



 **COMUNELLO**
MADE IN ITALY

GATE AUTOMATION

Fort Fortissimo!

 **COMUNELLO**
MADE IN ITALY

100%

Made in Comunello

Made in Italy



Automation for now and for the

FUTURE

The Comunello Group is built on a solid, reliable, well-structured manufacturing base. The group comprises 5 divisions in which all the products of each division are 100% designed and produced at company headquarters in Italy. This total control over manufacturing processes guarantees the highest levels of quality. Comunello was founded in 1965 and today exports to more than 105 countries worldwide.

A company with more than 50 years of manufacturing experience, a clear international vision based on the quality of our design, our groundbreaking technology, the solidity of our production, and our commitment to technical service and customer care.





MADE IN COMUNELLO



Precisely what you would

EXPECT

With our reputation for mechanical excellence and passion for movement, the Automation project is a natural expression of our company vision. As a result we offer products at a level of quality that is precisely what our clients would expect and deserve. In keeping with the company philosophy for making life easy, all control electronics have been designed to be as clear to use as

possible. Because we have spent more time in the design phase, you will spend less time for installation. All connections are clearly shown on the electronic control unit to facilitate a rapid and efficient set up.

Mechanical excellence
Electrical simplicity





 **COMUNELLO**



 **COMUNELLO**
FORMATION LAB



INCREDIBLY

simple and professional

Pro-setting allows for a fully articulated and detailed set-up. Incredibly easy, intuitive and rapid.

- Select the type of gate being installed.
- Auto-set provides a rapid and complete set-up.
- Rapid selection of motor direction/open-close setting.
- 3D visualization with touch screen control of the complete project with accessories visualized.
- In Pro-settings all parameters can be fine tuned for every aspect of the set-up.
- In Pro-settings the installer has complete management of up to 400 remote control codes.



ONE TECHNOLOGY





HP CONTROL UNIT

Two voltages, one programming logic

The HP electronic control unit provides a vast range of programming options making it ideal for use with even the most advanced home automation systems. Comunello has two types of unit at 24V and 230V. To make life easy the first series of commands is the same for both units, with set up based on a simple,

intuitive program select system using LEDs. And once the programming logic has been learned, it also applies to the other control unit. Life Made Easy!

24V HP



- Easy-to-use multi-level menu with clear LED guide for simple set up
- Motor direction set up
- 24V & 230V warning / working light output
- Control panel protective covering with printed instructions
- Automated travel programming
- Double protection with fuse
- Direct adjustment of Speed (24V) or Force (230V), Slow Down and Sensitivity
- Auxiliary radio control channel
- Direct lock control output
- Photo-test for the photocell sensors
- Opto-isolated inputs
- Removable radio unit
- Back-up battery input (24V)
- Soft-Start & Soft-Stop
- Manual set up of movement
- Radio-controlled lock
- Simplified movement or schedule set up
- Encoder input
- Removable connectors and simplified layout
- Condominium function
- Gate status light output
- 8k2 security input

230V HP



EUROPEAN STANDARDS

Comunello Group is at your side:

1. To inform:

a. What are the current regulations?

EN 12453:2017 standards specifies compliance and safety requirements for automated locking that may come into contact with people, allowing you to define all the technical solutions necessary for the safety of the user.

b. What are the contexts required by European standards?

Type of control	Hold to run	Impulse located in sight of gate	Impulse not located in sight of gate (radio control)	Automatic (Impulse)	
Exemples	switch or key operated switch	switch or key operated switch	Radio control unit	Operating cycle	
Conditions of use	no public present TRAINED User	A	C	C	C + D
	no public present UNTRAINED User	C	C	C + D	C + D
	public may be present TRAINED User	B	C	C + D	C + D
	public may be present UNTRAINED User	-	C + D	C + D	C + D

c. What are the required safety devices?

- A** Operator Presence (continuous pressure required).
- B** Operator Presence (continuous pressure not required).
- C** Mechanical (sensitive edges) and electronic devices. You need to check whether the maximum impact forces are in line with the values required by the standards.
- D** Photocells, to allow detection of the presence of an obstacle in the automation operational area.

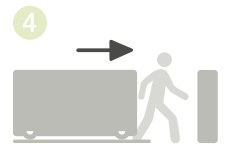
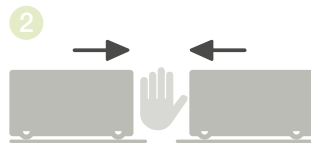
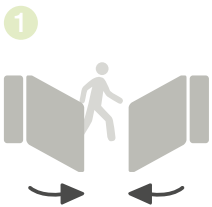
EN 12453:2017

2. To offer “turnkey solution” :

a. COMUNELLO certifies the products are in compliance with the standards.

When a gate, a door or other type of opening is automated, it becomes a machinery which may involve risks. These are of different types:

- 1- Crushing
- 2- Shearing
- 3- Lifting (in case of barrier with a vertical movement)
- 4- Conveying



b. provides complete solution in order to certify the installation.

the wide range of automation for slide and swing gates, barriers and garage doors has been developed and produced conforming to the security European Norms. Such automations allow the installer to certify his installation. For further details please contact our tech support.

technical_assistance@comunello.it

INDEX

Sliding and cantilever gates



FORT | pag. 18

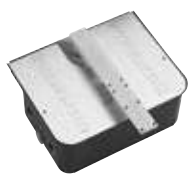


FORT 2500 | pag. 28



FORT 3500 | pag. 30

Swinging gates



EAGLE | pag. 34



CONDOR SERIES | pag. 44



ABACUS | pag. 56



RAM | pag. 66

Garage doors



RAMPART | pag. 72

SALIENT | pag. 78

Road barriers



BORDER | pag. 84



LIMIT 500 | pag. 88



LIMIT 600 | pag. 92



LIMIT 800 | pag. 96

MY2021 Accessories | pag. 102



FORT

Technical features



Robust carter with anti UV treatment

Release for manual operation with key and integrated aluminum lever

Die-cast aluminum structure

Stainless steel fixing screw for openings with both screwdriver and wrench. this allows a facilitated installation of the actuator even in the position near the column

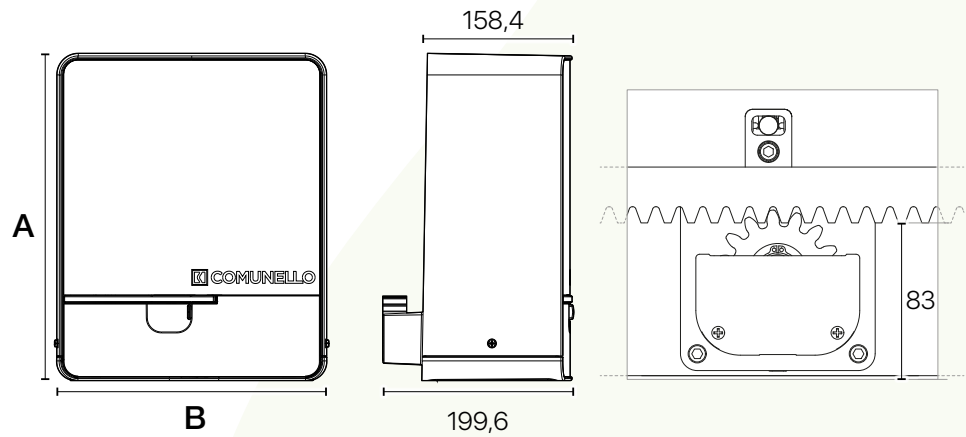
DIMENSION (mm)

FORT 400-500:

A=325 - B=237

FORT 600-800-1000-1500:

A=345 - B=285



GENERAL FEATURES

Performance: Mechanical performance and lubrication tested and guaranteed even at low temperatures

Speed: Nominal speed and slowdown adjustable up to 0.28 m / s

Obstacle detection: Obstacle detection by current absorption or encoder

Intensive use: 24vdc version for intensive use

TECHNICAL FEATURES

	FORT 400 24V FORT 400 ONE	FORT 500 230V	FORT 600 24V FORT 600 ONE	FORT 800 24V FORT 800 ONE	FORT 800 230V	FORT 1000 24V FORT 1000 ONE	FORT 1000 230V	FORT 1500 230V
Voltage	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz	230 VAC 50 Hz
Operating power supply	24 VDC	230 VAC	24 VDC	24 VDC	230 VAC	24 VDC	230 VAC	230 VAC
Power consumption	70 W	280 W	110 W	150 W	320 W	150 W	340 W	460 W
Max. absorption	3,0 A	1,2 A	5,0 A	5,6 A	1,4 A	6,2 A	1,5 A	2,0 A
Internal gear	Nylon	Nylon	Nylon	Bronze	Bronze	Bronze	Bronze	Bronze
Max. thrust	350 N	450 N	550 N	750 N	750 N	900 N	900 N	1400 N
Duty cycle	Intensive use	30%	Intensive use	30%	30%	Intensive use	30%	30%
Protection degree (IP)	IP44	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Insulation class	2	1 (earthing)	2	2	1 (earthing)	2	1 (earthing)	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C
Max. gate weight	400 Kg	500 Kg	600 Kg	800 Kg	800 Kg	1000 Kg	1000 Kg	1500 Kg
Rack module	M4	M4	M4	M4	M4	M4	M4	M4
Speed	0,26 m/s	0,17 m/s	0,28 m/s	0,28 m/s	0,17 m/s	0,21 m/s	0,17 m/s	0,17 m/s
Weight	8,9 Kg	9,9 Kg	10,6 Kg	12 Kg	12 Kg	12 Kg	12,4 Kg	12,6 Kg

FORT

Technical features

On-board control unit with integrated receiver. Control boards HP can manage actuators with or without encoder

Every single product is duly tested at the end of each assembly line



Prewired pad printed terminals

Battery housing for 24V versions

New lever release

Large space dedicated to cable passage with rubber protection against insects

The 4 fixing points ensure a more stable installation

Height and flatness adjustment



AC-50 optional battery
in the event of a power
failure (24V models only)



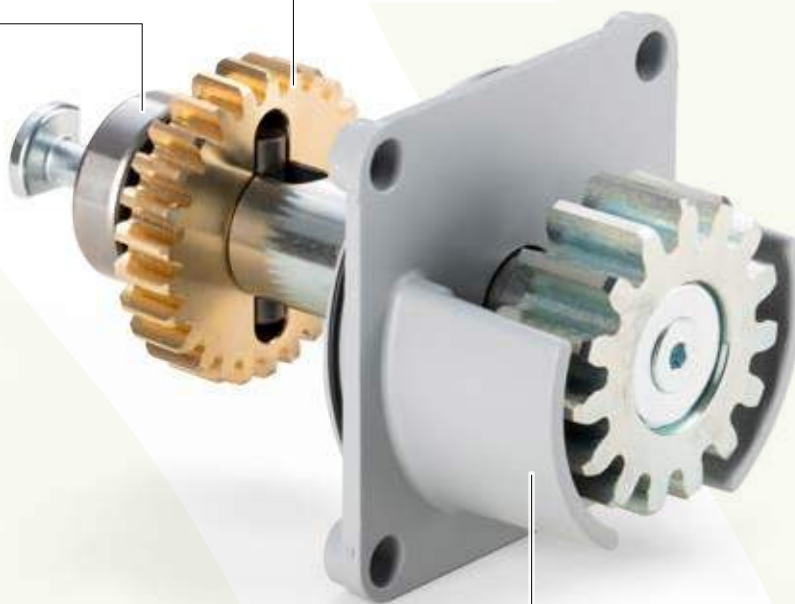
Mechanical limit switch version



Magnetic limit switch version

Ball bearings with artic
grease

Bronze cogwheel
(FORT 800-1000-1500)



Pinion protection made
of die-cast aluminium

FORT ONE BUS

Automation for sliding gates
24 Vdc - ONE TECHNOLOGY



24 Vdc motor, with built-in encoder and electronics, for sliding gates up to 1000 kg

			Max. leaf weight				Fixing KIT*		
FORT 400 ONE	24 Vdc	G1F040MELOB00A	400 kg	CU ONE 1M	•	•	•	8,9 kg	30
FORT 600 ONE	24 Vdc	G1F060MELOB00A	600 kg	CU ONE 1M	•	•	•	10,6 kg	30
Fort 800 ONE	24 Vdc	G1F080MELOB00A	800 kg	CU ONE 1M	•	•	•	12 kg	30
FORT 1000 ONE	24 Vdc	G1F100MELOB00A	1000 kg	CU ONE 1M	•	•	•	12 kg	30

* Electromechanical limit switch included, available with magnetical limit switch version











Accessories compatibles with ONE TECHNOLOGY serie

	AC-51	Back-up battery	G1BATTERLOG00	1	1,3 kg
	I/O ONE	Interface board I/O ONE	G1INTERFLOB00	1	0,5 kg
	AC-35	Signal amplifier for 433 MHz remote controls	GAMPLANTLOG00	1	0,2 kg
	K-ONE	Wi-Fi connection key, One Technology	G1KEYWIFLOG00	1	0,02 kg

FORT **ONE** BUS KIT System



Complete kits for sliding gates, 24 Vdc, up to 1500 kg

	KIT System			
 Fort 400 ONE		GK1F040MLB000A	9,5 kg	30
 Fort 600 ONE		GK1F060MLB000A	11,2 kg	30
 Fort 800 ONE		GK1F080MLB000A	13 kg	30
 Fort 1000 24V ONE		GK1F100MLB000A	13 kg	30



KIT System



FORT

Automation for sliding gates

24 Vdc and 230 Vac with encoder - mechanical and magnetic limit switch



24 Vdc and 230 Vac motor with built-in electronics for sliding gates up to 1500 kg

			Max. leaf weight						Fixing kit*		
FORT 400	24 Vdc	GFT040MELOB00A	400 kg	CU 24V HP	•	•	•		•	8,9 kg	30
FORT 600	24 Vdc	GFT060MELOB00A	600 kg	CU 24V HP	•	•	•		•	10,6 kg	30
FORT 800	24 Vdc	GFT080MELOB00A	800 kg	CU 24V HP	•	•	•		•	11,6 kg	30
FORT 1000	24 Vdc	GFT100MCL0B00A	1000 kg	CU 24V HP	•	•	•		•	12 kg	30
FORT 1000	24 Vdc	GFT100GCL0B00A	1000 kg	CU 24V HP	•	•		•	•	12 kg	30
FORT 500	230 Vac	GFT050MEH0B00A	500 kg	CU 230V HP	•	•	•		•	9,9 kg	30
FORT 800	230 Vac	GFT080MEH0B00A	800 kg	CU 230V HP	•	•	•		•	11,6 kg	30
FORT 1000	230 Vac	GFT100MEH0B00A	1000 kg	CU 230V HP	•	•	•		•	12,4 kg	30
FORT 1000	230 Vac	GFT100GCH0B00A	1000 kg	CU 230V HP	•	•		•	•	12,4 kg	30
FORT 1000	230 Vac	GFT100G0H0B00A	1000 kg	-	•	•		•	•	12,4 kg	30
FORT 1500	230 Vac	GFT150MHH0B00A	1500 kg	CU 230V HP	•	•	•		•	12,6 kg	30
FORT 1500	230 Vac	GFT150GCH0B00A	1500 kg	CU 230V HP	•	•		•	•	12,6 kg	30

= Encoder - = Mechanical endstops - = Magnetic endstops

* Electromechanical limit switch included, available with magnetical limit switch version

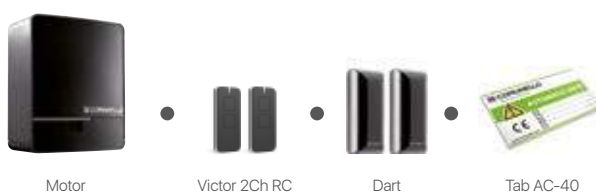


KIT System

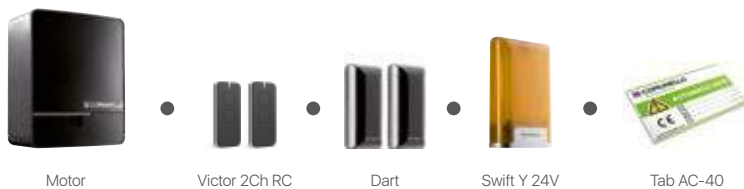
ENTRY KIT



LIGHT KIT



FULL KIT



FORT KIT System



Complete kits for sliding gates, with encoder, 24 Vdc and 230 Vac, up to 1500 kg with electromechanical limit switch

	KIT System				
 Fort 400 	ENTRY		GKFT040ELB930A	9,1 kg	30
	LIGHT		GKFT040ELB920A	9,3 kg	30
	FULL		GKFT040ELB000A	9,5 kg	30
 Fort 600 	ENTRY		GKFT060ELB930A	10,8 kg	30
	LIGHT		GKFT060ELB920A	10,9 kg	30
	FULL		GKFT060ELB000A	11,2 kg	30
 Fort 800 	ENTRY		GKFT080ELB930A	11,8 kg	30
	LIGHT		GKFT080ELB920A	11,9 kg	30
	FULL		GKFT080ELB000A	12,2 kg	30
 Fort 1000 	ENTRY		GKFT100ELB930A	12,7kg	30
	LIGHT		GKFT100ELB920A	12,8 kg	30
	FULL		GKFT100ELB000A	13 kg	30
 Fort 500 	ENTRY		GKFT050EHB930A	10,1 kg	30
	LIGHT		GKFT050EHB920A	10,3 kg	30
	FULL		GKFT050EHB000A	10,5 kg	30
 Fort 800 	ENTRY		GKFT080EHB930A	11,8 kg	30
	LIGHT		GKFT080EHB920A	11,9 kg	30
	FULL		GKFT080EHB000A	12,2 kg	30
 Fort 1000 	ENTRY		GKFT100EHB930A	12,7kg	30
	LIGHT		GKFT100EHB920A	12,8 kg	30
	FULL		GKFT100EHB000A	13 kg	30
Fort 1000 DUAL KIT*	FULL		GKFT100DHB000A	25,5 kg	18
 Fort 1500 	ENTRY		GKFT150EHB930A	13,3 kg	30
	LIGHT		GKFT150EHB920A	13,4 kg	30
	FULL		GKFT150EHB000A	13,6 kg	30

*Magnetical limit switch

FORT Accessories



	AC-220	Fixing support for sliding actuator								
	AC-250	No.6 M10 anchors fixing kit								
	AC-200	Magnetic limit switches kit								
	AC-205	Magnetic sensor								
	AC-206	Electromechanical limit switch with extended spring (for Fort 400/500/600/800/1000/1500 with Integrator opening system, Mini and Piccolo version)								
	AC-261	1 m M4 Nylon rack with iron core and 6 fixing points								
	AG-260-1M	Galvanised iron rack M=4; A.B=22; L=1000								
	AG-260-2M	Galvanised iron rack M=4; A.B=22; L=2000								
	AG-260-1M	Galvanised iron rack M=6; A.B=30; L=1000								
	AG-KIT 262	Galvanised rack to be screwed 30x8x1M with spacers								
	AG-KIT 262	Galvanised rack to be screwed 30x12x1M with spacers								
	AG-KIT 262	Galvanised rack to be screwed 30x12x2M with spacers								

 **COMUNELLO**
MADE IN ITALY



FORT 2500

Technical features



Fast, Safe, Reliable, Simple
Obstacle sensitive, Speed
reduction management

CONTROL BOARDS

CU INDUSTRY 230V

QUAD 230V INVERTER FORT 2500/3500

MAIN FEATURES

- **Speed:** thanks to the integrated inverter it is possible to adjust the nominal and slow-down speeds while maintaining high levels of force and smooth movement.
- **Acceleration:** The control unit allows to manage and adjust the acceleration and deceleration ramps
- **Security:** The control unit is able to manage, through dedicated inputs, N.C. or 8K2 sensitive edges and photocells.
- **Diagnostics:** The control unit is able to perform real-time diagnostics using dedicated LEDs and display anomalies.
- **Commands:** The control unit manages the commands: "only opening", "only closing", "step-by-step" and "Pedestrian".
- **Sensitivity:** The control unit allows to adjust the sensitivity for obstacle detection.

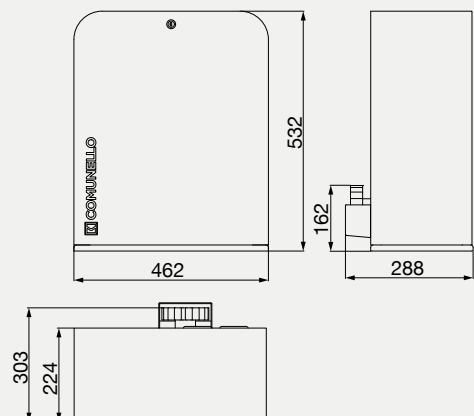
CU INDUSTRY 380V

QUAD 380V FORT 2500/3500

MAIN FEATURES

- **Sensitivity:** The control unit allows to adjust the sensitivity for obstacle detection.
- **Commands:** The control unit manages the commands: "only opening", "only closing", "step-by-step" and "Pedestrian".
- **Diagnostics:** The control unit is able to perform real-time diagnostics using dedicated LEDs.
- **Security:** The control unit is able to manage, through dedicated inputs, NC/8K2 sensitive edges and photocells.
- **Simple:** The main functions can be easily activated using 10 dip-switches.

DIMENSIONS (mm)



On-board control unit, also available with inverter

Integrated receiver: up to 500 codes (rolling code or fixed code) can be memorized

Gasket along the entire front opening for greater protection



Gearmotor with integrated ventilation, available in 230V 3~ and 380 VAC versions

The gearmotor fully lubricated in an oil bath ensures high performance even at extreme temperatures (-20 °C / + 50 °C)

Heat-dissipation vents

Robust steel frame with protective treatment



Reliable electromechanical limit switch with IP67 protection degree

Strong shaft with pinion module M4



Every single product is duly tested at the end of each assembly line

★ Actuator dedicated to the Ranger telescopic sliding system



Technical features

	FORT 2500 380V STD FE	FORT 2500 230V INV FE	FORT 2500-S 230V INV FE ★
Power supply	380V 50 Hz	230V 50 Hz	230V 50 Hz
Operating power supply	380V	230V 3~	230V 3~
Power consumption	0,37 KW	0,37 KW	0,37 KW
Max. absorption	1,11 A	1,92 A	1,92 A
Max. thrust	2000 N	2000 N	2000 N
Duty cycle	Intensive use	Intensive use	Intensive use
Protection degree (IP)	IP44	IP44	IP44
Insulation class	1 (earthing)	1 (earthing)	1 (earthing)
Working temperature	-20° /+50°	-20° /+50°	-20° /+50°
Max. gate weight	2500 Kg	2500 Kg	2500 Kg
Rack module	M4	M4	M4
Speed	0,17 m/s	Up to 0,38 m/s	Up to 0,19 m/s
Gear ratio	1:50	1:50	1:100
Weight	35 Kg	37 Kg	37 Kg
Control board	CU INDUSTRY 380V	CU INDUSTRY 230V	CU INDUSTRY 230V

FORT 3500

Technical features



Fast, Safe, Reliable, Simple
Obstacle sensitive, Speed
reduction management

CONTROL BOARDS

CU INDUSTRY 230V

QUAD 230V INVERTER FORT 2500/3500

MAIN FEATURES

- **Speed:** thanks to the integrated inverter it is possible to adjust the nominal and slow-down speeds while maintaining high levels of force and smooth movement.
- **Acceleration:** The control unit allows to manage and adjust the acceleration and deceleration ramps
- **Security:** The control unit is able to manage, through dedicated inputs, N.C. or 8K2 sensitive edges and photocells.
- **Diagnostics:** The control unit is able to perform real-time diagnostics using dedicated LEDs and display anomalies.
- **Commands:** The control unit manages the commands: "only opening", "only closing", "step-by-step" and "Pedestrian".
- **Sensitivity:** The control unit allows to adjust the sensitivity for obstacle detection.

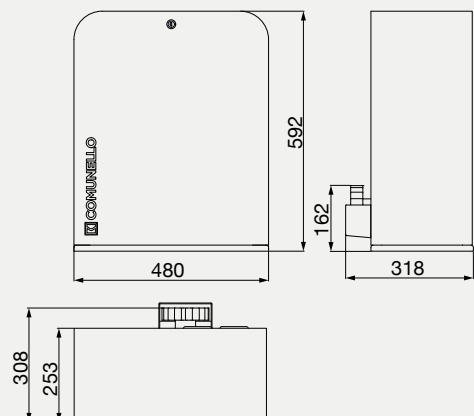
CU INDUSTRY 380V

QUAD 380V FORT 2500/3500

MAIN FEATURES

- **Sensitivity:** The control unit allows to adjust the sensitivity for obstacle detection.
- **Commands:** The control unit manages the commands: "only opening", "only closing", "step-by-step" and "Pedestrian".
- **Diagnostics:** The control unit is able to perform real-time diagnostics using dedicated LEDs.
- **Security:** The control unit is able to manage, through dedicated inputs, NC/8K2 sensitive edges and photocells.
- **Simple:** The main functions can be easily activated using 10 dip-switches.

