

Vimar Group: positive energy for highly developed systems.

Products, systems and solutions for controlling electricity, security and communication: Vimar Group offers all this and much more besides, ensuring continual improvement for every lifestyle. And all under the banner of a Made in Italy brand combining design and technology to deliver top reliability and universal well-being.

A range of residential series offering a wide variety of combinations in terms of design, materials and types of controls; Home Automation and Building Automation systems; numerous solutions for smart and secure management of video door entry, CCTV and automated access devices.

This is what the Vimar Group offers. An offering that reflects a long history built on tradition, expertise, commitment and passion for a chosen line of work.



Vimar Group. The five points of excellence.

MADE IN ITALY

The heart of the company - where we devise, design and produce products - is still located in the north-east of Italy, because we believe in the Made in Italy in all its forms. Our products are inspired by a truly unique combination of high quality aesthetics and reliable technology. From materials and design to electronic processing, we distinguish ourselves through a renowned style that speaks our language throughout the world.

HIGH QUALITY

We believe that the quality of our products is their best calling card, and this is why we test our products one by one. We are proud of our ownership of the most important quality certifications to UNI EN ISO 9001:2008; our environmental management system is certified to the UNI EN ISO 14001:2004 standard, without forgetting health and safety, with our work environment certified to the BS OHSAS 18001:2007 standards.



RESEARCH AND DEVELOPMENT

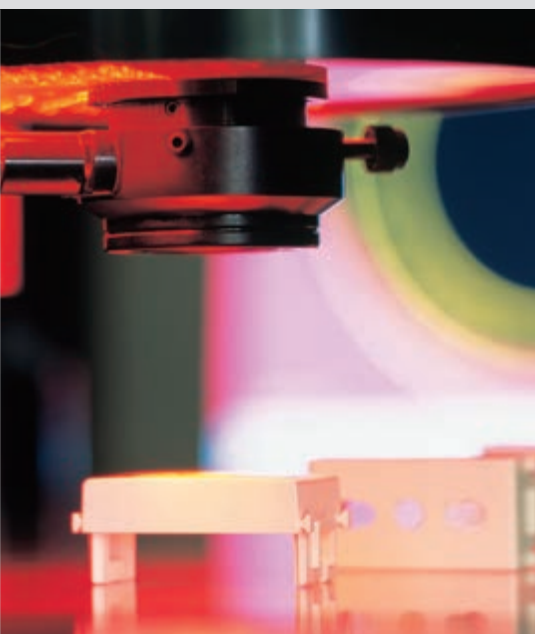
We invest 6% of our annual turnover in Research and Development, to ensure we always offer the very best in terms of technology and design. Over the years we have registered over 180 patents around the world that testify to the equal attention we devote to major innovation and the smaller details that guarantee the safety of simple everyday actions.

ENVIRONMENT

The correct waste material separation ensures the product designed at the outset of being totally dismantled and recycled at the end of its life. Thanks to the water based and UV-cross linked painting we reduce atmospheric emissions of VOCs (Volatile Organic Compounds) lower than the limits set out by the strictest European standards and galvanic bath treatment is replaced with the innovative and greener MSD (Magnetron Sputtering Deposition) treatment. The packaging is made of recycled materials and printed with water-based inks with no harmful substances and with ecological glues.

WE IMPLEMENT IDEAS

We have given shape and life to ideas in order to ensure continual improvement in every lifestyle. Today, for the all-round management of electrical systems, we have a complete range of products: wiring devices, home & building automation systems, video door entry and CCTV and gate automation systems, plugs, socket outlets and accessories. Over 9,000 items in the catalogue that combine aesthetic quality, technological reliability and ease of installation to bring them home to all our customers.



The universe of Vimar group solutions.

For large or small residential, commercial buildings or hospitality facilities, clinics or yachts, we have developed solutions that dialogue with each other, while maintaining their own specificity: technologically advanced

Wiring devices



Eikon



Arké



Plana

AESTHETIC AND FUNCTIONAL SOLUTIONS

Home automation



By-me



By-alarm



Radio frequency
controls



HOME AUTOMATION SYSTEM

functions and systems, which are explained in dedicated catalogues, complement each other with perfect aesthetic coordination to manage any building in the best way possible.

AUTOMATION SYSTEMS

Building automation

 **KNX**



WELL-CONTACT PLUS



NETSAFE



CALL-WAY



Video door entry

 **EDVAX**



Automation systems



CCTV


SOLUTIONS FOR ACCESS AND VIDEO CONTROL

Solutions for conventional systems

A useful summary table to guide you through the solutions for conventional systems. A wide range of functions for any installation requirement, spelled out in a series of preferential applications. Whatever your need Vimar Group always offers the best solution.

BURGLAR ALARM

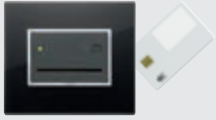
7



Everything you need to create a professional, efficient and complete intrusion detection alarm system, with **pre-configured devices** for systems with up to 24 or 64 zones.

ACCESS CONTROL


8



Transponder and smart card readers to control entry and restrict access to certain rooms.

PLUGS AND SOCKETS


9



A complete system of plugs, socket outlets multiple sockets for simple and professional purposes, adaptors, extension cords and cable reels.

VIDEO DOOR ENTRY


10



Solutions for video door entry system with a wide range of indoor units, entrance panels and controls for landing calls, to suit any building and simplify communication.

CONTROLS


1



For any aesthetic and functional need: touch, axial, rocker, infrared, and radio-frequency.




TEMPERATURE AND ENERGY MANAGEMENT

2



Solutions for thermoregulation and energy management: thermostats and time-thermostats to manage remotely the temperature of the house and view consumption for energy savings.

Preferential applications.

		1. CONTROLS	2. TEMPERATURE AND ENERGY MANAGEMENT	3. LIGHTING	4. EMERGENCY LIGHTING	5. POWER AND SIGNAL SOCKET OUTLETS	
SMALL RESIDENTIAL BUILDINGS (Small and medium-sized residential units, semi-detached houses and apartments)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LARGE RESIDENTIAL BUILDINGS (Large residential units, detached houses and lofts)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COMMERCIAL BUILDINGS (Small and medium-sized commercial units, shops and offices)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HOTEL BUILDINGS (Small and medium-sized hotel units, B&Bs, hotels, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SCHOOL BUILDINGS (Small and medium-sized school units, infant schools, elementary schools, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HEALTH CARE FACILITIES		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SHIPS AND YACHTS (Small boats, ships and yachts)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LIGHTING

3



Control devices for every type of source (halogen, CFL, LED) and for managing flush-mounted RGB lamps.

EMERGENCY LIGHTING

4



Emergency LED lighting devices with 1 or 3 modules, can be flush mounted, necessary in a black-out or as step lights.

POWER AND SIGNAL SOCKET OUTLETS

5



Devices to provide energy, from Italian and international standard power socket outlets, with SICURY protective shutter, to the power supply unit with USB socket.

SOUND SYSTEM

6



A complete sound system, compatible with MP3 players, iPod and iPhone too, it can be installed in conventional systems.

CCTV

11



Solutions for video surveillance: cameras with analog AHD and IP technologies, DVR, NVR video recorders and accessories.

GATE AUTOMATION

12



Specific solutions guaranteed to manage any access and control sliding gates, swing gates, garage doors, doors and windows and barriers.

STRUCTURED CABLING NETSAFE

13



Socket outlets, connectors and devices for transmitting data, videos and images inside and outside the building.

ANTIBACTERIAL DEVICES

14




Controls, socket outlets and cover plates with antibacterial treatment to ensure the utmost hygiene in public facilities.


6. SOUND SYSTEM	7. BY-ALARM BURGLAR ALARM	8. ACCESS CONTROL	9. PLUGS AND SOCKETS	10. VIDEO DOOR ENTRY	11. CCTV	12. GATE AUTOMATION	13. STRUCTURED CABLING	14. ANTIBACTERIAL DEVICES
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Automation solutions for the home and small business sectors.

The By-me home automation system offers four areas of application with a wide range of functions and can be deployed alongside other specific systems, giving added value to your project. See the summary table to check the versatility of our home automation solutions.


HOME AUTOMATION


CONTROL




Sophisticated technology that controls all the functions of the dwelling both centrally by a single control device and room by room via local devices, over the Internet with PCs, tablets and smartphones of the latest generation.

COMFORT



Lighting, scenarios, sound system, moving curtains or roller shutters: each room in the home is an oasis of well-being where you can find the comfortable conditions you prefer.


ENERGY EFFICIENCY



Temperature control, management of energy consumptions, water and gas are optimized with innovative technology that optimizes energy efficiency, reducing waste.







BY-ALARM

BURGLAR ALARM



Total protection guaranteed by the stand-alone By-alarm system, expandable with a wide range of devices; the system can also be integrated with By-me home automation, for continuous, diffused and intelligent control. Certified CEI EN 50131 (grade 2).

Preferential applications.

		HOME AUTOMATION			
		BY-ME			BY-ALARM
		CONTROL	COMFORT	ENERGY EFFICIENCY	BURGLAR ALARM
RESIDENTIAL BUILDINGS (Small and medium-sized residential units, semi-detached houses and apartments)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMERCIAL BUILDINGS (Small and medium-sized commercial units: offices, shops, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HOTEL BUILDINGS (Small and medium-sized hotel units: hotels, B&Bs, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC BUILDINGS (Small and medium-sized school units: infant schools, elementary schools, churches, gymnasiums, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HEALTH CARE FACILITIES (Small and medium-sized health care units: nursing homes, convalescent homes, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHIPS AND YACHTS (Small boats)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VIDEO DOOR ENTRY



Solutions for video door entry system with a wide range of indoor units, entrance panels and controls for landing calls, to suit any building and simplify communication.

CCTV



Solutions for video surveillance: cameras with analog AHD and IP technologies, DVR, NVR video recorders and accessories.

GATE AUTOMATION



Specific solutions guaranteed to manage any access and control sliding gates, swing gates, garage doors, doors and windows and barriers.

STRUCTURED CABLING NETSAFE



Socket outlets, connectors and devices for transmitting data, videos and images inside and outside the building.

	VIDEO DOOR ENTRY	CCTV	GATE AUTOMATION	NETSAFE
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		

Solutions for the building trade and large residential structures.

The Well-contact Plus system — developed to KNX standard to communicate with the other systems in the building — offers four areas of application with a wide range of functions and can be deployed alongside other systems to cover every practical need.

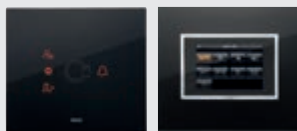
WELL-CONTACT PLUS

CONTROL



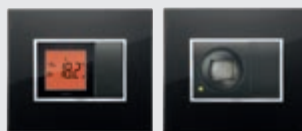
A wide range of products for controlling and supervising scenarios, lights and roller shutters in single rooms or in the entire building.

COMFORT



Solutions that guarantee well-being in all the rooms in the facility: lights, automation systems and temperature are controlled with simplicity and tailored to suit the preferences of guests.

ENERGY EFFICIENCY



The system allows intelligent management of energy use in the facility: for example, by switching on lights and activating temperature control only where and when necessary, according to the number of guests in the rooms or the required lighting levels.

SECURITY/SAFETY



The security and safety of rooms is important: access control also covers situations where entry is subject to payment of admission charges.

Preferential applications.

		WELL-CONTACT PLUS			
		CONTROL	COMFORT	ENERGY EFFICIENCY	SECURITY/SAFETY
LARGE RESIDENTIAL BUILDINGS (Large residential units, detached houses and lofts)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMERCIAL BUILDINGS (Large commercial units: shopping malls, business centres, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HOTEL BUILDINGS (Large hotel units: hotels, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC BUILDINGS (Large school units: high schools, universities, churches, gymnasiums, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HEALTH CARE FACILITIES (Large health care units: hospitals, clinics, etc.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHIPS AND YACHTS (Ships and yachts)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Use the summary table to find your type of project and you will see that the Vimar offering is truly comprehensive, covering large residential and commercial buildings, and hospitality or healthcare facilities of whatever size.

VIDEO DOOR ENTRY



Solutions for video door entry system with a wide range of indoor units, entrance panels and controls for landing calls, to suit any building and simplify communication.

CCTV



Solutions for video surveillance: cameras with analog AHD and IP technologies, DVR, NVR video recorders and accessories.

GATE AUTOMATION



Specific solutions guaranteed to manage any access and control sliding gates, swing gates, garage doors, doors and windows and barriers.

STRUCTURED CABLEING NETSAFE



Socket outlets, connectors and devices for transmitting data, videos and images inside and outside the building.

EMERGENCY CALLS CALL-WAY

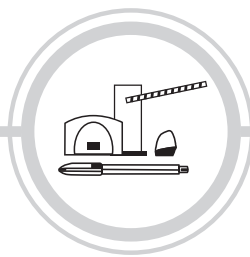


Emergency call devices for alerting healthcare staff and monitoring patients, controls, socket outlets and cover plates all finished with antibacterial treatment.

	VIDEO DOOR ENTRY	CCTV	GATE AUTOMATION		NETSAFE	CALL-WAY
	■	■	■		■	
	■	■	■		■	
	■	■	■		■	
	■	■	■		■	
	■	■	■		■	■
		■				

Automatic gate systems: new generation performance.

Elvox automatic gate systems have been designed to give the best in terms of quality, performance and safety. They all comply with European safety standards and this is bolstered by the use of materials which guarantee high performance levels and durability, a design enhancing the visual aspect of the product and the application of precise and reliable mechanics. For truly perfect access control.



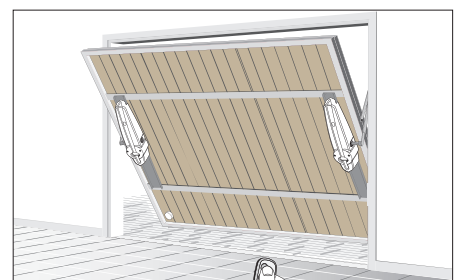
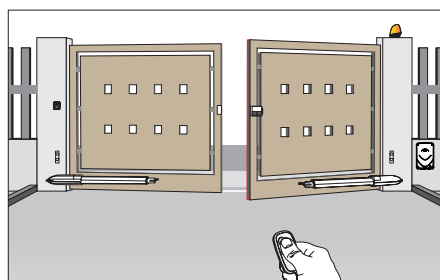
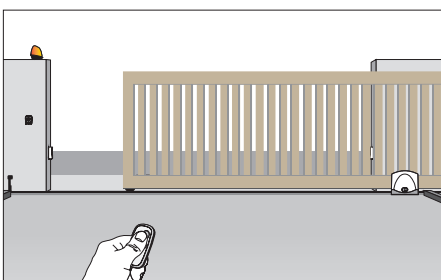
ACTO
FOR SLIDING GATES



EKKO/HIDDY
FOR SWING AND
UNDERGROUND SWING GATES



KLYS
FOR GARAGE DOORS





Range



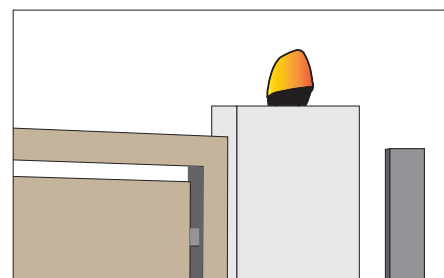
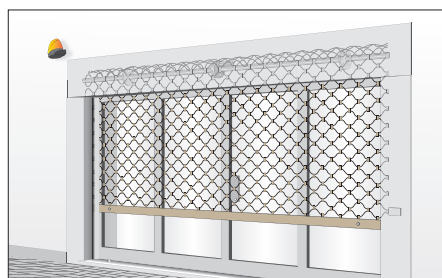
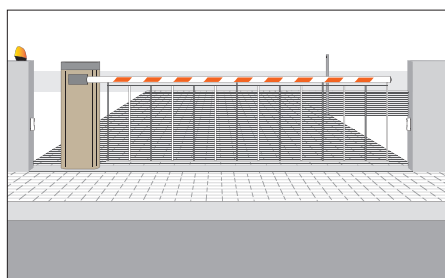
FRAGMA
FOR BARRIERS



AUTOMATION SYSTEMS FOR
WINDOWS AND DOORS

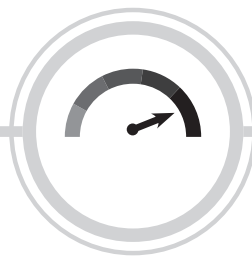


ACCESSORIES



High performance with solutions for every field of application.

Elvox has created a range of automation systems for sliding or swing gates, garage doors, road barriers, rolling doors and roller shutters. Each one of these solutions is the product of painstaking in-depth research aimed at offering high performance levels in addition to unparalleled precision and reliability.



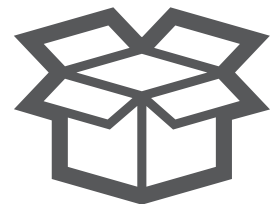
TECHNOLOGY

The adopted technologies ensure safe installation and high performance of the automation system. The 12 Vdc, 24 Vdc and 230 Vac motor drives support frequent use with a high number of operating cycles, they offer extra precision in terms of obstacle detection and movement control and management and they enable creating systems which conform to European standards EN 12445 and EN 12453.



WI-FI CONTROL PANEL WITH WIRELESS PROGRAMMING

Increasingly intelligent products to make installation easier: new electronic control cards with Wi-Fi configuration and programming, for full gate control, and the Wi-Fi connection module for connecting the electronic card to your smartphone or tablet.



SOLUTIONS IN KIT

All the many years of Elvox experience in the field of automatic gate systems concentrated into one kit. Ideal solutions to meet all installation requirements through a comprehensive offering that simplifies the installation work while ensuring the high performance that distinguishes our products.



Performance



Applications



SAFE MECHANICS AND LOWERING ENERGY

In a truly efficient automatic gate system there is a robust, precise and silent mechanism enclosed in die-cast aluminium bodies. The polyester painted plastic parts ensure strength and resistance to all weather conditions.

The Lowering Energy system reduces consumption through the automatic management of standby phases, therefore allowing a greater number of actions even when the mains power supply has been cut off.



FOR RESIDENTIAL AND COMMERCIAL USE

A safe, comfortable and elegant entrance is certainly the best welcome you can give yourself and your guests. Constant comings and goings in a multi-family dwelling put the capacity of an automation system to the test several times each day. For this reason Elvox offers a range of reliable and safe products featuring silent mechanisms.

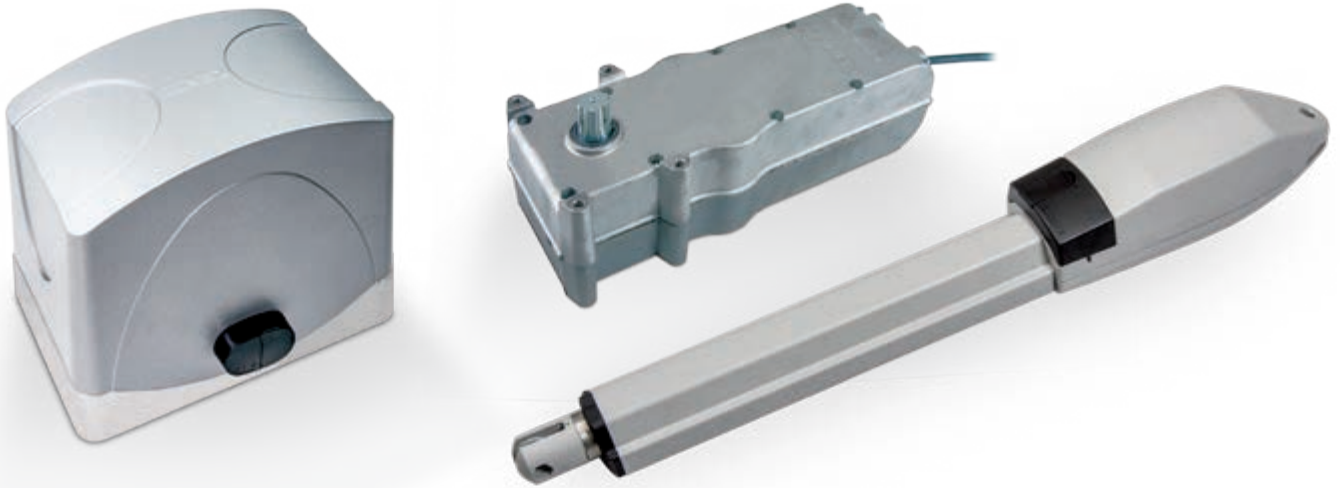


FOR TERTIARY AND INDUSTRIAL USE

In places such as business and shopping centres, large public and private buildings, small or large enterprises or car parks, it is essential to control access quickly and smoothly while ensuring safety. The Elvox offering enables automating gates and road barriers with durable technologies able to support a high number of operating cycles without sacrificing precise and quiet operation.

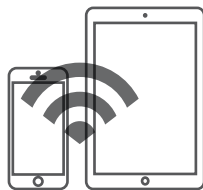
The **Wi-Fi** programming.

The option of configuring and programming the control panel via the Wi-Gate app enables Elvox automated systems for sliding or swinging gates to be installed easily and immediately directly from a smartphone or tablet. This innovative system makes your job much easier by enabling accurate programming directly from your van without the need to crouch down in the mud.



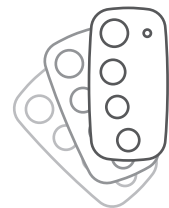
With easy, intuitive programming.

A new way of combining speed and comfort of work and installation, through the immediate configuration of all the functions from your smartphone or tablet using the intuitive interface on the Wi-Gate app.



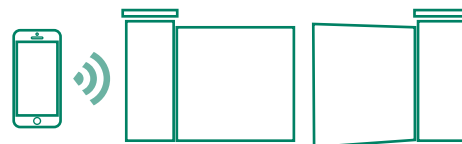
Optimised working with guaranteed results.

This solution allows you to optimise your work and save time, not only on initial programming but also and above all if the installation needs to be reprogrammed, as all the configurations are stored in a database, which can be called up at any time and shared with colleagues.



Intelligent remote control management.

The Wi-Gate app can also be used to manage a set of remote controls. With easy and immediate programming and duplication, replacements become child's play.



Wi-Gate app

Total control.

From your smartphone or tablet using the Wi-Gate app, you can programme control panels, duplicate settings on different installations and diagnose any problems via a Wi-Fi connection. The app is available free of charge for iOS and Android operating systems.

Intuitive interface.

The Wi-Gate app interface is clear and simple, guiding installers step by step in the installation with intuitive explanations.



Cloud data backup. For sharing data that is always up-to-date.

The Wi-Gate app automatically records every update on the installations database, aligning the data so it can be shared with all the teams working on any job.



Continuous accessibility. Ensuring perfect work organisation.

All the work teams can access the installations database at any time, so they can use up-to-date programming and configuration data quickly and easily. In this way, maintenance jobs can be quickly organised, saving time when reprogramming the installation.



Kit solutions for sliding or swinging gates.

A range of kits are available for both sliding and swinging gates, with wireless control panel programming for quick and easy installation.

Acto **Sliding Gates.**

Gear motors complete with built-in electronic control unit, compact but powerful. They are fitted with accessories useful for creating functional and safe installations on residential or large-scale sliding gates.





Technical specifications

Standard automation for sliding gates

- For sliding gates between 400 and 2200 kg
- 12, 24 and 230 V motors
- Weatherproof painted cover
- Die-cast aluminium base
- Encoder system for obstacle detection
- Steel gears, lubricated with permanent grease
- Emergency battery in 12 V and 24 V versions
- Simple, easily accessible manual release

Automation with Wi-Fi programming:

- As the standard one, for sliding gates up to 600 kg and with 24 V actuator and emergency battery



Wi-Gate app

Ekko and Ekko Art **Swinging Gates.**

Extremely strong motors made of high quality materials, for guaranteed operation over time. Diversified by their type of installation and application, they are ideal for large gates.

Linear

Vast range of operators, diversified according to motion transmission system and aesthetic solutions, covering application on gate leaves up to 5 m long. Solutions suitable for residential applications as well as more intensive and industrial use.



Technical specifications

Standard automation for swinging gates

- 12, 24 and 230 V motors
- Weatherproof painted die-cast aluminium body
- Encoder system for obstacle detection
- Steel gears, lubricated with permanent grease
- Adjustable brackets for easy installation of operators; also useful when creating different gate leaf opening widths
- Emergency battery in 12 V and 24 V versions
- Manual release if the power supply is cut off, practical and accessible

Automation with Wi-Fi programming:

- As the standard one, with 24 V actuator and emergency battery



Wi-Gate app



Articulated arm

These drive units are easy to install and ideal for the automation of gates with large pillars and posts or where the installation measurements do not allow the use of linear operators.

