the Kiaro flashing lights (complements the Kiaros support)

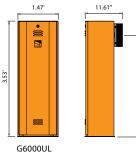


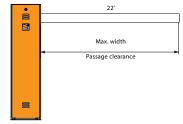
001**KIARO24N**

Warning flashing light with 001G04601 adapter









Cabinet - orange textured Code 053 0837 Cover RAL9006

Limits to use		
Model Composition of the bar	001G4000UL Max. width of passage clearance	001G6000UL e (ft.)
Simple bar	13	22
Bar with G0403 rubber and G0460 lamps	11	20
Bar with G0463 mobile support	11	20
Bar with G0403 rubber, G0460 lamps		
and G0465 rack or G0463 mobile support	8.2	20
Bar with G0465 rack and G0463 mobile support	6.5	
Bar with G0403 rubber, G0460 lamps		18
G0465 rack and G0463 mobile support	-	

24V D.C.



The information indicated in this brochure should be considered subject to change at any time without forewarning by CAME Americas Automation.

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