DIMENSIONS (mm)



On-board control unit, also available with inverter

Integrated receiver: up to 500 codes (rolling code or fixed code) can be memorized

Gasket along the entire front opening for greater protection



Gearmotor with integrated ventilation, available in 230 VAC \approx and 380 VAC versions

The gearmotor fully lubricated in an oil bath ensures high performance even at extreme temperatures (-20 °C / + 50 °C)

Heat-dissipation vents

Robust steel frame with protective treatment



Reliable electromechanical limit switch with IP67 protection degree

Strong shaft with pinion module M6 (M4 for Fort 3500-S)



Every single product is duly tested at the end of each assembly line

★ Actuator dedicated to the Ranger telescopic sliding system



Technical features

	FORT 3500 380V STD FE	FORT 3500 230V INV FE	FORT 3500-S 230V INV FE ★
Power supply	380V 50 Hz	230V 50 Hz	230V 50 Hz
Operating power supply	380V	230V 3 ~	230V 3 ~
Power consumption	0,75 KW	0,75 KW	0,75 KW
Max. absorption	1,9 A	3,29 A	3,29 A
Max. thrust	3000 N	3000 N	3000 N
Duty cycle	Intensive use	Intensive use	Intensive use
Protection degree (IP)	IP44	IP44	IP44
Insulation class	1 (earthing)	1 (earthing)	1 (earthing)
Working temperature	-20° /+50°	-20° /+50°	-20° /+50°
Max. gate weight	3500 Kg	3500 Kg	3500 Kg
Rack module	M6	M6	M4
Speed	0,17 m/s	Up to 0,38 m/s	Up to 0,19 m/s
Gear ratio	1:50	1:50	1:100
Weight	46 Kg	48 Kg	48 Kg
Control board	CU INDUSTRY 380V	CU INDUSTRY 230V	CU INDUSTRY 230V

FORT 2500

Automation for sliding gates
230 Vac and 380 Vac

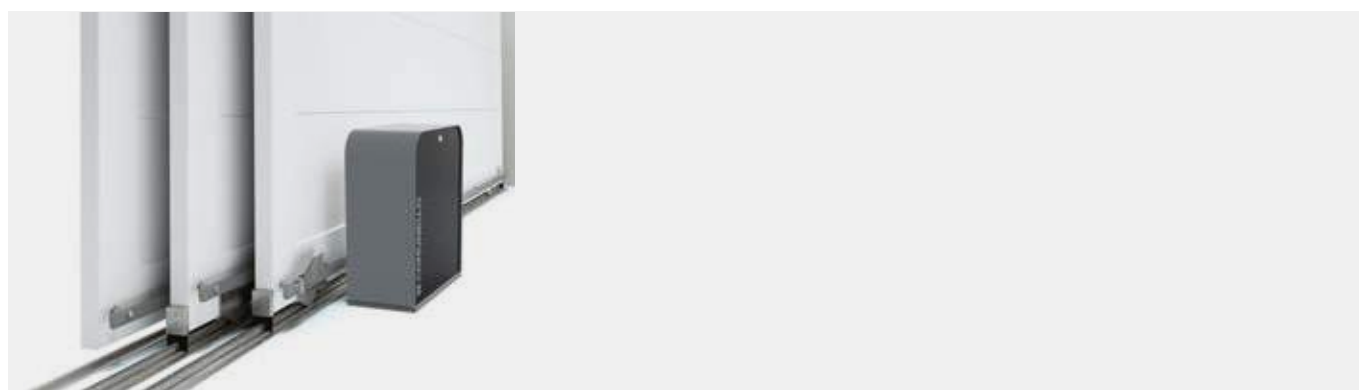


230 Vac and 380 Vac three-phase motors with built-in electronics for sliding gates up to 2500 kg

			Max. leaf weight	Inverter		Gear ratio		
FORT 2500*	230 Vac	GFT250MXF2B00	2500 kg	•	•	01:50	38 kg	5
FORT 2500 *	400 Vac	GFT250MXG0B00	2500 kg		•	01:50	39 kg	5



* Electromechanical limit switch included, available with magnetical limit switch version



			Max. leaf weight	Inverter		Gear ratio		
FORT 2500 *	230 Vac	GFT250MXF1B00	2500 kg	•	•	01:100 **	39 kg	5

Electromechanical limit switch included, available with magnetical limit switch version

** Compatible with Comunello RANGER system

Accessoires

	AC-210	Pignon module 6	GFT001CRN0G00	1	0,4 kg
	AC-250	No.6 M10 anchors fixing kit	GROD4M10N0G00	1	0,98 kg
	AC-207	Long leverage for electromechanical limit switch (for Fort 2500/3500 with Integrator opening system, Grande version)	GFINECORN00G0	1	0,05 kg

FORT 3500

Automation for sliding gates
 230 Vac and 380 Vac

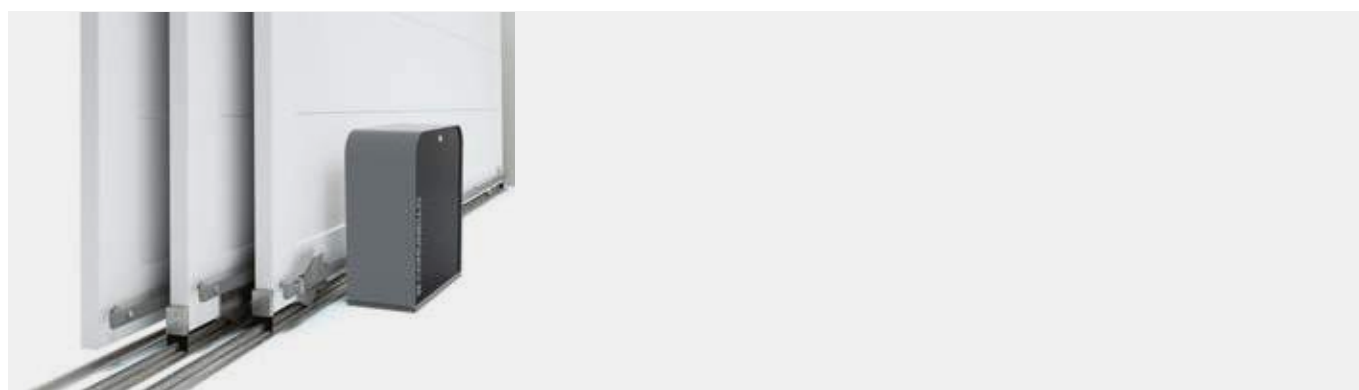


230 Vac and 380 Vac three-phase motors with built-in electronics for sliding gates up to 3500 kg

			Max. leaf weight	Inverter		Gear ratio		
FORT 3500 *	230 Vac	GFT350MXF0B00	3500 kg	•	•	01:50	53,5 kg	5
FORT 3500 *	400 Vac	GFT350MXG0B00	3500 kg		•	01:50	54 kg	5



* Electromechanical limit switch included, available with magnetical limit switch version



			Max. leaf weight	Inverter		Gear ratio		
FORT 3500 *	230 Vac	GFT350MXF1B00	3500 kg	•	•	01:100 **	54 kg	5

Electromechanical limit switch included, available with magnetical limit switch version

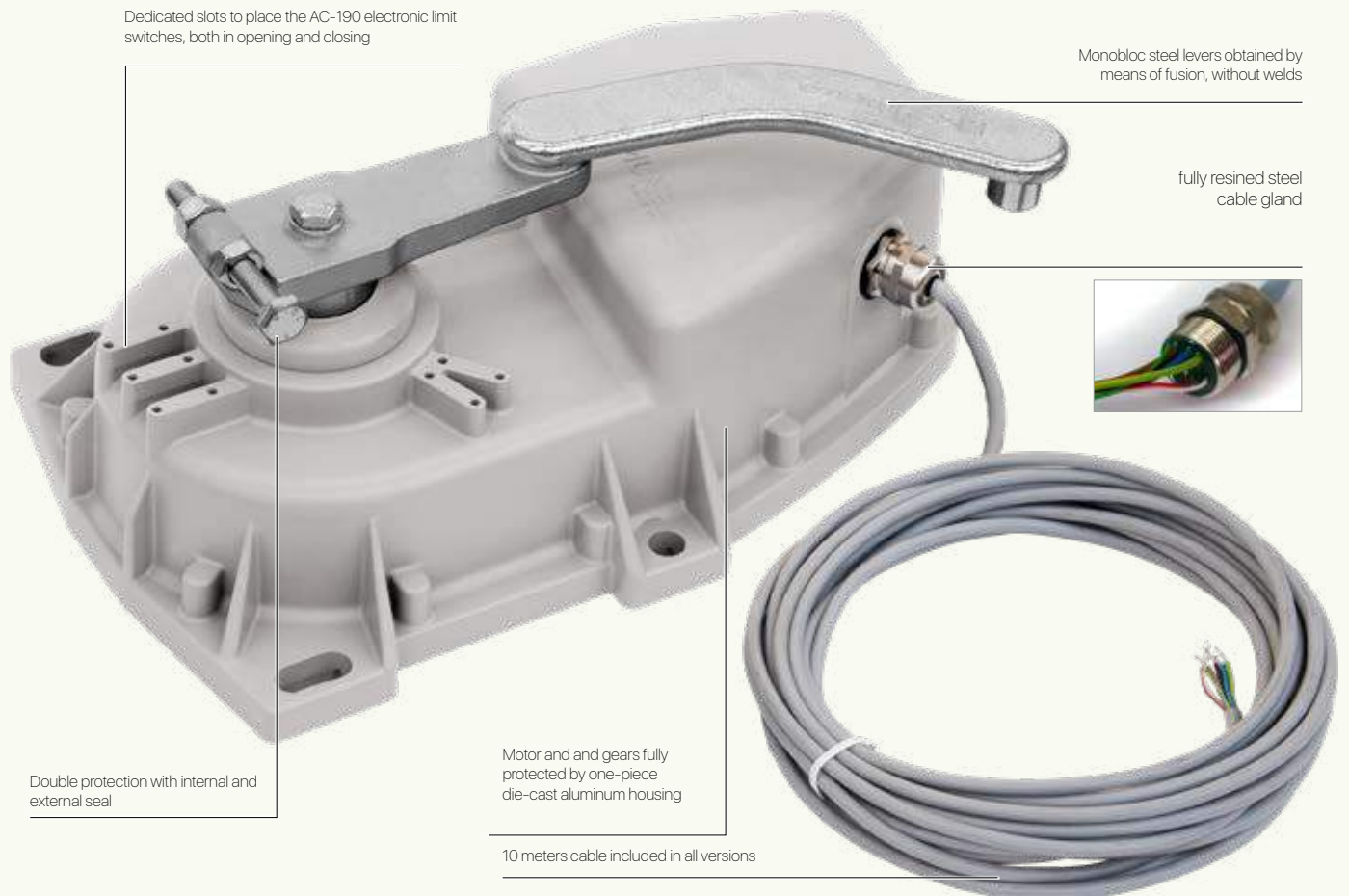
** Compatible with Comunello RANGER system

Accessoires

	AC-210	Pignon module 6	GFT001CRN0G00	1	0,4 kg
	AC-250	No.6 M10 anchors fixing kit	GROD4M10N0G00	1	0,98 kg
	AC-207	Long leverage for electromechanical limit switch (for Fort 2500/3500 with Integrator opening system, Grande version)	GFINECORN00G0	1	0,05 kg

EAGLE NEW 2021

Underground electromechanical actuators for residential swing gates. For leaves up to 3.5 m.



LEVERAGE INCLUDED



COMPATIBLE ACCESSORIES

AC-185
180 ° opening kit



AC-190
External limit switches kit



AC-160
Unlocking system with cylinder key



AC-170
Unlocking system without cylinder



TECHNICAL FEATURES

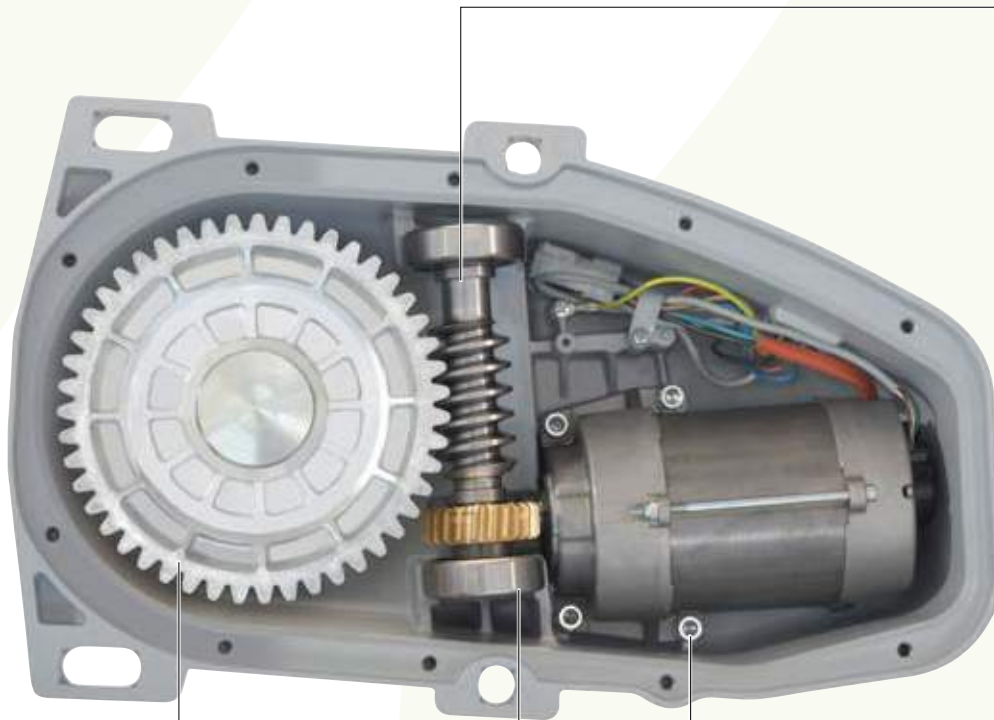
	EAGLE 350 - ONE	EAGLE 350	ENCODER EAGLE 350	EAGLE 350	ENCODER EAGLE 350
Operating power supply	24V	24V	24V	230V ~ 50Hz	230V ~ 50Hz
Power consumption	150 W	150 W	150 W	280 W	280 W
Absorption	6.5 A	6.5 A	6.5 A	1.2 A	1.2 A
Maximum torque	220 Nm	220 Nm	220 Nm	300 Nm	300 Nm
Duty cycle	Intensive use	Intensive use	Intensive use	50,00%	50,00%
Protection rating	IP67	IP67	IP67	IP67	IP67
Insulation class	3 (selv)	3 (selv)	3 (selv)	1 (earthing)	1 (earthing)
Operating temp.	from -20°C to + 50°C	from -20°C to + 50°C	from -20°C to + 50°C	from -20°C to + 50°C	from -20°C to + 50°C
Minimum time of opening to 90° (without slowdowns)	~ 12 sec (adjustable)	~ 12 sec (adjustable)	~ 12 sec (adjustable)	~ 19 sec	~ 19 sec
Motor mass	11.3 Kg	11.3 Kg	11.3 Kg	11.6 Kg	11.6 Kg



Every single product is regularly tested at the end of the assembly line

EAGLE: ACCURATE SILENT AND RELIABLE

Gear lubrication with arctic grease



Die-cast tooth wheel in zamak with high resistance and elasticity

Reducer with bearings and gears in steel and bronze
Special bearings suitable for low temperatures

The motor is fixed to the aluminum shell with 4 screws. This guarantees a better and more stable coupling between drive shaft and bronze gear, thus eliminating vibrations and ensuring greater silence.

MAIN FEATURES

Performance: Mechanical performance and lubrication tested and guaranteed even at low temperatures

Speed: Nominal speed and adjustable slowdown

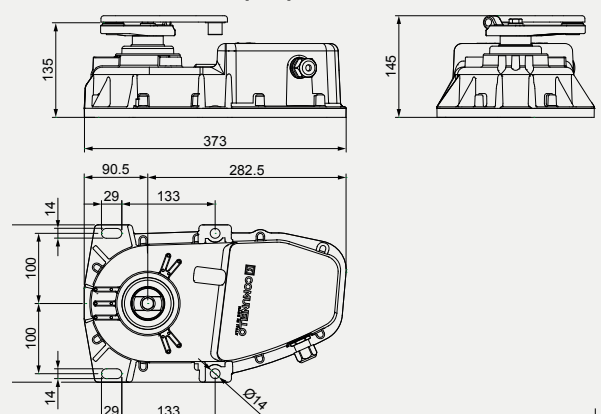
Obstacle detection: Obstacle detection by current absorption or by encoder

Protection: IP67 Degree of protection tested and guaranteed thanks to the particularly effective gasket between the 2 bases. Stainless steel screws.

LIMITS OF USE



DIMENSIONS (mm)



EAGLE BOX

Foundation box for EAGLE underground actuator



Rubber caps to protect the fixing screws

The plugged holes simplify the passage of cables and drain pipes



EAGLE BOX

Black cataphoresis with galvanized cover



EAGLE BOX-INOX

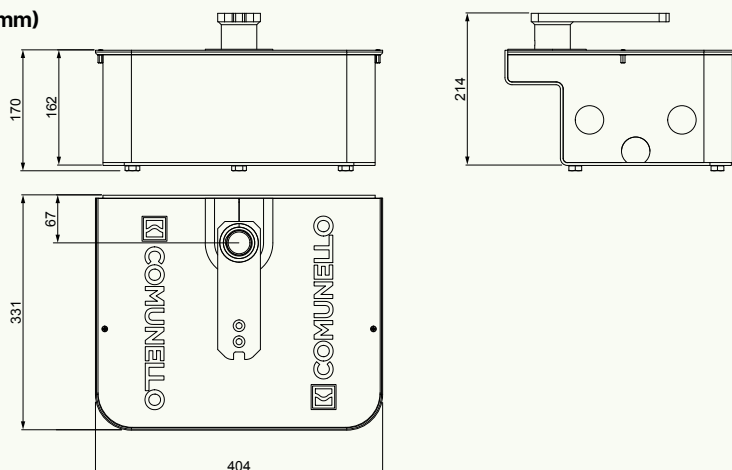
Stainless steel



EAGLE BOX-HG

Hot-dip galvanized foundation box for greater corrosion resistance. A minimum thickness of 60 microns is guaranteed as required by the UNI EN ISO 1461 standard. Cover in AISI 316L stainless steel

DIMENSIONS (mm)



INCLUDED ACCESSORIES



AC-160 AC-170 **NEW 2021**

The new built-in lever device makes manual release simple and easy to activate.

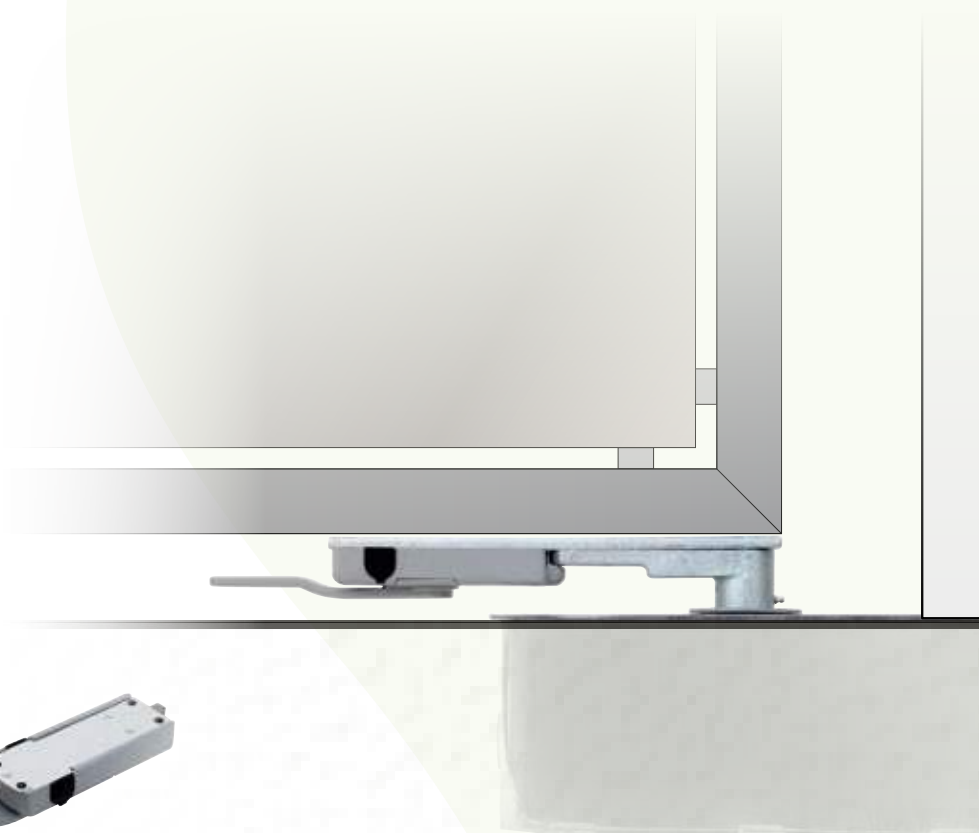


Ergonomics, practicality and small footprint:
always available handle integrated in the
release device.

Strength and quality guaranteed by die-cast aluminum
base and lever.
Available in the version with and without key. Also
compatible with previous versions of EAGLE actuator



The shape and size of the handle ensure easy
manual release.



AC-160
Manual release with cylinder and key



AC-170
Manual release without cylinder

EAGLE **ONE** **BUS**

Automation for swinging gates
24 Vdc - ONE TECHNOLOGY



24 Vdc underground actuator, with built-in encoder, for leaves up to 3.5 m

Eagle 350 - ONE	24 Vdc	G1E0350EL1G00A	12.8 kg	60

Accessories included:



EAGLE **ONE** **BUS** KIT System

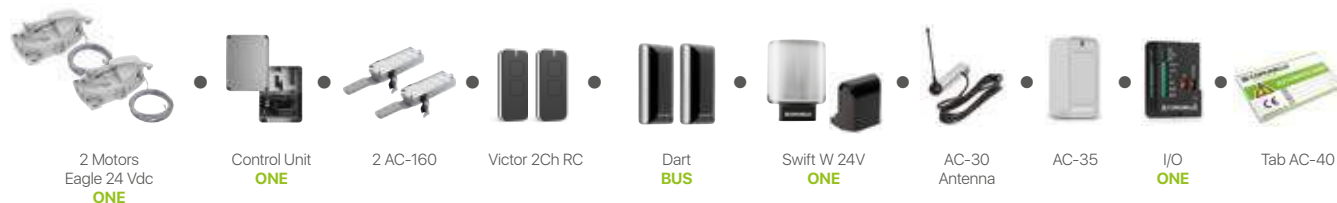
Automation for swinging gates
24 Vdc - ONE TECHNOLOGY



Complete kit with underground actuators for swinging gates, 24 Vdc actuators up to 3.5 m leaf

Eagle 24V ONE		GK1E035ELG910A	30 kg	12

EAGLE KIT system





EAGLE

Automation for swinging gates
24 Vdc and 230 Vac



24 Vdc and 230 Vac underground actuators for swinging gates up to 3,5 m length

Eagle 350	24 Vdc	GEE03500L1G00A		•	13,2 kg	60
Eagle 350	24 Vdc	GEE0350EL1G00A	•	•	12,7 kg	60
Eagle 350	230 Vac	GEE03500H1G00A		•	13,5 kg	60
Eagle 350	230 Vac	GEE0350EH1G00A	•	•	13,4 kg	60

Accessories included:



Versions with 10 m cable included

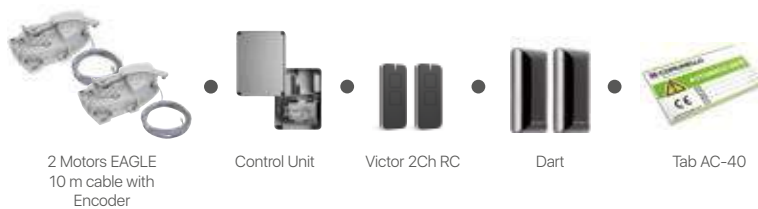


KIT System

ENTRY KIT



LIGHT KIT














FULL KIT



EAGLE KIT System



24V Complete kits with underground actuators for swinging gates, 24 Vdc, up to 3.5 m leaf

		KIT System					
		ENTRY 	GKEE035EL0930A	QUAD 24V-HP	•	28 kg	12
		LIGHT 	GKEE035EL0920A	QUAD 24V-HP	•	28 kg	12
		FULL 	GKEE035EL0900A	QUAD 24V-HP	•	28 kg	12

Versions with 10 m cable included

230V Complete kits with underground actuators for swinging gates, 230 Vac, up to 3.5 m leaf

		KIT System					
		ENTRY 	GKEE035EH0930A	QUAD 230V-HP	•	29,6 kg	12
		LIGHT 	GKEE035EH0920A	QUAD 230V-HP	•	29,6 kg	12
		FULL 	GKEE035EH0900A	QUAD 230V-HP	•	29,6 kg	12

Versions with 10 m cable included

EAGLE BOX



EAGLE BOX

Black cataphoresis foundation box with galvanised lid

GEE000BXN0B00

1

10,8 kg



EAGLE BOX-HG with 316L

Hot dipped galvanised foundation box with 316L stainless steel lid

GEE000BXNOG00

1

10,8 kg



EAGLE BOX-INOX

Stainless steel foundation box

GEE000BXNIS00

1

11,5 kg



EAGLE Accessories



AC-160

Unlocking system with lever and key

GEE002SBN0G00A

1,20 kg

1,20 kg



AC-170

Unlocking system with lever

GEE003SBN0G00A

1,10 kg

1,10 kg



AC-185

180° opening set

GEE360ASN0G01A

1

3,8 kg



AC-190

External limit switches set

GEE001FIN0B00A

1

0,2 kg

CONDOR 220/350

Technical features



Die-cast aluminium motor support with easily accessible onboard control unit

Manual unlocking system with key and aluminium handle

Anti-shearing arm in die-cast alloy



Every single product is duly tested at the end of each assembly line



CONDOR 220

up to 2,2 m

24V

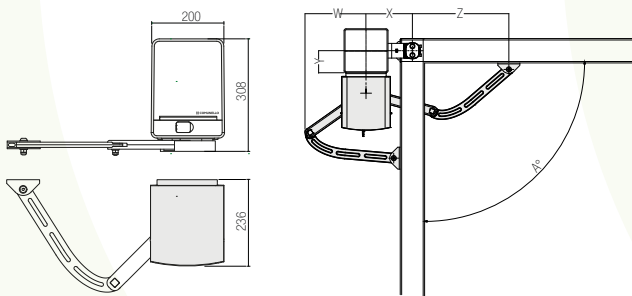
230V

CONDOR 350

up to 3,5 m

24V

DIMENSIONS (mm)

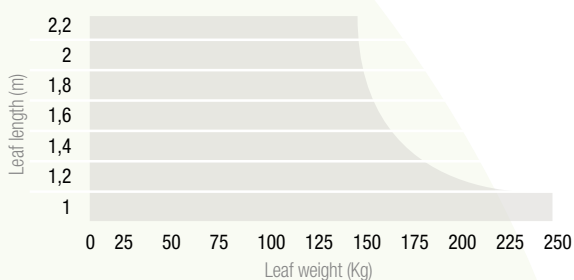


A°	X	Y	Z	W
90°	205	0	415	209
90°	190	50	415	135
90°	185	100	395	159,5
90°	170	150	372	278
110°	250	0	365	287

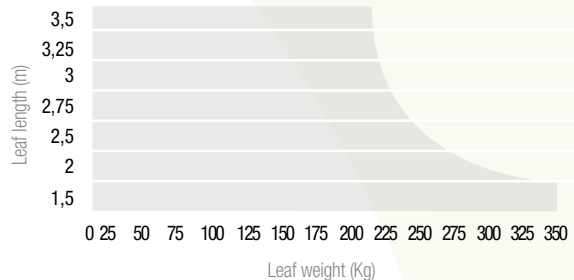
TECHNICAL FEATURES

	CONDOR 220 24 V	CONDOR 220 230 V	CONDOR 350 24V
Power supply	230 ~ 50 Hz		
Operator power supply	24V ONE 24V	230V ~	24V ONE 24V
Power consumption	110 W	280 W	150 W
Current input	5 A	1,2 A	6,5 A
Torque	150 Nm	250 Nm	200 Nm
Duty cycle	Intensive use	30%	Intensive use
Protection rating	IP 44		
Insulation class	2 earth	1 earth	2
Working temperature	-20°C / +50°C		
Speed	0,10 rad/s		
Weight	10 Kg	10 Kg	10 Kg

OPERATING LIMITS CONDOR 220



OPERATING LIMITS CONDOR 350



CONDOR 500

Technical features

Manual unlocking system with key and aluminium handle. Possibility of remote cable operation.