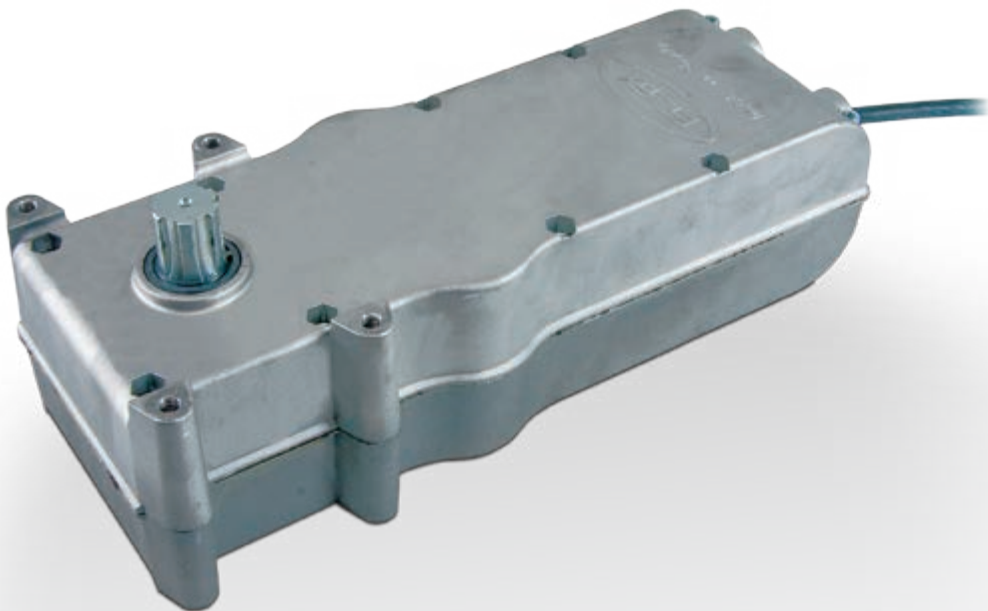


Hiddy **Swinging Gates.**

Extremely strong motors that can be installed underground, made of high quality materials, perfectly watertight, and with strong load-bearing foundation casings for large gate mechanisms.

Underground

The most elegant solution, ideal for design enthusiasts who want to retain the original appearance of their gates without sacrificing power and performance





Technical specifications

Standard automation for swinging gates

- 24 and 230 V motors
- Weatherproof painted die-cast aluminium body
- Strong and perfectly watertight die-cast aluminium structure
- Encoder system for obstacle detection
- Steel gears, lubricated with permanent grease
- Strong load-bearing foundation casings for a solid and reliable installation, highly durable
- Emergency battery in the 24 V version
- Manual release if the power supply is cut off, practical and accessible

Automation with Wi-Fi programming:

- As the standard one, with 24 V actuator and emergency battery



Wi-Gate app

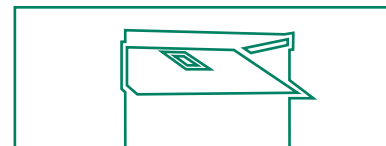
Klys garage Doors.

Custom solutions for all types of garage door. All of which help to increase comfort and safety when moving from an outdoor environment to an indoor one.

For up-and-over doors

For doors up to 12 m², quick and easy to install. They offer silent, smooth and safe movement without strain.





For sectional doors

Equipped with a low-voltage motor and belt tracks for the quietest operation. For doors up to 12 m².



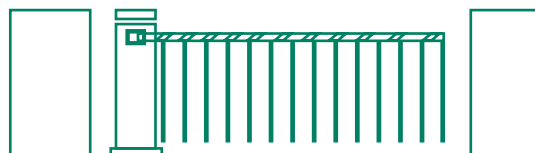
Technical specifications

- Motors with LED lighting
- Activation button
- Encoder system for obstacle detection
- Silent and innovative transmission mechanisms
- Simple programming with automatic self-learning
- Door speed adjustment
- 24 V emergency battery

Fragma **Barriers.**

A range of barriers to control access to places or routes with high levels of traffic. Solutions featuring extremely fast opening and closing even when the passages are very wide. Opening can be made automatic thanks to a vehicle detection system.





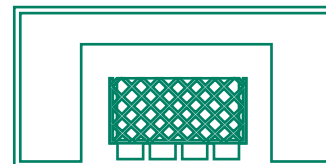
Technical specifications

- Different solutions with 230 V motors
- Weatherproof painted sheet steel body
- Bronze and steel gears to guarantee long-term operation
- Can be used in conjunction with booms of various sizes
- Slow down and limit switches adjustment

Automation for windows and doors.

For the automation of rolling shutters, rolling doors, sun shades and windows simply by adding a cylindrical motor. Control takes place via a switch in the immediate vicinity. Installation is extremely simple, and it only takes a moment to automate existing mechanisms.





Technical specifications

- Motor power supply 230 V
- Mechanical screw limit switches
- Available with or without manual release
- Motor thermal protection

Accessories

The series of complementary products combines superb aesthetics with even safer and more complete control of the various functions. A complete range of technologically advanced accessories with a compact and elegant design, which fit perfectly into any environment or installation.

Remote control

Elegant, slim and compact. Features buttons that can be paired with different functions for opening the gate and other accessory functions. Available in white.

Key switch

Equipped with a strong die-cast aluminium structure which leaves room for connections to make installation easier. It is a surface wall-mounted component with double contacts.

Keypad

Featuring LED backlighting and a buzzer, it can manage up to 60 users via numeric codes between 4 and 9 digits long. Housed in a die-cast aluminium enclosure, it is available in two versions - wireless or wired - with a protected electronic component.

Flashing light

Made with 12, 24, 230 V LED technology for maximum durability without any maintenance. The shockproof polycarbonate cover provides excellent visibility while the extremely small housing is made of high-strength material.

Photocells

Adjustable through 180° for use in any application context and on small columns. Available as a wall-mount pair, the receiver and transmitter are installed in plastic shock-resistant weatherproof housings.



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SLIDING
ACTO

EKKO AND EKKO ART SWINGING

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SWING EKKO AND
EKKO ART

HIDDY SWINGING

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SWING
HIDDY

KLYS UP-AND-OVER AND SECTIONAL

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UP-AND-OVER AND
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BARRIERS
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AUTOMATION FOR
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ACCESSORIES
AND SPARE PARTS


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Gate automation

Selection guide

Automation systems for sliding gates								Boards / Control panels	
Series	Photo	Operator	Power supply	Electric motor power supply	Gate leaf weight (max.)	KIT	Kit contents	R code: Replacement Boards E code: Control panels	
								Trimmer	Display
ACTO 400D		ESM1	230 Vac	12 Vdc	400 kg	EK01	Operator, Flashing light, 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS01 - 12 V	RS02 - 12 V
		ESM1.120	120 Vac			-			
ACTO 404D		ESM7	120÷230 Vac	24 Vdc	400 kg	EK14	Operator, Flashing light, 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS16 - 24 V	-
					EK14.AL	Operator, 2-channel remote control and Pair of photocells			
ACTO 500A		ESM3	230 Vac	230 Vac	500 kg	EK03.EXP	Operator, Flashing light, 2 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS09 - 230 V	-
		ESM3.120	120 Vac	120 Vac		-		RS09.120 - 120 V	
		ESM3.D	230 Vac	230 Vac		-		-	
ACTO 510A		ESM8	230 Vac	230 Vac	500 kg	EK16.EXP	Operator, Flashing light, 2 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS20 - 230 V	-
						EK16.AL	Operator, 2-channel remote control and Pair of photocells		
ACTO 600D		ESM2	230 Vac	24 Vdc	600 kg	EK02.EXP	Operator, Flashing light, 2 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS05 - 24 V	-
						EK02.AL	Operator, 2-channel remote control and Pair of photocells		
		ESM2.120	120 Vac			EK02.EXP.120	Operator, Flashing light, 2 2-channel remote control, Pair of photocells, Fixing plate and Warning sign		
		ESM2.D	230 Vac			EK02.D.EXP	Operator, Flashing light, 2 4-channel remote control, Pair of photocells, Fixing plate and Warning sign	-	RS06 - 24 V
		ESM2.W	230 Vac			EK02.W.EXP	Operator, Flashing light, 2 4-channel remote control, Pair of photocells, Fixing plate and Warning sign	-	SL24.W - 24 V
ACTO 800A		ESM4	230 Vac	230 Vac	800 kg	EK04	Operator, Flashing light, 2-channel remote control, Pair of photocells, Key switch, Fixing plate and Warning sign	RS09 - 230 V	-
		ESM4.120	120 Vac	120 Vac		-		RS09.120 - 120 V	
		ESM4.D	230 Vac	230 Vac		-		-	
ACTO 810A		ESM9	230 Vac	230 Vac	800 kg	EK17.EXP	Operator, Flashing light, 2 2-channel remote control, Pair of photocells, Fixing plate and Warning sign	RS20 - 230 V	-
						EK17.AL	Operator, 2-channel remote control and Pair of photocells		
ACTO 1400A		ESM5	230 Vac	230 Vac	1400 kg	-		RS09 - 230 V	-
		ESM5.120	120 Vac	120 Vac				RS09.120 - 120 V	
		ESM5.D	230 Vac	230 Vac				-	
ACTO 2200A		ESM6	230 Vac	230 Vac	2200 kg	-		RS09 - 230 V	-
		ESM6.120	120 Vac	120 Vac				RS09.120 - 120 V	
		ESM6.D	230 Vac	230 Vac				-	

Gate automation









Selection guide

Flashing warning lights		Remote controls 433 MHz		Key switches				Keypads	Pair of photocells			Low profile posts		Sensitive safety edges		
LED		Channels		24 V 1A		230 V 16A		12/24 V	Range			Height		Type		
12/24 V	230 V	2	4	Flush-mount	Wall-mount	Wall-mount	Wall-mount & Euro cylinder	Wall-mount	15 m	25 m	30 m	500 mm	1000 mm	8K2	With micro-switch	Passive
 ELA5 5 W	 ELA6 with 5 W built-in selectable flashing	 ETA1 Code set to self- learning.	 ETR6 Rolling code and courtesy light		 EDE4 Low profile, can also be installed on posts EE12 and EE14	 EDS1 Wall- mount, can also be installed on posts EE22	 EDP2	 EDT1 Wired, backlit, up to 60 users. Wall- mount, can also be installed on posts EE22	 EFA3 12/24 V Wall- mount, can also be installed on posts EE21 and EE22		 EF01.1 12/24 V Flush- mounted	 EE01 For EF02 photo- cells	 EE12 For EF04/S photo- cells and EDE4 selector	 EZE07.GA Sensitive safety edge 0.7 m	 EZP07.GA Sensitive edge with NC contact, 0.7 m	 EZA20 Sensitive edge 2 m
 ELA7 with 5 W built-in selectable flashing	 ELA7 with 5 W built-in selectable flashing	 ET03 Code set to dip- switch	 ET04 Codice fisso a dip- switch	 ED01	 EDE5 Pair of low profile selectors with identical keys, can also be installed on posts EE12 and EE14	 EDS2 Wall- mount, can also be installed on posts EE22	 EDS3 Wall- mount, can also be installed on posts EE22	 EDT2 Wireless, backlit, up to 60 users. Wall- mount, can also be installed on posts EE22	 EFA1 12/24 V Low profile Wall-mount 180° adjustment Can also be installed on posts EE21 and EE22	 EFA2 12/24 V Wall-mount 180° adjustment	 EF02.1 12/24 V Can be installed on posts EE01 and EE02	 EE11 For EF04/S photo- cells	 EE14 For EDE4 selector	 EZE10.GA Sensitive safety edge 1 m	 EZP10.GA Sensitive edge with NC contact, 1 m	
		 ETR5 Rolling code	 ETR4 Rolling code						 EF04/S Low profile Wall-mount Can also be installed on posts EE11 and EE12			 EE21 For EFA1 or EFA3 photo- cells	 EE22 For EFA1 or EFA3 photo- cells and EDS1, EDS2 or EDS3 selector	 EZE18.GA Sensitive safety edge 1.8 m	 EZP18.GA Sensitive edge with NC contact, 1.8 m	

Gate automation












































Selection guide






Linear automation systems for swing gates								Boards / Control panels		
Series	Photo	Operator	Power supply	Electric motor power supply	Gate leaf lenght (max) Gate leaf weight (max)	KIT	Kit contents	R code: Replacement Boards E code: Control panels		
								Trimmer	Display	
EKKO 200D		EAM1	230 Vac	12 Vdc	2 m 200 kg	EK05	2 operators, Control panel, Flashing light, 2-channel remote control, Pair of photocells and Warning sign	RS03 - 12 V ECA1 - 12 V	RS04 - 12 V	
			120 Vac			EK05.120		RS03 - 12 V ECA1.120 - 12 V		
EKKO 204D		EAM7	120÷230 Vac	24 Vdc	2 m 200 kg	EK15.P	2 operators, Control panel, Flashing light, 2-channel remote control, Pair of photocells and Warning sign	RS17.P - 24 V ECA9.P - 24 V	-	
						EK15.AL		RS17 - 24 V ECA9 - 24 V		
EKKO 300A		EAM8.L EAM8.R	230 Vac	230 Vac	3 m 200 kg	EK18.EXP	Left + Right hand operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS11 - 230 V ECA8 - 230 V	-	
						EK18.AL				Left + Right hand operators, Control panel, 2-channel remote control, and Pair of photocells
EKKO 300D		EAM2	230 Vac	24 Vdc	3 m 300 kg	EK06.EXP	2 operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS07 - 24 V ECA5 - 24 V	-	
			120 Vac			EK06.EXP.120		RS07 - 24 V ECA5.120 - 24 V		
			230 Vac			EK06.AL	2 operators, Control panel, 2-channel remote control, and Pair of photocells	RS07 - 24 V ECA5 - 24 V		
			230 Vac			EK06.D.EXP	2 operators, Control panel, Flashing light, 2 4-channel remote control, Pair of photocells and Warning sign	-		RS08 - 24 V ECA5.D - 24 V
						EK06.W.EXP				SW24.W - 24 V ECA5.W - 24 V
EKKO 350A		EAM4	230 Vac	230 Vac	3.5 m 400 kg	EK08.EXP	2 operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS11 - 230 V ECA8 - 230 V	-	
		EAM4.120	120 Vac	120 Vac		-	RS11.120 - 230 V ECA8.120 - 230 V			
EKKO 400A		EAM9.L EAM9.R	230 Vac	230 Vac	4 m 200 kg	-	-	RS11 - 230 V ECA8 - 230 V	-	
EKKO 400D		EAM3	230 Vac	24 Vdc	4 m 250 kg	EK07.EXP	2 operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS07 - 24 V ECA5 - 24 V	-	
			120 Vac			EK07.EXP.120		RS07 - 24 V ECA5.120 - 24 V		
			230 Vac			EK07.AL	2 operators, Control panel, 2-channel remote control, and Pair of photocells	RS07 - 24 V ECA5 - 24 V		
			230 Vac			EK19.EXP	1 operator, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS07 - 24 V ECA5 - 24 V		
			120 Vac			EK19.EXP.120		RS07 - 24 V ECA5.120 - 24 V		
			230 Vac			EK07.D.EXP	2 operators, Control panel, Flashing light, 2 4-channel remote control, Pair of photocells and Warning sign	-		RS08 - 24 V ECA5.D - 24 V
						EK07.W.EXP				SW24.W - 24 V ECA5.W - 24 V
EKKO 500A		EAM4.L	230 Vac	230 Vac	5 m 500 kg	EK08.L	2 operators, Control panel, Flashing light, 2-channel remote control, Pair of photocells, Key switch and Warning sign	RS11 - 230 V ECA8 - 230 V	-	

Gate automation

Selection guide







































Flashing warning lights		Remote controls		Key switches				Keypads	Pair of photocells			Low profile posts		Sensitive safety edges		
LED		Channels		24 V 1A		230 V 16A		12/24 V	Range			Height		Type		
12/24 V	230 V	2	4	Flush-mount	Wall-mount	Wall-mount	Wall-mount & Euro cylinder	Wall-mount	15 m	25 m	30 m	500 mm	1000 mm	8K2	With micro-switch	Passive
 ELA5 5 W	 ELA6 with 5 W built-in selectable flashing	 ETA1 Code set to self-learning.	 ETR6 Rolling code and courtesy light		 EDE4 Low profile, can also be installed on posts EE12 and EE14	 EDS1 Wall-mount, can also be installed on posts EE22	 EDP2	 EDT1 Wired, backlit, up to 60 users. Wall-mount, can also be installed on posts EE22	 EFA3 12/24 V Wall-mount, can also be installed on posts EE21 and EE22			 EE01 For EF02 photocells	 EE02 For 2 EF02 photocells	 EZX16 Sensitive safety edge 1.6 m	 EZP16 Sensitive edge with NC contact, 1.6 m	
		 ET03 Code set to dip-switch	 ET04 Codice fisso a dip-switch	 ED01					 EFA1 12/24 V Low profile Wall-mount 180° adjustment Can also be installed on posts EE21 and EE22	 EFA2 12/24 V Wall-mount 180° adjustment		 EE11 For EF04/S photocells	 EE12 For EF04/S photocells and EDE4 selector	 EZX07.GA Sensitive safety edge 0.7 m	 EZP07.GA Sensitive edge with NC contact, 0.7 m	 EZA20 Sensitive edge 2 m
 ELA7 with 5 W built-in selectable flashing	 ELA7 with 5 W built-in selectable flashing				 EDE5 Pair of low profile selectors with identical keys, can also be installed on posts EE12 and EE14	 EDS2 Wall-mount, can also be installed on posts EE22	 EDS3 Wall-mount, can also be installed on posts EE22	 EDT2 Wireless, backlit, up to 60 users. Wall-mount, can also be installed on posts EE22			 EF02.1 12/24 V Can be installed on posts EE01 and EE02		 EE14 For EDE4 selector	 EZX10.GA Sensitive safety edge 1 m	 EZP10.GA Sensitive edge with NC contact, 1 m	
		 ETR5 Rolling code	 ETR4 Rolling code						 EF04/S Low profile Wall-mount Can also be installed on posts EE11 and EE12			 EE21 For EFA1 or EFA3 photocells	 EE22 For EFA1 or EFA3 photocells and EDS1, EDS2 or EDS3 selector	 EZX12.GA Sensitive safety edge 1.2 m	 EZP12.GA Sensitive edge with NC contact, 1.2 m	
													 EE22 For EFA1 or EFA3 photocells and EDS1, EDS2 or EDS3 selector	 EZX18.GA Sensitive safety edge 1.8 m	 EZP18.GA Sensitive edge with NC contact, 1.8 m	

Selection guide

Articulated automation systems for swing gates								Boards / Control panels	
Series	Photo	Operator	Power supply	Electric motor power supply	Gate leaf lenght (max) Gate leaf weight (max)	KIT	Kit contents	R code: Replacement Boards E code: Control panels	
								Trimmer	Display
EKKO ART 200D		EAM5.N	230 Vac	24 Vdc	2 m 200 kg	EK09.N	MASTER + SLAVE operator, 2 levers, Flashing light, 2-channel remote control, Pair of photocells, Key switch and Warning sign	RS12 - 24 V	-
		EAM5.N (MASTER) + EAM6.N (SLAVE)							
Underground automation systems for swing gates								Boards / Control panels	
HIDDY 200D		EIM1	230 Vac	24 Vdc	2 m 200 Kg	EK10.EXP	2 operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS07 - 24 V ECA5 - 24 V	RS08 - 24 V ECA5.D - 24 V
						EK10.W.EXP	2 operators, Control panel, Flashing light, 2 4-channel remote control, Pair of photocells and Warning sign	-	SW24.W - 24 V ECA5.W - 24 V
HIDDY 350A		EIM2	230 Vac	230 Vac	3.5 m 400 Kg	EK11.EXP	2 operators, Control panel, Flashing light, 2 2-channel remote control, Pair of photocells and Warning sign	RS11 - 230 V ECA8 - 230 V	-
		EIM2.120	120 Vac	120 Vac		-	RS11.120 - 230 V ECA8.120 - 230 V		
		EIM2.180	230 Vac	230 Vac		-	RS11 - 230 V ECA8 - 230 V		

Gate automation

Selection guide

Flashing warning lights		Remote controls		Key switches				Keypads	Pair of photocells			Low profile posts		Sensitive safety edges		
LED		433 MHz Channels		24 V 1A		230 V 16A		12/24 V	Range			Height		Type		
12/24 V	230 V	2	4	Flush-mount	Wall-mount	Wall-mount	Wall-mount & Euro cylinder	Wall-mount	15 m	25 m	30 m	500 mm	1000 mm	8K2	With micro-switch	Passive
 ELA5 5 W	 ELA6 with 5 W built-in selectable flashing	 ETA1 Code set to self- learning.	 ETR6 Rolling code and courtesy light		 EDE4 Low profile, can also be installed on posts EE12 and EE14	 EDS1 Wall- mount, can also be installed on posts EE22	 EDP2	 EDT1 Wired, backlit, up to 60 users. Wall- mount, can also be installed on posts EE22	 EFA3 12/24 V Wall- mount, can also be installed on posts EE21 and EE22			 EE01 For EF02 photo- cells	 EE02 For 2 EF02 photo- cells	 EZX16 Sensitive safety edge 1.6 m	 EZP16 Sensitive edge with NC contact, 1.6 m	
 ELA7 with 5 W built-in selectable flashing	 ELA7 with 5 W built-in selectable flashing	 ET03 Code set to dip- switch	 ET04 Codice fisso a dip- switch	 ED01		 EDE5 Pair of low profile selectors with identical keys, can also be installed on posts EE12 and EE14	 EDS2 Wall- mount, can also be installed on posts EE22	 EDS3 Wall- mount, can also be installed on posts EE22	 EDT2 Wireless, backlit, up to 60 users. Wall- mount, can also be installed on posts EE22	 EFA1 12/24 V Low profile Wall-mount 180° adjustment Can also be installed on posts EE21 and EE22	 EFA2 12/24 V Wall-mount 180° adjustment	 EE11 For EF04/S photo- cells	 EE12 For EF04/S photo- cells and EDE4 selector	 EZX07.GA Sensitive safety edge 0.7 m	 EZP07.GA Sensitive edge with NC contact, 0.7 m	 EZA20 Sensitive edge 2 m
		 ETR5 Rolling code	 ETR4 Rolling code						 EF04/S Low profile Wall-mount Can also be installed on posts EE11 and EE12			 EE21 For EFA1 or EFA3 photo- cells	 EE22 For EFA1 or EFA3 photo- cells and EDS1, EDS2 or EDS3 selector	 EZX12.GA Sensitive safety edge 1.2 m	 EZP12.GA Sensitive edge with NC contact, 1.2 m	
														 EZX18.GA Sensitive safety edge 1.8 m	 EZP18.GA Sensitive edge with NC contact, 1.8 m	












































Gate automation

Selection guide

Automation systems for counterweighted garage doors								Boards / Control panels	
Series	Photo	Operator	Power supply	Electric motor power supply	Dimensions (max)	KIT	Kit contents	R code: Replacement Boards E code: Control panels	
								Trimmer	Display
KLYS 9CD		EBM1	230 Vac	24 Vdc	9 m²	EK12	Operators and 2-channel remote control	RS13 - 24 V	-
		EBM1 (MASTER) + EBM2 (SLAVE)			12 m²		-		
Automation systems for sectional garage doors								Boards / Control panels	
KLYS 9SD		ENM1	230 Vac	24 Vdc	9 m²	-		RS18 - 24 V	-
KLYS 12SD		ENM2	230 Vac	24 Vdc	12 m²	-		RS19 - 24 V	
Automation systems for road barriers								Boards / Control panels	
Series	Photo	Operator	Power supply	Electric motor power supply	Arm length (max.)	KIT	Kit contents	Trimmer	Display
FRAGMA 4A		EBR1	230 Vac	230 Vac	4 m	-		RS15 - 230 V	-
FRAGMA 6A		EBR2	230 Vac	230 Vac	6 m	-			



Gate automation

Selection guide

Flashing warning lights		Remote controls 433 MHz		Key switches				Keypads	Pair of photocells			Low profile posts		Sensitive safety edges		
LED		Channels		24 V 1A		230 V 16A		12/24 V	Range			Height		Type		
12/24 V	230 V	2	4	Flush-mount	Wall-mount	Wall-mount	Wall-mount & Euro cylinder	Wall-mount	15 m	25 m	30 m	500 mm	1000 mm	8K2	With micro-switch	Passive
 ELA5 5 W	 ELA6 with 5 W built-in selectable flashing	 ETA1 Code set to self-learning.	 ETR6 Rolling code and courtesy light		 EDE4 Low profile, can also be installed on posts EE12 and EE14	 EDS1 Wall-mount, can also be installed on posts EE22	 EDP2	 EDT1 Wired, backlit, up to 60 users. Wall-mount, can also be installed on posts EE22	 EFA3 12/24 V Wall-mount, can also be installed on posts EE21 and EE22			 EE01 For EF02 photocells	 EE02 For 2 EF02 photocells	 EZX16 Sensitive safety edge 1.6 m	 EZP16 Sensitive edge with NC contact, 1.6 m	
		 ET03 Code set to dip-switch	 ET04 Codice fisso a dip-switch	 ED01					 EFA1 12/24 V Low profile Wall-mount 180° adjustment Can also be installed on posts EE21 and EE22	 EFA2 12/24 V Wall-mount 180° adjustment		 EE11 For EF04/S photocells	 EE12 For EF04/S photocells and EDE4 selector	 EZX07.GA Sensitive safety edge 0.7 m	 EZP07.GA Sensitive edge with NC contact, 0.7 m	 EZA20 Sensitive edge 2 m
 ELA7 with 5 W built-in selectable flashing	 ELA7 with 5 W built-in selectable flashing				 EDE5 Pair of low profile selectors with identical keys, can also be installed on posts EE12 and EE14	 EDS2 Wall-mount, can also be installed on posts EE22	 EDS3 Wall-mount, can also be installed on posts EE22	 EDT2 Wireless, backlit, up to 60 users. Wall-mount, can also be installed on posts EE22			 EF02.1 12/24 V Can be installed on posts EE01 and EE02		 EE14 For EDE4 selector	 EZX10.GA Sensitive safety edge 1 m	 EZP10.GA Sensitive edge with NC contact, 1 m	
		 ETR5 Rolling code	 ETR4 Rolling code						 EF04/S Low profile Wall-mount Can also be installed on posts EE11 and EE12			 EE21 For EFA1 or EFA3 photocells	 EE22 For EFA1 or EFA3 photocells and EDS1, EDS2 or EDS3 selector	 EZX12.GA Sensitive safety edge 1.2 m	 EZP12.GA Sensitive edge with NC contact, 1.2 m	
													 EE22 For EFA1 or EFA3 photocells and EDS1, EDS2 or EDS3 selector	 EZX18.GA Sensitive safety edge 1.8 m	 EZP18.GA Sensitive edge with NC contact, 1.8 m	

Gate automation




Selection guide

Automation systems for rolling doors					
Photo	Operator	Electric motor power supply	Arm length (max.)	KIT	Kit contents
	ZP08	230 Vac	160 kg	ERK1	Operator, Dead-man control panel and Key switch
	ZP09	230 Vac	160 kg	ERK2	Operator, Control panel, Flashing lights, Flashing lights support, 2-channel remote control, Pair of photocells and Key switch with manual release

Automation systems for shades, rolling shutters and awnings							
Photo	Operator	Electric motor power supply	Torque max	Command	Limit switch	Adapters	Notes
	EV15/35	230 Vac	6 Nm	Wired	Mechanical	Octagonal Ø 40 mm	
	EV20/45	230 Vac	10 Nm	Wired	Mechanical	Octagonal Ø 60 mm	
	EV40/45		20 Nm				
	EV60/45		40 Nm				
	EV80/45		50 Nm				
	EV30/45	230 Vac	20 Nm	Wired	Mechanical	Octagonal Ø 60 mm	With override manual operation
	EV50/45		40 Nm				
	EV70/45		50 Nm				
	EV45ER/10	230 Vac	10 Nm	Radio	Electronic		
	EV45ER/20		20 Nm				
	EV45ER/30		30 Nm				
	EV45ER/40		40 Nm				
	EV45ER/50		50 Nm				

Gate automation

Selection guide

Automation systems for windows					
Photo	Operator	Electric motor power supply	Force (max.)	Travel	Drives
	EG30/N	230 Vac	300 N	200/380 mm	Chain
	EG30/N24	24 Vdc	300 N	200/380 mm	
	EG30/G	230 Vac	300 N	200/380 mm	
	EG50	230 Vac	500 N	150/200/250/320 mm	Rack



ACTO: automation for sliding gates




Gate automation - ACTO series







Selection guide of automations for sliding gates

SLIDING
ACTO

Residential use													
Gate weight	Frequency of use	Power supply	Electric motor power supply	Encoder	Limit switches	Control board	Receiver	Operator	Kit	Photo	Series		
400 kg	50%	230 Vac	12 Vdc	Magnetic	Stop on mechanical stops	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM1	EK01		ACTO 400D		
		120 Vac						ESM1.120	-				
		120÷230 Vac	24 Vdc	Magnetic	Magnetic			ESM7	EK14		ACTO 404D		
									EK14.AL				

Residential and commercial use												
Gate weight	Frequency of use	Power supply	Electric motor power supply	Encoder	Limit switches	Control board	Receiver	Operator	Kit	Photo	Series	
500 kg	60%	230 Vac	230 Vac	-	Electromechanical	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM3	EK03.EXP		ACTO 500A	
		120 Vac	120 Vac			ESM3.120		-				
		230 Vac	230 Vac			Display		ESM3.D	-			
500 kg	50%	230 Vac	230 Vac	Magnetic	Magnetic	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM8	EK16.EXP		ACTO 510A	
									EK16.AL			
600 kg	100%	230 Vac	24 Vdc	Magnetic	Magnetic	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM2	EK02.EXP		ACTO 600D	
		120 Vac				Display			ESM2.120			EK02.EXP.120
		230 Vac							ESM2.D			EK02.D.EXP
									ESM2.W			EK02.W.EXP

Tertiary and industrial use											
Gate weight	Frequency of use	Power supply	Electric motor power supply	Encoder	Limit switches	Control board	Receiver	Operator	Kit	Photo	Series
800 kg	60%	230 Vac	230 Vac	Optical	Electromechanical	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM4	EK04		ACTO 800A
		120 Vac	120 Vac			Display		ESM4.120	-		
		230 Vac	230 Vac			Display		ESM4.D	-		
800 kg	60%	230 Vac	230 Vac	Magnetic	Magnetic	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM9	EK17.EXP EK17.AL		ACTO 810A
1400 kg	60%	230 Vac	230 Vac	Optical	Electromechanical	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM5	-		ACTO 1400A
		120 Vac	120 Vac			Display		ESM5.120	-		
		230 Vac	230 Vac			Display		ESM5.D	-		
2200 kg	60%	230 Vac	230 Vac	Optical	Electromechanical	Trimmer & dip	Built-in 433 MHz rolling code or fixed code	ESM6	-		ACTO 2200A
		120 Vac	120 Vac			Display		ESM6.120	-		
		230 Vac	230 Vac			Display		ESM6.D	-		

Gate automation - ACTO series



Automation for sliding gates

12 V automation system for sliding gates, max. 400 kg

Automation system for sliding gates used in residential applications. Operator with die-cast aluminium base, painted cover to guarantee maximum weatherproofing. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 400 kg
- manual release protected by an encrypted key, which can be used to open and close the gate if the power supply is cut off
- **internal housing** of the battery charger and battery to allow operation if the power supply is cut off
- RS01 control board for 1 motor, integrated in the operator
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX16 included into the kit EK01

12 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	12
Power (W)	170
Absorption (A)	14
Gate leaf weight (kg)	400
Adjustable speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	308x288x270
Weight (kg)	10.8
Frequency of use (%)	50

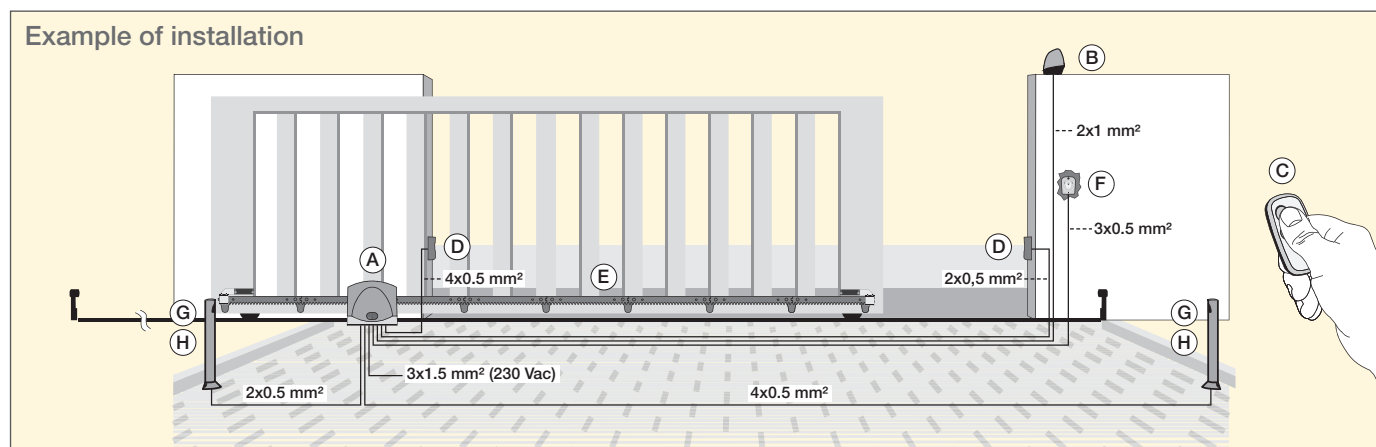
12 V dip switch control board

- 1 motor electronic control card RS01, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- LED for input diagnostics
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- courtesy light output
- programmable phototest function

Components for creating a complete system with ESM1 or EK01 kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK01	Description	Article	Ref.	Qty
Operator	ESM1	A	1	YES	Key switch	EDS1	F	1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR5	C	1	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES	Battery charger	ECB5		1
Rack	ZE03/1	E	4 (4 m)	NO	Battery 12 V 7 Ah	ZBA1		1

Example of installation



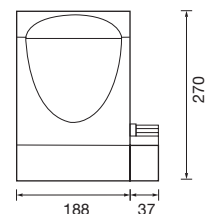
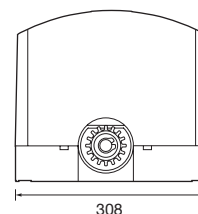
Gate automation - ACTO series



Automation for sliding gates

12 V automation system for sliding gates, residential use

ESM1	ACTO 400D non-reversible 12 V electromechanical operator for sliding gates up to 400 kg, residential use, electronic control card, 433 MHz radio receiver, magnetic encoder, transformer, complete with fixing plate
ESM1.120	As above, 120 Vac power supply



ESM1
ESM1.120

SLIDING
ACTO

Kit for sliding gates up to 400 kg

EK01	Kit ACTO 400D for sliding gates up to 400 kg. Containing: - 1 ESM1 ACTO 400D irreversible 12 Vdc electromechanical operator - 1 ELA5 12/24 Vdc LED flashing light with built-in antenna - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of photocells adjustable by 180° - 1 ZX20 warning sign - 1 ZX16 fixing plate
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EK01

Control cards spare parts

RS01	Electronic control card with built-in 433 MHz radio receiver for 12 V sliding automation systems for ACTO series operators
RS02	Display electronic control card with built-in 433 MHz radio receiver for 12 V sliding automation systems for ACTO series operators
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS01



RS02



ESAC

Gate automation - ACTO series



Automation for sliding gates

24 V automation system for sliding gates, max. 400 kg

Automation system for sliding gates used in residential applications. Operator with base made of die-cast aluminium. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 400 kg and max length 6 m
- manual release protected by a triangular key, which can be used to open and close the gate if the power supply is cut off
- internal housing of the batteries to allow operation if the power supply is cut off
- RS16 control board for 1 motor, integrated in the operator
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX82 included into the kit EK14

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	140
Absorption (A)	6
Gate leaf weight (kg)	400
Adjustable speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	295x185x270
Weight (kg)	6
Frequency of use (%)	50
Maximum gate length (m)	6

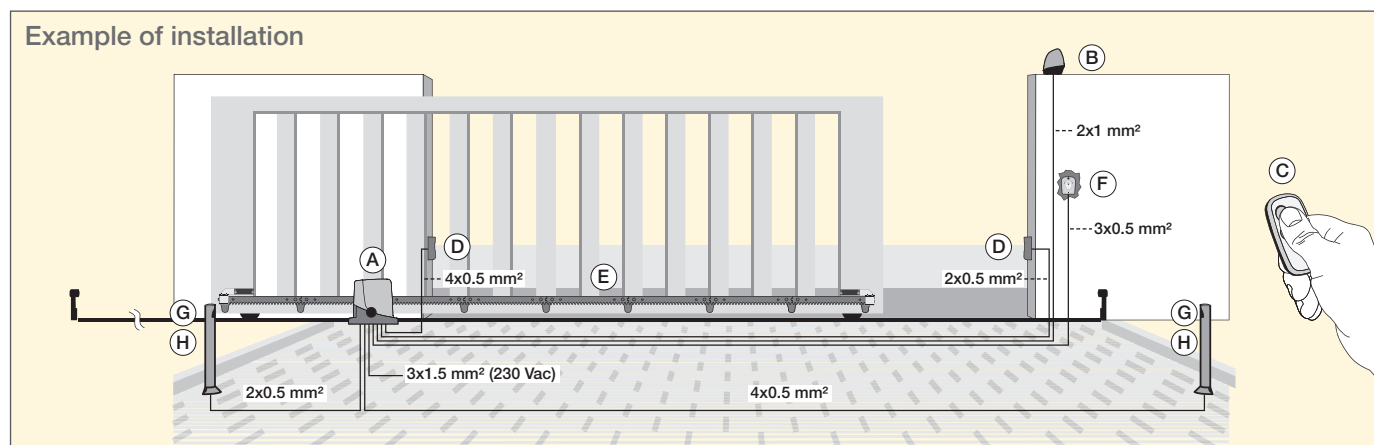
24 V dip switch control card

- 1 motor electronic control card RS16, with easy and fast programming, built-in radio receiver, weather resistant
- switching-mode power supply for maximum energy saving on stand-by and the smoothest operation of the automatic gate system
- battery charger built into the board. It permits operation when there is no mains power by simply connecting 2 Pb 1.3 Ah batteries (batteries can be housed in the operator)
- direct cabling for NC safety edge EZP or 8K2 type EZS with optional control card ECR2.FL
- radio receiver for 50 remote control codes (fixed or rolling code)
- LED for input diagnostics
- automatic travel programming
- pedestrian opening
- programmable phototest function

Components for creating a complete system with ESM7 or EK14 kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK14	Description	Article	Ref.	Qty
Operator	ESM7	A	1	YES	Key switch	EDS1	F	1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA3	G	1
Remote control	ETR5	C	1	YES	Posts	EE21	H	2
Wall-mount photocells	EFA3	D	1	YES	Pack of 2 batteries 12 V 1.3 Ah and wiring harness	ZBA7		1
Rack	ZE03/1	E	4 (4 m)	NO				

Example of installation



Gate automation - ACTO series



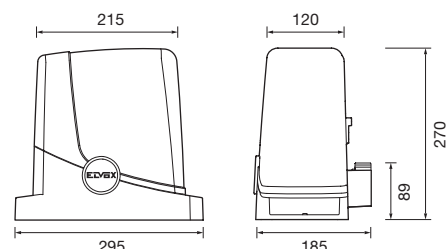
Automation for sliding gates

24 V automation system for sliding gates, residential use

ESM7	ACTO 404D - Non-reversible 24 V electromechanical operator for sliding gates up to 400 kg, residential use, electronic control card with built-in power supply unit and battery charger, 433 MHz radio receiver, magnetic limit switches, magnetic encoder, complete with fixing plate
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ESM7



SLIDING
ACTO

Kit for sliding gates up to 400 kg

EK14	Kit ACTO 404D for sliding gates up to 400 kg. Containing: - 1 ESM7 ACTO 404D irreversible 24 Vdc electromechanical operator - 1 ELA5 12/24 Vdc LED flashing light with built-in antenna - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA3 pair of photocells - 1 ZX20 warning sign - 1 ZX82 fixing plate
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EK14.AL	As above, without ELA5, ZX20 and ZX82
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EK14

Control cards spare parts

RS16	Electronic control card with dip-switches/trimmer with 433 MHz radio receiver, power supply 100 - 240 V 50/60 Hz, built-in battery charger, for sliding automation systems 24 V ACTO 404D
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS16



ESAC

Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 500 kg

Automation system for sliding gates used in residential and commercial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 500 kg
- small and easy-to-use release with customised key
- RS09 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- fixing plate ZX76, height and deep adjustable, included into the kit EK03.EXP

230 V operator technical data

Power supply (Vac)	230
Power (W)	230
Absorption (A)	1.2
Gate leaf weight (kg)	500
Speed (m/min)	10
Protection rating	IP54
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	274x245x267
Weight (kg)	8
Frequency of use (%)	60

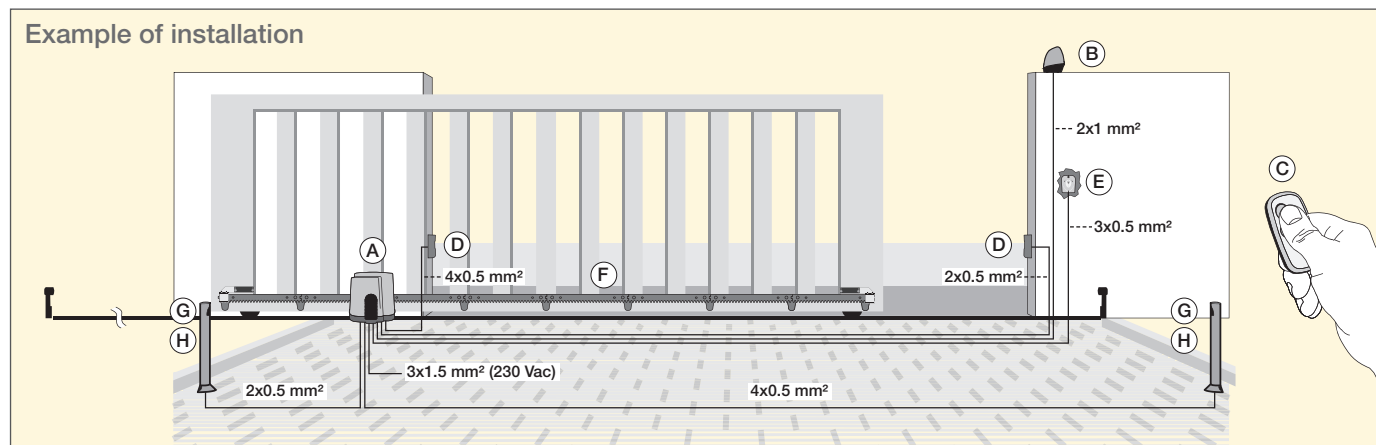
230 V dip switch control card

- 1 motor electronic control card RS09, with easy and fast programming, built-in radio receiver, weather resistant
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- opening and closing adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or magnetic loop detectors
- optical encoder management

Components for creating a complete system with ESM3 or EK03.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK03.EXP	Description	Article	Ref.	Qty
Operator	ESM3	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA6	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR5	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES				
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



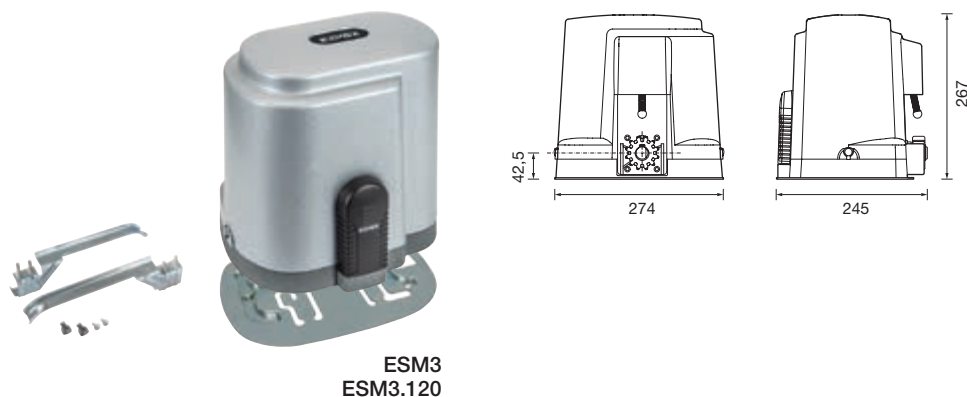
Gate automation - ACTO series



Automation for sliding gates

230/120V automation system for sliding gates, residential and commercial use

ESM3	ACTO 500A non-reversible 230 V~ electromechanical operator for sliding gates up to 500 kg, residential and apartment block use, electronic control card, 433 MHz radio receiver, electromechanical limit switches, transformer, complete with fixing plate
ESM3.120	As above, 120 Vac supply



SLIDING
ACTO

Kit for sliding gates up to 500 kg

EK03.EXP	Kit ACTO 500A for sliding gates up to 500 kg. Containing: - 1 ESM3 ACTO 500A irreversible 230 Vac electromechanical operator - 1 ELA6 120/230 Vac LED flashing light with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of photocells adjustable by 180° - 1 ZX20 warning sign - 1 ZX76 fixing plate
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Control cards spare parts

RS09	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators
RS09.120	As above, 120 Vac supply
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 500 kg

Automation system for sliding gates used in residential and commercial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 500 kg
- small and easy-to-use release with customised key
- RS10 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- fixing plate ZX76, height and deep adjustable

230 V operator technical data

Power supply (Vac)	230
Power (W)	230
Absorption (A)	1.2
Gate leaf weight (kg)	500
Speed (m/min)	10
Protection rating	IP54
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	274x245x267
Weight (kg)	8
Frequency of use (%)	60

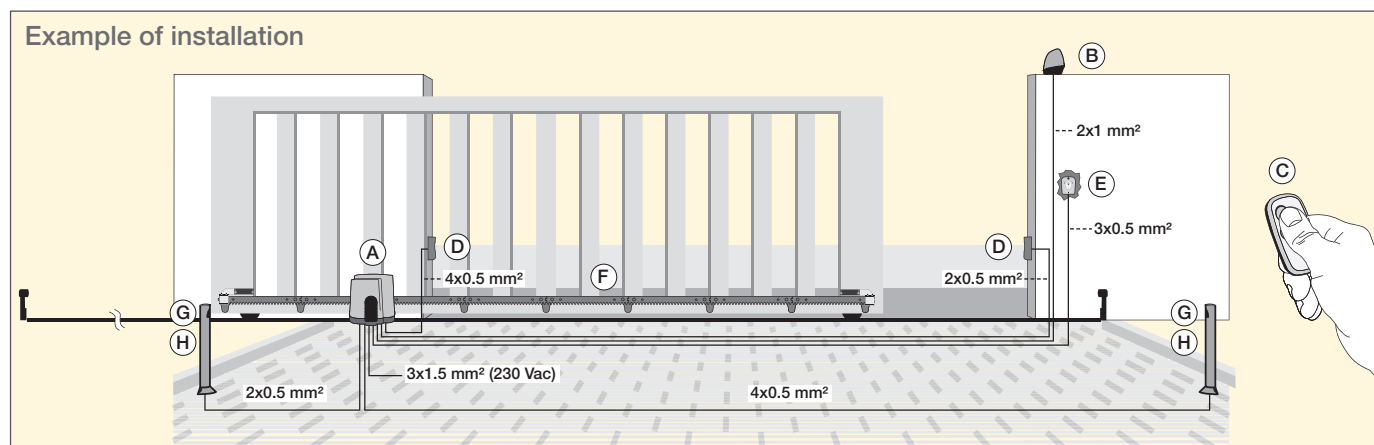
230 V display control card

- 1 motor electronic control card RS09, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- opening and closing adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or magnetic loop detectors
- optical encoder management

Components for creating a complete system with ESM3.D

Main Components				Accessories (optional)			
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Operator	ESM3.D	A	1	Key switch	EDS1	E	1
Flashing light	ELA6	B	1	Post-mounted photocells	EFA1	G	1
Remote control	ETR4	C	1	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1				
Rack	ZE07/1	F	4 (4 m)				

Example of installation



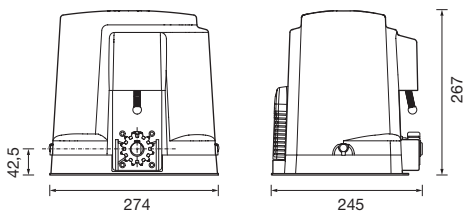
Gate automation - ACTO series



Automation for sliding gates

230V automation system for sliding gates, residential and commercial use

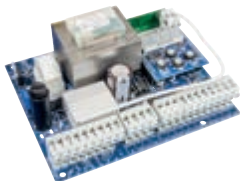
ESM3.D	ACTO 500A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 500 kg, residential and commercial use, display electronic control card, 433 MHz radio receiver, electromechanical limit switches and fixing plate
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SLIDING
ACTO

Control cards spare parts

RS10	Electronic control card with built-in display and 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS10



ESAC

Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 500 kg

Automation system for sliding gates used in residential and commercial applications. Sturdy die-cast aluminium structure to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 500 kg
- small and easy-to-use release with customised key
- RS20 control board for 1 motor integrated in the operator
- magnetic opening and closing limit switches
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX84, height and deep adjustable, included into the kit EK16.EXP

230 V operator technical data

Power supply (Vac)	230
Power (W)	200
Absorption (A)	1 A
Gate leaf weight (kg)	500
Speed (m/min)	11
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	150x324x265
Weight (kg)	11
Frequency of use (%)	50

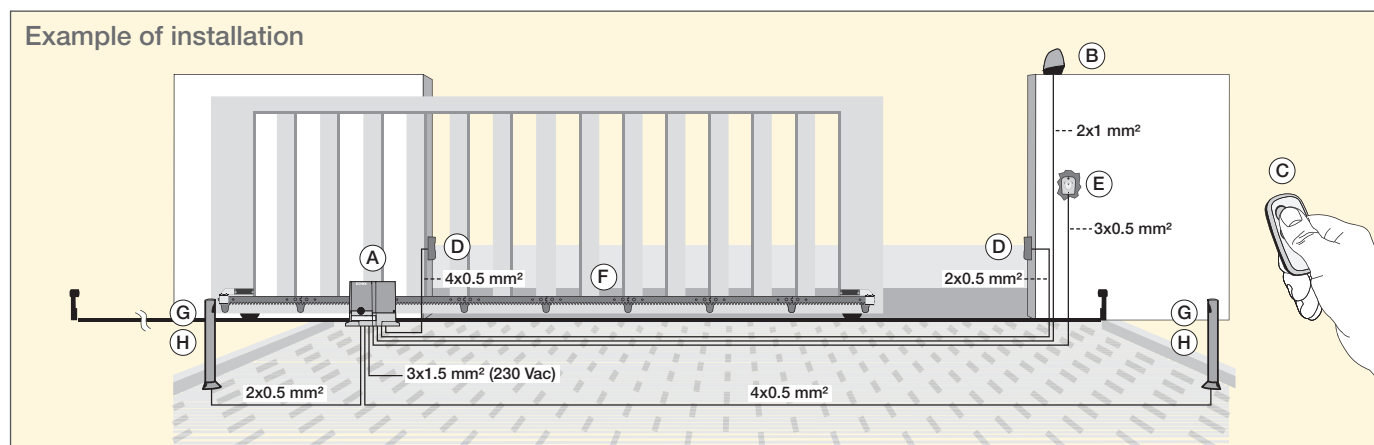
230 V dip switch control board

- 1 motor electronic control card RS20, with easy and fast programming, built-in radio receiver, weather resistant
- built-in radio receiver for 50 remote control codes (fixed or rolling code)
- opening and closing slow down speed
- force control
- programmable phototest function
- LED for input diagnostics