Anti-shearing arm in galvanized iron available arms with mechanical block



Actuator support bracket in galvanized steel included

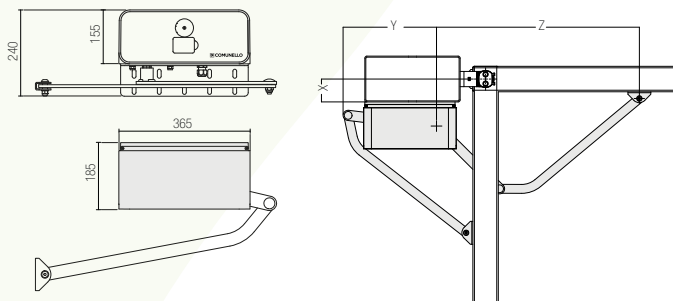


Every single product is duly tested at the end of each assembly line



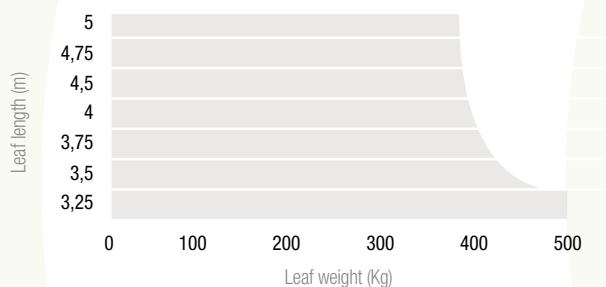
Integrated electromechanical limit switches

DIMENSIONS (mm)



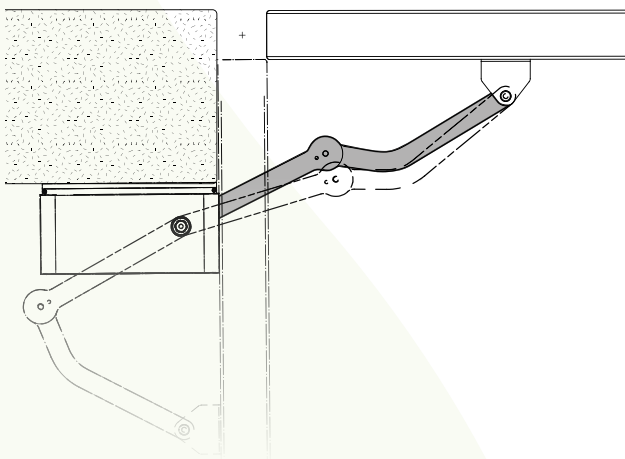
X	Z	Y
50	554	535
100	555	635
150	555	535
200	555	690

OPERATING LIMITS CONDOR 500



AC-102-103-104

Ambidextrous arms in painted steel with locking system



Technical features

	CONDOR 500 24V	CONDOR 500 230V
Voltage	24 VDC	230 VAC 50 Hz
Power consumption	150 W	280 W
Max. absorption	6,5 A	1,2 A
Max. thrust	330 Nm	440 Nm
Duty cycle	Intensive use	50%
Protection degree (IP)	IP44	IP44
Insulation class	2	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C
No-load speed	0,15 rad/sec	0,1 rad/sec
Weight	12 kg	12 kg



CONDOR 500

24V 230V

up to 5 m



L = 385mm + 330mm



L = 503mm + 430mm



L = 238mm + 620mm

CONDOR 500 S

Technical features



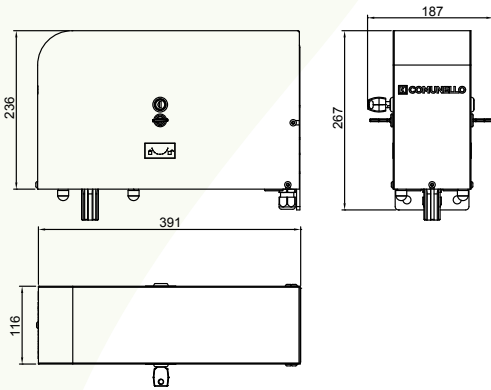
Easily accessible onboard control unit with integrated receiver

Fixing bracket in painted steel



Every single product is duly tested at the end of each assembly line

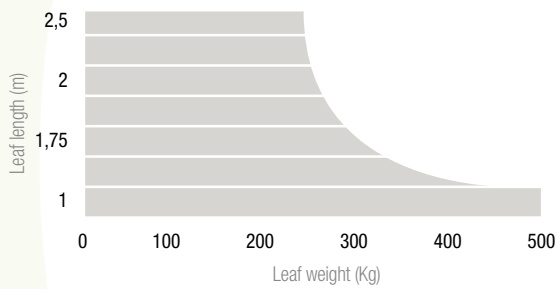
DIMENSIONS (mm)



Technical features

	CONDOR 500 S 24V	CONDOR 500 S 230V
Voltage	24 VDC	230 VAC 50 Hz
Power consumption	150 W	280 W
Max. absorption	6,5 A	1,2 A
Max. thrust	330 Nm	440 Nm
Duty cycle	Intensive use	40%
Protection degree (IP)	IP44	IP44
Insulation class	1(earthing)	1(earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C
No-load speed	0,15 rad/sec	0,1 rad/sec
Weight	12 kg	15,7 kg

OPERATING LIMITS CONDOR 500 S

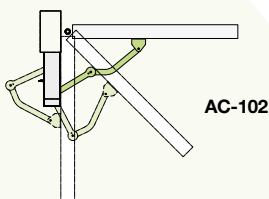


CONDOR 500 S
up to 2,5 m

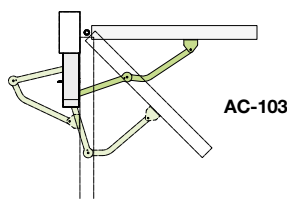
24V **230V**

AC-102-103-104

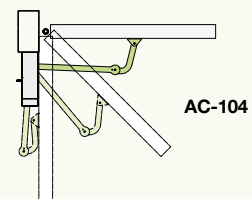
Ambidextrous arms in painted steel with locking system



L = 385mm + 330mm



L = 503mm + 430mm



L = 238mm + 620mm

CONDOR ONE BUS

Automation for swinging gates
24 Vdc - ONE TECHNOLOGY



24 Vdc articulated arm actuators, with built-in encoder and mechanical stops, for leaves up to 5 m length*

				Max. leaf length*		
	CONDOR 220 - ONE	24 Vdc	G1C220MEL0B00	2,2 m	10,0 kg	40
	CONDOR 220-S/C - ONE	24 Vdc	G1C220M1L0B00	2,2 m	10,0 kg	40
	CONDOR 350 - ONE	24 Vdc	G1C350MEL0B00	3,5 m	12,0 kg	40
	CONDOR 350-S/C - ONE	24 Vdc	G1C350M1L0B00	3,5 m	12,0 kg	40
	CONDOR 500 - ONE	24 Vdc	G1C500M1L0B00	5,0 m	12 kg	30

S/C = without control unit

Accessories included:



CONDOR 220/350



CONDOR 500



CONDOR **ONE** BUS KIT System



Complete kits with articulated arm actuators for swinging gates, 24 Vdc, with BUS accessories up to 5 m length

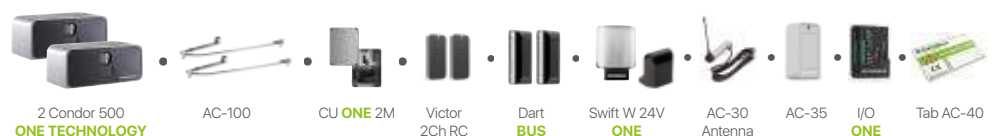
		KIT System			
	Condor 220 ONE TECHNOLOGY		GK1C220MLB000	19,6 kg	16
	Condor 350 ONE TECHNOLOGY		GK1C350MLB000	19,6 kg	16
	Condor 500 ONE TECHNOLOGY		GK1C500MLB000	19,6 kg	16

Condor 220/350 ONE TECHNOLOGY KIT



KIT System

Condor 500 ONE TECHNOLOGY KIT



CONDOR

Automation for swinging gates

24 Vdc and 230 Vac - electronic limit switch plus encoder



24 Vdc and 230 Vac articulated arm actuators for swinging gates up to 5 m length*

				Max. leaf length*					
	CONDOR 220	24 Vdc	GCR220EEL0B00	2,2 m	•	•	•	10 kg	45
	CONDOR 220-S/C	24 Vdc	GCR220E1L0B00	2,2 m	•	•		10 kg	45
	CONDOR 220	230 Vac	GCR220EEH0B00	2,2 m	•	•	•	10 kg	45
	CONDOR 220-S/C	230 Vac	GCR220E1H0B00	2,2 m	•	•		10 kg	45
	CONDOR 350	24 Vdc	GCR350EEL0B00	3,5 m	•	•	•	12 kg	45
	CONDOR 350-S/C	24 Vdc	GCR350E1L0B00	3,5 m	•	•		12 kg	45
	CONDOR 500-S/C	24 Vdc	GCR500E1L0B00	5,0 m	•	•		12 kg	50
	CONDOR 500-S/C	230 Vac	GCR500E1H0B00	5,0 m	•	•		11,3 kg	50
	CONDOR 500S	24 Vdc	GCR50SEEL0G00	2,5 m	•	•	•	10 kg	36
	CONDOR 500S-S/C	24 Vdc	GCR50SE1L0G00	2,5 m	•	•		10 kg	36
	CONDOR 500S	230 Vac	GCR50SEEH0G00	2,5 m	•	•	•	10 kg	36
	CONDOR 500S-S/C	230 Vac	GCR50SE1H0G00	2,5 m	•	•		10 kg	36

S/C = without control unit

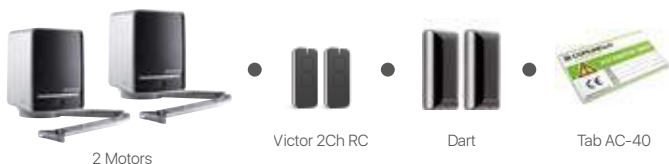
Accessories included:



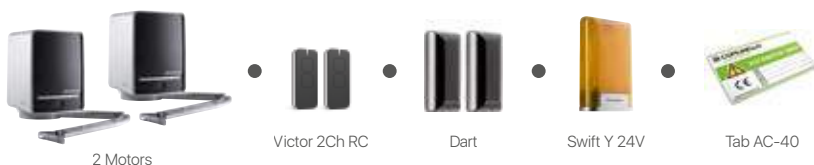
ENTRY KIT



LIGHT KIT



FULL KIT



KIT System

CONDOR KIT System



24V Complete kits with articulated arm actuators for swinging gates, 24 Vdc, up to 5 m length

	KIT System	0101			0100 10101 0010			
 Condor 220	ENTRY	GKCR220LLB930	•	•	CU 24V HP	19,2 kg	16	
	LIGHT	GKCR220LLB920	•	•	CU 24V HP	19,4 kg	16	
	FULL	GKCR220LLB903	•	•	CU 24V HP	19,6 kg	16	
 Condor 350	ENTRY	GKCR350LLB930	•	•	CU 24V HP	19,2 kg	16	
	LIGHT	GKCR350LLB920	•	•	CU 24V HP	19,4 kg	16	
	FULL	GKCR350ELB903	•	•	CU 24V HP	19,6 kg	16	
 Condor 500*	ENTRY	GKCR500LLB930	•	•	QUAD 24V HP	26,0 kg	8	
	LIGHT	GKCR500LLB920	•	•	QUAD 24V HP	26,2 kg	8	
	FULL	GKCR500LLB903	•	•	QUAD 24V HP	26,4 kg	8	
 Condor 500S	ENTRY	GKCR050SEL930	•	•	CU 24V HP	18,1 kg	10	
	LIGHT	GKCR050SEL920	•	•	CU 24V HP	18,3 kg	10	
	FULL	GKCR050SEL900	•	•	CU 24V HP	18,5kg	10	

= Mechanical endstops - = Electrical endstops - = Encoder

*Condor 500 Accessories included 2 ambidextrous articulated arm AC-100 :



CONDOR KIT System



230V Complete kits with articulated arm actuators for swinging gates, 230 Vac, up to 5 m length

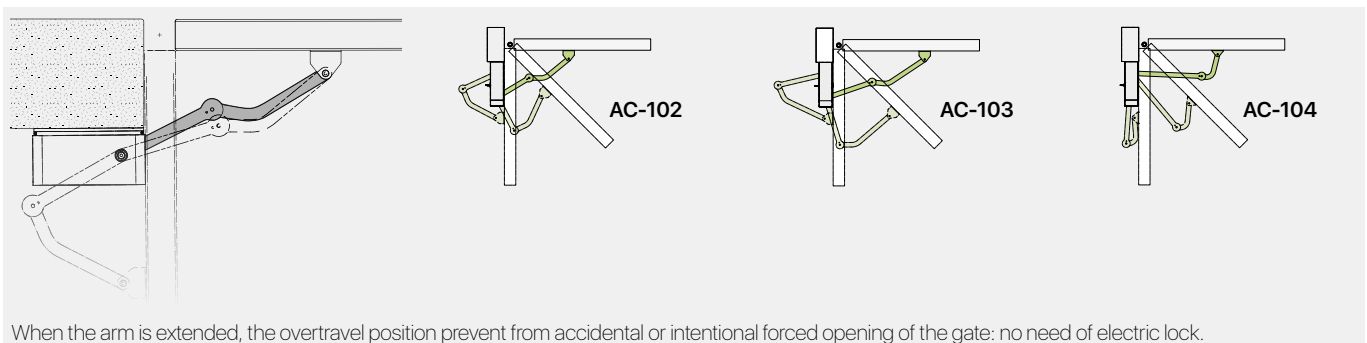
0101	KIT System		0101						
 Condor 220	ENTRY		GKCR220LHB930	•	•	CU 230V HP	19,2 kg	16	
	LIGHT		GKCR220LHB900	•	•	CU 230V HP	19,4 kg	16	
	FULL		GKCR220LHB903	•	•	CU 230V HP	19,6 kg	16	
 Condor 500	ENTRY		GKCR500LHB930	•	•	QUAD 230V HP	25,8 kg	8	
	LIGHT		GKCR500LHB920	•	•	QUAD 230V HP	26 kg	8	
	FULL		GKCR500EHB903	•	•	QUAD 230V HP	26,2 kg	8	
 Condor 500S	ENTRY		GKCR050SEH930	•	•	CU 230V HP	23 kg	10	
	LIGHT		GKCR050SEH920	•	•	CU 230V HP	23 kg	10	
	FULL		GKCR050SEH900	•	•	CU 230V HP	23 kg	10	

= Mechanical endstops - = Electrical endstops - = Encoder

CONDOR Accessories



		AC-101	Articulated arm for Condor 220/350, L=408 mm + 350mm	GCR004BAN0G00	1	2,9 kg
		AC-108	Slide arm for Condor 220/350, L=652,5 mm	GCR008BAN0B00	1	5,1 kg
		AC-110	Key operated emergency release	GCR001SCN0G00	1	1,2 kg
		AC-100	Ambidextrous articulated arm for Condor 500, L=408 mm + 350mm	GCR001BAN0G00	1	2,9 kg
		AC-102	Locking arm for Condor 500/500S, L=385 mm + 330mm	GCR001BAN0B00	1	3,2 kg
		AC-103	Locking arm for Condor 500/500S - L=503 mm + 430mm	GCR002BAN0B00	1	3,7 kg
		AC-104	Locking arm for Condor 500/500S - L=238 mm + 620mm	GCR003BAN0B00	1	4,1 kg
		AC-110	Key operated emergency release	GCR001SCN0G00	1	1,2 kg



ABACUS

Technical features

Emergency manual release system with aluminium handle



One-piece die cast aluminium housing

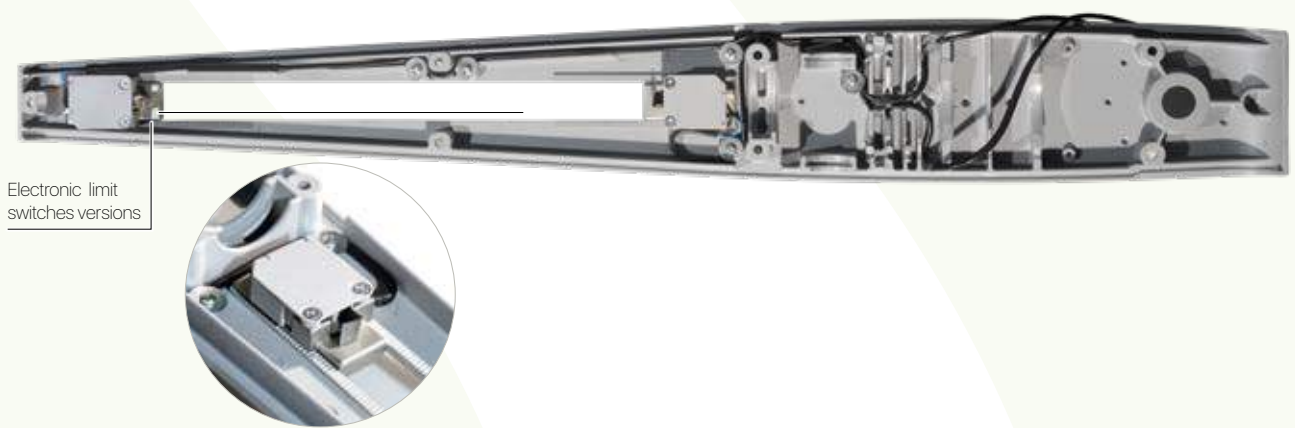
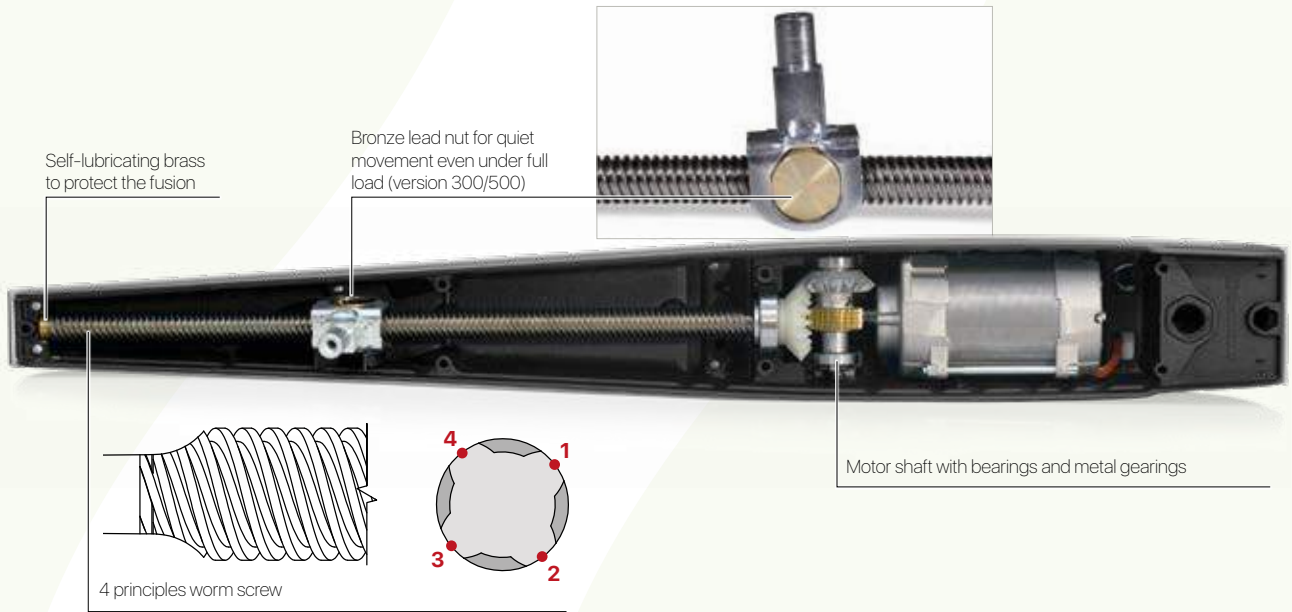
Actuators profile made of aluminium

Actuators profile made of aluminium



Every single product is duly tested at the end of each assembly line





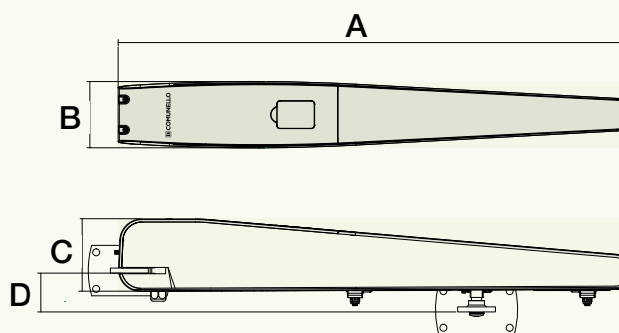
ABACUS

Technical features



DIMENSIONS (mm)

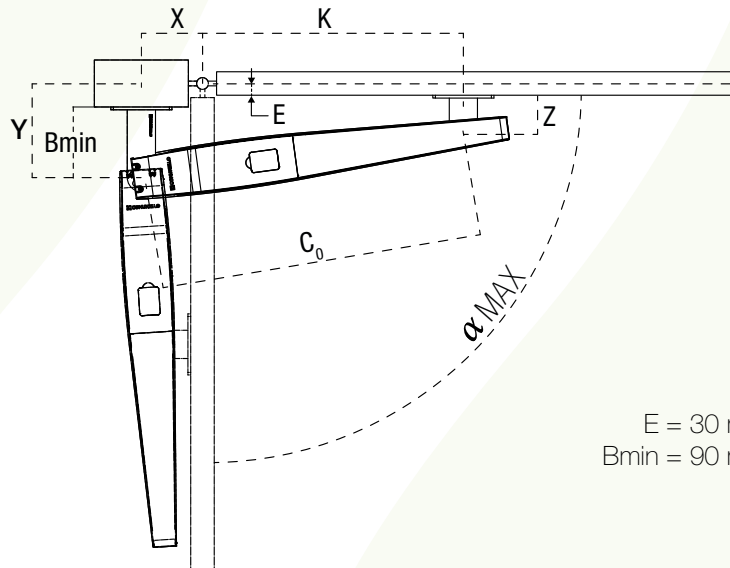
	ABACUS 220	ABACUS 300	ABACUS 500
A	765	805	955
B	95	105	105
C	95	115	115
D	61,3	61,5	61,5