Components for creating a complete system with ESM8 or EK16.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK16.EXP	Description	Article	Ref.	Qty
Operator	ESM8	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA6	B	1	YES	Post-mounted photocells	EFA3	G	1
Remote control	ETR5	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA3	D	1	YES				
Rack	ZE03/1	F	4 (4 m)	NO				

Example of installation



Gate automation - ACTO series



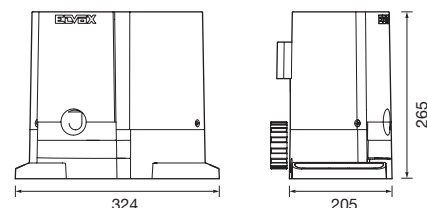
Automation for sliding gates

230V automation system for sliding gates, residential and commercial use

ESM8 ACTO 510A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 500 kg, residential and commercial use, electronic control card, 433 MHz radio receiver, magnetic limit switches, magnetic encoder and fixing plate



ESM8



SLIDING
ACTO

Kit for sliding gates up to 500 kg

EK16.EXP Kit ACTO 510A for sliding gates up to 500 kg.
Containing,
- 1 ESM8 ACTO 510A irreversible 230 Vac electromechanical operator
- 1 ELA6 120/230 Vac LED flashing light with built-in antenna
- 2 ETR5 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign
- 1 ZX76 fixing plate

EK16.AL As above, with 1 ETR5 and without ELA6, ZX20 and ZX76



EK16.EXP

Control board spare parts

RS20 Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 Vac sliding automatic gate systems for ACTO 510A and ACTO 810A operators



RS20

Gate automation - ACTO series



Automation for sliding gates

24 V automation system for sliding gates, max. 600 kg

Automation system for sliding gates used in residential and commercial applications. Operator with die-cast aluminium base, painted cover to guarantee maximum weatherproofing. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 600 kg
- manual release protected by an encrypted key, which can be used to open and close the gate if the power supply is cut off
- magnetic opening and closing limit switches
- internal housing of the NiMH battery pack and charger to allow operation if the power supply is cut off
- RS05 control board for 1 motor, integrated in the operator
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX16, included into the kit EK02.EXP

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	240
Absorption (A)	10
Gate leaf weight (kg)	600
Adjustable speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	308x288x270
Weight (kg)	10.8
Frequency of use (%)	100

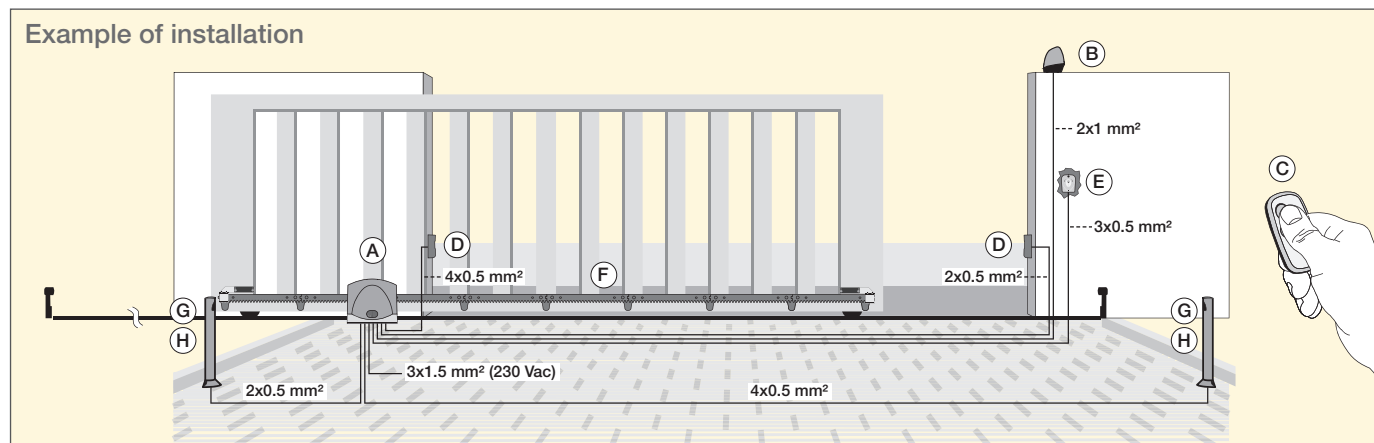
24 V dip switch control board

- 1 motor electronic control card RS05, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- LED for input diagnostics
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- courtesy light output
- programmable phototest function

Components for creating a complete system with ESM2 or EK02.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK02.EXP	Description	Article	Ref.	Qty
Operator	ESM2	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR5	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES	Pack of 24 V 2.2 Ah batteries	ZBA6		1
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



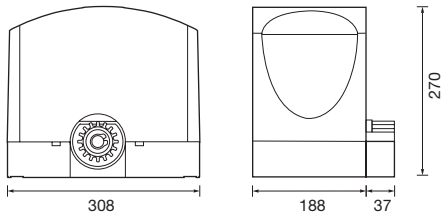
Gate automation - ACTO series



Automation for sliding gates

24 V automation system for sliding gates, residential and commercial use

ESM2	ACTO 600D non-reversible 24 V electromechanical operator for sliding gates up to 600 kg, residential and apartment block use, electronic control card, 433 MHz radio receiver, magnetic limit switches, magnetic encoder, transformer, complete with fixing plate
ESM2.120	As above, 120 Vac supply



ESM2
ESM2.120

Kit for sliding gates up to 600 kg

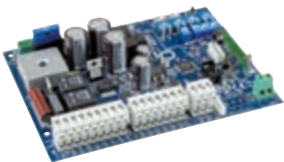
EK02.EXP	Kit ACTO 600D for sliding gates up to 600 kg. Containing: <ul style="list-style-type: none">- 1 ESM2 ACTO 600D irreversible 24 Vdc electromechanical operator- 1 ELA5 12/24 Vdc LED flashing light with built-in antenna- 2 ETR5 2-channel 433 MHz rolling code remote control- 1 EFA1 pair of photocells adjustable by 180°- 1 ZX20 warning sign- 1 ZX16 fixing plate
EK02.EXP.120	As above, 120 Vac supply
EK02.AL	As above, with 1 ETR5 and without ELA5, ZX20 and ZX16



EK02.EXP
EK02.EXP.120

Control board spare parts

RS05	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V sliding automation systems for ACTO operators
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS05



ESAC

Gate automation - ACTO series



Automation for sliding gates

24 V automation system for sliding gates, max. 600 kg

Automation system for sliding gates used in residential and commercial applications. Operator with die-cast aluminium base, painted cover to guarantee maximum weatherproofing. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 600 kg
- manual release protected by an encrypted key, which can be used to open and close the gate if the power supply is cut off
- magnetic opening and closing limit switches
- internal housing of the NiMH battery pack and charger to allow operation if the power supply is cut off
- RS06 control board for 1 motor, integrated in the operator
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX16, included into the kit EK02.D.EXP

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	240
Absorption (A)	10
Gate leaf weight (kg)	600
Adjustable speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	308x288x270
Weight (kg)	10.8
Frequency of use (%)	100

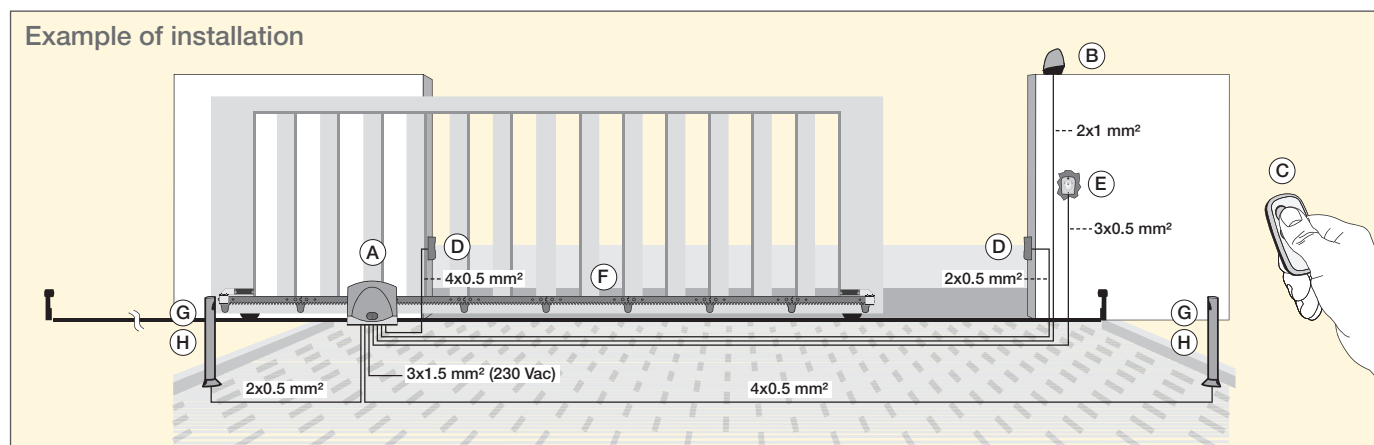
24 V display control board

- 1 motor electronic control card RS06, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- programmable phototest function
- LED for input diagnostics
- error log display
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- courtesy light output

Components for creating a complete system with ESM2.D or EK02.D.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK02.D.EXP	Description	Article	Ref.	Qty
Operator	ESM2.D	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR4	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES	Pack of 24 V 2.2 Ah batteries	ZBA6		1
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



Gate automation - ACTO series



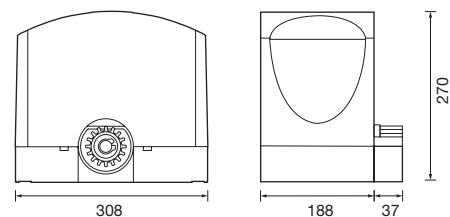
Automation for sliding gates

24 V automation system for sliding gates, residential and commercial use

ESM2.D ACTO 600D - Non-reversible 24 V electromechanical operator for sliding gates up to 600 kg, residential and commercial use, display electronic control card, 433 MHz radio receiver, magnetic limit switches, magnetic encoder, transformer, complete with fixing plate



ESM2.D



SLIDING
ACTO

Kit for sliding gates up to 600 kg

EK02.D.EXP Kit ACTO 600D for sliding gates up to 600 kg.
Containing:

- 1 ESM2.D ACTO 600D irreversible 24 Vdc electromechanical operator
- 1 ELA5 12/24 Vdc LED flashing light with built-in antenna
- 2 ETR4 4-channel 433 MHz rolling code remote control
- 1 EFA1 pair of photocells adjustable by 180°
- 1 ZX20 warning sign
- 1 ZX16 fixing plate



EK02.D.EXP

Control board spare parts

RS06 Electronic control card with built-in display and 433 MHz radio receiver for 24 V sliding automation systems for ACTO operators

ESAC Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS06



ESAC

Gate automation - ACTO series



Automation for sliding gates

24 V automation system for sliding gates, max. 600 kg

Automation system for sliding gates used in residential and commercial applications. Operator with die-cast aluminium base, painted cover to guarantee maximum weatherproofing. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 600 kg
- manual release protected by an encrypted key, which can be used to open and close the gate if the power supply is cut off
- magnetic opening and closing limit switches
- internal housing of the NiMH battery pack and charger to allow operation if the power supply is cut off
- SL24.W control board for 1 motor, integrated in the operator
- operator height adjustment for rack clearance control

- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX16, included into the kit EK02.W.EXP

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	240
Absorption (A)	10
Gate leaf weight (kg)	600
Adjustable speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	308x288x270
Weight (kg)	10.8
Frequency of use (%)	100

24 V display control board

- 1 motor electronic control card SL24.W, with easy and fast programming, built-in radio receiver, weather resistant
- programming from the display or via Wi-Fi from a smartphone with the Wi-Gate app and additional EMC.W card. Optional password protection for parameter programming, remote controls or both
- 433 MHz radio receiver for 4032 radio codes (fixed or rolling code)
- settings memory and removable remote controls
- customisation of space and deceleration speed in both opening and closing phases

- obstacle detection system
- programmable phototest function
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- fully configurable inputs and outputs
- terminal blocks grouped into functional blocks with standard colouring and numbering for rapid, foolproof wiring
- USB port for firmware updating

Wi-Fi connection module

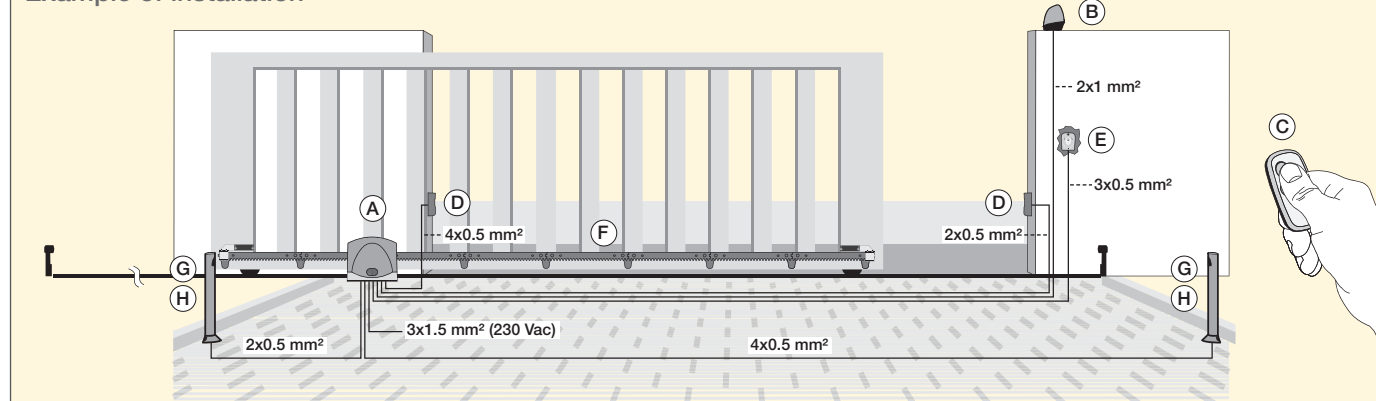
- additional module for Wi-Fi connection of SL24.W and SW24.W cards
- access to the automation system card from the Wi-Gate app

- WPA-PSK connection protection
- LED indicator for connection status

Components for creating a complete system with ESM2.W or EK02.W.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK02.W.EXP	Description	Article	Ref.	Qty
Operator	ESM2.W	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR4	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES	Pack of 24 V 2.2 Ah batteries	ZBA6		1
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



Gate automation - ACTO series



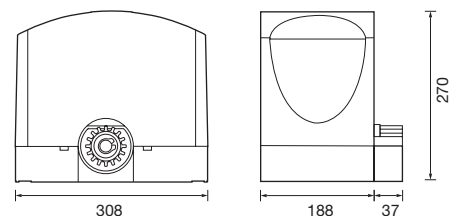
Automation for sliding gates

24 V automation system for sliding gates, residential and commercial use

- ▲ **ESM2.W** ACTO 600D non-reversible 24 V electromechanical operator for sliding gates up to 600 kg, residential and commercial use, display electronic control card, 433 MHz radio receiver, magnetic encoder, magnetic limit switches, fixing plate. Suitable for Wi-Fi connection with smartphone e tablet by using the communication module EMC.W



▲ ESM2.W



SLIDING
ACTO

Kit for sliding gates up to 600 kg

- ▲ **EK02.W.EXP** Kit ACTO 600D for sliding gates up to 600 kg.
Containing:
- 1 ESM2.W ACTO 600D non-reversible 24 V electromechanical operator suitable for Wi-Fi connection with smartphone and tablet
 - 1 ELA5 12/24 Vdc LED flashing light with built-in antenna
 - 2 ETR4 4-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of photocells adjustable by 180°
 - 1 ZX20 warning sign
 - 1 ZX16 fixing plate



▲ EK02.W.EXP

Control cards spare parts

- ▲ **SL24.W** Control card with display and built-in 433 MHz radio receiver for 24 V sliding gates operator. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
- ▲ **EMC.W** Wi-Fi communication module for SL24.W, SW24.W control cards. It enables the communication between control cards and smartphone/tablet via Wi-Fi
- ESAC** Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



▲ SL24.W



▲ EMC.W



ESAC

Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 800 kg

Automation system for sliding gates used in tertiary and industrial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 800 kg
- small and easy-to-use release with customised key
- RS09 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX77, height and deep adjustable, included into the kit EK04

230 V operator technical data

Power supply (Vac)	230
Power (W)	290
Absorption (A)	1.4
Gate leaf weight (kg)	800
Speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	303x296x320
Weight (kg)	9.5
Frequency of use (%)	60

230 V display control board

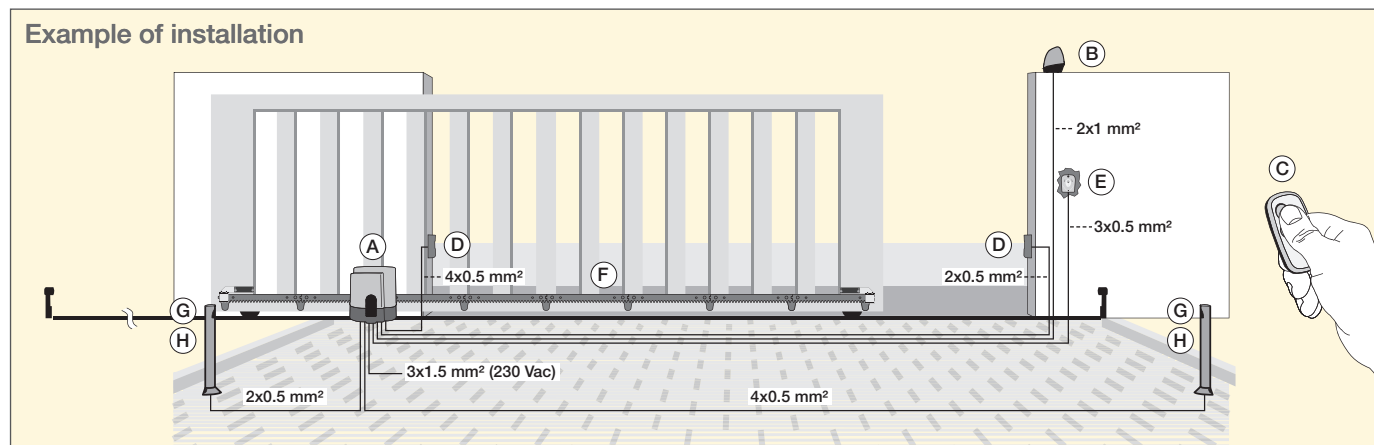
- 1 motor electronic control card RS09, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory

- opening and closing adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or loop detectors
- optical encoder management

Components for creating a complete system with ESM4 or EK04 kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK04	Description	Article	Ref.	Qty
Operator	ESM4	A	1	YES	Post-mounted photocells	EFA1	G	1
Flashing light	ELA6	B	1	YES	Posts	EE21	H	2
Remote control	ETR5	C	1	YES				
Wall-mount photocells	EFA1	D	1	YES				
Key switch	EDS1	E	1	YES				
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



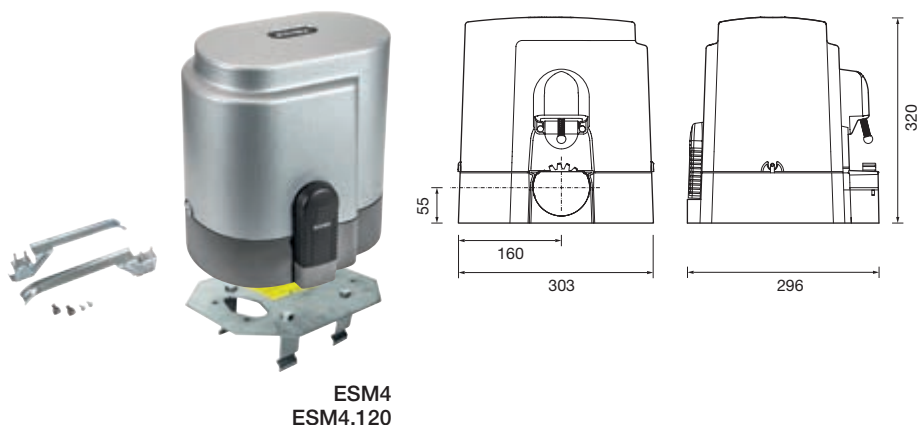
Gate automation - ACTO series



Automation for sliding gates

230/120 V automation system for sliding gates, tertiary and industrial use

ESM4	ACTO 800A non-reversible 230 V~ electromechanical operator for sliding gates up to 800 kg, tertiary and industrial use, electronic control card, 433 MHz radio receiver, optical encoder, electromechanical limit switches, complete with transformer, fixing plate
ESM4.120	As above, 120 Vac supply



SLIDING
ACTO

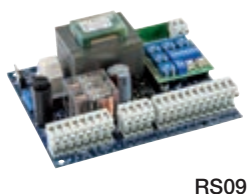
Kit for sliding gates up to 800 kg

EK04	Kit ACTO 800A for sliding gates up to 800 kg. Containing: - 1 ESM4 ACTO 800A irreversible 230 Vac electromechanical operator - 1 ELA6 120/230 Vac LED flashing light with built-in antenna - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of photocells adjustable by 180° - 1 EDS1 aluminium wall-mount key switch - 1 ZX20 warning sign - 1 ZX77 fixing plate
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Control board spare parts

RS09	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators
RS09.120	As above, 120 Vac supply
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 800 kg
Automation system for sliding gates used in tertiary and industrial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 800 kg
- small and easy-to-use release with customised key
- RS10 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX77, height and deep adjustable

230 V operator technical data

Power supply (Vac)	230
Power (W)	290
Absorption (A)	1.4
Gate leaf weight (kg)	800
Speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	303x296x320
Weight (kg)	9.5
Frequency of use (%)	60

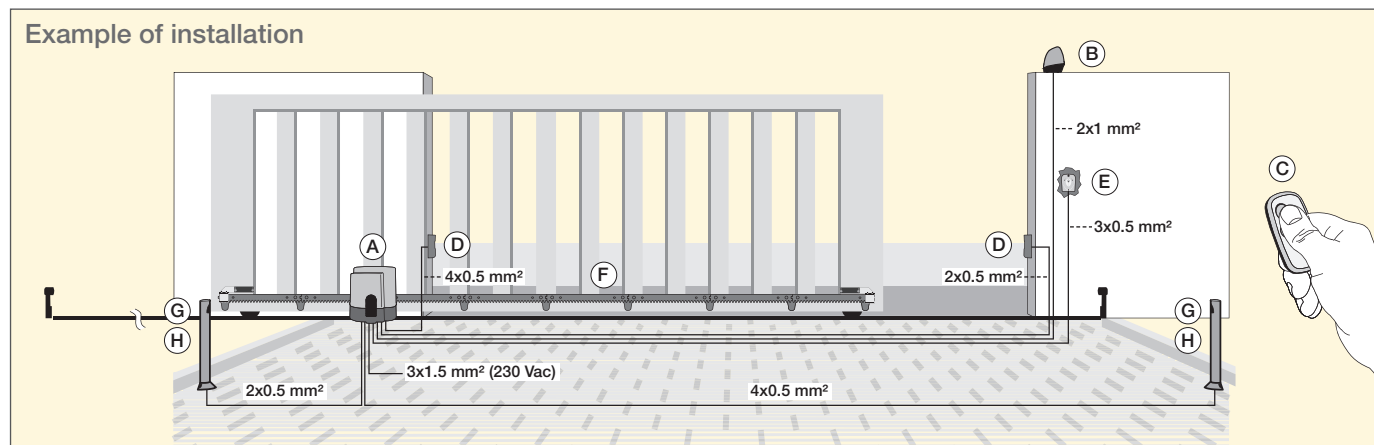
230 V display control board

- 1 motor electronic control card RS10, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- opening and closing adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or loop detectors
- optical encoder management

Components for creating a complete system with ESM4.D

Main Components				Accessories (optional)			
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Operator	ESM4.D	A	1	Post-mounted photocells	EFA1	G	1
Flashing light	ELA6	B	1	Posts	EE21	H	2
Remote control	ETR4	C	1				
Wall-mount photocells	EFA1	D	1				
Key switch	EDS1	E	1				
Rack	ZE07/1	F	4 (4 m)				

Example of installation



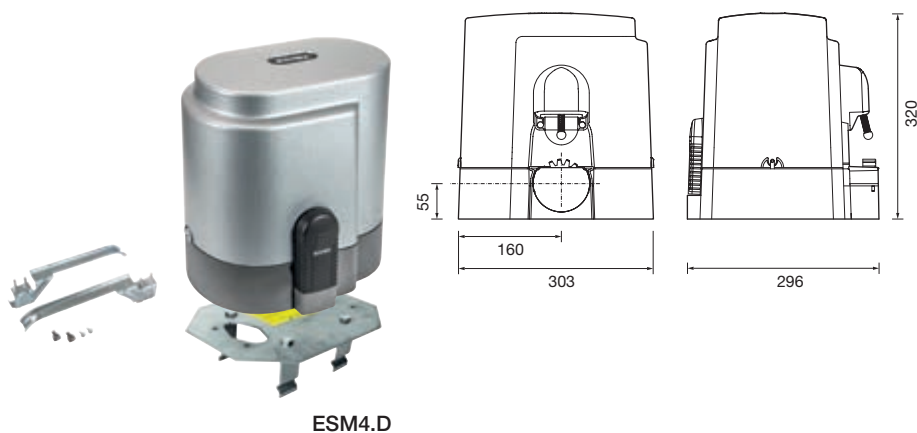
Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, tertiary and industrial use

ESM4.D ACTO 800A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 800 kg, tertiary and industrial use, display electronic control card, 433 MHz radio receiver, electromechanical limit switches, optical encoder and fixing plate



SLIDING
ACTO

Control board spare parts

RS10 Electronic control card with built-in display and 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators

ESAC Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS10



ESAC

Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, max. 800 kg

Automation system for sliding gates used in tertiary and industrial applications. Operator with base made of die-cast aluminium. Gears lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 800 kg
- small and easy-to-use release with customised key
- RS20 control board for 1 motor integrated in the operator
- magnetic opening and closing limit switches
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX84, height and deep adjustable, included into the kit EK17.EXP

230 V operator technical data

Power supply (Vac)	230
Power (W)	520
Absorption (A)	2.6
Gate leaf weight (kg)	800
Speed (m/min)	11
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +50
Dimensions (mm)	150x324x265
Weight (kg)	11.4
Frequency of use (%)	60

230 V trimmer control board

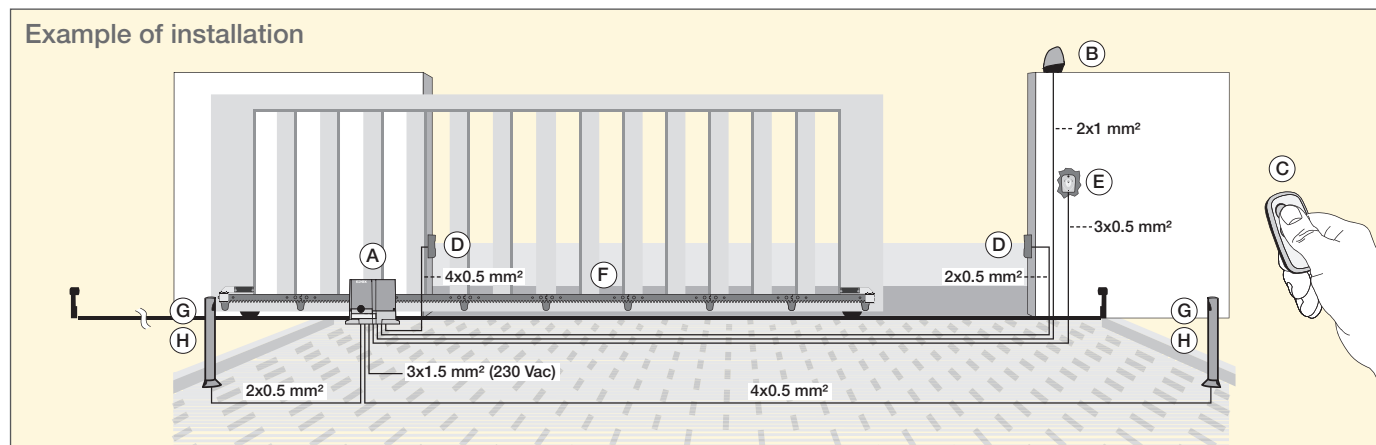
- 1 motor electronic control card RS20, with easy and fast programming, built-in radio receiver, weather resistant
- built-in radio receiver for 50 remote control codes (fixed or rolling code)

- opening and closing slow down speed
- force control
- programmable phototest function
- LED for input diagnostics

Components for creating a complete system with ESM9 or EK17.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK17.EXP	Description	Article	Ref.	Qty
Operator	ESM9	A	1	YES	Key switch	EDS1	E	1
Flashing light	ELA6	B	1	YES	Post-mounted photocells	EFA3	G	1
Remote control	ETR5	C	2	YES	Posts	EE21	H	2
Wall-mount photocells	EFA3	D	1	YES				
Rack	ZE07/1	F	4 (4 m)	NO				

Example of installation



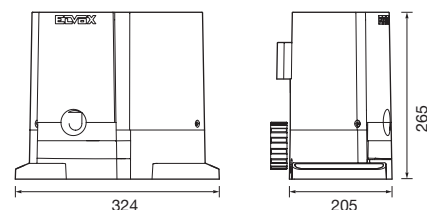
Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, tertiary and industrial use

ESM9	ACTO 810A irreversible 230 Vac electromechanical operator for gate leaves up to 800 kg for tertiary and industrial use. Complete with dip switch control board with built-in 433 MHz radio receiver, magnetic encoder, magnetic limit switches and fixing plate
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ESM9

Kit for sliding gates up to 800 kg

EK17.EXP	Kit ACTO 810A for sliding gates up to 800 kg. Containing: 1 ESM9 ACTO 810A irreversible 230 Vac electromechanical operator 1 ELA6 120/230 Vac LED flashing light with built-in antenna 2 ETR5 2-channel 433 MHz rolling code remote control 1 EFA3 pair of photocells 1 ZX20 warning sign 1 ZX84 fixing plate
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EK17.AL	As above, with 1 ETR5 and without ELA6 and ZX20
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EK17.EXP

Control board spare parts

RS20	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 Vac sliding automatic gate systems for ACTO 510A and ACTO 810A operators
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RS20

Gate automation - ACTO series



Automation for sliding gates

**230 V automation system for sliding gates,
max. 1400/2200 kg**

Automation system for sliding gates used in tertiary and industrial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 1400/2200 kg
- small and easy-to-use release with customised key
- RS09 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX77, height and deep adjustable

230 V operator technical data

Power supply (Vac)	230
Power (W)	260
Absorption (A)	1.2
Gate leaf weight (kg)	1400/2200
Speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	303x296x320
Weight (kg)	12.3/14
Frequency of use (%)	60

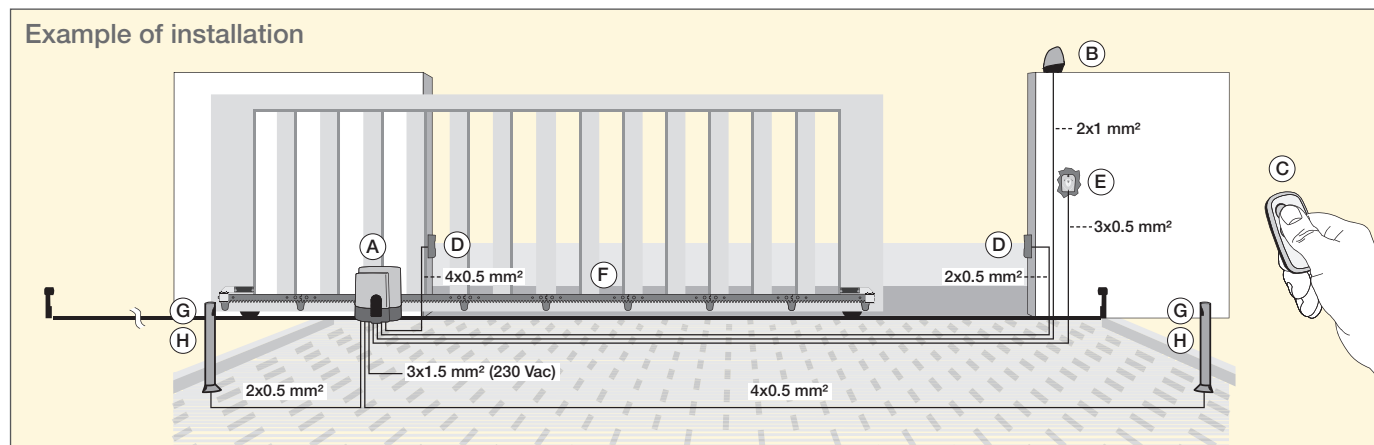
230 V trimmer control board

- 1 motor electronic control card RS09, with easy and fast programming, built-in radio receiver, weather resistant
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- opening and closing adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or loop detectors
- optical encoder management

Components for creating a complete system with ESM5 or ESM6

Main Components				Accessories (optional)			
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Operator	ESM5 or ESM6	A	1	Post-mounted photocells	EFA1	G	1
Flashing light	ELA6	B	1	Posts	EE21	H	2
Remote control	ETR5	C	1				
Wall-mount photocells	EFA1	D	1				
Key switch	EDS1	E	1				
Rack	ZE07/1	F	4 (4 m)				

Example of installation



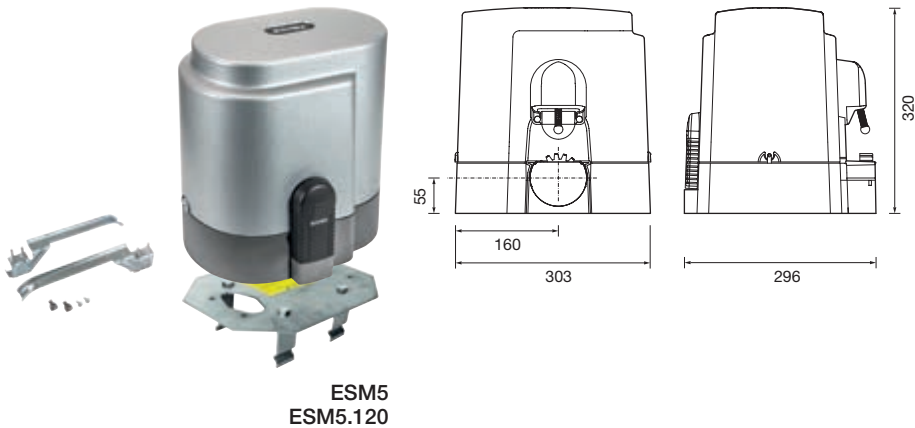
Gate automation - ACTO series



Automation for sliding gates

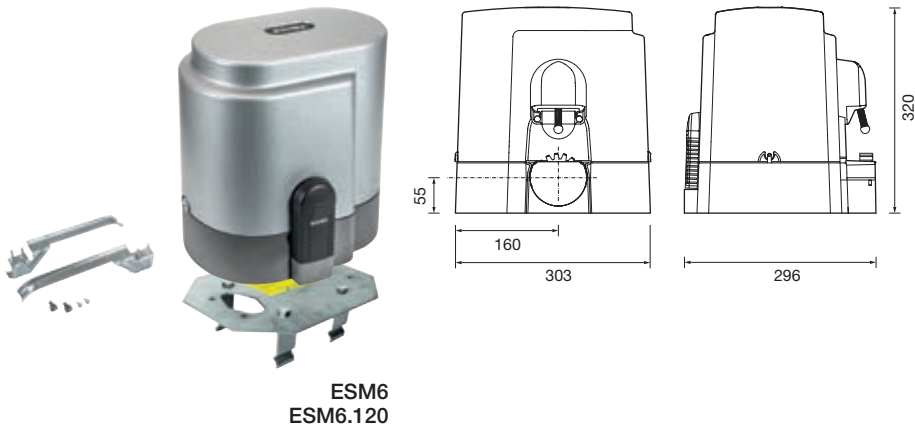
230/120 V automation system for sliding gates, tertiary and industrial use

ESM5	ACTO 1400A non-reversible 230 V~ electromechanical operator for sliding gates up to 1400 kg, tertiary and industrial use, electronic control card, 433 MHz radio receiver, optical encoder, electromechanical limit switches, complete with transformer, fixing plate
ESM5.120	As above, 120 Vac supply



230/120 V automation system for sliding gates, tertiary and industrial use

ESM6	ACTO 2200A non-reversible 230 V~ electromechanical operator for sliding gates up to 2200 kg, tertiary and industrial use, electronic control card, 433 MHz radio receiver, optical encoder, electromechanical limit switches, complete with transformer, fixing plate
ESM6.120	As above, 120 Vac supply



Control board spare parts

RS09	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators
RS09.120	As above, 120 Vac supply
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates,
max. 1400/2200 kg

Automation system for sliding gates used in tertiary and industrial applications. Sturdy die-cast aluminium structure and painted cover to guarantee maximum weatherproofing. Lubricated with permanent grease to guarantee long-term silent movement.

Main specifications

- gate leaf weight up to 1400/2200 kg
- small and easy-to-use release with customised key
- RS10 control board for 1 motor integrated in the operator
- mechanical opening and closing limit switches
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- fixing plate ZX77, height and deep adjustable

230 V operator technical data

Power supply (Vac)	230
Power (W)	260
Absorption (A)	1.2
Gate leaf weight (kg)	1400/2200
Speed (m/min)	10
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	303x296x320
Weight (kg)	12.3/14
Frequency of use (%)	60

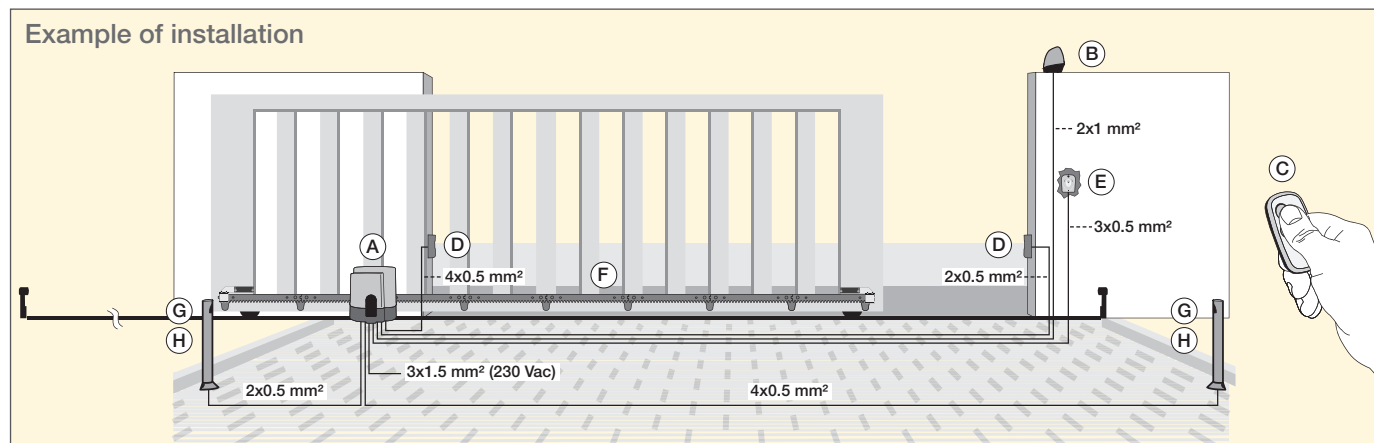
230 V display control board

- 1 motor electronic control card RS10, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- built-in radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- adjustable slow down distance
- force control
- programmable phototest function
- LED for input diagnostics
- special input for timers or loop detectors
- optical encoder management

Components for creating a complete system with ESM5.D or ESM6.D

Main Components				Accessories (optional)			
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Operator	ESM5.D or ESM6.D	A	1	Post-mounted photocells	EFA1	G	1
Flashing light	ELA6	B	1	Posts	EE21	H	2
Remote control	ETR6	C	1				
Wall-mount photocells	EFA1	D	1				
Key switch	EDS1	E	1				
Rack	ZE07/1	F	4 (4 m)				

Example of installation



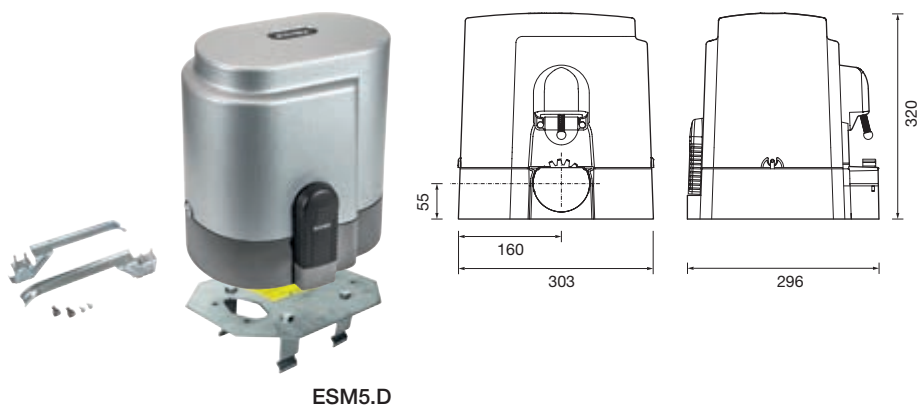
Gate automation - ACTO series



Automation for sliding gates

230 V automation system for sliding gates, tertiary and industrial use

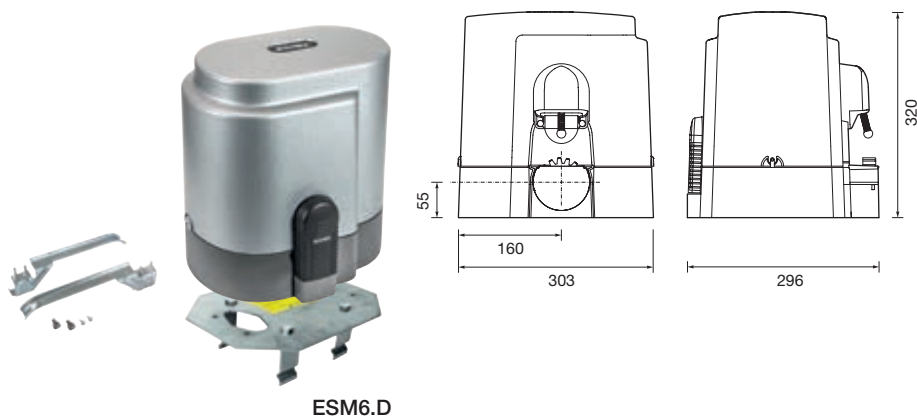
ESM5.D ACTO 1400A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 1400 kg, tertiary and industrial use, display electronic control card, 433 MHz radio receiver, electromechanical limit switches, optical encoder and fixing plate



SLIDING
ACTO

230 V automation system for sliding gates, tertiary and industrial use

ESM6.D ACTO 2200A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 2200 kg, tertiary and industrial use, display electronic control card, 433 MHz radio receiver, electromechanical limit switches, optical encoder and fixing plate



Control board spare parts

RS10 Electronic control card with built-in display and 433 MHz radio receiver for 230 V~ sliding automation systems for ACTO operators

ESAC Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS10



ESAC

Accessories and spare parts

Batteries and battery chargers

ZBA1	12 V 7.0 Ah spare Pb rechargeable battery
ZBA6	24 V 2.2 Ah NiMH rechargeable battery pack with built-in battery charger for ESM2, ESM2.D, ECA5, ECA5.D
ZBA7	Set of 2 rechargeable Pb 12 V 1.3 Ah batteries with mounting frame and wiring harness for operator ESM7 and control unit ECA9
ECB5	12 V lead battery charger for control panels for 12 V ACTO/EKKO operators
ZXA7	Mounting frame for rechargeable Pb 12 V 1.3 Ah batteries and wiring harness for operator ESM7 and control unit ECA9 (batteries not supplied)



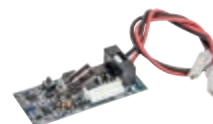
ZBA1



ZBA6



ZBA7



ECB5



ZXA7

Spare parts

▲ MEM.W	Additional memory module for control units and receivers .W supplied of Wi-Fi connectivity, it is used as back-up module for control units .W and as memory expansion module for ECRU.W receiver. Supplied with SL24.W and SW24.W
▲ 433RAD.W	433 MHz radio receiver module for control units .W supplied of Wi-Fi connectivity
R309	Transformer 230-12V~ 150VA, for operator ESM1 and ECA1 control panel
R309.120	Transformer 120-12V~ 150VA, for ESM1.120 operators and ECA1.120 control units
R319	Transformer 230-24V~ 150VA, for ESM2 operators and ECA5 control units
R319.120	Transformer 120-24V~ 150VA, for ESM2.120 operators and ECA5.120 control units
ZX33	Master key for ESM1, ESM2, EAM2, EAM3 (useful for ES07, ES09, EA25, EA50)
ZX78	Blank release key for ESM3
ZX79	Blank release key for ESM4, ESM5, ESM6 and EAM4
ZX81	Release key for ESM7 and EAM7
ZX83	Blank release key for ESM8 and ESM9
ZX16	Anchoring base for ESM1 and ESM2 (useful for ES07 and ES09)
ZX76	Anchoring base for ESM3
ZX77	Anchoring base for ESM4, ESM5 and ESM6
ZX82	Anchoring base for ESM7
ZX84	Anchoring base for ESM8 and ESM9
RA22	Cover for ESM1 and ESM2
RA23	Cover for ESM3
RA24	Cover for ESM4, ESM5, ESM6



R309
R319



ZX33



ZX78
ZX79



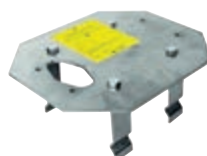
ZX81



ZX16



ZX76



ZX77



ZX82

Accessories and spare parts

Spare parts

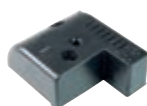
RA50	Cover for ESM7
RA51	R+L cover for ESM7 anchoring base
RA52	ESM7 control board cover
RA53	Plastic assembly supporting and covering the ESM7 board
RA80	Cover for ESM8 and ESM9
RA86	Cover for release and key for ESM8 and ESM9
RA95	Plastic assembly supporting and covering the ESM1 and ESM2 board and transformer
RA25	Release and key for ESM1 and ESM2
RA26	Release and key for ESM3
RA27	Release and key for ESM4, ESM5, ESM6 and EAM4
RA57	Release and key for operators ESM7
RA31	Limit switches for ESM3
RA32	Limit switches for ESM4, ESM5, ESM6
RA93	Pair of limit stop brackets for ESM3, ESM4, ESM5, ESM6
RA96	Limit stop brackets and magnets for sliding ESM2 and ESM7. Along with RA97 it enables operation of ESM1 with magnetic limit switches instead of resting on mechanical stops
RA97	Limit switch magnetic sensor ESM2. Along with RA96 it enables operation of ESM1 with magnetic limit switches instead of resting on mechanical stops
RA98	Set of magnetic limit switches and control unit for sliding conversion 12V without limit stop in version with magnetic limit switches. Contents: RS01, RA96, RA97
RA37	Capacitor for ESM3, EAM4, EIM2
RA37.120	Capacitor for ESM3.120, EAM4.120, EIM2.120
RA38	Capacitor for ESM4 and ESM5
RA38.120	Capacitor for ESM4.120
RA39	Capacitor for ESM6
RA39.120	Capacitor for ESM5.120 and ESM6.120
RA87	Capacitor for ESM8
RA88	Capacitor for ESM9
RA28	Sprocket for ESM1 and ESM2
RA29	Sprocket for ESM3
RA30	Sprocket for ESM4, ESM5 and ESM6
RA59	Sprocket for ESM7
RA89	Sprocket for ESM8 and ESM9



RA50



RA51



RA52



RA25



RA26
RA27



RA57



RA93



RA96



RA97



RA28
RA29
RA30
RA59

Accessories and spare parts

Spare parts

RA54	ESM7 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
RA55	ESM7 reduction assembly. Includes shaft, ring gear, output pinion, bushings and retainer rings
RA90	ESM1, ESM2 reduction assembly. Includes shaft, ring gear, output pinion, bushings and retainer rings
RA91	ESM1 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
RA92	ESM2 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base

Racks

ZE03/1	Rectangular rack in nylon with steel core, module 4, for sliding gates max 500 kg, 1 piece of 1 metre, complete with fixing screws
ZE07/1	Rectangular rack in zinc-plated steel, module 4, for sliding gates, 1 piece of 1 metre, complete with fixing screws
ZE08/4	Modular rack in high-strength plastic, module 4, for sliding gates max 1000 kg, 333 mm, complete with fixing screws, 12 pieces
RZE3	Pack of screws for rack ZE03
RZE7	Pack of screws for rack ZE07



ZE03/1



ZE07/1



ZE08/4



RZE3



RZE7

Caution sign

ZX20	"Caution automatic gate" polypropylene sign
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ZX20

Accessories and spare parts

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, power supply 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZS16	Balanced 8k2 safety sensitive edge complying with EN 12978, width 37 mm, depth 61 mm, length 1.6 m
EZS20	As above, with length 2 m
EZS25	As above, with length 2.5 m
EZP16	Microswitch sensitive edge, N/C contact, width 37 mm, depth 61 mm, length 1.6 m
EZP20	As above, with length 2 m
EZP25	As above, with length 2.5 m
EZA20	Passive sensitive edge, width 37 mm, depth 61 mm, length 2 m






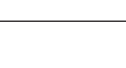




ECR2.RX
ECR2.TX






EZS16
EZS20
EZS25
EZP16
EZP20
EZP25
EZA20

EKKO and HIDDY: automation for swing gates

Selection guide of automations for swing gates

External mount															
Leaf lenght	Leaf weight	Use	Frequency of use	Power supply	Electric motor power supply	Encoder	Control board	Receiver	Operator	Control panel	Kit	Photo	Series		
2 m	200 kg	Residential	50%	230 Vac	12 Vdc	Optical	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM1	ECA1	EK05		EKKO 200D		
				120 Vac		Magnetic				ECA1.120	EK05.120				
				120÷230 Vac	24 Vdc				EAM7	ECA9.P	EK15.P		EKKO 204D		
										ECA9	EK15.AL				
3 m	200 kg	Residential	50%	230 Vac	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM8.L EAM8.R	ECA8	EK18.EXP EK18.AL		EKKO 300A		
3 m	300 kg	Residential and commercial	100%	230 Vac	24 Vdc	Magnetic	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM2	ECA5	EK06.EXP EK06.AL		EKKO 300D		
				120 Vac						ECA5.120	EK06.EXP.120				
				230 Vac			Display			ECA5.D	EK06.D.EXP				
										ECA5.W	EK06.W.EXP				
3.5 m	400 kg	Residential and industrial	60%	230 Vac	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM4	ECA8	EK08.EXP		EKKO 350A		
				120 Vac	120 Vac				EAM4.120	ECA8.120	-				
4 m	200 kg	Residential and industrial	60%	230 Vac	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM9.L EAM9.R	ECA9	-		EKKO 400A		
4 m	250 kg	Residential and commercial	100%	230 Vac	24 Vdc	Magnetic	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM3	ECA5	EK07.EXP EK07.AL EK19.EXP		EKKO 400D		
				120 Vac						ECA5.120	EK07.EXP.120 EK19.EXP.120				
				230 Vac			Display			ECA5.D	EK07.D.EXP				
										ECA5.W	EK07.W.EXP				
5 m	500 kg	Residential and industrial	60%	230 Vac	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM4.L	ECA8	EK08.L		EKKO 500A		

Articulated arm													
Leaf length	Leaf weight	Use	Frequency of use	Power supply	Electric motor power supply	Encoder	Control panel	Receiver	Operator	Control panel	Kit	Photo	Series
2 m	200 kg	Residential	80%	230 Vac	24 Vdc	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EAM5.N	RS12	EK09.N		EKKO ART 200D
				-			-		EAM6.N	-			

Underground													
Leaf lenght	Leaf weight	Use	Frequency of use	Power supply	Electric motor power supply	Encoder	Control panel	Receiver	Operator	Control panel	Kit	Photo	Series
2 m	200 kg	Residential	100%	230 Vac	24 Vdc	Magnetic	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EIM1	ECA5	EK10.EXP		HIDDY 200D
							Display			ECA5.D	-		
										ECA5.W	EK10.W.EXP		
3.5 m	400 kg	Tertiary and industrial use	60%	230 Vac	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code or fixed code	EIM2	ECA8	EK11.EXP		HIDDY 350A
				120 Vac	120 Vac				EIM2.120	ECA8.120	-		
				230 Vac	230 Vac				EIM2.180	ECA8	-		

Gate automation - EKKO series



Automation for swing gates

12 V automation systems for swing gates up to 2 m
200 kg

Linear automation system for swing gates, residential use. Bronze, aluminium and steel reduction gears guarantee long-term silent operation. Lubrication with permanent grease. Protected connections at the bottom of the casting.