Technical features

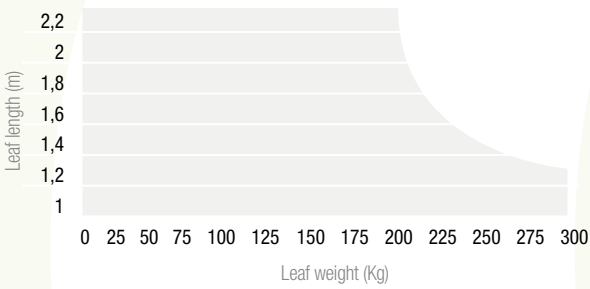
Available with mechanical or electronic limit switches and with Encoder versions

	ABACUS 220 24V	ABACUS 220 230V	ABACUS 300 24V	ABACUS 300 230V	ABACUS 500 24V	ABACUS 500 230V
Voltage	24 VDC	230 VAC	24 VDC	230 VAC	24 VDC	230 VAC
Power consumption	70 W	180 W	110 W	280 W	110 W	280 W
Max. absorption	3 A	0,8 A	5 A	1,2 A	5 A	1,2 A
Max. thrust	1500 N	1400 N	1800 N	2000 N	1800 N	2000 N
Standard stroke	296 mm	296 mm	296 mm	296 mm	446 mm	446 mm
Duty cycle	Intensive use	50%	Intensive use	50%	Intensive use	50%
Protection degree (IP)	IP44	IP44	IP44	IP44	IP44	IP44
Insulation class	2	1 (earthing)	2	1 (earthing)	2	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C
No-load speed	18 mm/s	16 mm/s	21 mm/s	16 mm/s	21 mm/s	16 mm/s
Weight	8 kg	8,6 kg	10,1 kg	10,7 kg	10,7 kg	11,2 kg



E = 30 mm
Bmin = 90 mm

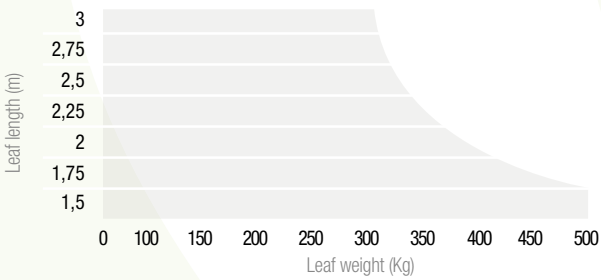
OPERATING LIMITS ABACUS 220



		AS220															
		80		100		120		140		160		180		200			
Y	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z			
		α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀		
100	568	55	548	60	528	65	508	75	488	85	468	95	448	110			
	98°	648,5	107°	648,5	115°	648,5	118°	648,5	103°	648,5	95°	648,5	90°	648,5			
120	567	60	549	65	529	75	509	85	489	90	469	105					
	97°	649	105°	649	112°	649	106°	649	96°	649	90°	649					
140	566	65	546	70	526	80	506	90	488	100							
	96°	649	104°	649	110°	649	95°	649	89°	649							
160	564	70	546	75	527	85	508	95									
	95°	649	102°	649	95°	649	88°	649									
180	564	75	544	85	526	95											
	95°	649	96°	649	87°	649											

AC 80
AC 85

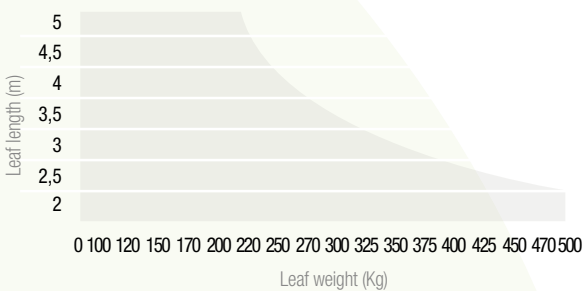
OPERATING LIMITS ABACUS 300



		AS300															
		80		100		120		140		160		180		200			
Y	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z			
		α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀		
100	605	65	585	65	565	70	545	75	525	80	505	95	488	102,5			
	96°	685	105°	685	114°	685	115°	685	101°	685	94°	685	90°	688			
120	608	75	588	70	568	70	548	75	528	85	508	102,5					
	95°	688	104°	688	110°	688	105°	688	95°	688	90°	688					
140	607	65	586	65	567	75	547	80	529	90							
	95°	688	105°	688	110°	688	96°	688	90°	688							
160	605	70	584	75	566	80											
	94°	688	100°	688	95°	688											
180	600	75	580	80													
	89°	685	90°	680													
200	600	80															
	90°	685															

NOT RECOMMENDED
AC 80

OPERATING LIMITS ABACUS 500



		AS500																							
		80		100		120		140		160		180		200		220		240		260					
Y	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z	K	Z					
		α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀	α _{max}	C ₀				
100	758	60	738	60	718	60	698	65	678	75	658	85	638	95	618	102,5									
	95°	838	104°	838	113°	838	120°	838	127°	838	130°	838	135°	838	133°	838	118°	837	118°	837					
120	757	60	737	60	717	65	698	70	678	80	658	90	638	100											
	94°	837	102°	837	110°	837	116°	838	123°	838	128°	838	132°	838			112°	837	105°	837					
140	756	65	736	60	716	75	696	80	676	85	656	90	636	102,5											
	94°	836	102°	836	108°	836	115°	836	120°	836	125°	836	129°	836			107°	836	101°	836					
160	756	65	736	70	716	80	696	90	676	95	656	102,5													
	93°	836	100°	836	106°	836	112°	836	118°	836	112°	836					101°	836	96°	836					
180	753	70	733	75	713	80	693	90	673	95	653	102,5	633	115	613	125									
	93°	838	99°	838	104°	838	110°	838	115°	838	119°	838	109°	838	100°	838	95°	838							
200	756	75	736	80	716	90	696	102,5	676	110	656	120	637	130	617	140									
	93°	838	98°	838	104°	838	108°	838	113°	838	117°	838	103°	838	97°	838									
220	748	80	728	90	708	100	688	110	673	115	653	120	633	130	613	140									
	93°	837	98°	837	102°	837	107°	838	111°	838	115°	838	95°	838	90°	835									
240	748	85	728	95	709	100	692	110	672	120	654	130	635	140	615	145									
	93°	838	98°	838	102°	837	106°	838	108°	838	97°	838	90°	838	89°	838									






AC 85 AC 80 AC 80 + AC 85 NOT RECOMMENDED

ABACUS ONE BUS



Automation for swings gates
24 Vdc - ONE TECHNOLOGY

24 Vdc worm screw actuators, with built-in encoder and mechanical stops, for leaves up to 5 m*

			Max. leaf weight*		
Abacus 220 - ONE TECHNOLOGY	24 Vdc	G1A220MELOB00	2,2 m	8 kg	56
Abacus 300 - ONE TECHNOLOGY	24 Vdc	G1A300MELOB00	3,0 m	10,1 kg	56
Abacus 500 - ONE TECHNOLOGY	24 Vdc	G1A500MELOB00	5,0 m	10,7 kg	42

Accessories included:



ABACUS **ONE** **BUS** KIT System



Complete 24 Vdc kits with worm screw actuators for swinging gate up to 5 m leaf with BUS accessories

	KIT System				
Abacus 220 ONE TECHNOLOGY		GK1A220MLB000	QUAD ONE 2M	22 kg	16
Abacus 300 ONE TECHNOLOGY		GK1A300MLB000	QUAD ONE 2M	26,2 kg	16
Abacus 500 ONE TECHNOLOGY		GK1A500MLB000	QUAD ONE 2M	26,2 kg	9

ABACUS 220

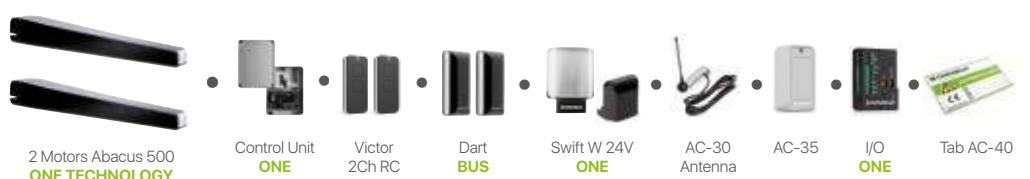


ABACUS 300



KIT System

ABACUS 500



ABACUS



Automation for swinging gates
24 Vdc and 230 Vac

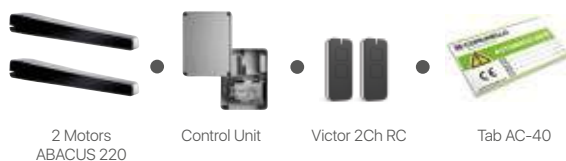
24 Vdc and 230 Vac worm screw actuators for swinging gates up to 5 m length*

			Max. leaf length*					
ABACUS 220	24 Vdc	GAS220MELOB00	2,2 m	•		•	8 kg	56
ABACUS 220	24 Vdc	GAS220EEL0B00	2,2 m		•	•	8 kg	56
ABACUS 220	230 Vac	GAS220MEH0B00	2,2 m	•		•	8,6 kg	56
ABACUS 300	24 Vdc	GAS300MELOB00	3,0 m	•		•	10,1 kg	56
ABACUS 300	24 Vdc	GAS300EEL0B00	3,0 m		•	•	10,1 kg	56
ABACUS 300	230 Vac	GAS300MEH0B00	3,0 m	•		•	10,7 kg	56
ABACUS 500	24 Vdc	GAS500MELOB00	5,0 m	•		•	10,7 kg	42
ABACUS 500	24 Vdc	GAS500EEL0B00	5,0 m		•	•	10,7 kg	42
ABACUS 500	230 Vac	GAS500MEH0B00	5,0 m	•		•	11,2 kg	42

Accessories included:



ENTRY KIT

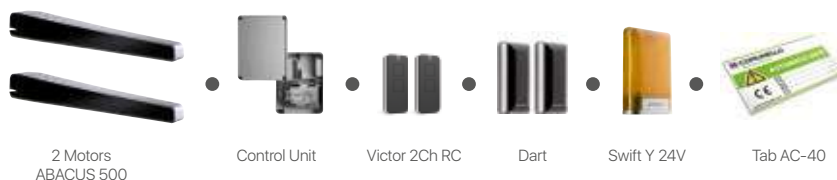


KIT System

LIGHT KIT



FULL KIT



ABACUS KIT System



24V Complete kits with worm screw actuators for swinging gates, 24 Vdc, encoder, up to 5 m length

	KIT System	0101	0100 10101 0010		Kg	
	ENTRY	GKAS220MLB930	• •	QUAD 24 HP	19,7 kg	16
Abacus 220	LIGHT	GKAS220MLB920	• •	QUAD 24 HP	19,8 kg	16
	FULL	GKAS220MLB908	• •	QUAD 24 HP	22 kg	16
	ENTRY	GKAS300MLB930	• •	QUAD 24 HP	25,9 kg	16
Abacus 300	LIGHT	GKAS300MLB920	• •	QUAD 24 HP	26 kg	16
	FULL	GKAS300MLB908	• •	QUAD 24 HP	26,2 kg	16
	ENTRY	GKAS500MLB930	• •	QUAD 24 HP	25,9 kg	9
Abacus 500	LIGHT	GKAS500MLB920	• •	QUAD 24 HP	26 kg	9
	FULL	GKAS500MLB900	• •	QUAD 24 HP	26,2 kg	9

= Mechanical endstops - = Encoder

= Available version with electronic endstops

ABACUS KIT System



230V Complete kits with worm screw actuators for swinging gates, 230 Vac, encoder, up to 5 m length

	KIT System	0101	⚙️	0100 10101 0010	☀️	⚖️	📦
	ENTRY	GKAS220MEH930	•	•	QUAD 230 HP	19,9 kg	16
Abacus 220	LIGHT	GKAS220MEH920	•	•	QUAD 230 HP	22 kg	16
	FULL	GKAS220MEH900	•	•	QUAD 230 HP	22,2 kg	16
	ENTRY	GKAS300MEH930	•	•	QUAD 230 HP	26,1 kg	16
Abacus 300	LIGHT	GKAS300MEH920	•	•	QUAD 230 HP	26,2 kg	16
	FULL	GKAS300MEH900	•	•	QUAD 230 HP	26,4 kg	16
	ENTRY	GKAS500MEH930	•	•	QUAD 230 HP	28 kg	9
Abacus 500	LIGHT	GKAS500MEH920	•	•	QUAD 230 HP	28 kg	9
	FULL	GKAS500MEH900	•	•	QUAD 230 HP	28 kg	9

⚙️ = Mechanical endstops - $\frac{0100}{10101}{0010}$ = Encoder

⚙️ = Available version with electronic endstops

ABACUS Accessories



AC-60

Galvanized adjustable rear bracket to be screwed

GAS001ASN0G00

6

1 kg



AC-70

Galvanized rear bracket to be screwed

GAS002ASN0G00

2

0,95 kg



AC-80

Galvanized rear long bracket to weld

GAS003ASN0G00

2

1,75 kg



AC-85

Galvanised adjustable front bracket

GAS004ASN0G00

1

0,9 kg

RAM

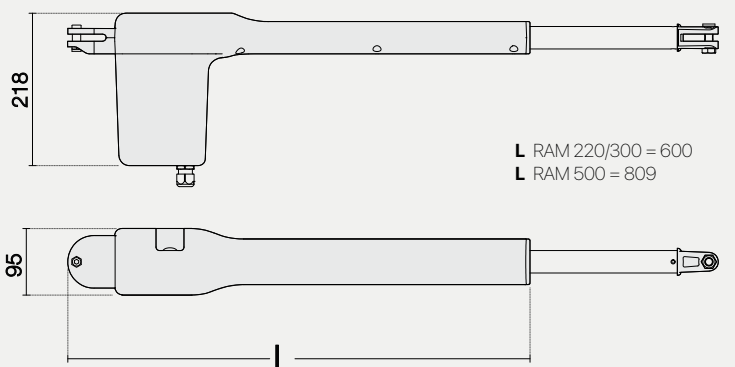
Technical features



Every single product is duly tested at the end of each assembly line

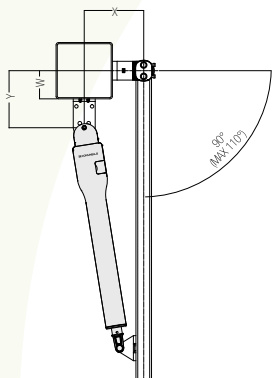
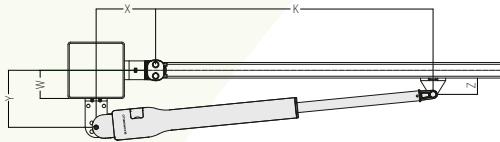
DIMENSIONS (mm)

Ambidextrous



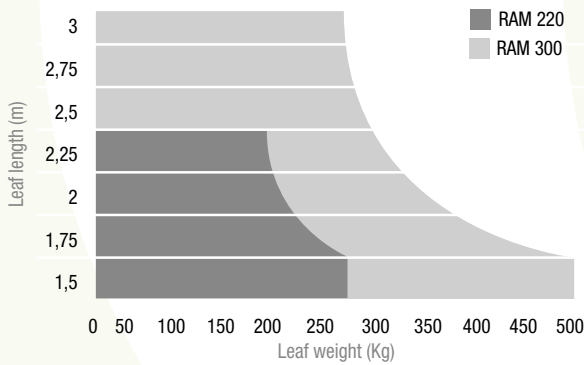
Stainless steel spindle and die-cast aluminium and zinc alloy front bracket for maximum reliability and durability.

Disc-spring closing limit switches guarantee a smooth return movement without overloading the motor.



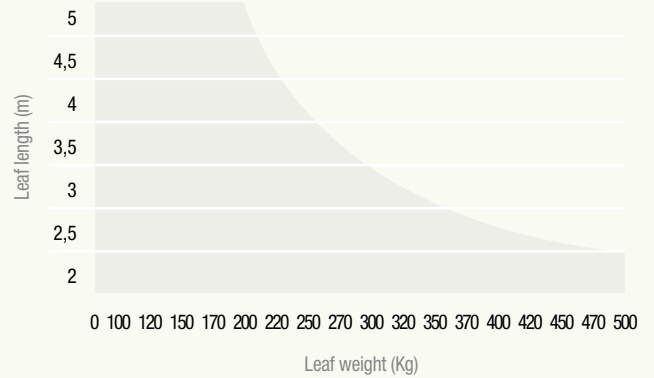
Perfectly-matching metallic transmission gears for maximum efficiency, precision, quiet movement and reliability.

OPERATING LIMITS RAM 220/300



MAX OPENING	X	Y	Z	K 220/300	K 500	WMAX
110°	150	152	77	925	1075	50
90°	170	182	77	885	1035	50

OPERATING LIMITS RAM 500



MAX OPENING	X	Y	Z	K 220/300	K 500	WMAX
110°	170	110	40	820	970	50
90°	170	110	40	880	1003	50

Technical features

	RAM 220 24V	RAM 300 24V	RAM 300 230V	RAM 500 24V	RAM 500 230V
Voltage	24 VDC	24 VDC	230 VAC	24 VDC	230 VAC
Power consumption	60 W	100 W	280 W	100 W	280 W
Max. absorption	3 A	5 A	1,2 A	5 A	1,2 A
Max. thrust	1500 N	2000 N	1800 N	1800 N	2000 N
Standard stroke	374 mm	374 mm	374 mm	524 mm	524 mm
Duty cycle	Intensive use	Intensive use	40%	Intensive use	30%
Protection degree (IP)	IP44	IP44	IP44	IP44	IP44
Insulation class	2	2	1 (earthing)	2	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C
No-load speed	18 mm/s	21 mm/s	16 mm/s	22 mm/s	15 mm/s
Weight	7 kg	7,8 kg	8,3 kg	8,8 kg	9,3 kg

RAM

Automation for swinging gates
24 Vdc and 230 Vac



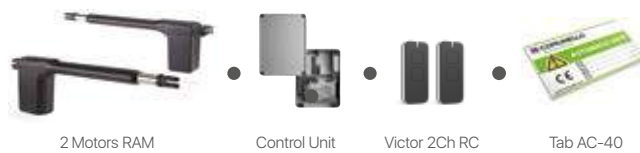
24 Vdc and 230 Vac telescopic rod actuators for swinging gates up to 5 m length*

			Max. leaf length*		
RAM 220	24 Vdc	GRM22000LOB00	2,2 m	14 kg	32
RAM 300	24 Vdc	GRM30000LOB00	3,0 m	15,6 kg	32
RAM 300	230 Vac	GRM30000HOB00	3,0 m	16,6 kg	32
RAM 500	24 Vdc	GRM50000LOB00	5,0 m	17,6 kg	32
RAM 500	230 Vac	GRM50000HOB00	5,0 m	18,6 kg	32

Accessories included:



ENTRY KIT



2 Motors RAM

Control Unit

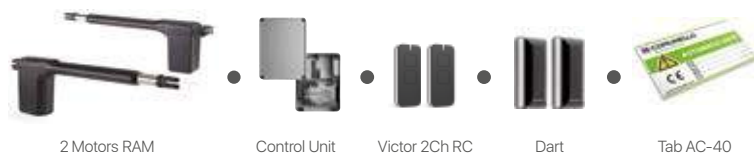
Victor 2Ch RC

Tab AC-40



KIT System

LIGHT KIT



2 Motors RAM

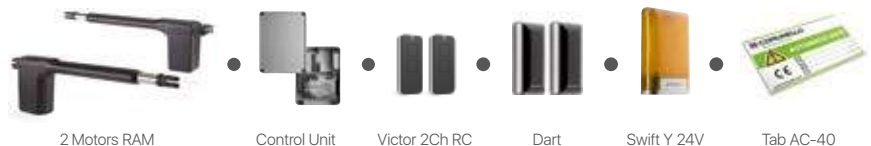
Control Unit

Victor 2Ch RC

Dart

Tab AC-40

FULL KIT



2 Motors RAM

Control Unit

Victor 2Ch RC

Dart

Swift Y 24V

Tab AC-40

RAM KIT System



24V Complete kits with telescopic rod actuators for swinging gates, 24 Vdc, up to 5 m length

		KIT System				
		ENTRY	GKRM220HLB930	QUAD 24V HP	17,9 kg	16
 RAM 220		LIGHT	GKRM220HLB920	QUAD 24V HP	18,1 kg	16
		FULL	GKRM220HLB900	QUAD 24V HP	18,3 kg	16
		ENTRY	GKRM300HLB930	QUAD 24V HP	19,5 kg	16
 RAM 300		LIGHT	GKRM300HLB920	QUAD 24V HP	19,7 kg	16
		FULL	GKRM300HLB900	QUAD 24V HP	19,9 kg	16
		ENTRY	GKRM500HLB930	QUAD 24V HP	21,5 kg	16
 RAM 500		LIGHT	GKRM500HLB920	QUAD 24V HP	21,7 kg	16
		FULL	GKRM500HLB900	QUAD 24V HP	21,9 kg	16

RAM KIT System



230V Complete kits with telescopic rod actuators for swinging gates, 230 Vac, up to 5 m length

		KIT System	0101			
 RAM 300	ENTRY		GKRM300HHB930	QUAD 230V HP	19,5 kg	16
	LIGHT		GKRM300HHB920	QUAD 230V HP	19,7 kg	16
	FULL		GKRM300HHB900	QUAD 230V HP	19,9 kg	16
 RAM 500	ENTRY		GKRM500HHB930	QUAD 230V HP	21,0 kg	16
	LIGHT		GKRM500HHB920	QUAD 230V HP	21,2 kg	16
	FULL		GKRM500HHB900	QUAD 230V HP	21,4 kg	16

 **COMUNELLO**

RAMPART

Technical features



Can be used with chain or belt guides, split and all-in-one.



Built-in led courtesy light

The motor with 6-pulses per revolution encoder guarantees a precise and reliable stroke reading and obstacle detection.



Every single product is duly tested at the end of each assembly line

Technical features

	RAMPART 600 24V	RAMPART 1000 24V
Power	230V (±10%) / 50Hz	230V (±10%) / 50Hz
Maximum pulling effort (force needed to start door move)	600 N	1000 N
Nominal pulling effort (force needed to maintain door move)	200 N	300 N
Maximum door leaf weight	110 kg	210 kg
Maximum opening speed	0,14 meters/seconds	0,14 meters/seconds
Maximum continuous motortime	60 seconds (intermittent operation mode)	60 seconds (intermittent operation mode)
Current consumption	110 W	150 W
Remote controls	433,92MHz / dynamic code 200 Remote controls max	433,92MHz / dynamic code 200 Remote controls max
Insulation class	2	2
Protection rating (IP)	IP20	IP20
Temperature range	-20°C / +50°C	-20°C / +50°C
Actuator weight	4,5kg	5,0kg



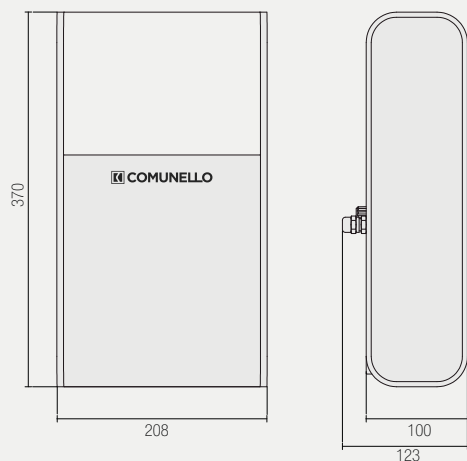
Onboard control unit with integrated receiver

Periodical automatic detection of the current absorption during the opening and closing cycle.

Automatic detection of sensitive edges connected (N.O., N.C., 8k2).

Speed and automatic closure parameters adjustable by trimmer.