Main specifications

- gate leaf up to 2 m, 200 kg
- release by means of a triangular key, which can be used to open and close the gate if the power supply is cut off
- optical encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and weld-on adjustable anchor brackets

12 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	12
Power (W)	90
Absorption (A)	7
Gate leaf length (m)	2
Gate leaf weight (kg)	200
Opening (°)	110
Opening time (s)	12 to 25
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	815x120x100
Weight (kg)	8.4
Frequency of use (%)	50
Useful travel (mm)	380

12 V dip switch control board

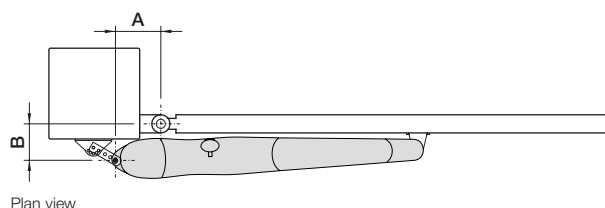
- 2 motors electronic control card RS03, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- current control for electric motor protection
- internal housing of the batteries and charger to allow operation if the power supply is cut off

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1	250
1.5	250
2	200

Optimum installation dimensions

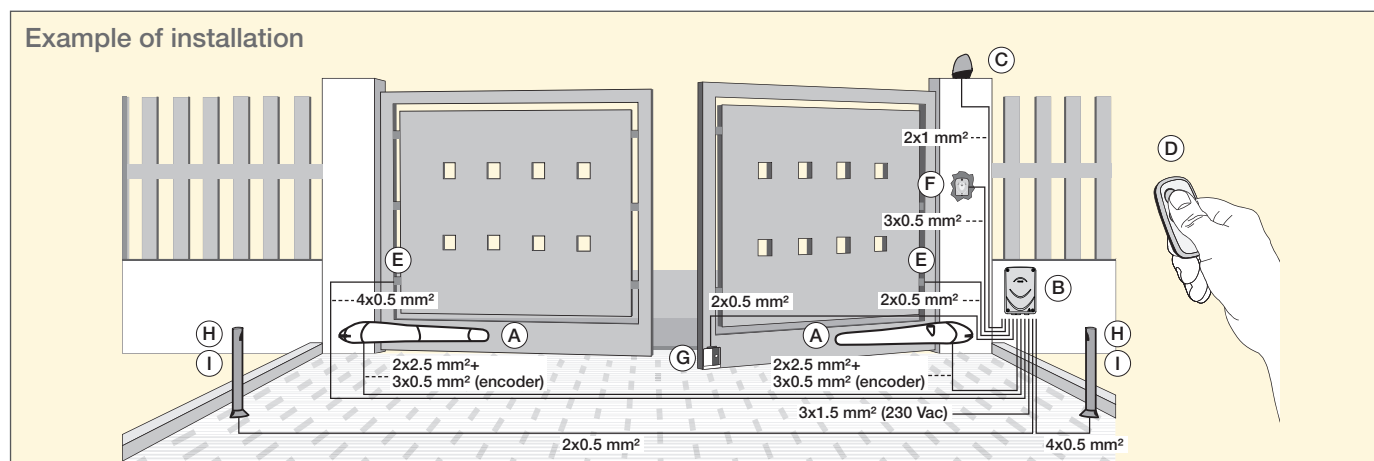
Opening angle	Distance A (mm)	Distance B (mm)
90°	150 mm	150 mm
90°	160 mm	160 mm
110°	165 mm	150 mm
110°	170 mm	140 mm



Components for creating a complete system with EAM1 or EK05 kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK05	Description	Article	Ref.	Qty
Operator	EAM1	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA1	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR5	D	1	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Battery charger	ECB5		1
					Battery 12 V 1.3 Ah	ZBA3		1

Example of installation



Gate automation - EKKO series



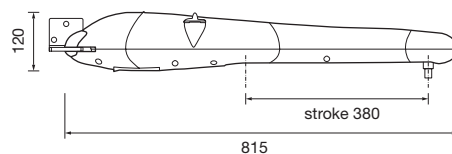
Automation for swing gates

12 V automation system for swing gates, residential use

- Δ EAM1** EKKO 200D irreversible 12 Vdc electromechanical operator for gate leaves up to 2 m 200 kg. Complete with fixing brackets, opening mechanical stop and motor with optical encoder



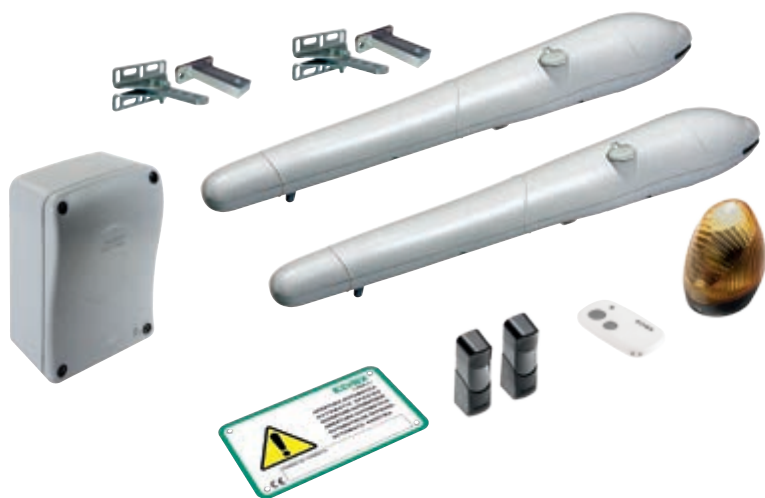
Δ EAM1



Kit for 2 swing gate leaves up to 2 m (200 kg) each

- Δ EK05** EKKO 200D kit for swing gate leaves up to 2 m, 200 kg.
Containing:
- 2 EAM1 EKKO 200D irreversible 12 Vdc electromechanical operators
 - 1 ECA1 12 Vdc dip switch control panel
 - 1 ELA5 12/24 Vdc LED flashing light, 433 MHz with built-in antenna
 - 1 ETR5 2-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of 180° adjustable photocells
 - 1 ZX20 "Warning: automatic gate" sign

EK05.120 As above, with ECA1.120 and without ECA1, for 120 Vac power supply



Δ EK05
EK05.120

Control board spare parts

- RS03** Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 12 Vdc EKKO swinging gate operators
- RS04** Display control board with built-in 433 MHz radio receiver for 12 Vdc EKKO swinging gate operators



RS03



RS04

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 2 m and 200 kg

Linear automation system for swing gates, residential use. Lubrication with permanent grease. Reduction unit with gears made of high-performance engineering polymers and light alloys which improve the noiselessness and long life of the mechanical parts.

Main specifications

- gate leaf up to 2 m, 200 kg
- manual release protected by a triangular key, which can be used to open and close the gate if the power supply is cut off
- built-in mechanical stops for opening and closing
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- bolt-on and weld-on adjustable anchor brackets

24 V dip switch control board

- 2 motors electronic control card RS17.P, with easy and fast programming, built-in radio receiver
- switching-mode power supply for maximum energy saving on stand-by and the smoothest operation of the automatic gate system
- battery charger built into the board. It permits operation when there is no mains power by simply connecting 2 Pb 1.3 Ah batteries (batteries can be housed in the board enclosure)
- direct cabling for NC safety edge EZP or 8K2 type EZS with optional control card ECR2.FL
- radio receiver for 50 remote control codes (fixed or rolling code)
- LED for input diagnostics
- automatic travel programming
- pedestrian opening
- programmable phototest function

12 V operator technical data

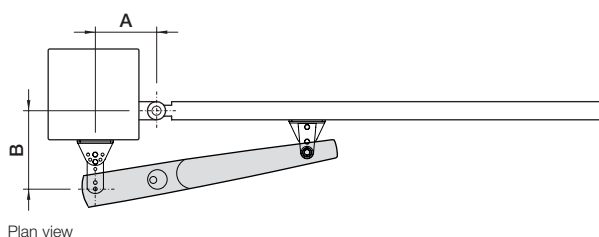
Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	80
Absorption (A)	3.5
Gate leaf length (m)	2
Gate leaf weight (kg)	200
Opening (°)	110
Opening time (s)	10 to 18
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	715x106x89
Weight (kg)	4.2
Frequency of use (%)	50
Useful travel (mm)	300

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1.2	300
1.5	260
2	200

Optimum installation dimensions

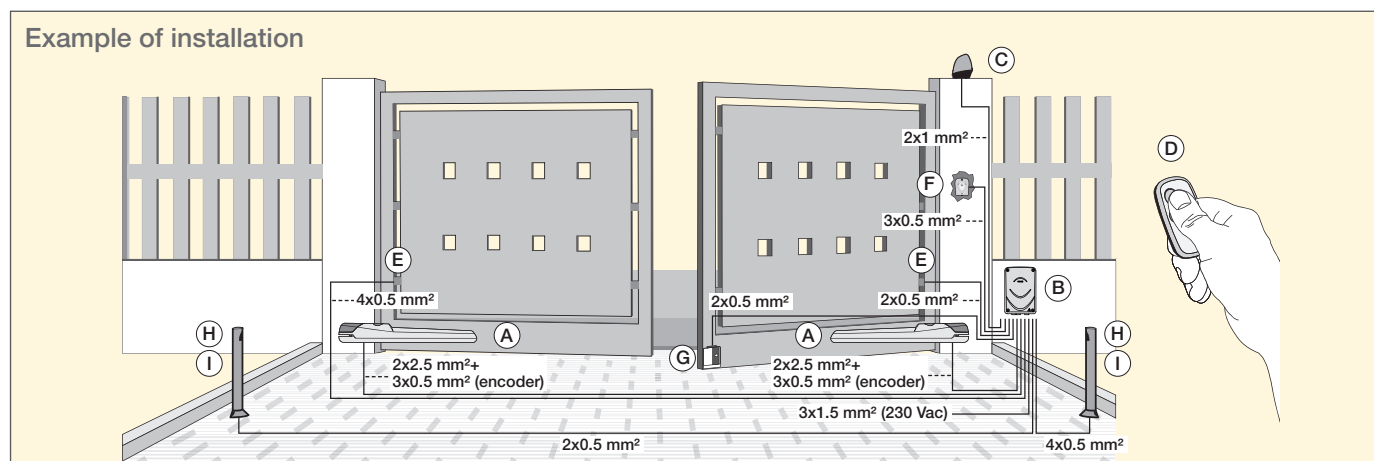
Opening angle	Distance A (mm)	Distance B (mm)
90°	140 mm	140 mm
90°	130 mm	150 mm
110°	130 mm	130 mm
110°	130 mm	110 mm



Components for creating a complete system with EAM7 or EK15.P kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK15.P	Description	Article	Ref.	Qty
Operator	EAM7	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA9.P	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR5	D	1	YES	Post-mounted photocells	EFA3	H	1
Wall-mount photocells	EFA3	E	1	YES	Posts	EE21	I	2
					Battery fixing kit	ZXA7		1
					Pack of 2 batteries 12 V 1.3 Ah and wiring harness	ZBA7		1

Example of installation



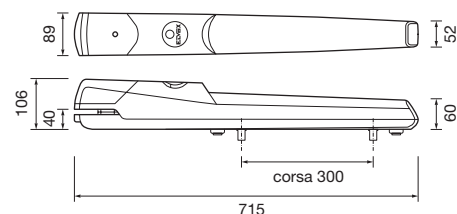
Gate automation - EKKO series



Automation for swing gates

24 V automation system for swing gates, residential use

EAM7	EKKO 204D - Non-reversible 24 V electromechanical linear operator for swing gates up to 2 m and 200 kg, complete with fixing brackets, integrated mechanical opening stop and motor with optical encoder
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SWING EKKO AND
EKKO ART

Kit for 2 swing gate leaves up to 2 m (200 kg) each

▲ EK15.P	EKKO 204D kit for swing gate leaves up to 2 m, 200 kg. Containing: - 2 EAM7 EKKO 204D irreversible 24 Vdc electromechanical operators - 1 ECA9.P 24Vdc control panel with switching power supply. Complete trimmer, dip-switch control board and battery charger - 1 ELA5 12/24 Vdc LED flashing light, 433 MHz with built-in antenna - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA3 pair of photocells - 1 ZX20 "Warning: automatic gate" sign
Δ EK15	As above, with ECA9 and without ECA9.P
EK15.AL	As above, with ECA9 and without ECA9.P, ELA5 and ZX20



▲ EK15.P
Δ EK15

Control board spare parts

▲ RS17.P	Electronic control card with dip-switches/trimmer with 433 MHz radio receiver, power supply 100 - 240 V 50/60 Hz, built-in battery charger, for swing automation systems 24 V EKKO 204D
Δ RS17	Dip switch and trimmer control board with built-in 120-230 Vac 50/60 Hz switched mode power supply, battery charger and 433 MHz radio receiver, for 24 Vdc EKKO 204D swinging gate operators



▲ RS17.P



Δ RS17

Gate automation - EKKO series



Automation for swing gates

230 V automation systems for swing gates up to 3 m 200 kg

EKKO series linear automation system for swing gates for residential use. Sturdy thanks to a set of components designed to offer silent operation and durability. The axial thrust mechanism and the components lubricated by means of special permanent grease are designed to ensure maximum silence and reliability.

Main specifications

- gate leaf up to 3 m, 200 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- 230 Vac irreversible motor
- 1 m cable for easier connection
- screw-on and bolt-on adjustable anchor brackets

230 V operator technical data

Power supply (Vac)	230
Power (W)	240
Absorption (A)	1.1
Gate leaf length (m)	3
Gate leaf weight (kg)	200
Opening (°)	110
Opening time (s)	15 to 20
Protection rating	IP54
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	609x102x198
Weight (kg)	5.7
Frequency of use (%)	50
Useful travel (mm)	300

230 V dip switch control board

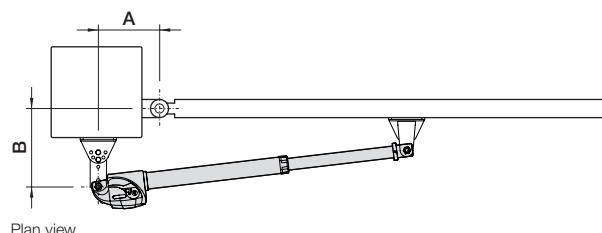
- 2 motors electronic control card RS11, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance in both opening and closing phases
- LED for input diagnostics
- programmable phototest function
- motor force adjustment
- output for electric lock
- special input for timers or loop detectors

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
3	200

Optimum installation dimensions

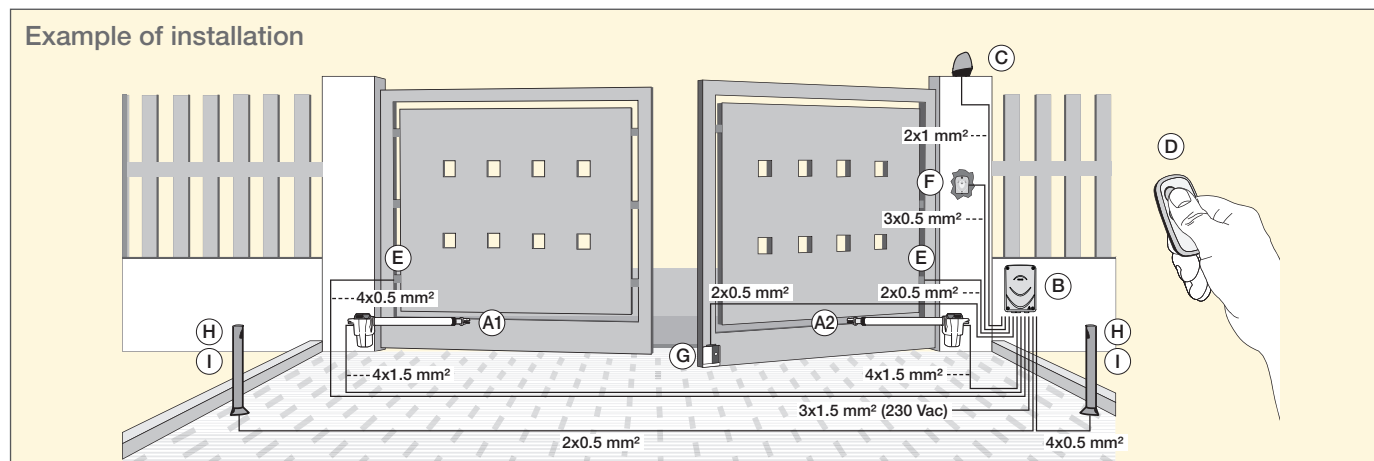
Opening angle	Distance A (mm)	Distance B (mm)
90°	150 mm	150 mm
90°	130 mm	170 mm
110°	120 mm	120 mm
110°	100 mm	100 mm



Components for creating a complete system with EAM8.L and EAM8.R or EK18.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK18.EXP	Description	Article	Ref.	Qty
Left operator	EAM8.L	A1	1	YES	Key switch	EDS1	F	1
Right operator	EAM8.R	A2	1	YES	Electric lock + cylinder	ZD14	G	1
Control panel	ECA8	B	1	YES		ZD14/I		1
Flashing light	ELA6	C	1	YES	Post-mounted photocells	EFA3	H	1
Remote control	ETR5	D	2	YES	Posts	EE21	I	2
Wall-mount photocells	EFA3	E	1	YES				

Example of installation



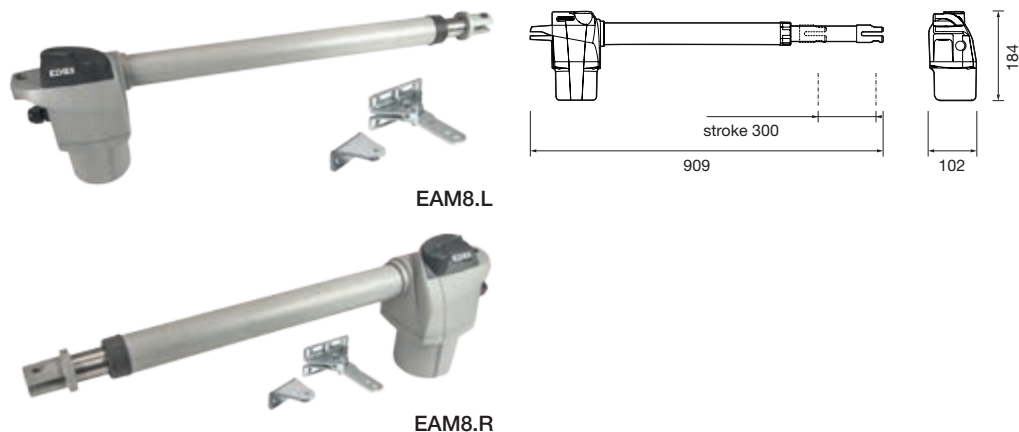
Gate automation - EKKO series



Automation for swing gates

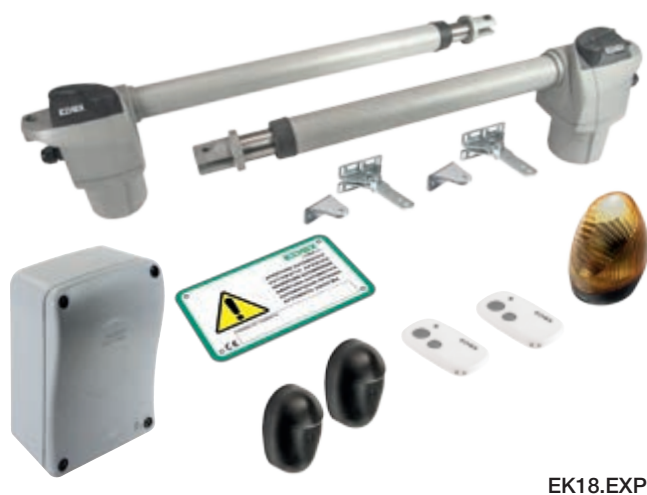
230 V automation system for swing gates, residential use

EAM8.L	EKKO 300A left irreversible 230 Vac electromechanical linear operator for swing gates up to 3 m and 200 kg, complete with adjustable anchor brackets
EAM8.R	EKKO 300A right irreversible 230 Vac electromechanical linear operator for swing gates up to 3 m and 200 kg, complete with adjustable anchor brackets



Kit for 2 swing gate leaves up to 3 m (200 kg) each

EK18.EXP	EKKO 300A kit for swing gate leaves up to 3 m, 200 kg. Containing: - 1 EAM8.R EKKO 300A irreversible 230 Vac electromechanical right operator - 1 EAM8.L EKKO 300A irreversible 230 Vac electromechanical left operator - 1 ECA8 230 Vac dip switch control panel - 1 ELA6 120/230 Vac flashing light, 433 MHz with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA3 pair of photocells - 1 ZX20 "Warning: automatic gate" sign
EK18.AL	As above, with ETR5 and without ELA6 and ZX20



Control board spare parts

RS11	Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 230 Vac EKKO and HIDDY swinging gate operators
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Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 3 m and 300 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 3 m, 300 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Absorption (A)	5
Gate leaf length (m)	3
Gate leaf weight (kg)	300
Opening (°)	110
Opening time (s)	10 to 22
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	785x110x105
Weight (kg)	9.2
Frequency of use (%)	100
Useful travel (mm)	280

24 V dip switch control board

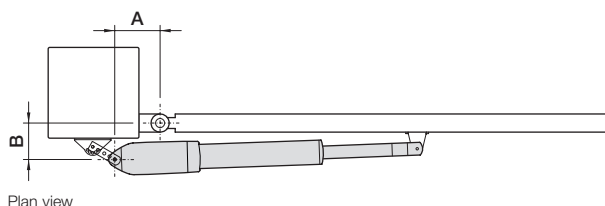
- 2 motors electronic control card RS07, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- current control for electric motor protection
- obstacle detection system
- internal housing of the battery pack and charger to allow operation if the power supply is cut off

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1.5	800
2	550
2.5	400
3	300

Optimum installation dimensions

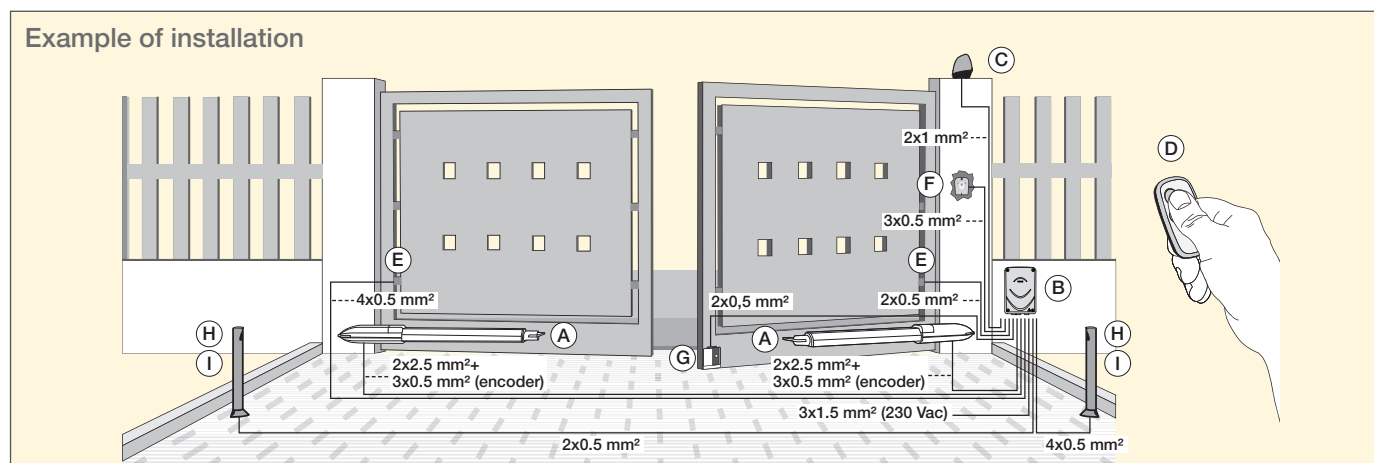
Opening angle	Distance A (mm)	Distance B (mm)
90°	140 mm	137 mm
90°	135 mm	140 mm
110°	125 mm	123 mm
110°	135 mm	113 mm



Components for creating a complete system with EAM2 or EK06.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK06.EXP	Description	Article	Ref.	Qty
Operator	EAM2	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR5	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Pack of 24 V 2.2 Ah batteries	ZBA6		1

Example of installation



Gate automation - EKKO series



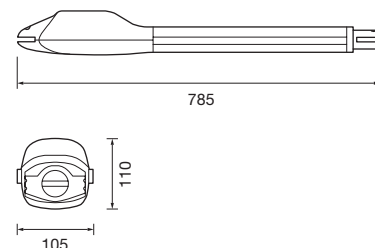
Automation for swing gates

24 V automation system for swing gates, residential and commercial use

EAM2	EKKO 300D non-reversible 24 V electromechanical linear operator for swing gates up to 3 m and 300 kg, complete with fixing brackets and motor with magnetic encoder
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EAM2



Kit for 2 swing gate leaves up to 3 m (300 kg) each

EK06.EXP	EKKO 300D kit for swing gate leaves up to 3 m, 300 kg. Containing: - 2 EAM2 EKKO 300D irreversible 24 Vdc electromechanical operators - 1 ECA5 24Vdc dip switch control panel - 1 ELA5 12/24 Vdc LED flashing light, 433 MHz with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
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EK06.EXP.120	As above, with ECA5.120 and without ECA5, for 120 Vac power supply
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EK06.AL	As above, with 1 ETR5 and 1 EFA3, without ELA5, EFA1 and ZX20
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EK06.EXP
EK06.EXP.120

Control board spare parts

RS07	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operators
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RS07

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 3 m and 300 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 3 m, 300 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Absorption (A)	5
Gate leaf length (m)	3
Gate leaf weight (kg)	300
Opening (°)	110
Opening time (s)	10 to 22
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	785x110x105
Weight (kg)	9.2
Frequency of use (%)	100
Useful travel (mm)	280

24 V display control board

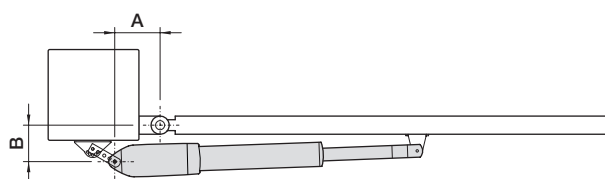
- 2 motors electronic control card RS08, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- error log display
- current control for electric motor protection
- obstacle detection system
- internal housing of the battery pack and charger to allow operation if the power supply is cut off

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1.5	800
2	550
2.5	400
3	300

Optimum installation dimensions

Opening angle	Distance A (mm)	Distance B (mm)
90°	140 mm	137 mm
90°	135 mm	140 mm
110°	125 mm	123 mm
110°	135 mm	113 mm

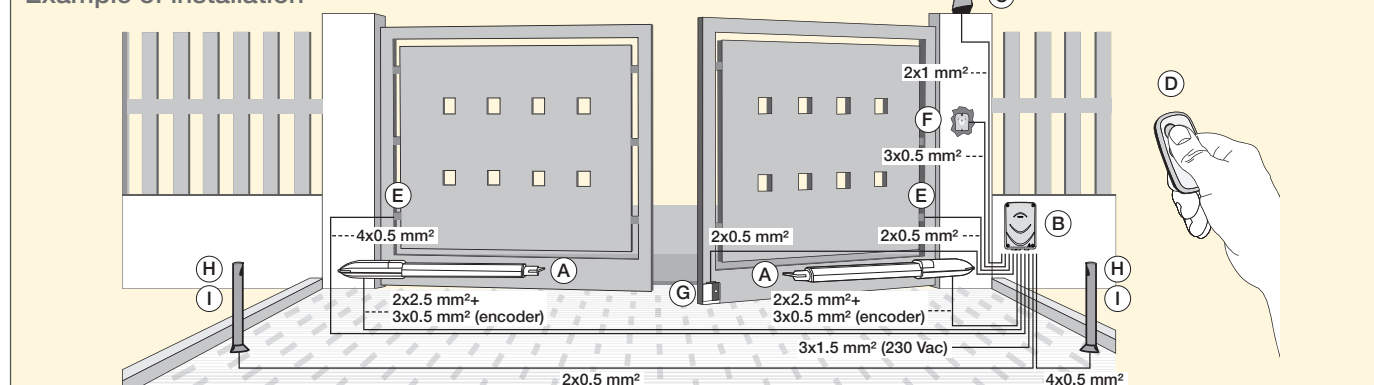


Plan view

Components for creating a complete system with EAM2 or EK06.D.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK06.D.EXP	Description	Article	Ref.	Qty
Operator	EAM2	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5.D	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR4	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Battery pack	ZBA6		1

Example of installation



Gate automation - EKKO series



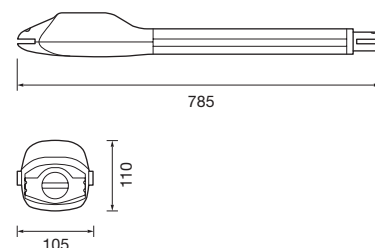
Automation for swing gates

24 V automation system for swing gates, residential and commercial use

EAM2 EKKO 300D non-reversible 24 V electromechanical linear operator for swing gates up to 3 m and 300 kg, complete with fixing brackets and motor with magnetic encoder



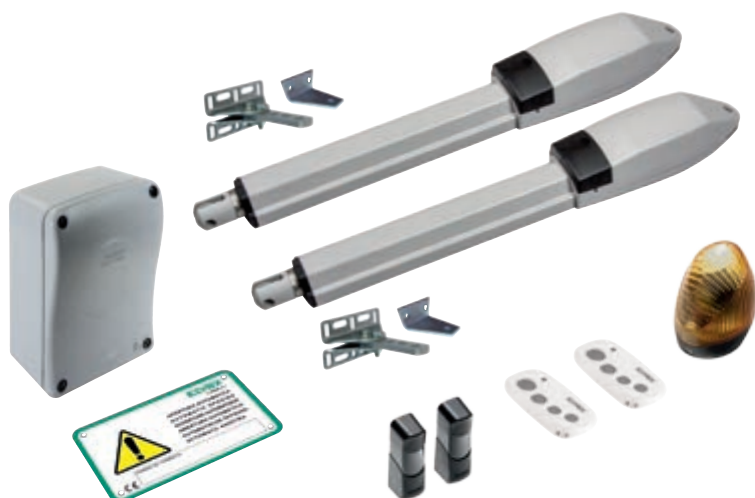
EAM2



Kit for 2 swing gate leaves up to 3 m (300 kg) each

EK06.D.EXP EKKO 300D kit for swing gate leaves up to 3 m, 300 kg.
Containing:

- 2 EAM2 EKKO 300D irreversible 24 Vdc electromechanical operators
- 1 ECA5.D 24 Vdc dip switch control panel
- 1 ELA5 12/24 Vdc LED flashing light, 433 MHz with built-in antenna
- 2 ETR4 4-channel 433 MHz rolling code remote control
- 1 EFA1 pair of 180° adjustable photocells
- 1 ZX20 "Warning: automatic gate" sign



EK06.D.EXP

Control board spare parts

RS08 Electronic control card with built-in display and 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operator



RS08

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 3 m and 300 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 3 m, 300 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V display control board

- 2 motors electronic control card SW24.W, with easy and fast programming, built-in radio receiver, weather resistant
- programming from the display or via Wi-Fi from a smartphone with the Wi-Gate app and additional EMC.W card. Optional password protection for parameter programming, remote controls or both
- 433 MHz radio receiver for 4032 radio codes (fixed or rolling code)
- settings memory and removable remote controls
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- programmable phototest function
- electric solenoid, magnetic or drop lock output
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- fully configurable inputs and outputs

Wi-Fi connection module

- additional module for Wi-Fi connection of SL24.W and SW24.W cards
- access to the automation system card from the Wi-Gate app

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Absorption (A)	5
Gate leaf length (m)	3
Gate leaf weight (kg)	300
Opening (°)	110
Opening time (s)	10 to 22
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	785x110x105
Weight (kg)	9.2
Frequency of use (%)	100
Useful travel (mm)	280

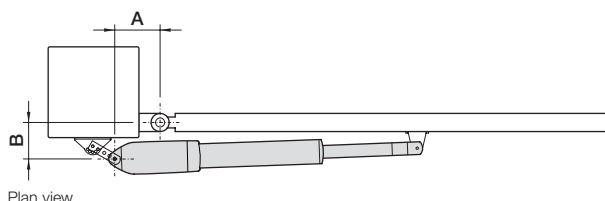
- terminal blocks grouped into functional blocks with standard colouring and numbering for rapid, foolproof wiring
- USB port for firmware updating

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1.5	800
2	550
2.5	400
3	300

Optimum installation dimensions

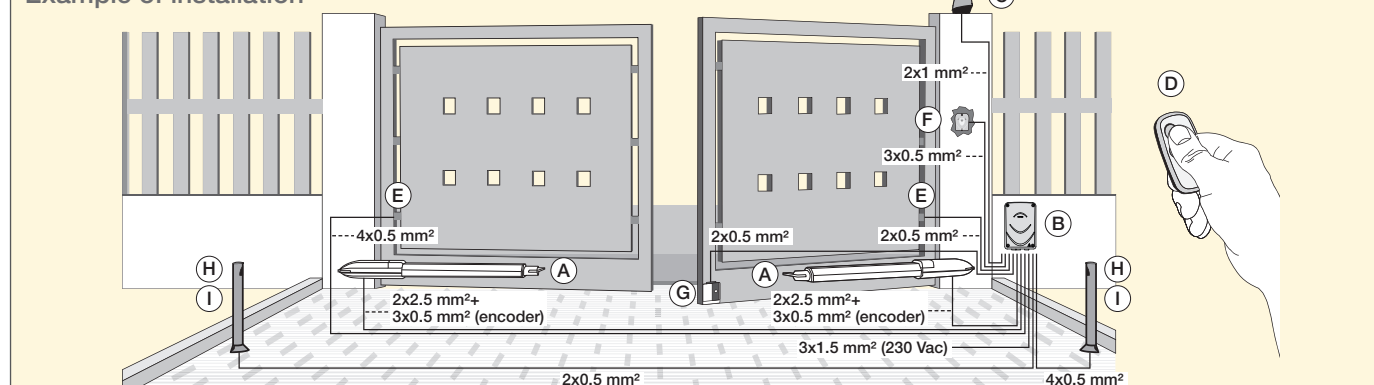
Opening angle	Distance A (mm)	Distance B (mm)
90°	140 mm	137 mm
90°	135 mm	140 mm
110°	125 mm	123 mm
110°	135 mm	113 mm



Components for creating a complete system with EAM2 or EK06.W.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK06.W.EXP	Description	Article	Ref.	Qty
Operator	EAM2	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5.W	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR4	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Battery pack	ZBA6		1

Example of installation



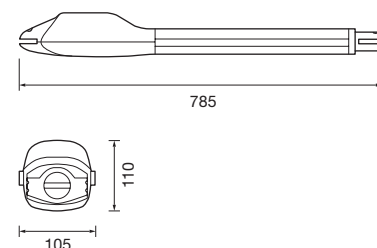
Gate automation - EKKO series



Automation for swing gates

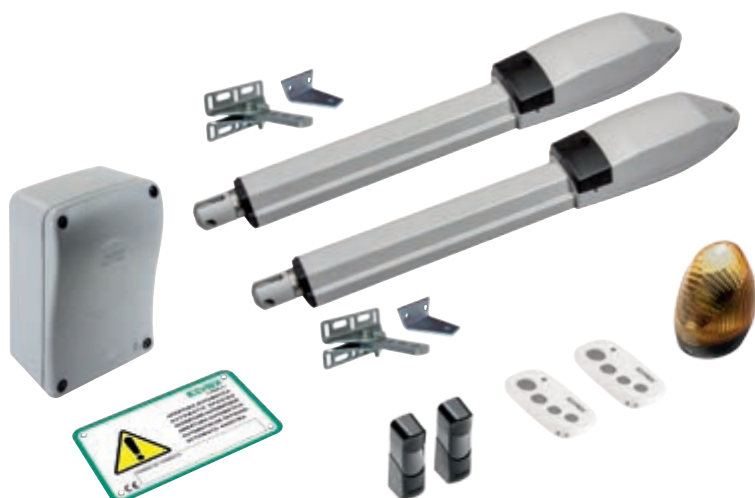
24 V automation system for swing gates, residential and commercial use

EAM2	EKKO 300D non-reversible 24 V electromechanical linear operator for swing gates up to 3 m and 300 kg, complete with fixing brackets and motor with magnetic encoder
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Kit for 2 swing gate leaves up to 3 m (300 kg) each

- ▲ **EK06.W.EXP** EKKO 300D kit for swing gate leaves up to 3 m, 300 kg.
- Containing:
- 2 EAM2 EKKO 300D irreversible 24 Vdc electromechanical operators
 - 1 ECA5.W 24 Vdc display control panel suitable for Wi-Fi connection with smartphone and tablet
 - 1 ELA5 12/24 Vdc LED flashing light, 433 MHz with built-in antenna
 - 2 ETR4 4-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of 180° adjustable photocells
 - 1 ZX20 "Warning: automatic gate" sign



▲ EK06.W.EXP

Control board spare parts

▲ SW24.W	Control card with display and built-in 433 MHz radio receiver for 24 V swing gates operator. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
▲ EMC.W	Wi-Fi communication module for SL24.W, SW24.W control cards. It enables the communication between control cards and smartphone/tablet via Wi-Fi



▲ SW24.W



▲ EMC.W

Gate automation - EKKO series



Automation for swing gates

230 V automation systems for swing gates up to 3.5 m weighing 400 kg

EKKO series linear automation system for swing gates, residential and industrial use. Sturdy thanks to a set of components designed to offer silent operation and durability. The mechanical structure - comprising components lubricated with a special permanent grease, 25 mm endless screws and dual helical gear - was designed to provide maximum silence and reliability.

Main specifications

- gate leaf up to 3.5 m, 400 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- 230 Vac irreversible motor
- 1 m cable for easier connection
- screw-on and bolt-on adjustable anchor brackets

230 V operator technical data

Power supply (Vac)	230
Power (W)	290
Max. absorption (A)	1.2
Gate leaf length (m)	3.5
Gate leaf weight (kg)	400
Opening (°)	110
Opening time (s)	14 to 27
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	888x117x156
Weight (kg)	10
Frequency of use (%)	60
Useful travel (mm)	345

230 V dip switch control board

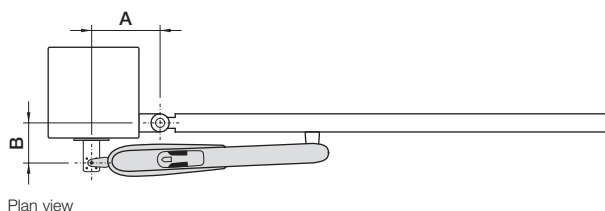
- 2 motors electronic control card RS11, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance in both opening and closing phases
- LED for input diagnostics
- programmable phototest function
- motor force adjustment
- output for electric lock
- special input for timers or loop detectors
- direct cabling for edge 8K2 type EZS

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
3.5	400

Optimum installation dimensions

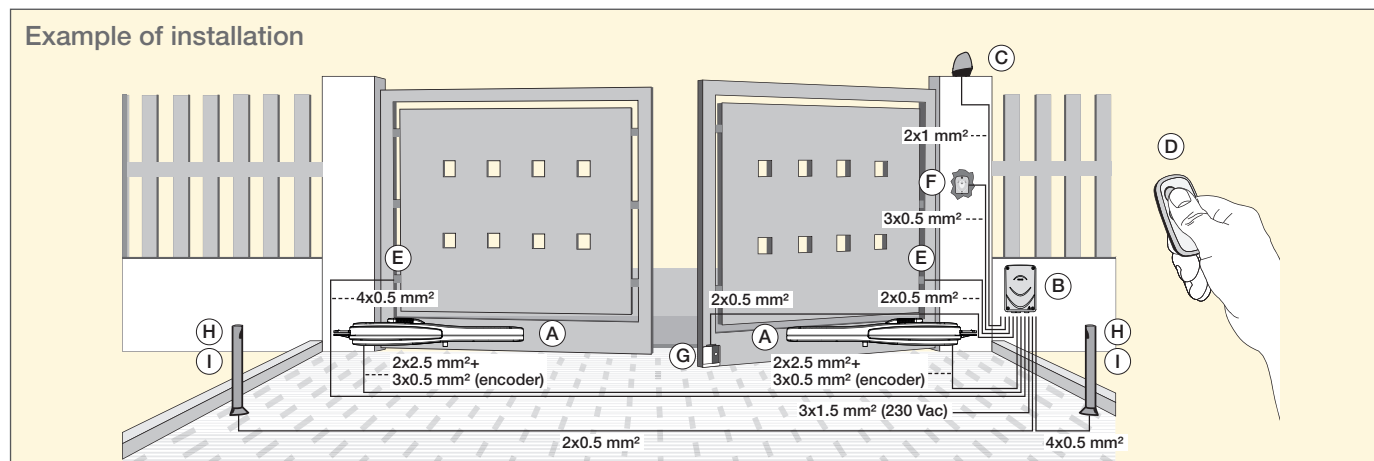
Opening angle	Distance A (mm)	Distance B (mm)
90°	140 mm	170 mm
90°	140 mm	200 mm
110°	130 mm	100 mm
110°	140 mm	110 mm



Components for creating a complete system with EAM4 or EK08.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK08.EXP	Description	Article	Ref.	Qty
Operator	EAM4	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA8	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA6	C	1	YES		ZD14/I		1
Remote control	ETR5	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2

Example of installation



Gate automation - EKKO series



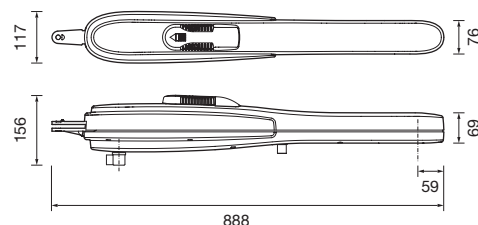
Automation for swing gates

230/120 V automation system for swing gates, residential and industrial use

EAM4	Non-reversible 230 V electromechanical linear operator for swing gates up to 3.5 m and 400 kg, complete with fixing brackets and integrated mechanical opening stop
EAM4.120	As above, 120 Vac supply



EAM4
EAM4.120



Kit for 2 swing gate leaves up to 3.5 m (400 kg) each

EK08.EXP	EKKO 350A kit for swing gate leaves up to 3.5 m, 400 kg. Containing: - 2 EAM4 EKKO 350A irreversible 230 Vac electromechanical operators - 1 ECA8 230 Vac dip switch control panel - 1 ELA6 120/230 Vac LED flashing light, with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
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EK08.EXP

Control board spare parts

RS11	Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 230 Vac EKKO and HIDDY swinging gate operators
RS11.120	As above, 120 Vac supply, for 120 Vac operators



RS11

Gate automation - EKKO series



Automation for swing gates

230 V automation systems for swing gates up to 4 m 200 kg

EKKO series linear automation system for swing gates, residential and industrial use. Sturdy thanks to a set of components designed to offer silent operation and durability. The axial thrust mechanism and the components lubricated by means of special permanent grease are designed to ensure maximum silence and reliability.

Main specifications

- gate leaf up to 4 m, 200 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- 230 Vac irreversible motor
- 1 m cable for easier connection
- screw-on and bolt-on adjustable anchor brackets

230 V operator technical data

Power supply (Vac)	230
Power (W)	240
Absorption (A)	1.1
Gate leaf length (m)	4
Gate leaf weight (kg)	200
Opening (°)	110
Opening time (s)	15 to 22
Protection rating	IP54
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	709x102x198
Weight (kg)	6
Frequency of use (%)	60
Useful travel (mm)	400

230 V dip switch control board

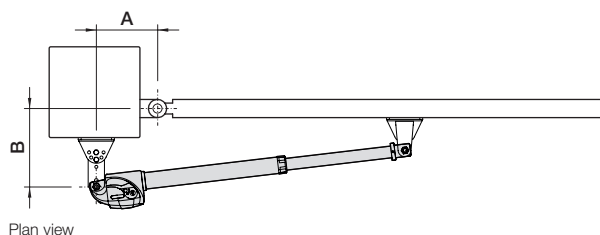
- 2 motors electronic control card RS11, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance speed in both opening and closing phases
- LED for input diagnostics
- programmable phototest function
- motor force adjustment
- output for electric lock
- special input for timers or loop detectors

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
4	200

Optimum installation dimensions

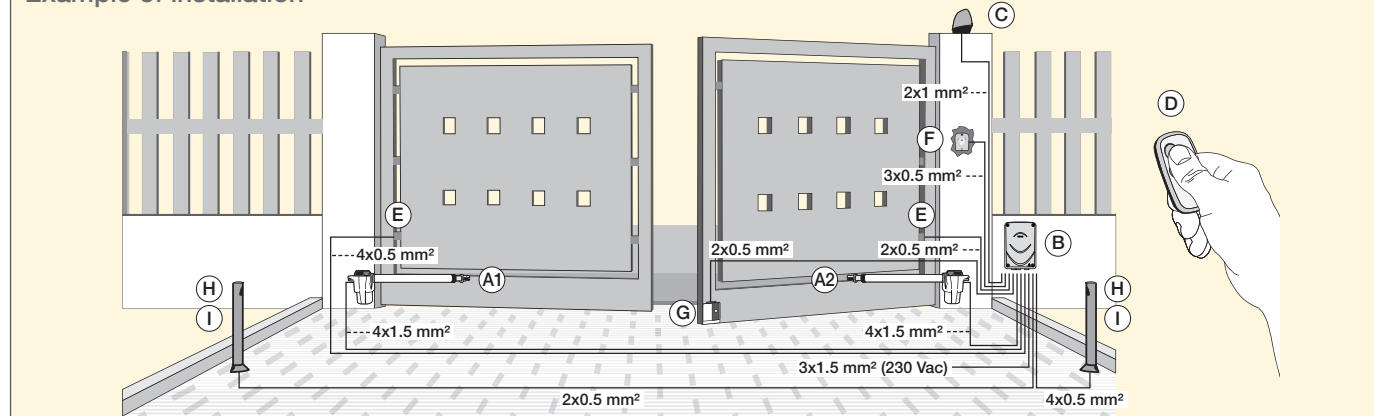
Opening angle	Distance A (mm)	Distance B (mm)
90°	200 mm	200 mm
90°	150 mm	200 mm
110°	150 mm	150 mm
110°	120 mm	120 mm



Components for creating a complete system with EAM9.L and EAM9.R

Main Components				Accessories (optional)			
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Left operator	EAM9.L	A1	1	Electric lock + cylinder	ZD14	G	1
Right operator	EAM9.R	A2	1		ZD14/I		1
Control panel	ECA8	B	1	Post-mounted photocells	EAF3	H	1
Flashing light	ELA6	C	1	Posts	EE21	I	2
Remote control	ETR5	D	1				
Wall-mount photocells	EFA3	E	1				
Key switch	EDS1	F	1				

Example of installation



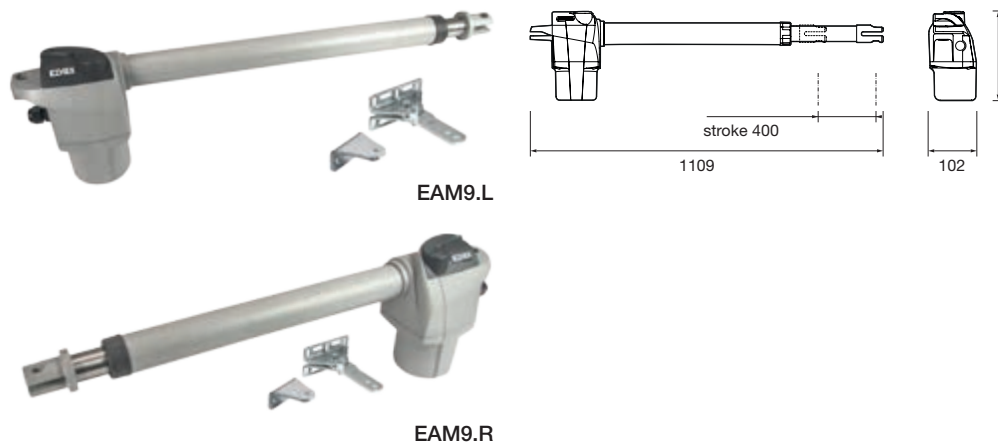
Gate automation - EKKO series



Automation for swing gates

230V automation system for swing gates, residential and industrial use

EAM9.L	EKKO 400A left irreversible 230 Vac electromechanical linear operator for swing gates up to 4 m and 200 kg, complete with adjustable anchor brackets
EAM9.R	EKKO 400A right irreversible 230 Vac electromechanical linear operator for swing gates up to 4 m and 200 kg, complete with adjustable anchor brackets



SWING EKKO AND
EKKO ART

Control board spare parts

RS11	Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 230 Vac EKKO and HIDDY swinging gate operators
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RS11

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 4 m and 250 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 4 m, 250 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Max. absorption (A)	5
Gate leaf length (m)	4
Gate leaf weight (kg)	250
Opening (°)	110
Opening time (s)	15 to 25
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	925x110x105
Weight (kg)	10.2
Frequency of use (%)	100
Useful travel (mm)	430