DIMENSIONS (mm)



COLOURS AVAILABLE: WHITE, BLACK



RAMPART

Electromechanical actuator
for sectional doors 24 Vdc



24 Vdc motor with encoder and built-in electronics for sectional doors, power 600 N / 1000 N

Rampart 600	24 Vdc	GRT0600EL0W00	•	•	9 m ²	White	4,9 kg	60
Rampart 600	24 Vdc	GRT0600ELOB00	•	•	9 m ²	Black	4,9 kg	60
Rampart 1000	24 Vdc	GRT1000EL0W00	•	•	16 m ²	White	6,0 kg	60
Rampart 1000	24 Vdc	GRT1000ELOB00	•	•	16 m ²	Black	6,0 kg	60

CHAIN



WHITE KIT

BELT



KIT System

CHAIN



BLACK KIT








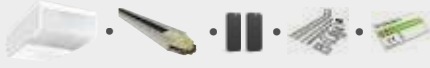


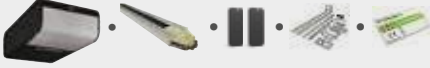

BELT



RAMPART KIT System



Complete kits with actuator for sectional doors, 24 Vdc, up to 1000 N

		KIT System	0101	Kg	
	CHAIN		GKRT060CLW000	13,5 kg	48
Rampart 600	BELT		GKRT060BLW000	14 kg	48
	CHAIN		GKRT060CLB000	13,5 kg	48
Rampart 600	BELT		GKRT060BLB000	14 kg	48
	CHAIN		GKRT100CLW000	14,5 kg	48
Rampart 1000	BELT		GKRT100BLW000	15 kg	48
	CHAIN		GKRT100CLB000	14,5 kg	48
Rampart 1000	BELT		GKRT100BLB000	15 kg	48



RAMPART Accessories



	AC-470	Support brackets kit	GRT001AAN0G00	1	0,3 kg
	AC-400	3,25 m one-piece chain guide	GRT3250GC0G00	1	8,2 kg
	AC-410	3,25 m splitted belt guide, 2 x 1,65 m	GRT3250GB0G00	1	8,6 Kg
	AC-420	3,25 m one-piece belt guide, 1 x 3,25 m	GRT3250GD0G00	1	7,4 kg
	AC-430	4 m splitted belt guide, 2 x 2,00 m	GRT4000GB0G00	1	9,6 kg
	AC-440	Cable release for traction slide	GRTCORDON0G00A	1	0,4 kg
	AC-450	Galvanised swing arm	GRT001ASN0G00	1	3,7 kg



SALIENT

Technical features



Built-in led courtesy light

Gearbox with perfectly matched metal gears to ensure efficiency, precision, silence and reliability

Manual release with integrated aluminum lever



Output shaft available in round section versions with knurling and square section



Onboard control unit with integrated receiver

Encoder version available (24Vdc)

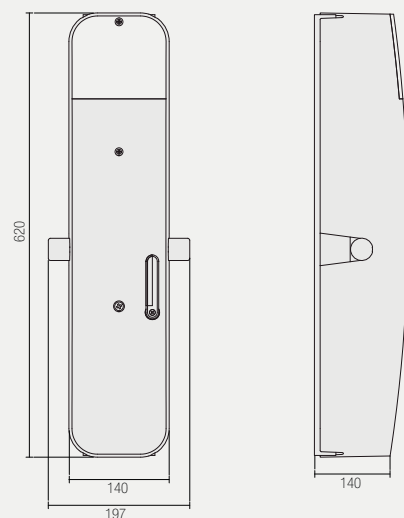


Every single product is duly tested at the end of each assembly line

Technical features

	SALIENT 24V	SALIENT 230V FAST	SALIENT 230V SLOW
Power supply	230 VAC	230 VAC	230 VAC
Motor power supply	24 VDC	230 VAC	230 VAC
Current input	150 W	280 W	280 W
Power consumption	6,5 A	1,2 A	1,2 A
Torque	330 Nm	440 Nm	440 Nm
Duty cycle	Intensive use	40%	40%
Protection rating (IP)	IP24D	IP24D	IP24D
Insulation class	2	1 (earthing)	1 (earthing)
Working temperature	-20°C / +50°C	-20°C / +50°C	-20°C / +50°C
Speed	1,7 rpm	1,7 rpm	1,2 rpm
Weight	11,2 Kg	11,4 Kg	11,4 Kg

DIMENSIONS (mm)





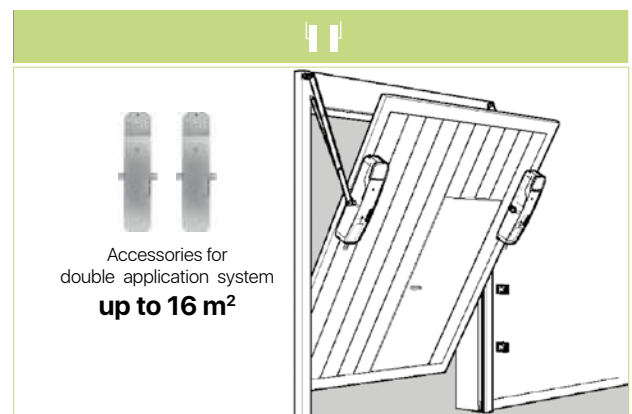
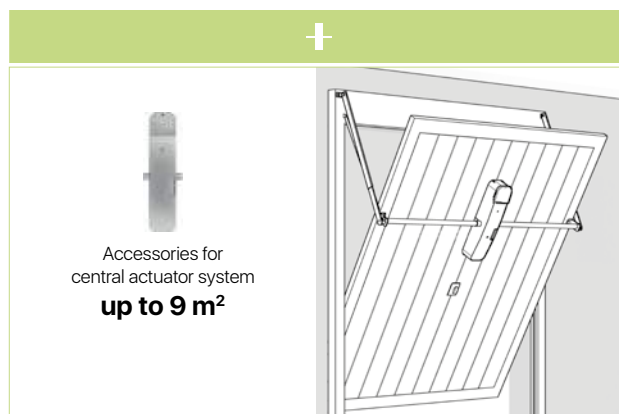
SALIENT

Electromechanical actuators for projecting and non-projecting up-and-over garage doors. 24 Vdc and 230 Vac



Actuator with built-in encoder and electronics, up to 9 m² with one motor, 16 m² with two motors

			Arm section					
Salient	24 Vdc	GSTOF0ECL0G00	⊘	•	•	•	9,3 kg	30
Salient	24 Vdc	GSTOF0EOL0G00	⊘	•			7,3 kg	30
Salient	24 Vdc	GSTQF0ECL0G00	⊞	•	•	•	9,3 kg	30
Salient	24 Vdc	GSTQF0EOL0G00	⊞	•			7,3 kg	30
Salient	230 Vac	GSTOF0ECH0G00	⊘		•	•	9,8 kg	30
Salient	230 Vac	GSTOF0EOH0G00	⊘				7,8 kg	30
Salient	230 Vac	GSTQF0ECH0G00	⊞		•	•	9,8 kg	30
Salient	230 Vac	GSTQF0EOH0G00	⊞				7,8 kg	30



SALIENT KIT System



24V Complete kits with actuator for overhead doors, 24 Vdc

KIT System		0101			
SALIENT KIT square section		GKSTQF0ECL0G00	CU 24V HP	12 kg	20
SALIENT DOBLE MOTOR KIT square section		GKSTQF1ECL0G00	CU 24V HP	19,6 kg	12

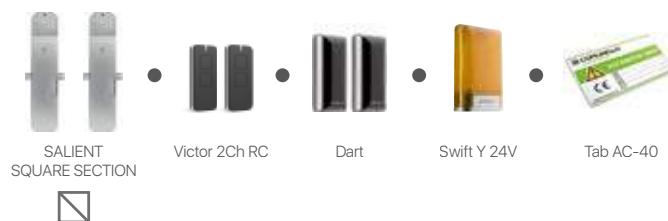
SALIENT KIT



KIT System



SALIENT DOUBLE MOTOR KIT



SALIENT Accessories




	AC-360	Galvanised return arms L = 1500 mm						•	1	6,2 Kg	
	AC-370	Galvanised return arms L = 200 mm						•	1	0,97 Kg	
	AC-375	Galvanised return arms L = 2000 mm						•	1	8 Kg	
	AC-330	Galvanised straight arms with round bushings						•	•	1	4,1 Kg
	AC-340	Galvanised curved arms with round bushings						•	•	1	4,6 Kg
	AC-310	Galvanised straight arms with ribbed bushings						•	•	1	4,1 Kg
	AC-320	Galvanised curved arms with ribbed bushings						•	•	1	4,6 Kg
	AC-350	Galvanised return arm support bracket						•		1	0,3 Kg
	AC-361	Galvanised return arm support bracket						•		1	6,2 Kg
	AC-371	Galvanised square arms L = 200 mm						•		1	0,97 Kg

SALIENT Accessories

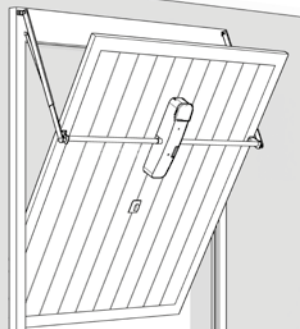


	AC-376	Galvanised square arms L = 2000 mm	GST003AQN0G00			•	1	8 Kg
	AC-311	Galvanised straight arms with ribbed bushings	GST001SQN0G00		•	•	1	4,1 kg
	AC-321	Galvanised curved arms with squared bushings	GST002SQN0G00		•	•	1	4,6 kg
	AC-351	Galvanised square arm support bracket	GST005SQN0G00			•	1	0,3 kg
	AC-300	Galvanised support bracket L = 615 mm	GST006ASN0G00		•	•	1	2,0 Kg
	AC-305	Galvanised support bracket L = 1250 mm	GST007ASN0G00		•	•	1	4,1Kg
	AC-307	Galvanised support bracket L = 2000 mm	GST008ASN0G00		•	•	1	6,5 Kg
	AC-380	Galvanised external release lever	GST001SCN0G00		•	•	1	0,17 Kg


+*



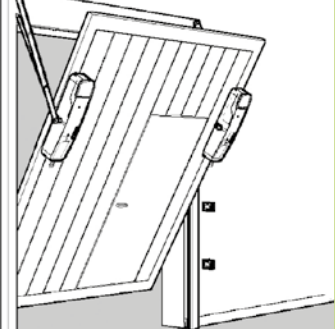
Accessories for
central actuator system
up to 9 m²



||*



Accessories for
double application system
up to 16 m²



BORDER up to 4m beam



Manual unlocking system available from both sides by aluminium handle

Robust ambidextrous bar support in die-cast aluminium

Light and durable elliptical section beam

Robust steel frame with protective treatment

Start of the slowdown phases adjustable by dip-switches. Thanks to the adjustable cams it is possible to change the slowdown starting points according to the needs.

Mechanical stop adjustment by one screw

Spherical self-lubricating eyelet-fixed spring for smoother, wear reducing movement

Easily accessible and extractable built-in control board for appropriate programming

A single spring can be fixed in 2 different holes of the spring tensioning arm according to the different bar length



Depending on the length of the beam and relative accessories, the AC-541 spring must be fixed to one of the holes of the spring-tightening arm according to the table and diagram below.

SPRING AC-541

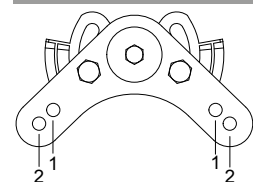


SPRING POSITIONING AC-541

ROD LENGTH	2 m	3 m	4 m
BEAM	-	1-2 *	2
BEAM WITH PROTECTIVE RUBBER	1	1-2 *	2
BEAM WITH MOBILE SUPPORT	1	2	2

* The spring could be fixed to both holes with a proper regulation

SPRING-TIGHTENING ARM

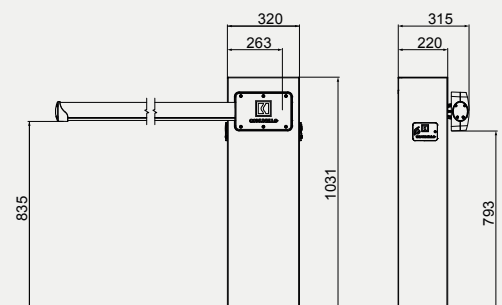


Every single product is duly tested at the end of each assembly line

TECHNICAL FEATURES

	BORDER 400 24V
Power supply	230 VAC
Motor power supply	24 VDC
Power consumption	150 W
Current input	4,5 A
Torque	100 Nm
Duty cycle	Intensive use
Protection rating (IP)	IP44
Insulation class	2
Working temperature	-20°C / +50°C

DIMENSIONS (mm)

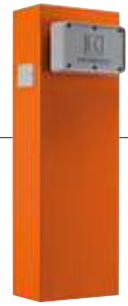


For beams up to 4 m in length



BORDER

Automation for road barriers
24 Vdc - BORDER



24 Vdc electromechanical barrier

Border 400	24 Vdc	GBR040EVL0A00	CU 24V BR	•		45 kg	9

BORDER KIT System



Complete 24 Vdc Border barrier kit with 3 m beam

Kit Border 400 - 3 m	GKBR030VL0A901	50 kg	9

BR400-24V Border 400 24V	AC-631 Aluminium elliptical beam L = 3 m	AC-660 Reflective adhesive strips Komunello (pack of 30 pieces)	AC-717 End plug for elliptical beam with protective profile	AC-500 Foundation kit	AC-541 Spring for light bar Border/Limit
	AC-671 Red protective profile for elliptical beam for Border, L = 3 m				






















Complete 24 Vdc Border barrier kit with 4 m beam

Kit Border 400 - 4 m	GKBR040VL0A901	51,2 kg	9

BR400-24V Border 400 24V	AC-641 Aluminium elliptical beam L = 4 m	AC-660 Reflective adhesive strips Komunello (pack of 30 pieces)	AC-717 End plug for elliptical beam with protective profile	AC-500 Foundation kit	AC-541 Spring for light bar Border/Limit
	AC-672 Red protective profile for elliptical beam for Border, L = 4 m				

Accessories



					
	AC-30	Outdoor antenna (cable L = 3m) 433.92 MHz	GANTENNAN0G00	1	0,2 kg
	AC-240	Inductive sensor	GINDUCT0N0G00	1	0,28 kg
	AC-500	Foundation Kit Border 400/Limit 500	GLTANCHOR0G00	1	1,8 Kg
	AC-541	Spring for light bar Border/Limit	GLTSPRINGUG00	1	3,8 kg
	AC-560A	Arm nesting post for barriers	GLTFIX0000A00	1	4,6 kg
	AC-570	Swing down support for beam	GLTSUPPORTG00	1	1,05 kg
	AC-590	Aluminium curtain for barrier, L = 2 m	GLTHEDGE02W00	1	1,7 kg
	AC-631	Aluminium elliptical beam L = 3 m	GBRBAR3001W00	1	2,9 kg
	AC-641	Aluminium elliptical beam L = 4 m	GBRBAR4001W00	1	3,9 kg
	AC-660	Reflective adhesive strips Comunello (pack of 30 pieces)	GLTSTRIP00W00	1	0,01 kg
	AC-671	Red barrier elliptical beam cover for Border, L= 3m	GBRTOPP301R00	1	0,57 kg
	AC-672	Red barrier elliptical beam cover for Border, L= 4m	GBRTOPP401R00	1	0,87 kg
	AC-705	End plug for tablet elliptical beam Border	GBRPLUG030W00	1	0,03 kg
	AC-717	End plug for elliptical beam with protective profile	GBRPLUG011W00	1	0,03 kg
	AC-718	End plug for elliptical beam with protective profile	GBRPLUG020W00	1	0,03 kg

LIMIT 500

up to 5m beam

Possibility to install a LED signal light on board



Possibility to install, along the beam length, beam strip LED for crossing-light version or with white light

Robust ambidextrous beam support in die-cast aluminium



Manual key and fold-away emergency release lever



Robust steel frame with protective treatment

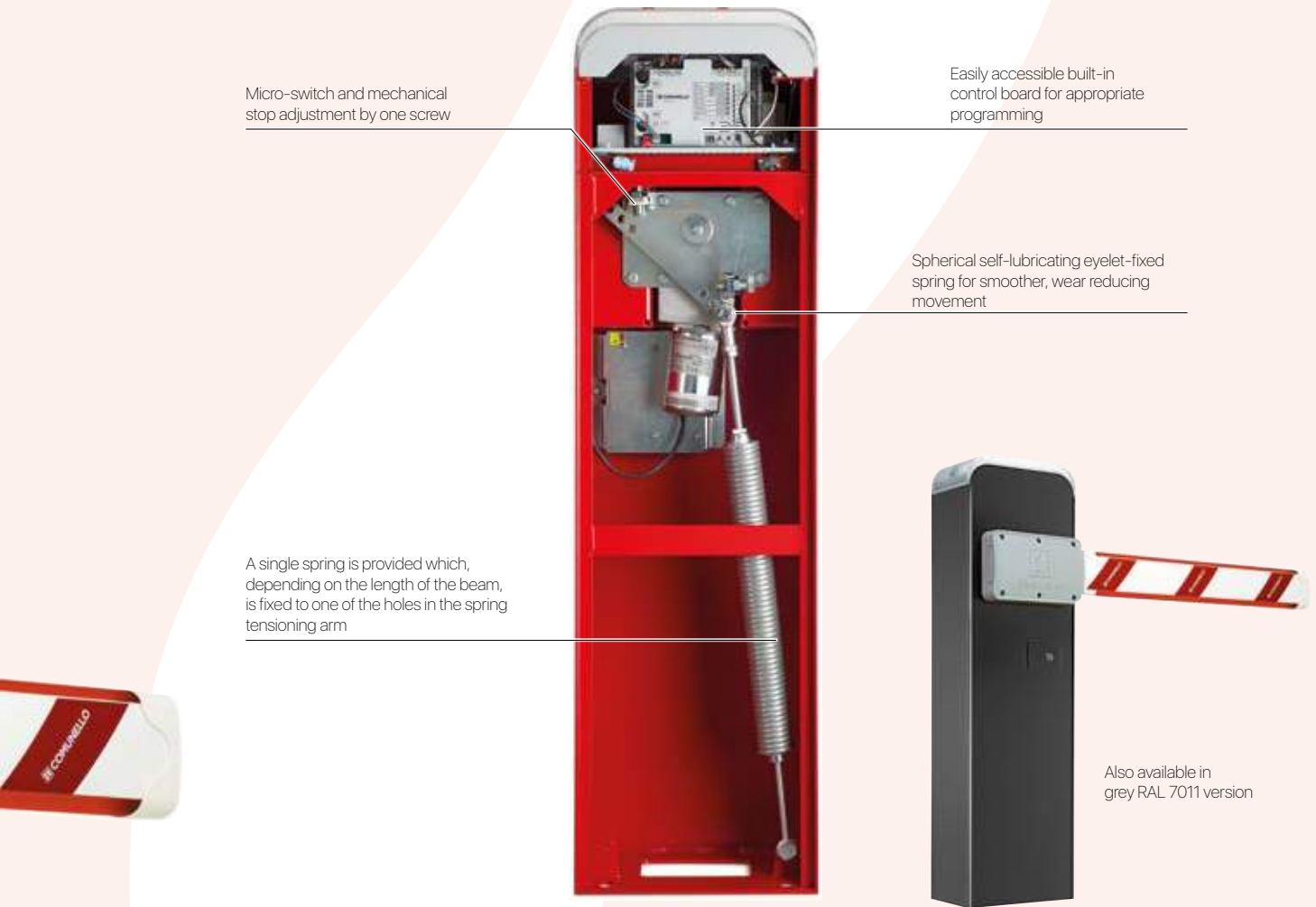


Micro-switch and mechanical stop adjustment by one screw

Easily accessible built-in control board for appropriate programming

Spherical self-lubricating eyelet-fixed spring for smoother, wear reducing movement

A single spring is provided which, depending on the length of the beam, is fixed to one of the holes in the spring tensing arm



Also available in grey RAL 7011 version

Depending on the length of the beam and relative accessories, the AC-541 spring must be fixed to one of the holes of the spring-tightening arm according to the table and diagram below.

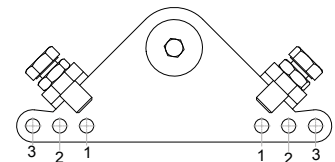
SPRING AC-541



SPRING POSITIONING AC-541

ROD LENGTH	2 m	3 m	4 m	5 m
BEAM	1	1/2 *	1/2/3 *	2/3 *
BEAM WITH PROTECTIVE RUBBER AND LED STRIP LED	1	1/2 *	2/3 *	3
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND MOBILE SUPPORT	1	1/2 *	3	3
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND ALUMINUM SKIRT	-	2	3	-
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND ALUMINUM SKIRT AND MOBILE SUPPORT	-	3	3	-

SPRING-TIGHTENING ARM



* The SPRING can be fixed in the indicated holes with adequate adjustment for a correct balance of the rod. With the barrier unlocked, the rod must remain in balance at 45°

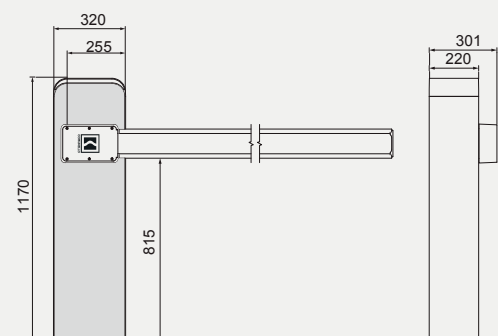


Every single product is duly tested at the end of each assembly line

TECHNICAL FEATURES

	LIMIT 500 24V
Power supply	230 VAC
Motor power supply	24 VDC
Power consumption	150 W
Current input	6,2 A
Torque	300 Nm
Duty cycle	Intensive use
Protection rating (IP)	IP44
Insulation class	2
Working temperature	-20°C/ +50°C

DIMENSIONS (mm)



For beams up to 5 m in length



For beams up to 10 m in length (5+5m)



LIMIT 500 ONE BUS

Automation for road barriers 24 Vdc - LIMIT
ONE TECHNOLOGY



24 Vdc electromechanical barrier with encoder, One Technology

LIMIT 500 ONE	24V	G1LX50EELOR00	CU 24V LIMIT ONE	•	47,5 kg	9

LIMIT 500

Automation for road barriers
24 Vdc - LIMIT



24 Vdc electromechanical barrier with encoder

Limit 500 ■	24 Vdc	GLTX50EELOR00	RAL 3002 (RED)	CU 24V LT	•	47,5 kg	9
Limit 500 ■	24 Vdc	GLTX50EELOG00	RAL 7011 (GREY)	CU 24V LT	•	47,5 kg	9



LIMIT 500 KIT System



Complete kits with 24 Vdc barrier, up to 5 m beam

Kit Limit 500 - 4 m ■	GKLTX40ELOR901	RAL 3002 (RED)	59 kg	9
Kit Limit 500 - 4 m ■	GKLTX40ELOG901	RAL 7011 (GREY)	59 kg	9
Kit Limit 500 - 5 m ■	GKLTX50ELOR901	RAL 3002 (RED)	59 kg	9
Kit Limit 500 - 5 m ■	GKLTX50ELOG901	RAL 7011 (GREY)	59 kg	9

LT500-24V 1 Limit 500 24V	AC-640 / AC-650 Aluminium rectangular beam L = 4 m / 5 m	AC-660 Reflective adhesive strips Comunello (pack of 30 pieces)	AC-700 Rear covers for rectangular beam with protective rubber	AC-710 Front cap for rectangular beam with protective rubber	AC-500 Foundation kit
	AC-541 Unified spring for barreirs Border/Limit	AC-800 LED strips for beams L = 5 m	AC-771 Internal Led lights	AC-681 / AC-682 Red protective profile for Limit beam (upper and bottom), L = 4 m / L = 5 m	

KIT Versions available also with splitted beams (2m + 2m / 3m + 2m and AC-775 Rectangular Beam Joint)

Complete 24 Vdc barrier kit with 5 m boom with traffic light function

Kit Limit 500 - 4 m - Traffic light ■	GKLTX40ELOR907	RAL 3002 (RED)	60 kg	9
Kit Limit 500 - 4 m - Traffic light ■	GKLTX40ELOG907	RAL 7011 (GREY)	60 kg	9
Kit Limit 500 - 5 m - Traffic light ■	GKLTX50ELOR907	RAL 3002 (RED)	60 kg	9
Kit Limit 500 - 5 m - Traffic light ■	GKLTX50ELOG907	RAL 7011 (GREY)	60 kg	9

LT500-24V 1 Limit 500 24V	AC-640 / AC-650 Aluminium rectangular beam L = 4 m / 5 m	AC-660 Reflective adhesive strips Comunello (pack of 30 pieces)	AC-700 Rear covers for rectangular beam with protective rubber	AC-710 Front cap for rectangular beam with protective rubber	AC-500 Foundation kit
	AC-541 Light spring for barriers Border/Limit	AC-778 LED strips RGB, L = 8 m	AC-771 Internal Led lights	AC-681T / AC-682T Transparent gum cover (upper and bottom), L = 4 m / L = 5 m	TRAFFIC ADAPTER Traffic light adapter

TRAFFIC LIGHT

KIT Versions available also with splitted beams (2m + 2m / 3m + 2m and AC-775 Rectangular Beam Joint)

LIMIT 600

up to 6m beam

Possibility to install a LED signal light on board



Possibility to install, along the beam length, beam strip LED for crossing-light version or with white light

Robust ambidextrous beam support in die-cast aluminium



Manual key and fold-away emergency release lever



Robust steel frame with protective treatment



Micro-switch and mechanical stop adjustment by one screw

Easily accessible built-in control board for appropriate programming

Spherical self-lubricating eyelet-fixed spring for smoother, wear reducing movement

A single spring is provided which, depending on the length of the beam, is fixed to one of the holes in the spring tensioning arm

Also available in grey RAL 7011 version

Depending on the length of the beam and relative accessories, the AC-541 spring must be fixed to one of the holes of the spring-tightening arm according to the table and diagram below.

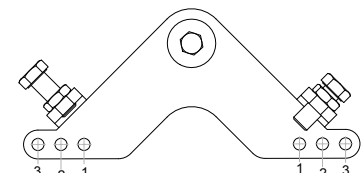
SPRING AC-541



SPRING POSITIONING AC-541

ROD LENGTH	2 m	3 m	4 m	5 m	6 m
BEAM	1-2*	1-2-3*	3	3	3
BEAM WITH PROTECTIVE RUBBER AND LED STRIP LED	1-2*	3	3	3	3
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND MOBILE SUPPORT	1-2*	3	3	3	3
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND ALUMINUM SKIRT	-	3	3	3	-
BEAM WITH PROTECTIVE RUBBER, STRIP LED AND ALUMINUM SKIRT AND MOBILE SUPPORT	-	3	3	3	-

SPRING-TIGHTENING ARM



* The SPRING can be fixed in the indicated holes with adequate adjustment for a correct balance of the rod. With the barrier unlocked, the rod must remain in balance at 45°

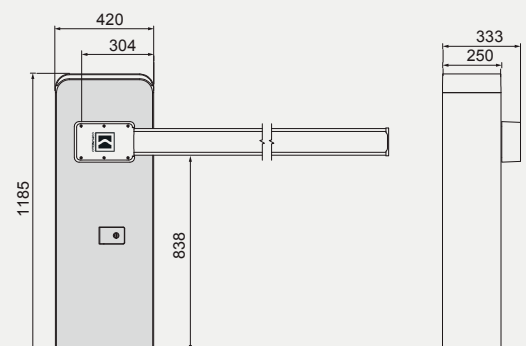


Every single product is duly tested at the end of each assembly line

TECHNICAL FEATURES

	LIMIT 600 24V
Power supply	230 VAC
Motor power supply	24 VDC
Power consumption	150 W
Current input	6,2 A
Torque	300 Nm
Duty cycle	Intensive use
Protection rating (IP)	IP44
Insulation class	2
Working temperature	-20°C / +50°C

DIMENSIONS (mm)



For beams up to 6 m in length



For beams up to 12 m in length (6+6m)



LIMIT 600 ONE BUS

Automation for road barriers 24 Vdc - LIMIT ONE TECHNOLOGY



24 Vdc electromechanical barrier with encoder, One Technology

Limit 600 ONE	24V	G1LX60EELOR00	CU 24V LIMIT ONE	57,5 kg	6

LIMIT 600

Automation for road barriers 24 Vdc - LIMIT



24 Vdc electromechanical barrier with encoder

Limit 600 ■	24 Vdc	GLTX60EELOR00	RAL 3002 (RED)	CU 24V LT	57,5 kg	6
Limit 600 ■	24 Vdc	GLTX60EELOG00	RAL 7011 (GREY)	CU 24V LT	57,5 kg	6



LIMIT 600 KIT System



24 Vdc electromechanical barrier with encoder, 6 m beam

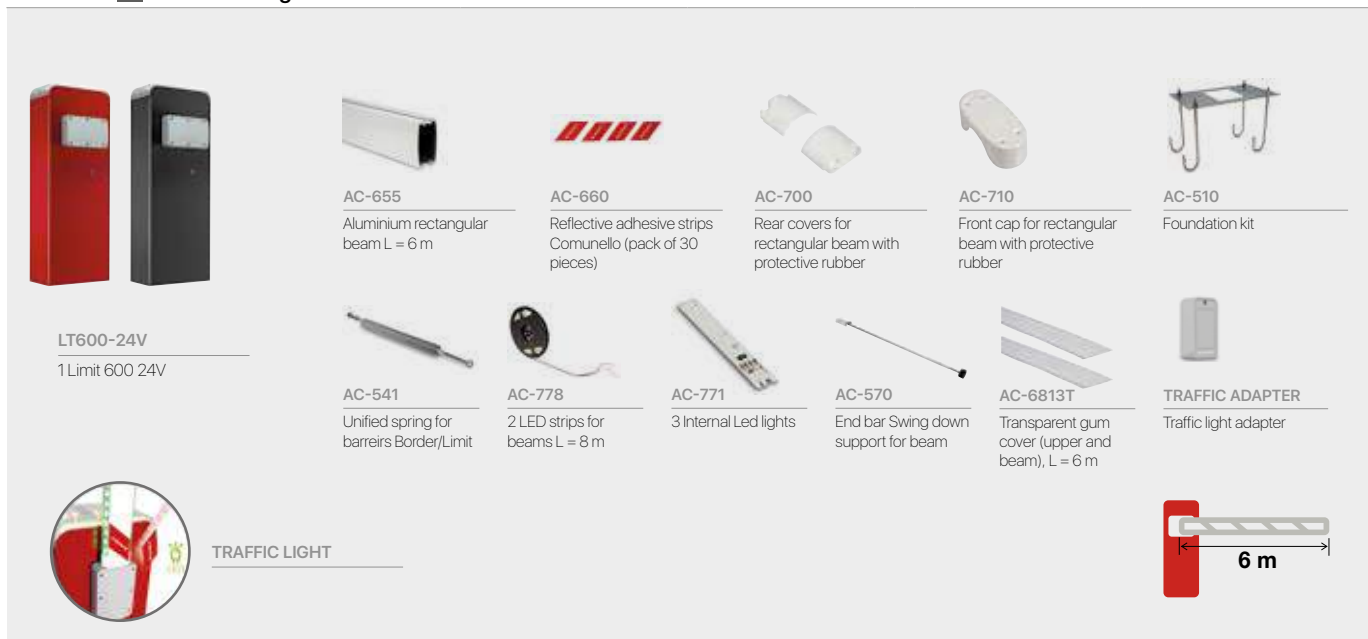
				RAL			
Limit 600 ■		24 Vdc	GKLTX60ELOR901	RAL 3002 (RED)	CU 24V LT	57,5 kg	6
Limit 600 ■		24 Vdc	GKLTX60ELOG901	RAL 7011 (GREY)	CU 24V LT	57,5 kg	6



KIT Version available also with splitted beams (3m + 3m and AC-775 Rectangular Beam joint)

Complete 24 Vdc barrier kit with 6 m boom with traffic light function

			RAL		
Limit 600 ■ 6 m -Traffic light		GKLTX60ELOR907	RAL 3002 (RED)	57,5 kg	6
Limit 600 ■ 6 m -Traffic light		GKLTX60ELOG907	RAL 7011 (GREY)	57,5 kg	6



KIT Version available also with splitted beam (3m + 3m and AC-775 Rectangular Beam joint)

LIMIT 800

up to 8m beam



Possibility to install a LED signal light on board

Robust ambidextrous beam support in shaped steel

Possibility to install, along the beam sides, beam strip LED for crossing-light version or with white light

Manual key and fold-away emergency release lever

Robust steel frame with protective treatment

Easily accessible control unit for a proper programming

Adjustable screws allow a more precise mechanical stop

Easy adjustment of the limit switches by means of the special screw in the tension plate

Available single spring or double spring depending on the size of beam and accessories



ASSEMBLING BEAM, SPRING CHOICE AND BALANCE

	LENGTH				
	6,00	6,50	7,00	7,50	8,00
Beam with joint and plug	●	●	●	●	●
Beam with joint, plug and strip led	●	●	●	●	●
Beam with joint, plug and protective rubbers	●	●	●	●	●
Beam with joint, plug, protective rubbers and strip led	●	●	●	●	●
Beam with joint, plug and mobile support	●	●	●	●	●
Beam with joint, plug, mobile support and strip led	●	●	●	●	●
Beam with joint, plug, mobile support, strip led and protective rubbers	●	●	●	●	●
Beam with joint, plug and aluminum skirt	●	●	●	●	●
Beam with joint, plug, aluminum skirt and strip led	●	●	●	●	●
Beam with joint, plug, aluminum skirt, strip led and mobile support	●	●	●	●	●

● SPRING AC 540 ● Double SPRING AC 550

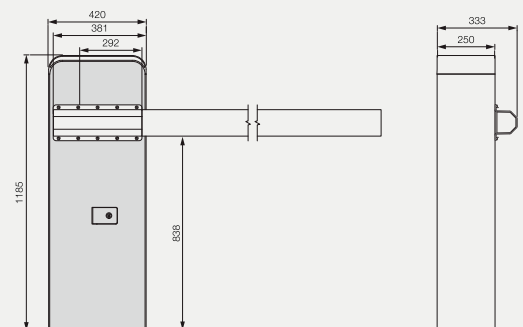


Every single product is duly tested at the end of each assembly line

TECHNICAL FEATURES

	LIMIT 800 24V
Power supply	230 VAC
Motor power supply	24 VDC
Power consumption	150 W
Current input	6,2 A
Torque	300 Nm
Duty cycle	Intensive use
Protection rating (IP)	IP44
Insulation class	2
Working temperature	-20°C / +50°C

DIMENSIONS (mm)



For beams up to 7 m (3+4 m) and up to 8 m (4+4 m)



For beams up to 10/16 m



LIMIT 800 ONE BUS

Automation for road barriers 24 Vdc - LIMIT
ONE TECHNOLOGY



24 Vdc electromechanical barrier with encoder, One Technology

LIMIT 800 ONE	24V	G1L080EELOR00	CU 24V LIMIT	95 kg	6

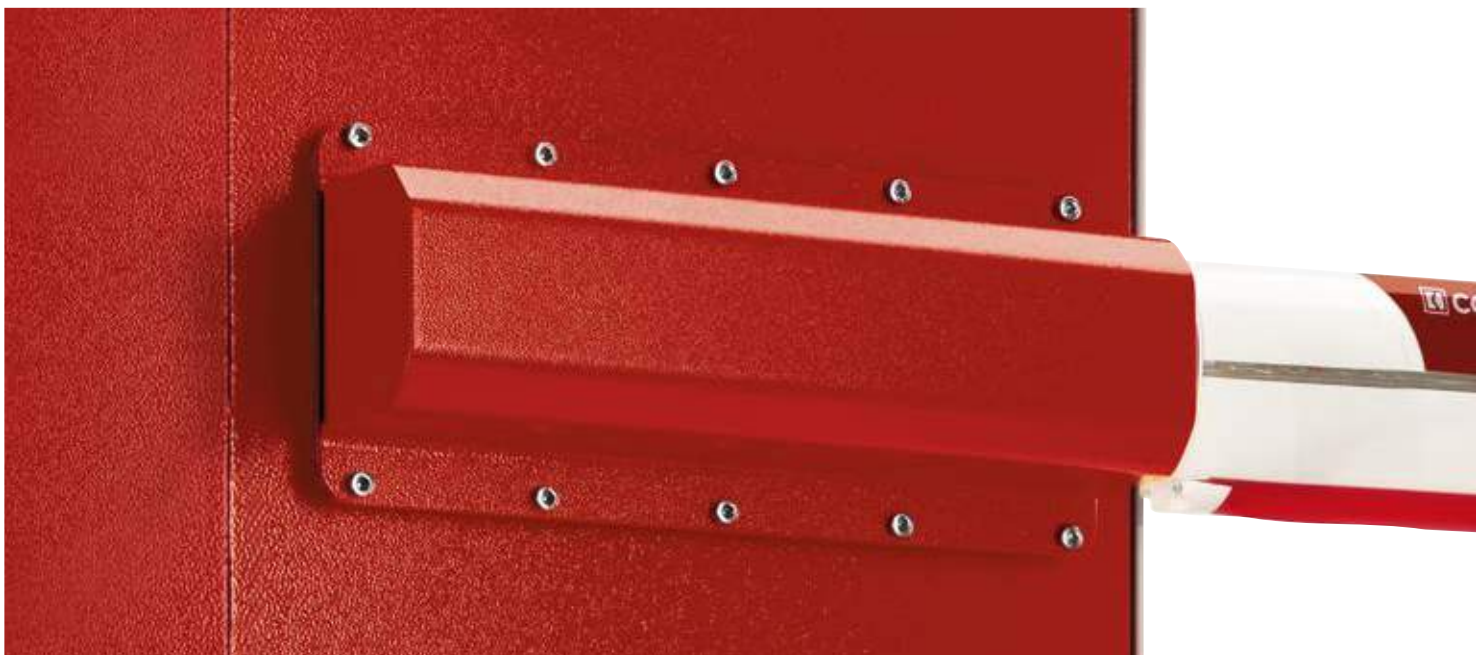
LIMIT 800

Automation for road barriers
24 Vdc - LIMIT



24 Vdc electromechanical barrier with encoder















Limit 800	24 Vdc	GLT080EELOR00	CU 24V LT	95 kg	6



LIMIT 800 KIT System


















Complete 24 Vdc barrier kit up to 8 m boom with traffic light function

Kit Limit 800 - 8 m - Traffic light	GKLT080ELOR907	122 kg	6			
 LT800-24V 1 Limit 800 24V	 AC-731 Aluminium round beam with transparent side sheaths, L = 3 m	 AC-751 Aluminium round beam with transparent side sheaths, L = 5 m	 AC-765 Round beam joint	 AC-661 Reflective adhesive strips Comunello for Limit 800 (pack of 30 pieces)	 AC-713 Front cap for round beam without protective rubber	 AC-778 2 RGB LED strips for beams L = 8 m
 AC-510 Foundation kit	 AC-550 Double spring for Limit 800	 AC-771 3 Internal LED lights	 AC-570 End bar Swing down support for beam	 AC-684 Red protective profile for Limit round beam, L = 8 m	 TRAFFIC ADAPTER Traffic light adapter	 TRAFFIC LIGHT
















LIMIT Accessories

				Compatible with				
				Limit 500	Limit 600	Limit 800		
	AC-30	Outdoor antenna (cable L = 3m) 433.92 MHz	GANTENNANOG00	•	•	•	1	0,2 kg
	AC-240	Inductive sensor	GINDUCTONOG00	•	•	•	1	0,28 kg
	AC-500	Foundation Kit Border 400/ Limit 500	GLTANCHOROG00	•			1	1,8 Kg
	AC-510	Foundation Kit Limit 600/800	GLTANCHO80G00		•	•	1	2,2 kg
	AC-541	Unified spring for light bar Border/Limit	GLTSPRINGUG00	•	•	•	1	3,8 kg
	AC-550	Doble spring for Limit 800	GLTSPRINGTG00			•	1	7,1 kg
	AC-560R	Arm nesting post for barriers	GLTFIX0000R00	•	•	•	1	4,6 kg
	AC-570	Swing down support for beam	GLTSUPPORTG00	•	•	•	1	1,05 kg
	AC-580	90° jointed rod for barrier	GLTANG9000G00	•	•		1	6,7 kg
	AC-590	Aluminium curtain for barrier, L = 2 m	GLTHEDGE02W00	•	•	•	1	1,7 kg
	AC-630	Aluminium rectangular beam L = 3 m	GLTBAR3001W00	•	•		1	3,5 kg
	AC-640	Aluminium rectangular beam L = 4 m	GLTBAR4001W00	•	•		1	4,7 kg
	AC-650	Aluminium rectangular beam L = 5 m	GLTBAR5001W00	•	•		1	5,90 kg
	AC-655	Aluminium rectangular beam L = 6 m	GLTBAR6001W00	•	•		1	7,00 kg
	AC-731	Aluminium round barrier L = 3 m	GLTBAR8300W00			•	1	3,70 kg
	AC-741	Aluminium round barrier L = 4 m	GLTBAR8400W00			•	1	5,20 kg
	AC-751	Aluminium round barrier L = 5 m	GLTBAR8500W00			•	1	6,50 kg
	AC-765	Round beam joint	GLTJOINTT1G00			•	1	1,10 kg
	AC-775	Rectangular beam joint	GLTJOINTROG00	•	•		1	1,10 kg
		AC-660	Reflective adhesive strips Comunello (pack of 30 pieces)	GLTSTRIP00W00	•	•		1
	AC-661	Reflective adhesive strips Comunello (pack of 30 pieces) for LIMIT 800	GLTSTRIP01W00			•	1	0,10 kg



LIMIT Accessories

				Compatible with				
				Limit 500	Limit 600	Limit 800		
	AC-670	Red gum cover (upper and bottom), L= 3 m	GLTTOPP301R00	•	•		1	0,62 kg
	AC-681	Red gum cover (upper and bottom), L= 4 m	GLTTOPP401R00	•	•		1	0,85 kg
	AC-682	Red gum cover (upper and bottom), L= 5 m	GLTTOPP501R00	•	•		1	1,60 kg
	AC-683	Red gum cover (upper and bottom), L= 6 m	GLTTOPP601R00	•	•		1	1,71 kg
	AC-684	Red gum cover (bottom), L= 8 m	GLTTOPP801R00			•	1	0,85 kg
	AC-670T	Transparent gum cover (upper and bottom), L= 3 m	GLTTOPP301T00	•	•		1	0,62 kg
	AC-681T	Transparent gum cover (upper and bottom), L= 4 m	GLTTOPP401T00	•	•		1	0,85 kg
	AC-682T	Transparent gum cover (upper and bottom), L= 5 m	GLTTOPP501T00	•	•		1	1,60 kg
	AC-683T	Transparent gum cover (upper and bottom), L= 6 m	GLTTOPP601T00	•	•		1	1,71 kg
	AC-700	Rectangular beam end plug with protection outline	GLTSTOPPERW00	•	•		1	0,01 kg
	AC-710	End plug for rectangular beam with protection gum cover	GLTPLUG011W00	•	•		1	0,06 kg
	AC-715	End plug for rectangular beam without protection gum cover	GLTPLUG021W00	•	•		1	0,03 kg
	AC-713	End plug for round Beam with protection gum cover	GLTPLUG041W00			•	1	0,05 kg
	AC-771	Internal superior LED lights	GLTSWIFTN1G00	•	•	•	1	0,2 kg
	AC-800	Luminous LED strips for beam, L = 5 m	GLTLED5000W00	•	•	•	1	0,4 kg
	AC-778	Luminous RGB LED strips for beam, L = 8 m	GLTLED80T0W00	•	•	•	1	1,10 kg
	TRAFFIC ADAPTER	Traffic light adapter	GTRAFADAPOG00	•	•	•	1	0,2 kg

MY2021 ACCESSORIES

Complete range of new generation security accessories





COMUNELLO

NEW **DART**

Protection

Design

Adjustment

Simplicity

Reliability

Duration

Range

Technology



DART

New generation outdoor photocells



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

New attractive design with no visible screws

Adjustment:

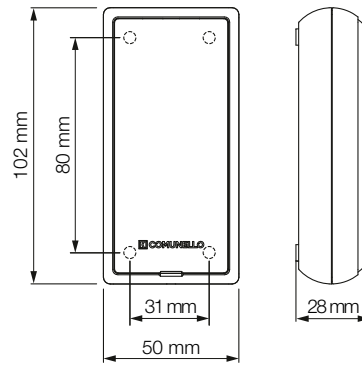
The slotted holes allow adjustment of the position even after installation

Duration:

High quality plastic material with anti-UV additives and embossed painting

Sync Version:

The DART SYNC version allows automatic synchronization between transmitter and receiver to avoid interference in systems with multiple pairs of photocells.



				IP	Range		
DART	GDARTSTDN0B00A	Pair of photocells with range up to 15 m	12V / 24V	IP 54	15m	1 Kit	0,15 Kg
DART SYNC	GDARTSTDN1B00	Pair of photocells, synchronized version with range up to 20 m	12V / 24V	IP 54	20m	1 Kit	0,15 Kg
DART BUS	GG1DARTSTN0B00A	Pair of photocells, synchronized version with range up to 20 m One Technology	24V	IP 54	15m	1 Kit	0,15 Kg

Fixing with 4 screws

A pre-assembled gasket protects the electronics from any entry of insects or water. This gasket also separates the card from the 4 fixing screws and the cable passage.



Large space dedicated to wiring

Slotted pre-holes allow adjustment of the position even after installation



Cable passage arranged both at the bottom and at the rear of the photocell.

New generation outdoor photocells, slim version



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

New attractive design with no visible screws

Adjustment:

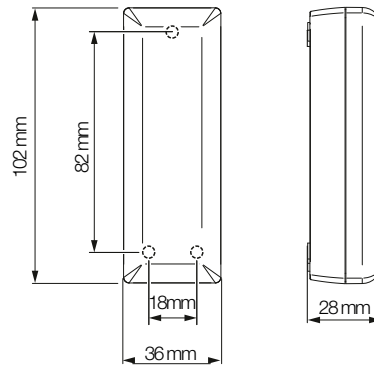
The slotted holes allow adjustment of the position even after installation

Duration:

High quality plastic material with anti-UV additives and embossed painting

Sync Version:

The DART SYNC version allows automatic synchronization between transmitter and receiver to avoid interference in systems with multiple pairs of photocells.



				IP	Range		
DART SLIM	GDARTSLMN0B00A	Pair of photocells, slim version, with a range of up to 15 m	12V / 24V	IP 54	15m	1 Kit	0,12 Kg
DART SLIM SYNC	GDARTSLMN1B00A	Pair of slim photocells, slim and synchronized version, with range up to 20 m	12V / 24V	IP 54	20m	1 Kit	0,12 Kg
DART SLIM BUS	GG1DARTSTN0B00A	Pair of slim photocells, slim and synchronized version, with range up to 20 m One Technology	24V	IP 54	15m	1 Kit	0,12 Kg

A pre-assembled gasket protects the electronics from a possible entry of insects or water.



Large space dedicated to wiring



The slotted holes allow adjustment of the position even after installation

Cable passage arranged both at the bottom and at the rear of the photocell.

DART ADJUSTABLE

New generation outdoor adjustable photocells, painted finish



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

New attractive design with no visible screws

Adjustment:

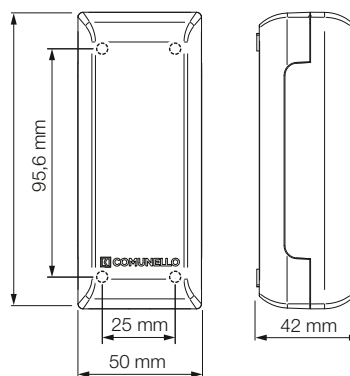
Transmitter and receiver can rotate 180 ° on the vertical axis and 40 ° on the horizontal axis. The slotted holes allow adjustment of the position even after installation

Duration:

High quality plastic material with anti-UV additives and embossed painting

Sync Version:

The DART SYNC version allows automatic synchronization between transmitter and receiver to avoid interference in systems with multiple pairs of photocells.



Icon	Code	Description	Voltage	IP	Range	Kit	Weight
◆	GDARTADJN0B00A	Pair of adjustable photocells with range up to 15 m	12V / 24V	IP 54	15m	1 Kit	0,25 Kg
◆	GDARTADJN1B00A	Pair of adjustable photocells, synchronized version with range up to 20 m	12V / 24V	IP 54	20m	1 Kit	0,25 Kg
◆	G1DARTADN0B00A	Pair of adjustable photocells, synchronized version with range up to 20 m One Technology	24V	IP 54	15m	1 Kit	0,25 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

The 4 slotted holes allow adjustment of the position even after installation

Large space dedicated to wiring

Transmitter and receiver can rotate 180 ° on the vertical axis and 40 ° on the horizontal axis

Cable passage arranged both at the bottom and at the rear of the photocell.

DART ADJUSTABLE BATTERY

New generation outdoor battery-powered adjustable photocells, painted finish



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

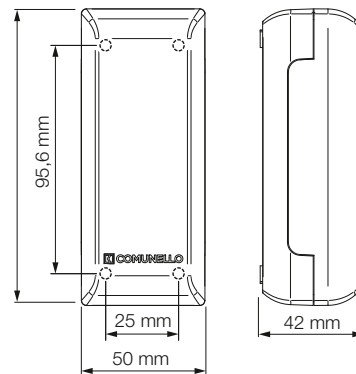
New attractive design with no visible screws

Adjustment:

Transmitter and receiver can rotate 180 ° on the vertical axis and 20 ° on the horizontal axis. The slotted holes allow adjustment of the position even after installation

Duration:

High quality plastic material with anti-UV additives and embossed painting



				IP	Range		
DART BATTERY	GDARTBTTN0B00A	Pair of battery-operated adjustable photocells with capacity up to 18 m	12V / 24V	IP 54	18m	1 Kit	0,30 kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

The 4 slotted holes allow adjustment of the position even after installation

Large space dedicated to wiring

Transmitter and receiver can rotate 180 ° on the vertical axis and 40 ° on the horizontal axis

Cable passage arranged both at the bottom and at the rear of the photocell.



DART ADJUSTABLE INDUSTRIAL

Adjustable photocells for industrial gates with a range of up to 30 m

Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

New attractive design with no visible screws

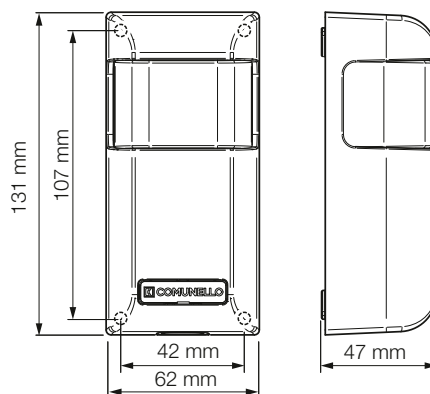
Adjustment:

Transmitter and receiver can rotate 180° on the vertical axis and 20° on the horizontal axis

The slotted holes allow adjustment of the position even after installation

Anti-vandalism:

The structure of the photocell completely in die-cast aluminum guarantees high strength and resistance.



DART INDUSTRIAL	GDARTINDN0B00	Pair of adjustable photocells with range up to 30 m	12V / 24V	IP 55	30m	1 Kit	0,60 kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

Structure completely in die-cast aluminum

The 4 slotted holes allow adjustment of the position even after installation

Large space dedicated to wiring

Transmitter and receiver can rotate 180° on the vertical axis and 20° on the horizontal axis

Cable passage arranged both at the bottom and at the rear of the photocell.



New generation recessed wall photocells



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the photocell. Large space dedicated to wiring.

Design:

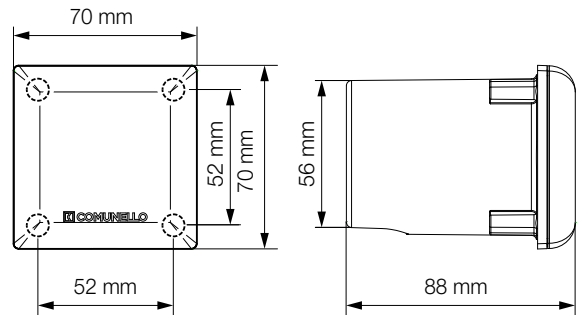
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position even after installation

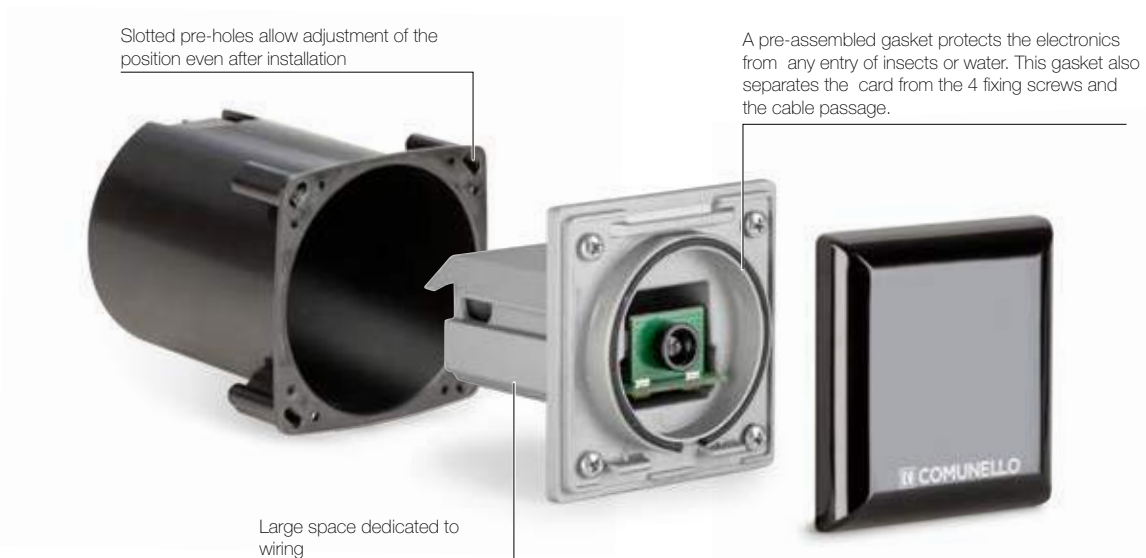
Duration:

High quality plastic material with anti-UV additives and embossed painting



				IP	Range		
DART INSERT	GDARTINSN0B00	Pair of recessed wall photocells, adapter bowl included	12V / 24V	IP 54	15m	1 Kit	0,20 kg
DART INSERT BUS	G1DARTISN0B00A	Pair of recessed wall photocells, adapter bowl included One Technology	24V	IP 54	15m	1 Kit	0,20 kg

	G-BOX	GBOXUNSTD0B00	Adapter bowl DART INSERT / DART INSERT BUS	20	0,025 kg



DART COVER



DART COVER

Vandalism protection in die-cast aluminum for:

- DART
- DART SYNC
- DART BUS

				
COVER VANDAL PROOF	GCVRDTSTD0S00	Anti-vandalism DART photocell covers	1 Kit	0,15 Kg



DART COVER SLIM

Vandalism protection in die-cast aluminum for:

- DART SLIM
- DART SLIM SYNC
- DART SLIM BUS

				
COVER VANDAL PROOF SLIM	GCVRDSSTD0S00	Anti-vandalism DART SLIM photocell covers	1 Kit	0,15 Kg

COLUMNS

Compatible with: DART, DART BUS, DART SYNC, TACT, TACT RADIO, TACT CARD, INDEX, INDEX BUS, INDEX EU

Compatible with DART SLIM, DART SLIM BUS, DART SLIM SYNC



MAST 50 **MAST 100** **MAST TWIN**



MAST 50 SLIM **MAST 100 SLIM**

	
MAST 50	GMAST005NOG00A
MAST 100	GMAST010NOG00A
MAST 100 TWIN	GMASTT10NOG00A

	
MAST SLIM 50	GMASTS05NOG00A
MAST SLIM 100	GMASTS10NOG00A

NEW TACT

Complete range of New generation security accessories

Protection

Design

Comfort

Simplicity

Reliability

Lighting

Duration

Technology



TACT

Digital keyboard selector in die-cast aluminum, up to 250 codes storable



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Comfort:

Keys with backlit numbers clearly visible in the dark.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the keyboard. Large space dedicated to wiring.

Design:

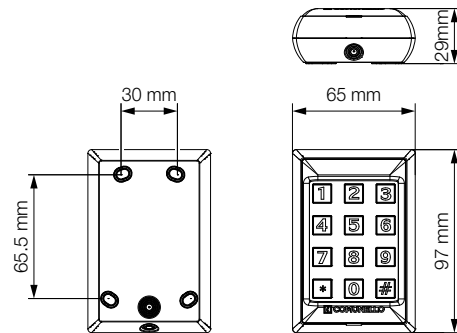
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position even after installation

Durability:

Structure completely in die-cast aluminum



◆	0101	☰	⚡	IP	📦	⚖️
TACT	GTACTSTDN0B00A	Digital keyboard selector, in aluminum (working via TACT DEC)	24 VDC/VAC	54	1	0,35 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

Gasket to protect the keyboard selector.

The 4 slotted holes allow adjustment of the position even after installation



Structure completely in die-cast aluminum

Cable passage arranged both at the bottom and at the rear of the selector.

Digital keyboard selector, radio version



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Comfort:

Keys with backlit numbers clearly visible in the dark.

Design:

New attractive design with no visible screws

Adjustment:

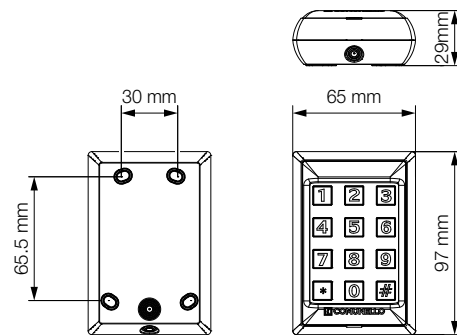
The slotted holes allow adjustment of the position even after installation

Durability:

High quality plastic material with anti-UV additives and embossed painting

Smart:

Up to 10 codes that can be memorized with the possibility of canceling and reprogramming the single code.



TACT RADIO	GTACTRADN0B00A	Digital keyboard selector, radio	24 VDC/VAC	54	1	0,15 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

Gasket to protect the keyboard selector.

The 4 slotted holes allow adjustment of the position even after installation



Structure in unshielded plastic material with anti-UV additives

TACT CARD

Digital transponder selector in die-cast aluminum, up to 250 memorable cards / TOKENS



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the selector. Large space dedicated to wiring.

Design:

New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position even after installation

Durability:

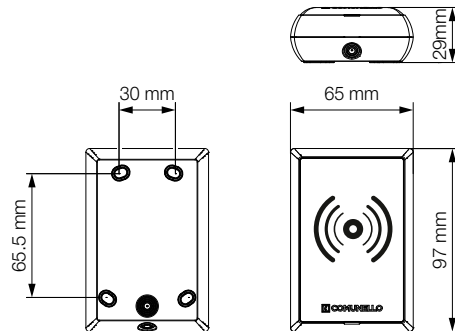
Structure completely in die-cast aluminum

Compatibility:

TACT TOKEN



TACT BADGE



TACT CARD	GTACTCARN0B00A	Digital transponder selector in aluminum (working via TACT DEC)	24 VDC/VAC	54	1	0,27 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.



Structure completely in die-cast aluminum



The 4 slotted holes allow adjustment of the position even after installation



Large space dedicated to wiring

Cable passage arranged both at the bottom and at the rear of the selector.

2 channels decoder for TACT / TACT-CARD



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the keyboard. Large space dedicated to wiring.

Design:

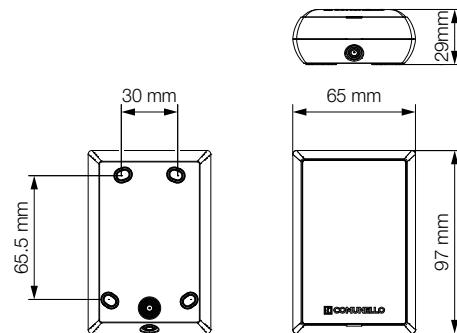
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position even after installation

Durability:

Structure completely in die-cast aluminum



TACT DEC	GTACTDECNOB00A	Decoder for TACT / TACT-CARD	24 VDC/VAC	54	1	0,27 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.



Structure completely in die-cast aluminum

Large space dedicated to wiring

The 4 slotted holes allow adjustment of the position even after installation



Cable passage arranged both at the bottom and at the rear of the decoder.

INDEX

Key selector



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the selector. Large space dedicated to wiring.

Design:

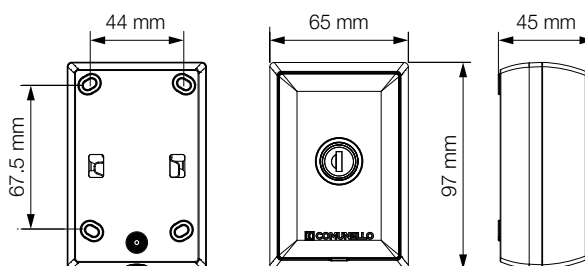
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position even after installation

Strength:

Structure completely in die-cast aluminum



◆	0101	☰	IP	📦	⚖️
INDEX	GINDEXSTN0B00A	Key selector with standard cylinder	54	1	0,28 Kg
INDEX BUS	GINDEXEUN0B00A	Key selector with standard cylinder One Technology	54	1	0,28 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

Structure completely in die-cast aluminum

The 4 slotted holes allow adjustment of the position even after installation



Large space dedicated to wiring

Cable passage arranged both at the bottom and at the rear of the selector.

Key selector with European cylinder



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the keyboard. Large space dedicated to wiring.

Design:

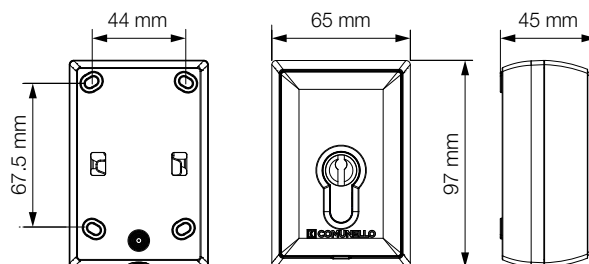
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position

Strength:

Structure completely in die-cast aluminum



			IP		
INDEX EU	GINDEXEUN0B00A	Key selector with European cylinder	54	1	0,36 Kg

A pre-assembled gasket protects the electronics from any entry of insects or water.

Structure completely in die-cast aluminum

The 4 slotted holes allow adjustment of the position even after installation



Large space dedicated to wiring

Cable passage arranged both at the bottom and at the rear of the selector.

INDEX INSERT

Recessed wall key selector



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the selector. Large space dedicated to wiring.

Design:

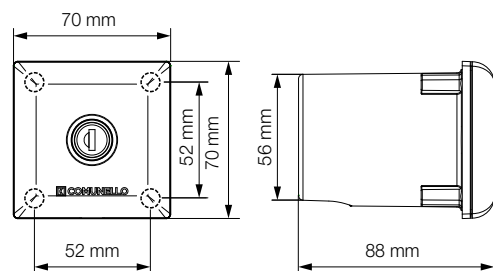
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position

Strength:

Structure completely in die-cast aluminum

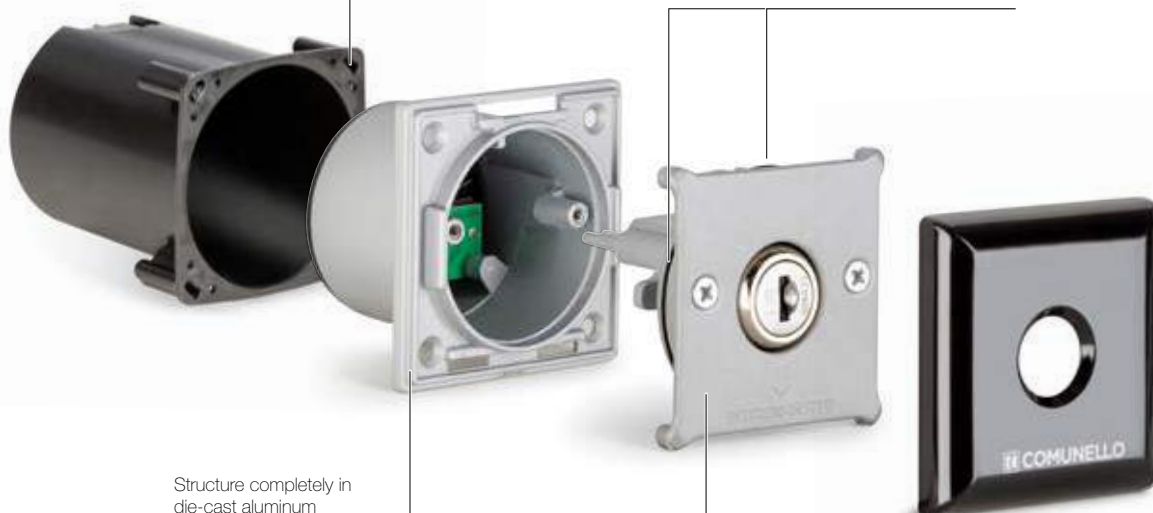


INDEX INSERT	GINSEXSTN0B00	Recessed wall key selector, adapter bowl included	IP 54	1	0,33 Kg
--------------	---------------	---	-------	---	---------

G-BOX	GBOXUNSTD0B00	Adapter bowl INDEX INSERT	20	0,025 kg
-------	---------------	---------------------------	----	----------

The slotted holes allow adjustment of the position even after installation

A pre-assembled gasket protects the electronics from any entry of insects or water. This gasket also separates the card from the 4 fixing screws and the cable passage.



Structure completely in die-cast aluminum

INDEX INSERT EURO

Recessed wall key selector with European cylinder



Protection:

Electronics protected by a preassembled gasket on a dedicated housing.

Simplicity and ease of installation:

Cable passage arranged both at the bottom and at the rear of the selector. Large space dedicated to wiring.

Design:

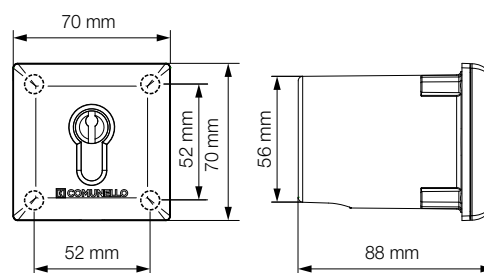
New attractive design with no visible screws

Adjustment:

The slotted holes allow adjustment of the position

Strength:

Structure completely in die-cast aluminum

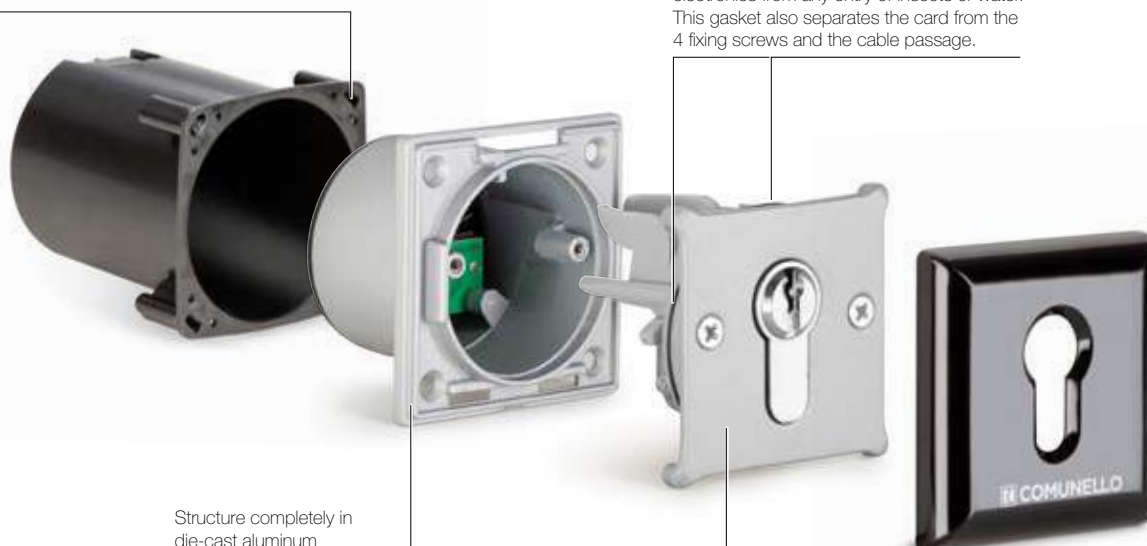


			IP		
INDEX INSERT EU	GINSEXEUN0B00	Recessed wall key selector with European cylinder adapter bowl included	IP 54	1	0,45 Kg

G-BOX	GBOXUNSTD0B00	Adapter bowl INDEX INSERT	20	0,025 kg

The slotted holes allow adjustment of the position even after installation

A pre-assembled gasket protects the electronics from any entry of insects or water. This gasket also separates the card from the 4 fixing screws and the cable passage.



Structure completely in die-cast aluminum

Complementary accessories



TACT BADGE





Compatible with: TACT CARD

				
TACT-BADGE	GTACTCRDN0B00A	BADGE for new TACT CARD	10	0,06 Kg



TACT TOKEN

Compatible with: TACT CARD

				
TACT-TOKEN	GTACTTKNN0B00A	TOKEN for new TACT CARD	10	0,06 Kg



 COMUNELLO



xi

Designed by Patrick Caseley

The first
truly original
signal light



Swift

Designed by Patrick Caseley

A new classic,
timeless design
timeless installation



Accessories

New generation led flashing light, 24VDC



Simplicity and ease of installation:

The flashing light can be installed both on the wall and horizontally. Ample space dedicated to wiring.

Design:

New captivating design: Ixi stands out for its ultra-original and futuristic design. Its perfect geometry diffuses light in an excellent way.

Adjustment:

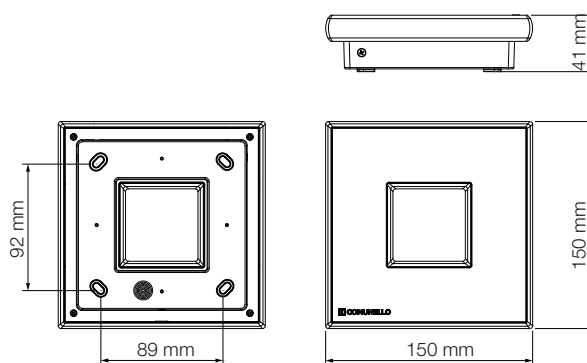
The slotted holes allow adjustment of the position even after installation

Durability:

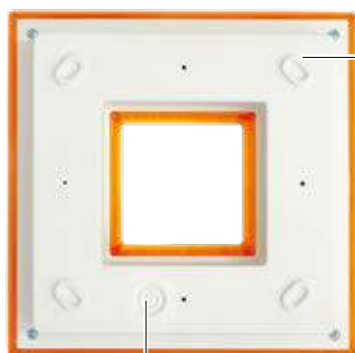
The board is protected by a painting against possible condensation or contact with insects. External stainless steel screws.

Protection:

The internal board is completely isolated both from the inside and outside of the flashing light.



IXI	GIILEDSTLYB00	Led flashing light 24 VDC	24V	IP 44	1	0,35 Kg
-----	---------------	---------------------------	-----	-------	---	---------



The 4 slotted holes allow adjustment of the position even after installation

Cable passage arranged in the lower part, not in view

The flashing light can be installed both on the wall and horizontally.



New generation led flashing light, 24VDC / 230VAC

Simplicity and ease of installation:

Extremely simple to install thanks to the easy access to the connection area, it can be powered at both 24Vdc and 230Vac. The flashing light can be installed both on the wall and horizontally.

Design:

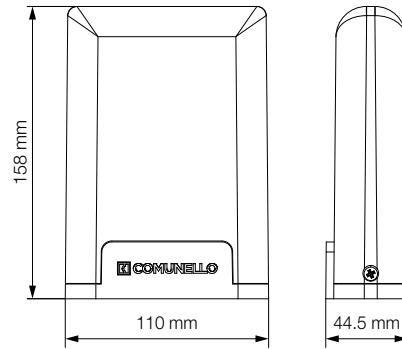
New captivating design: The Swift range is inspired by the concept of pure and discreet lines of the classic flashing warning lights.

Durability:

The board is protected by a painting against possible condensation or contact with insects. External stainless steel screws.

Bus Technology:

The bus technology allows you to name and manage the single flashing light.



◆	0101	☰	⚡	IP	📦	⚖️
SWIFT	GSWIFTSTLYB00A	Led flashing light 24 VDC / 230VAC	24V / 230V	IP 54	1	0,25 Kg

Integrated antenna



Card power supply both 24V and 230V

The flashing light can be installed both on the wall and horizontally, without need of additional brackets.




Cable passage arranged both at the bottom and at the rear of the flashing light.














REMOTE CONTROLS



VICTOR

 2 CHANNELS ROLLING CODE	VICTOR - 2 RC		Remote control, rolling code, 2 channels, grey	GVCTR2STN0G00	1 0,02 kg
	VICTOR - 2 RC		Remote control, rolling code, 2 channels, blue	GVCTR2STN0L00	1 0,02 kg
	VICTOR - 2 RC		Remote control, rolling code, 2 channels, red	GVCTR2STN0R00	1 0,02 kg
	VICTOR - 2 RC		Remote control, rolling code, 2 channels, green	GVCTR2STN0V00	1 0,02 kg
	VICTOR - 2 RC		Remote control, rolling code, 2 channels, yellow	GVCTR2STN0Y00	1 0,02 kg
 2 CHANNELS FIXED CODE	VICTOR - 2 SYNC		Remote control, fixed code with self learning copy, 2 channels, grey	GVCTR2SYN0G00	1 0,02 kg
	VICTOR - 2 SYNC		Remote control, fixed code with self learning copy, 2 channels, blue	GVCTR2SYN0L00	1 0,02 kg
	VICTOR - 2 SYNC		Remote control, fixed code with self learning copy, 2 channels, red	GVCTR2SYN0R00	1 0,02 kg
	VICTOR - 2 SYNC		Remote control, fixed code with self learning copy, 2 channels, green	GVCTR2SYN0V00	1 0,02 kg
	VICTOR - 2 SYNC		Remote control, fixed code with self learning copy, 2 channels, yellow	GVCTR2SYN0Y00	1 0,02 kg
 4 CHANNELS ROLLING CODE	VICTOR - 4 RC		Remote control, rolling code, 4 channels, grey	GVCTR4STN0G00	1 0,02 kg
	VICTOR - 4 RC		Remote control, rolling code, 4 channels, blue	GVCTR4STN0L00	1 0,02 kg
	VICTOR - 4 RC		Remote control, rolling code, 4 channels, red	GVCTR4STN0R00	1 0,02 kg
	VICTOR - 4 RC		Remote control, rolling code, 4 channels, green	GVCTR4STN0V00	1 0,02 kg
	VICTOR - 4 RC		Remote control, rolling code, 4 channels, yellow	GVCTR4STN0Y00	1 0,02 kg
 4 CHANNELS FIXED CODE	VICTOR - 4 SYNC		Remote control, fixed code with self learning copy, 4 channels, grey	GVCTR4SYN0G00	1 0,02 kg
	VICTOR - 4 SYNC		Remote control, fixed code with self learning copy, 4 channels, blue	GVCTR4SYN0L00	1 0,02 kg
	VICTOR - 4 SYNC		Remote control, fixed code with self learning copy, 4 channels, red	GVCTR4SYN0R00	1 0,02 kg
	VICTOR - 4 SYNC		Remote control, fixed code with self learning copy, 4 channels, green	GVCTR4SYN0V00	1 0,02 kg
	VICTOR - 4 SYNC		Remote control, fixed code with self learning copy, 4 channels, yellow	GVCTR4SYN0Y00	1 0,02 kg
	RADIO RECEIVER 433		Radio receiver, 2 channels, 433 MHz	GRESIVERN0G00	1 0,20 kg

VICTOR

 <p>2 CHANNELS ROLLING CODE 868,46 MHZ</p>	VICTOR - 868 - 2 RC 	Remote control, rolling code, 2 channels, 868,46 MHz, grey	GVCTR2S8N0G00	1	0,02 kg
	VICTOR - 868 - 2 RC 	Remote control, rolling code, 2 channels, 868,46 MHz, blue	GVCTR2S8N0L00	1	0,02 kg
	VICTOR - 868 - 2 RC 	Remote control, rolling code, 2 channels, 868,46 MHz, red	GVCTR2S8N0R00	1	0,02 kg
	VICTOR - 868 - 2 RC 	Remote control, rolling code, 2 channels, 868,46 MHz, green	GVCTR2S8N0V00	1	0,02 kg
	VICTOR - 868 - 2 RC 	Remote control, rolling code, 2 channels, 868,46 MHz, yellow	GVCTR2S8N0Y00	1	0,02 kg
 <p>4 CHANNELS ROLLING CODE 868,46 MHZ</p>	VICTOR - 868 - 4 RC 	Remote control, rolling code, 4 channels, 868,46 MHz, grey	GVCTR4S8N0G00	1	0,02 kg
	VICTOR - 868 - 4 RC 	Remote control, rolling code, 4 channels, 868,46 MHz, blue	GVCTR4S8N0L00	1	0,02 kg
	VICTOR - 868 - 4 RC 	Remote control, rolling code, 4 channels, 868,46 MHz, red	GVCTR4S8N0R00	1	0,02 kg
	VICTOR - 868 - 4 RC 	Remote control, rolling code, 4 channels, 868,46 MHz, green	GVCTR4S8N0V00	1	0,02 kg
	VICTOR - 868 - 4 RC 	Remote control, rolling code, 4 channels, 868,46 MHz, yellow	GVCTR4S8N0Y00	1	0,02 kg
	RADIO RECEIVER 868	Radio receiver, 2 channels, 868 MHz	GRESIVE8NOG00	1	0,20 kg












KIT VICTOR

N. 5 remote controls kit, rolling code, 2 channels, different colors	GVCTR2STN5C00	1	0,60 kg



VICTOR 55 CARBON FINISH

					
 2 CHANNELS	VICTOR 55 - 2 RC	Remote control, rolling code, 2 channels, CARBON finish	GVCTR2STNCC00	1	0,02 kg
	VICTOR 55 - 2 SYNC	Remote control, fixed code with self learning copy, 2 channels CARBON finish	GVCTR2SYNCC00	1	0,02 kg
 4 CHANNELS	VICTOR 55 - 4 RC	Remote control, rolling code, 4 channels, CARBON finish	GVCTR4STNCC00	1	0,02 kg
	VICTOR 55 - 4 SYNC	Remote control, fixed code with self learning copy, 4 channels CARBON finish	GVCTR4SYNCC00	1	0,02 kg
	RADIO RECEIVER 433	Radio receiver, 2 channels, 433 MHz	GRESIVERNOG00	1	0,20 kg



VICTOR 55
LIMITED EDITION

Accessories ONE TECHNOLOGY

Control board - ONE TECHNOLOGY














	QUAD-ONE-24-1M	Control board 1 motor 24 V, One Technology	G1QUAD1MLOG00	1	3,92 kg
	QUAD-ONE-24-2M	Control board 2 motors 24 V, One Technology	G1QUAD2MLOG00	1	4,25 kg
	K-ONE	Wi-Fi connection key, One Technology	G1KEYWIFLOG00	1	0,10 kg

Accessories - ONE TECHNOLOGY

















	DART BUS	Couple of photocells, One Technology	G1DARTSTN0B00A	1	0,15 kg
	DART-SLIM BUS	Rx + tx photocell One Technology	G1DARTSLN0B00A	1	0,12 kg
	DART ADJUSTABLE BUS	Couple of adjustable photocells, One Technology	G1DARTADN0B00A	1	0,25 kg
	DART INSERT BUS	Pair of recessed wall photocells, One Technology	G1DARTISN0B00A	1	0,20 kg
	AC-51	Back-up batteries, One Technology	G1BATTERLOG00A	1	1,30 Kg
	INDEX BUS	Standard key operated switch, One Technology	G1INDEXST0B00A	1	0,25 kg
	KIT INDEX BUS	Standard key operated switch - Kit no.2 pieces with the same cylinder, One Technology	G1INDEXSD0B00A	1	0,50 kg
	SWIFT ONE W	Flashing LED signal light 24V, One Technology, white	G1SWIFTSTWB00	1	0,26 kg
	I/O ONE	Interface I/O ONE	G1INTERFLOB00	1	0,50 kg
	AC-35	Signal amplifier for 433 MHz remote controls	GAMPLANTLOG00	1	0,2 kg

Accessories ONE TECHNOLOGY


















Columns for ONE TECHNOLOGY accessories

					
	MAST 50	Extruded aluminium column for DART, H = 50 cm	GMAST005N0G00A	1	2,20 kg
	MAST SLIM 50	Extruded aluminium column for DART SLIM, H = 50 cm	GMASTS05N0G00A	1	2,00 kg
	MAST 100	Extruded aluminium column for DART, H = 100 cm	GMAST010N0G00A	1	2,1 kg
	MAST 100 TWIN	Extruded aluminium column for 2 accessories, H = 100 cm	GMASTT10N0G00A	1	2,0 kg
	MAST SLIM 100	Extruded aluminium column for DART SLIM, H = 100 cm	GMASTS10N0G00A	1	2,1 kg
	AC-850	Column fixing KIT MAST NEW	GMASTKIT00Z02	1	0,9 kg
	AC-860	Column fixing KIT MAST NEW SLIM	GMASTKIT00Z01	1	0,9 kg






Accessories

					
	QUAD-24V-HP	HP Control board 1 or 2 motors 24 V	GQUADHP2LOG00	1 pz	3,7 Kg
	QUAD-230V-HP	HP Control board 1 or 2 motors 230 V	GQUADHP2HOG00	1 pz	3,1 Kg
	SWIFT	Led flashing light 24 VDC / 230VAC	GSWIFTSTLYB00A	1	0,26 kg
	IXI	Led flashing light 24 VDC	GSWIFTSTLWB00	1	0,26 kg
	DART	Couple of photocells	GDARTSTDN0B00A	1 kit	0,15 kg
	DART SYNC	Couple of photocells, synchronized version	GDARTSTDN1B00	1 kit	0,15 kg
	DART COVER	Vandalism protection in die-cast aluminum for: DART, DART SYNC, DART BUS	GCVRDSTSD0S00	1 kit	0,15 kg
	DART-SLIM	Couple of photocells, slim version	GDARTSLMN0B00A	1 kit	0,12 kg
	DART SLIM SYNCRO	Couple of photocells slim, synchronized version	GDARTSLMN1B00A	1 kit	0,12 kg
	DART COVER SLIM	Vandalism protection in die-cast aluminum for: DART SLIM, DART SLIM SYNC, DART SLIM BUS	GCVRDSSTD0S00	1 kit	0,15 kg














Accessories

					
	DART ADJUSTABLE	Couple of adjustable photocells	GDARTADJN0B00A	1 kit	0,25 kg
	DART ADJUSTABLE SYNC	Pair of adjustable photocells, synchronized version with range up to 15 m	GDARTADJN1B00A	1 kit	0,25 kg
	DART ADJUSTABLE BATTERY	Couple of adjustable photocells, with battery	GDARTBTTN0B00A	1 kit	0,20 kg
	DART ADJUSTABLE INDUSTRIAL	Pair of adjustable photocells with range up to 30 m	GDARTINDN0B00	1 kit	0,60 kg
	G-BOX	Adapter bowl for DART INSERT, INDEX INSERT/ INDEX INSERT EU	GBOXUNSTD0B00	20	0,025 kg
	DART INSERT	Pair of recessed wall photocells	GDARTINSN0B00	1 Kit	0,20 kg
	TACT	New digital switch with keypad	GTACTSTDN0B00A	1	0,39 kg
	TACT RADIO	Digital switch with radio-controller keypad	GTACTRADN0B00A	1	0,08 kg
	TACT CARD	New digital switch with transponder	GTACTCARN0B00A	1	0,30 kg
	TACT BADGE	BADGE for new Tact Card	GTACTCRDN0B00A	10	0,06 kg
	TACT TOKEN	TOKEN for new Tact Card	GTACTTKNN0B00A	10	0,06 kg












Accessories

					
	TACT DEC	New decoder for TACT / TACT-CARD	GTACTDECN0B00A	1	0,08 kg
	INDEX	Standard key operated switch	GINDEXSTN0B00A	1	0,25 kg
	KIT INDEX	Standard key operated switch - Kit no.2 pieces with the same cylinder	GINDEXSTD0B00A	1	0,50 kg
	INDEX EU	European key operated switch	GINDEXEUN0B00A	1	0,37 kg
	INDEX INSERT	Recessed wall key selector	GDARTINSN0B00	1	0,20 kg
	INDEX INSERT EU	Recessed wall key selector with European cylinder	GINSEXEUN0B00	1	0,45 Kg

















Accessories

					
	MAST 50	Extruded aluminium column for DART, H = 50 cm	GMAST005N0G00A	1	2,20 kg
	MAST SLIM 50	Extruded aluminium column for DART SLIM, H = 50 cm	GMASTS05N0G00A	1	2,00 kg
	MAST 100	Extruded aluminium column for DART, H = 100 cm	GMAST010N0G00A	1	2,1 kg
	MAST 100 TWIN	Extruded aluminium column for 2 accessories, H = 100 cm	GMASTT10N0G00A	1	2,0 kg
	MAST SLIM 100	Extruded aluminium column for DART SLIM, H = 100 cm	GMASTS10N0G00A	1	2,1 kg
	AC-850	Column fixing KIT MAST NEW	GMASTKIT00Z02	1	0,9 kg
	AC-860	Column fixing KIT MAST NEW SLIM	GMASTKIT00Z01	1	0,9 kg

Accessories

					
	AC-50	Back-up batteries	GBATTERYLOG00A	1	1,30 kg
	AC-52	Back-up batteries - RAMPART series	G2BATTERLOG00	1	1,40 kg
	AC-269 L= 1600	Pressure sensitive safety trim, L = 1600 mm	GB01SENS16B00	1	2,10 kg
	AC-269 L= 2000	Pressure sensitive safety trim, L = 2000 mm	GB01SENS20B00	1	2,00 kg
	AC-269 L= 2500	Pressure sensitive safety trim, L = 2500 mm	GB01SENS25B00	1	3,20 kg
	AC-269 8K2 L= 1600	Pressure sensitive safety trim, , with 8.2 kΩ resistance, L = 1600 mm	GB02SENS16B00	1	1,70 kg
	AC-269 8K2 L= 2000	Pressure sensitive safety trim, , with 8.2 kΩ resistance, L = 2000 mm	GB02SENS20B00	1	2,00 kg
	AC-269 8K2 L= 2500	Pressure sensitive safety trim, , with in-built 8.2 kΩ resistance, L = 2500 mm	GB02SENS25B00	1	2,30 kg
	AC-269 8K2 M L= 1600	Higher pressure sensitive safety trim, with incorporated 8.2 kΩ resistance, L = 1600 mm	GBM2SENS16B00	1	1,47 kg
	AC-269 8K2 M L= 2000	Higher pressure sensitive safety trim, with incorporated 8.2 kΩ resistance, L = 2000 mm	GBM2SENS20B00	1	1,80 kg
	AC-269 8K2 M L= 2500	Higher pressure sensitive safety trim, with incorporated 8.2 kΩ resistance, L = 2500 mm	GBM2SENS25B00	1	2,23 kg
	AC-269 RADIO L=1600	Pressure sensitive safety trim, radio, L=1600	GB03SENS16B00	1	2,10 kg
	AC-269 RADIO L=2000	Pressure sensitive safety trim, radio, L=2000	GB03SENS20B00	1	2,00 kg
	AC-269 RADIO L=2500	Pressure sensitive safety trim, radio, L=2500	GB03SENS25B00	1	3,20 kg
	AC-269 RX-RADIO	868 MHz radio receiver for pressure sensitive safety trim AC-269 RADIO	GB03SENSRXB00	1	0,1 kg
	AC-269 INT	Control board to wire up to 4 safety trim with resistance	GINTERBS00B00	1	0,1 kg

Accessories

					
	AC-10	12V Horizontal electric lock (compatible with CU 230 HP)	GINDEXORM0G00	1	1,7 kg
	AC-11	24V Horizontal electric lock (compatible with CU 24 HP)	GINDEXORM1G00	1	1,7 kg
	AC-20	12V Vertical electric lock (compatible with CU 230 HP)	GINDEXVRM0G00	1	1,4 kg
	AC-21	24V Vertical electric lock (compatible with CU 24 HP)	GINDEXVRM1G00	1	1,4 kg
	AC-110	Key operated emergency release	GCR001SCN0G00	1	1,2 kg
	AC-120	Kit cable release for traction slide L = 2,5 m	GCORD025N0B00	1	0,2 kg
	AC-130	Kit cable release for traction slide L = 9 m	GCORD090N0B00	1	0,7 kg
	AC-40	Safety signage table	GSAFETYTN0G00	1	0,05 kg
	AC-30-433	Outdoor antenna 433 MHz	GANTENNAN0G00	1	0,2 kg
	AC-30-868	Outdoor antenna 868 MHz	GANTENNAN8G00	1	0,2 kg
	AC-240	Inductive sensor	GINDUCT0N0G00	1	0,28 kg

GENERAL TERMS OF SALE

1. GENERAL INFORMATION

1.1 This document is intended for customers (hereinafter “Customers”) of FRATELLI COMUNELLO SPA (hereinafter simply COMUNELLO); its purpose is to inform customers about the contractual conditions that COMUNELLO shall apply in all the sales of its products (hereinafter GENERAL TERMS AND CONDITIONS OF SALE), unless otherwise agreed in writing, and which, in any case, are binding on and effective between the parties pursuant to art. 1341 of the Italian Civil Code.

1.2. COMUNELLO applies the Italian law in all contractual relationships involving the sale of its products, save for any specific derogations to be agreed and proved in writing.

1.3 The General Terms and Conditions of Sale listed here exclusively refer to products bearing the COMUNELLO trademark (hereinafter the “Products”).

2. OFFERS – QUOTES

2.1 The offers made by COMUNELLO to its Customers are effective for a maximum period of 20 (twenty) days from their submission; in any case they will have to be formalized in writing, including by email.

2.2. Upon expiry of the aforementioned deadline, the offer made by COMUNELLO shall be deemed cancelled and not acceptable by the CUSTOMER, unless otherwise specifically agreed in writing between the contracting parties

3. ORDERS

3.1 Purchase orders signed by the Customers and addressed to Comunello must be confirmed using the specific form prepared by Comunello (order confirmation), which each Customer has to sign and return to Comunello, precisely specifying the quantity of the goods bought and any additional features of the requested products.

3.2 The purchase contract shall be considered finalized and binding on the parties by means of:

- a) confirmation of the purchase order by FRATELLI COMUNELLO SPA;
- b) physical execution of the purchase order by FRATELLI COMUNELLO SPA, provided it is in compliance with the contents of the sale entered into between the parties.

3.3 Any amendment or addition to the individual provisions of the General Terms and Conditions of Sale or to the purchase order shall be ineffective unless approved in writing by COMUNELLO SPA. In the event changes are made to the purchase order after sending the form specified in paragraph 3.1., they shall have no effect if in the meantime Comunello has accepted the order or has implemented it in part; in any event, Comunello reserves the right to cancel the original purchase order and to suspend performance of the current one, requesting damages.

3.4 The Product delivery date specified in the purchase orders is always indicative and any delay of up to 30 days with respect to such deadline shall never constitute grounds for the CUSTOMER to claim damages against Comunello or to terminate the contractual relationship. More specifically, Comunello reserves the right to extend the delivery date due to unforeseeable circumstances or force majeure or in any case for circumstances that could not be foreseen at the time of the sale (for example, difficulty in procurement of raw materials and components); if prior to delivery, the CUSTOMER is in a difficult financial situation or changes its legal form, Comunello shall be entitled to suspend performance of, and possibly terminate the contract.

4. DELIVERY AND SHIPPING

4.1 The Products are delivered to the Customer at the production site or at the registered office of Comunello (hereinafter “Delivery”).

4.2 If the Products are delivered Ex-works Rosà or Cassola (VI) Incoterms 2021, the risk is transferred upon delivery of the Products by FRATELLI COMUNELLO SPA to the Customer or to the carrier, the CUSTOMER being in charge of the transportation costs.

4.3 Unless otherwise agreed, FRATELLI COMUNELLO SPA shall

establish, in the name and on behalf of the Customer, the type of shipment, the transport route and the carrier.

4.4 FRATELLI COMUNELLO SPA reserves the right to partially fulfil the purchase order or to partially deliver the products ordered. The Customer cannot raise any objection with regard to partial deliveries and/or deliveries made by instalments. All Partial deliveries shall be invoiced individually and the paMYent time limits shall run from the date of each invoice. The paMYent of partial Deliveries may not be deferred until completion of all the Deliveries related to the original purchase order. The provisions of Article 4.1 shall also apply to partial deliveries.

5. PRICES AND PRICE LISTS

5.1 The price is as specified in the last Comunello price list for the products delivered to the Customer, including normal packaging and excluding shipping costs (hereinafter the “Price”). The last price list issued by FRATELLI COMUNELLO SPA cancels all previous price lists and, unless otherwise agreed, it shall be applicable to the sale.

6. PAMYENT

6.1 PaMYent of the Price has to be made within the time limit agreed between the contracting parties. Failure to pay the price within the agreed time limit shall result in the application of interest for late paMYent in commercial transactions, to the extent provided by Legislative Decree No. 231 of 9.10.2002 as amended and supplemented. Default interest shall run from the expiry of the paMYent due date, subject to COMUNELLO’s right to seek compensation for any further damage.

6.2 The Customer may not make claims or raise objections against Comunello until the Price has been paid.

6.3 In the event of irregular paMYents, Comunello reserves the right to suspend the performance of all purchase orders, including those not affected by the delay or default by the CUSTOMER, without notice and with no right to compensation for the CUSTOMER.

7. RETURNS AND COMPLAINTS

7.1 Any complaints referring to either the quantity or the quality of the delivered Products must be made in writing within 8 (eight) days from receipt of the Products.

7.2 The Products returned shall be accepted by FRATELLI COMUNELLO SPA only after written agreement and exclusively with regard to new Products with their original packaging.

7.3 The Products must be returned using the appropriate transport document specifying the written permission of FRATELLI COMUNELLO SPA as well as the quantity and quality of the Products.

7.4 Returns shall not be considered accepted by FRATELLI COMUNELLO SPA unless they are returned in the manner specified above and, specifically, taking delivery of the Products at the headquarters or at the warehouses of FRATELLI COMUNELLO SPA may not be construed as acceptance of the returns.

7.5 The amount credited for returns not due to causes attributable to FRATELLI COMUNELLO SPA, shall be subject to a 30% deduction, to be regarded as a flat-rate assessment of the damage (penalty clause), charged to the Customer on account of the general, shipping, goods deterioration, age etc. costs incurred by COMUNELLO.

8. WARRANTY

8.1 In business relationships or in case of products sold for professional use, this warranty is limited to the repair or replacement of product parts that FRATELLI COMUNELLO SPA acknowledges as defective, through equivalent re-manufactured Products (the “Conventional Warranty”); the warranty does not include the costs necessary for repairing or replacing the material (e.g. labour costs, rental of equipment etc) .-

8.2 The provisions contained in articles 1490 to 1495 of the Italian Civil Code shall not apply.

8.3 FRATELLI COMUNELLO SPA warrants the proper operation of the products within the limits indicated in 8.1 above. Unless otherwise agreed,

the validity of the Conventional Warranty is 24 (twenty four) months from the production date, which can be found on the products. For actuator of the Showin line the warranty is 60 (sixty) months from the production date, while for the remaining products of the Automation Frame Line the warranty is 36 (thirty six) months from the production date. The Warranty shall be effective and binding on COMUNELLO only if the product has been correctly installed and maintained in accordance with the installation and safety rules set out in the documentation provided by COMUNELLO or otherwise available on the website www.comunello.com

8.4 The warranty does not cover: failures or damage caused by transport; failures or damage caused by defects in the electrical system of the buyer and/or by carelessness, negligence, inadequate or abnormal use of such system; failure or damage due to tampering carried out by unauthorized personnel or due to incorrect use / installation (in this regard, system maintenance at least every six months is recommended) or the use of non-original spare parts; defects caused by chemical agents and/or atmospheric phenomena. The warranty does not cover the cost of consumables; in any event, COMUNELLO shall be entitled to a consideration for the work performed at the Customer, where such work proves useless as the warranty did not apply or because the customer had used the Comunello product in a negligent, reckless or incompetent manner, such that the proper use of the product could have avoided the work.

8.5 Implementation terms: unless otherwise agreed, the right to the Conventional Warranty is exercised by showing a copy of the purchase document (invoice) to COMUNELLO. Any defect must be notified to COMUNELLO within the time limit of thirty (30) days from detection of the defect. The action must be exercised within the limitation period of 6 (six) months from detection of the defect. The Product parts for which the Customer requests application of the Conventional Warranty must be returned by the Customer to FRATELLI COMUNELLO SPA, Via Cassola 64, 36027 Rosà (VI) Italy.

8.6 The Customer cannot claim compensation for indirect damage, loss of profits, loss of production and in any case it cannot claim compensation for an amount that exceeds the value of the supplied components or products. All transport costs for Products that have been repaired or to be repaired, although covered by the Conventional Warranty, shall be charged to the Customer.

8.7 No external work carried out by Comunello technical staff is covered by the Conventional Warranty.

8.8 Specific amendments to the Conventional Warranty conditions described herein can be defined by the parties in their commercial contracts.

9. REPAIRS AFTER EXPIRATION OF THE WARRANTY

9.1 The Product repairs requested by the Customer shall be carried out by FRATELLI COMUNELLO SPA, subject to prior agreement on the cost of the work. In any case, labour and transport costs (return) shall be charged to the customer.

10. RESERVATION OF TITLE

10.1 The Products delivered to the CUSTOMER shall continue to be the property of FRATELLI COMUNELLO SPA until full paMYent of the Price by the Customer, regardless of who has possession of the Products. Transport costs and other costs necessary to recover the Products as well as extraordinary expenses and those that can be recovered, shall be charged to the Customer.

11. PATENTS, TRADEMARKS AND DISTINCTIVE MARKS

11.1 The Customer is aware that the Products are covered by patents and incorporate know-how and design that are the exclusive property of FRATELLI COMUNELLO SPA, pursuant to the Italian Industrial Property Code.

11.2 The Customer is expressly forbidden from infringing such FRATELLI COMUNELLO SPA's rights; in any case, the Customer may not in any way remove, delete or otherwise alter the trademarks or other signs or distinctive marks of any kind affixed to Products; the Customer

is likewise forbidden from affixing new ones of any kind. Any form of reproduction or use of the FRATELLI COMUNELLO SPA trademark and of any other distinctive mark on the Products is forbidden, without written authorization by

FRATELLI COMUNELLO SPA.

12. EXPRESS TERMINATION CLAUSE

12.1 Pursuant to article 1456 of the Italian Civil Code, any delay of more than ten days in the paMYent, or any non-paMYent of the Price, including partial, by the Client, as provided for in Article 6 of these General Terms and Conditions of Sale, shall result in termination of the purchase contract and FRATELLI COMUNELLO SPA shall be entitled to seek compensation from the Customer for the damage suffered, in addition to restitution of the Products not paid by the Customer.

12.2 The notice referred to in the previous paragraph shall be sent by registered mail with return receipt or via certified email address (Pec).

13. AGREEMENT BETWEEN THE PARTIES

13.1 Any agreements, existing or that will take place between FRATELLI COMUNELLO SPA and the Customer, in relation to returns and paMYent methods, shall prevail over the provisions of these General Terms and Conditions of Sale.

14. APPLICABLE LAW AND JURISDICTION

14.1 The purchase contracts entered into in accordance with the General Terms and Conditions of Sale are subject to Italian law only, with the exclusion of any other legislation.

14.2 All disputes that may arise on the mentioned purchase contracts shall be subject to Italian jurisdiction and referred to the exclusive competence of the Court of Vicenza, including if the agreed paMYent method is by bank collection order or draft payable at the customer's. (Italy). The content of this catalogue is subject to change at any time and without notice by FRATELLI COMUNELLO SPA.

(Italy). The content of this catalogue is subject to change at any time and without notice by FRATELLI COMUNELLO SPA.



Help Desk **+39 0424 585 111**

www.comunello.com

FRATELLI COMUNELLO S.P.A.

HEADQUARTERS

Via Zarpellon, 33
36027 San Giuseppe di Cassola, Vicenza, Italy
Tel. +39 0424 585111 Fax +39 0424 533417
info@comunello.it www.comunello.com

REGISTERED OFFICE

Via Cassola,64 - C.P.79
36027 Rosà, Vicenza, Italy
Tel. +39 0424 585111 Fax +39 0424 533417
info@comunello.it www.comunello.com