24 V dip switch control board

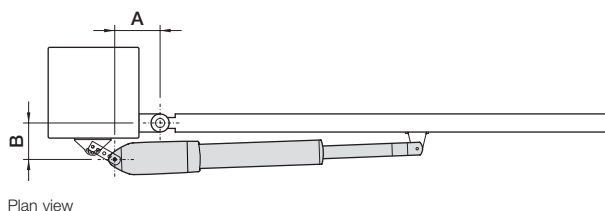
- 2 motors electronic control card RS07, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and in both opening and closing phases
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- current control for electric motor protection
- obstacle detection system
- internal housing of the battery pack and charger to allow operation if the power supply is cut off

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
2.5	550
3	400
3.5	300
4	250

Optimum installation dimensions

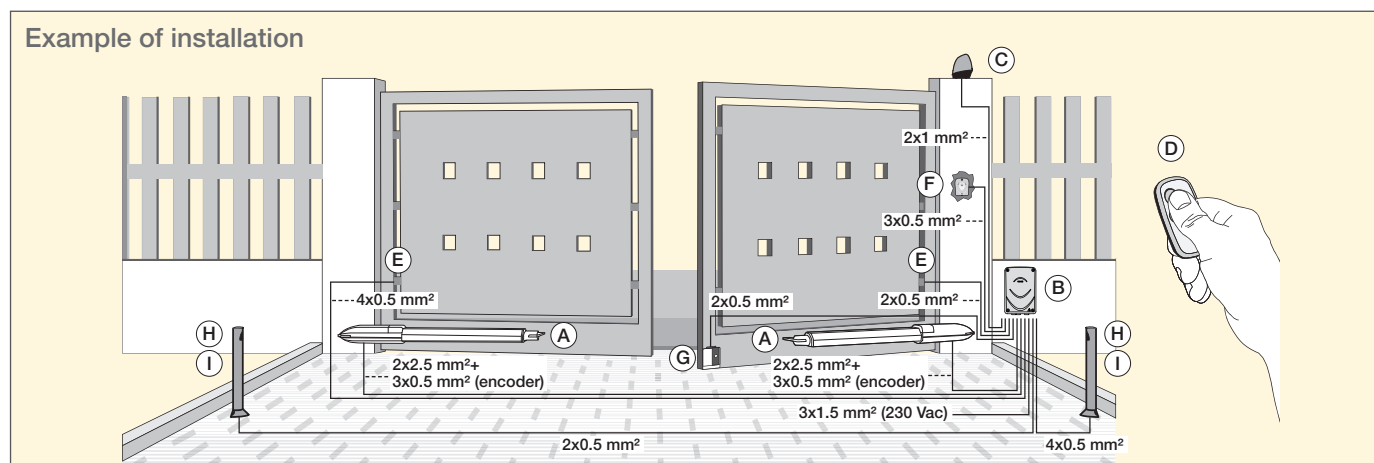
Opening angle	Distance A (mm)	Distance B (mm)
90°	220 mm	210 mm
90°	230 mm	200 mm
110°	190 mm	170 mm
110°	200 mm	160 mm



Components for creating a complete system with EAM3 or EK07.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK07.EXP	Description	Article	Ref.	Qty
Operator	EAM3	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR5	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Pack of 24 V 2.2 Ah batteries	ZBA6		1

Example of installation



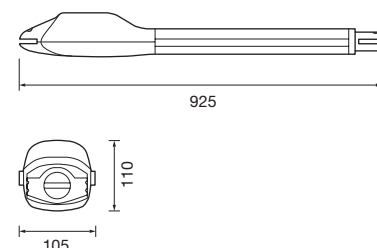
Gate automation - EKKO series



Automation for swing gates

24 V automation system for swing gates, residential and commercial use

EAM3	EKKO 400D non-reversible 24 V electromechanical linear operator for swing gates up to 4 m and 250 kg, complete with fixing brackets and motor with magnetic encoder
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Kit for swing gate leaves up to 4 m (250 kg) each

EK07.EXP	EKKO 400D kit for 2 swing gate leaves up to 4 m, 250 kg. Containing: - 2 EAM3 EKKO 400D irreversible 24 V electromechanical operators - 1 ECA5 24 Vdc dip switch control panel - 1 ELA5 12/24 Vdc LED flashing light, with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
EK07.EXP.120	As above, with ECA5.120 and without ECA5, for 120 Vac power supply
EK07.AL	As above, with 1 ETR5 and 1 EFA3, without ELA5, EFA1 and ZX20
EK19.EXP	EKKO 400D kit for 1 swing gate leaf up to 4 m, 250 kg. Containing: - 1 EAM3 EKKO 400D irreversible 24 Vdc electromechanical operator - 1 ECA5 24 Vdc dip switch control panel - 1 ELA5 12/24 Vdc LED flashing light, with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
EK19.EXP.120	As above, with ECA5.120 and without ECA5, for 120 Vac power supply



EK07.EXP
EK07.EXP.120

Control board spare parts

RS07	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operators
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RS07

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 4 m and 250 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 4 m, 250 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Max. absorption (A)	5
Gate leaf length (m)	4
Gate leaf weight (kg)	250
Opening (°)	110
Opening time (s)	15 to 25
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	925x110x105
Weight (kg)	10.2
Frequency of use (%)	100
Useful travel (mm)	430

24 V display control board

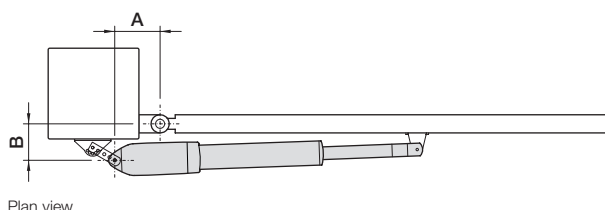
- 2 motors electronic control card RS08, with easy and fast programming, built-in radio receiver, weather resistant
- display programming with optional password protection for parameter programming, remote controls or both
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance and speed in both opening and closing phases
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- error log display
- current control for electric motor protection
- obstacle detection system
- internal housing of the battery pack and charger to allow operation if the power supply is cut off

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
2.5	550
3	400
3.5	300
4	250

Optimum installation dimensions

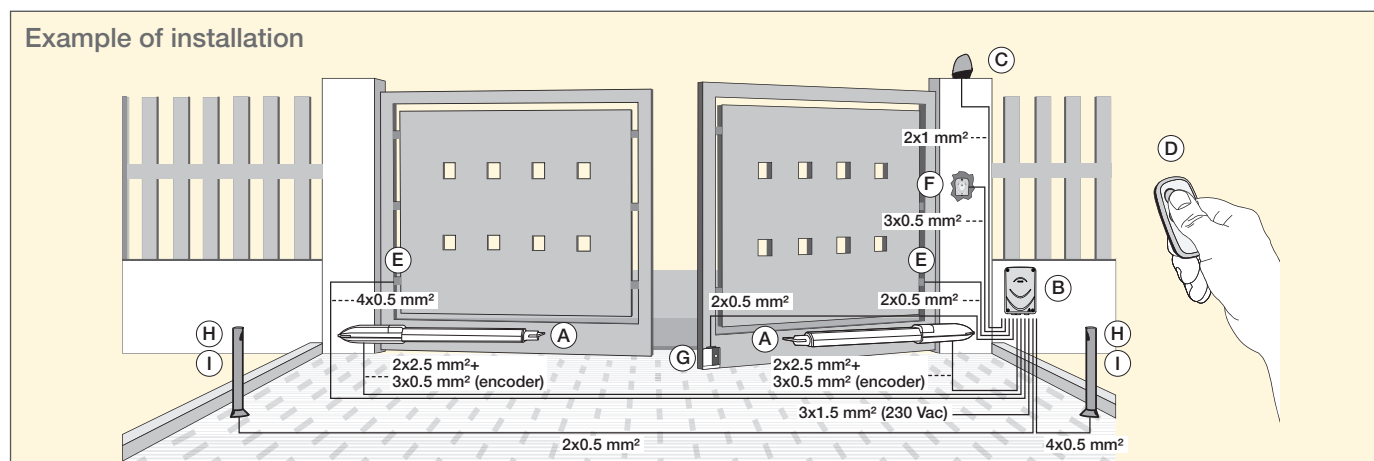
Opening angle	Distance A (mm)	Distance B (mm)
90°	220 mm	210 mm
90°	230 mm	200 mm
110°	190 mm	170 mm
110°	200 mm	160 mm



Components for creating a complete system with EAM3 or EK07.D.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK07.D.EXP	Description	Article	Ref.	Qty
Operator	EAM3	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5.D	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR4	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Pack of 24 V 2.2 Ah batteries	ZBA6		1

Example of installation



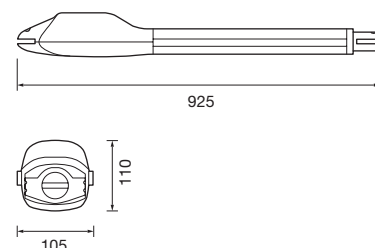
Gate automation - EKKO series



Automation for swing gates

24 V automation system for swing gates, residential and commercial use

EAM3 EKKO 400D non-reversible 24 V electromechanical linear operator for swing gates up to 4 m and 250 kg, complete with fixing brackets and motor with magnetic encoder

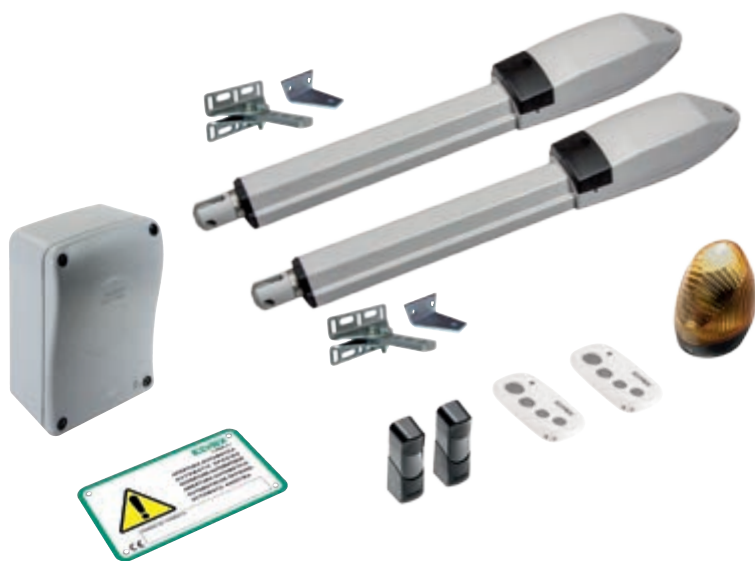


EAM3

Kit for swing gate leaves up to 4 m (250 kg) each

EK07.D.EXP EKKO 400D kit for 2 swing gate leaves up to 4 m, 250 kg.
Containing:

- 2 EAM3 EKKO 400D irreversible 24 Vdc electromechanical operators
- 1 ECA5.D 24 Vdc display control panel
- 1 ELA5 12/24 Vdc LED flashing light, with built-in antenna
- 2 ETR4 4-channel 433 MHz rolling code remote control
- 1 EFA1 pair of 180° adjustable photocells
- 1 ZX20 "Warning: automatic gate" sign



EK07.D.EXP

Control board spare parts

RS08 Electronic control card with built-in display and 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operator



RS08

Gate automation - EKKO series



Automation for swing gates

24 V automation systems for swing gates up to 4 m and 250 kg

Linear automation system for swing gates, residential and commercial use. Sturdy thanks to high quality materials, 24 mm worm-drive and steel pipe, designed to withstand intensive use. Lubrication with permanent grease. Painted die-cast aluminium fixings. Protected cable output at the bottom of the operator.

Main specifications

- gate leaf up to 4 m, 250 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- screw-on and bolt-on adjustable anchor brackets

24 V display control board

- 2 motors electronic control card SW24.W, with easy and fast programming, built-in radio receiver, weather resistant
- programming from the display or via Wi-Fi from a smartphone with the Wi-Gate app and additional EMC.W card. Optional password protection for parameter programming, remote controls or both
- 433 MHz radio receiver for 4032 radio codes (fixed or rolling code)
- settings memory and removable remote controls
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- programmable phototest function
- electric solenoid, magnetic or drop lock output
- current control for electric motor protection
- automatic travel programming
- pedestrian opening
- fully configurable inputs and outputs

Wi-Fi connection module

- additional module for Wi-Fi connection of SL24.W and SW24.W cards
- access to the automation system card from the Wi-Gate app

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	120
Max. absorption (A)	5
Gate leaf length (m)	4
Gate leaf weight (kg)	250
Opening (°)	110
Opening time (s)	15 to 25
Protection rating	IP44
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	925x110x105
Weight (kg)	10.2
Frequency of use (%)	100
Useful travel (mm)	430

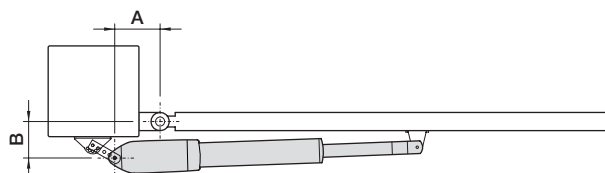
- terminal blocks grouped into functional blocks with standard colouring and numbering for rapid, foolproof wiring
- USB port for firmware updating

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
2.5	550
3	400
3.5	300
4	250

Optimum installation dimensions

Opening angle	Distance A (mm)	Distance B (mm)
90°	220 mm	210 mm
90°	230 mm	200 mm
110°	190 mm	170 mm
110°	200 mm	160 mm



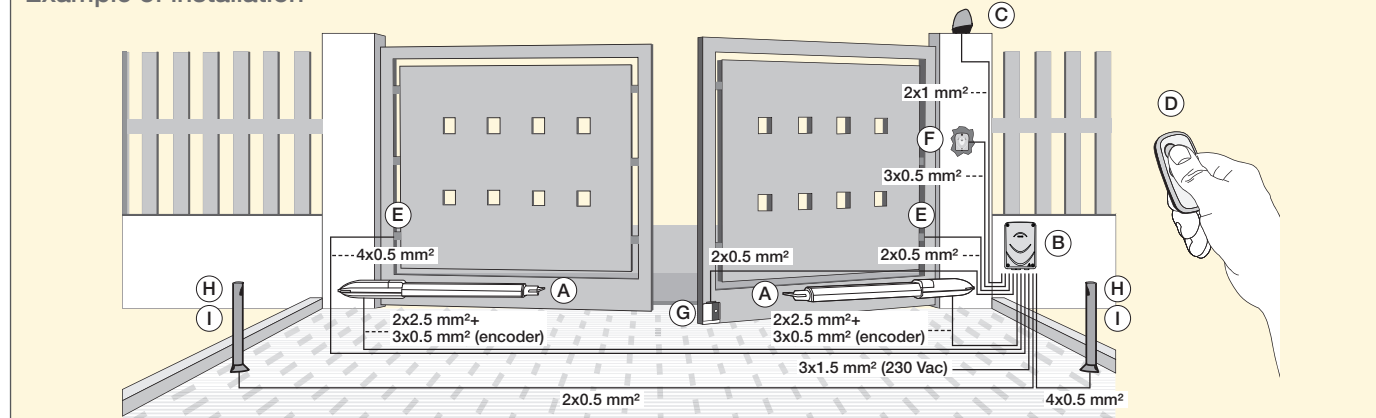
Plan view

- WPA-PSK connection protection
- LED indicator for connection status

Components for creating a complete system with EAM3 or EK07.W.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK07.W.EXP	Description	Article	Ref.	Qty
Operator	EAM3	A	2	YES	Key switch	EDS1	F	1
Control panel	ECA5.W	B	1	YES	Electric lock + cylinder	ZD14	G	1
Flashing light	ELA5	C	1	YES		ZD14/I		1
Remote control	ETR4	D	2	YES	Post-mounted photocells	EFA1	H	1
Wall-mount photocells	EFA1	E	1	YES	Posts	EE21	I	2
					Pack of 24 V 2.2 Ah batteries	ZBA6		1

Example of installation



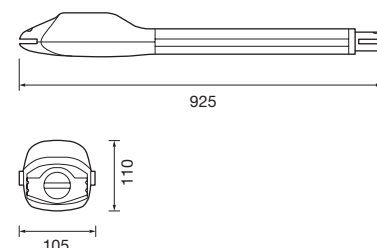
Gate automation - EKKO series



Automation for swing gates

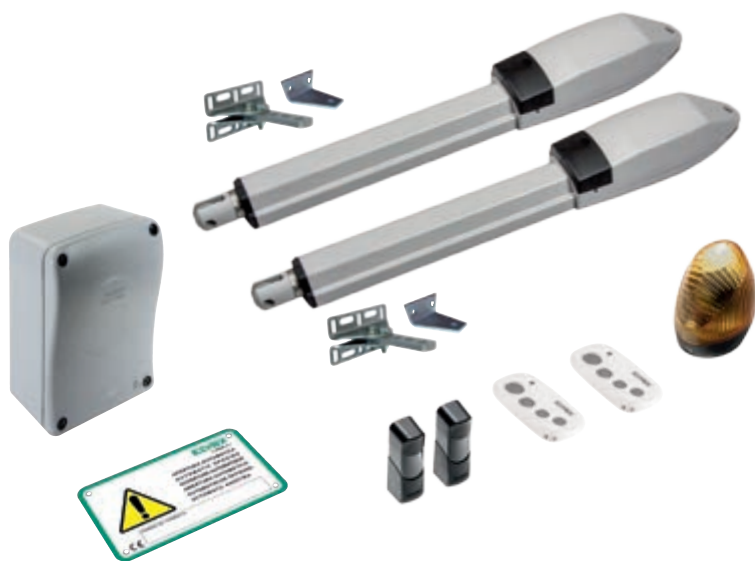
24 V automation system for swing gates, residential and commercial use

EAM3	EKKO 400D non-reversible 24 V electromechanical linear operator for swing gates up to 4 m and 250 kg, complete with fixing brackets and motor with magnetic encoder
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Kit for swing gate leaves up to 4 m (250 kg) each

- ▲ **EK07.W.EXP** EKKO 400D kit for 2 swing gate leaves up to 4 m, 250 kg.
- Containing:
- 2 EAM3 EKKO 400D irreversible 24 Vdc electromechanical operators
 - 1 ECA5.W 24 Vdc display control panel suitable for Wi-Fi connection with smartphone and tablet
 - 1 ELA5 12/24 Vdc LED flashing light, with built-in antenna
 - 2 ETR4 4-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of 180° adjustable photocells
 - 1 ZX20 "Warning: automatic gate" sign



▲ EK07.W.EXP

Control board spare parts

- ▲ **SW24.W** Control card with display and built-in 433 MHz radio receiver for 24 V swing gates operator. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
- ▲ **EMC.W** Wi-Fi communication module for SL24.W, SW24.W control cards. It enables the communication between control cards and smartphone/tablet via Wi-Fi



▲ SW24.W



▲ EMC.W

Gate automation - EKKO series



Automation for swing gates

230 V automation systems for swing gates up to 5 m weighing 500 kg

EKKO series linear automation system for swing gates, residential and industrial use. Sturdy thanks to a set of components designed to offer silent operation and durability. The mechanical structure - comprising components lubricated with a special permanent grease, 25 mm endless screws and dual helical gear - was designed to provide maximum silence and reliability.

Main specifications

- gate leaf up to 5 m, 500 kg
- simple release by means of a customised key, which can be used to open and close the gate if the power supply is cut off
- 230 Vac irreversible motor
- 1 m cable for easier connection
- screw-on and bolt-on anchor brackets

230 V operator technical data

Power supply (Vac)	230
Power (W)	290
Max. absorption (A)	1.2
Gate leaf length (m)	5
Gate leaf weight (kg)	500
Opening (°)	110
Opening time (s)	20 to 30
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	1020x117x156
Weight (kg)	10
Frequency of use (%)	60
Useful travel (mm)	470

230 V dip switch control board

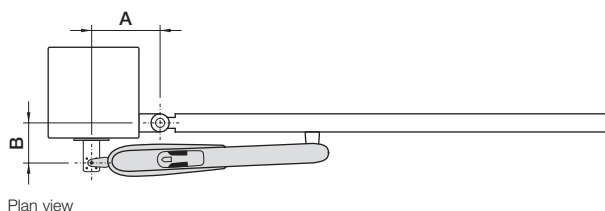
- 2 motors electronic control card RS11, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance in both opening and closing phases
- LED for input diagnostics
- programmable phototest function
- motor force adjustment
- output for electric lock
- special input for timers or loop detectors
- direct cabling for edge 8K2 type EZS

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
5	500

Optimum installation dimensions

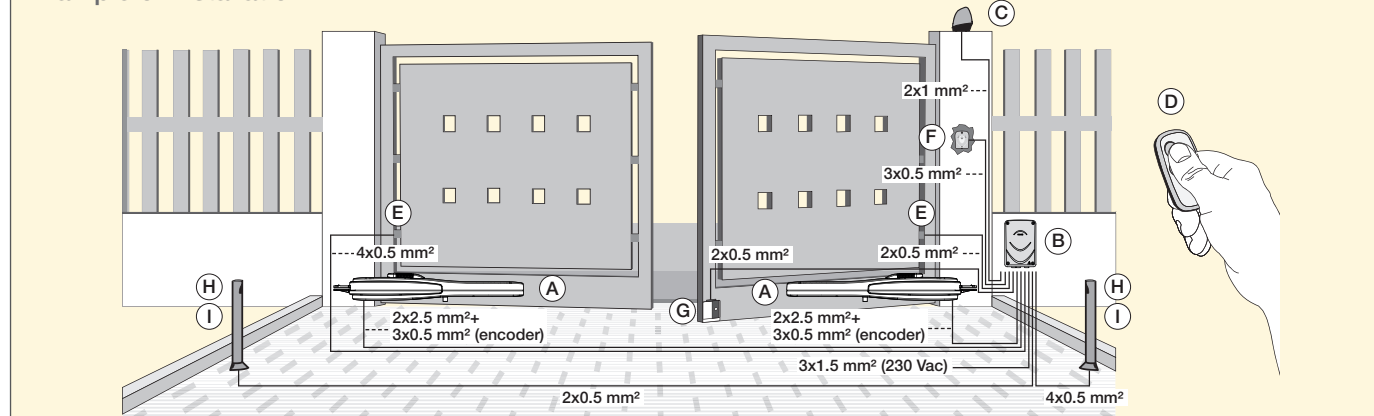
Opening angle	Distance A (mm)	Distance B (mm)
90°	190 mm	190 mm
90°	210 mm	214 mm
110°	150 mm	160 mm
110°	230 mm	190 mm



Components for creating a complete system with EAM4.L or EK08.L kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK08.L	Description	Article	Ref.	Qty
Operator	EAM4.L	A	2	YES	Electric lock + cylinder	ZD14	G	1
Control panel	ECA8	B	1	YES		ZD14/I		1
Flashing light	ELA6	C	1	YES	Post-mounted photocells	EFA1	H	1
Remote control	ETR5	D	1	YES	Posts	EE21	I	2
Wall-mount photocells	EFA1	E	1	YES				
Key switch	EDS1	F	1	YES				

Example of installation



Gate automation - EKKO series



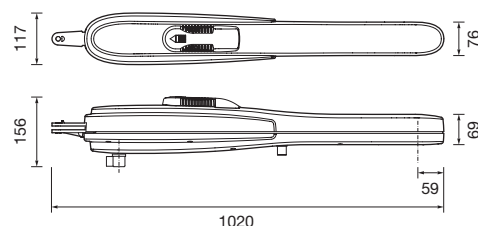
Automation for swing gates

230 V automation system for swing gates, residential and industrial use

- ▲ **EAM4.L** Non-reversible 230 V electromechanical linear operator for swing gates up to 5 m and 500 kg, complete with fixing brackets and integrated mechanical opening stop



▲ EAM4.L



Kit for 2 swing gate leaves up to 3.5 m (400 kg) each

- ▲ **EK08.L** EKKO 500A kit for swing gate leaves up to 5 m, 500 kg.
Containing:
- 2 EAM4.L EKKO 500A irreversible 230 Vac electromechanical operators
 - 1 ECA8 230 Vac dip switch control panel
 - 1 ELA6 120/230 Vac LED flashing light, with built-in antenna
 - 1 ETR5 2-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of 180° adjustable photocells
 - 1 EDS1 aluminium wall-mount key switch
 - 1 ZX20 "Warning: automatic gate" sign



▲ EK08.L

Control board spare parts

- RS11** Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 230 Vac EKKO and HIDDY swinging gate operators



RS11

Accessories and spare parts

Control panels for swing gate automation systems

▲ ECA1	Control panel for 12 V swing gates operators. Complete with box, transformer, dip switch and trimmer control board and built-in 433 MHz radio receiver for fixed code or rolling code
ECA1.120	As above. 120 Vac supply.
ECA5	Control panel for 24 V swing gates operators. Complete with box, transformer, dip switch and trimmer control board and built-in 433 MHz radio receiver for fixed code or rolling code
ECA5.120	As above. 120 Vac supply.
ECA5.D	Control panel for 24 V swing gates operators. Complete with box, transformer, display control board and built-in 433 MHz radio receiver for fixed code or rolling code
▲ ECA5.W	Control unit with display with built-in 433 MHz radio receiver for 24 V automatic swing gate systems. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
ECA8	Control panel for 230 V swing gates operators. Complete with box, dip switch and trimmer control board and built-in 433 MHz radio receiver for fixed code or rolling code
ECA8.120	As above. 120 Vac supply.
▲ ECA9.P	Control panel with power supply 100 - 240 V 50/60 Hz for 24 V EKKO 204D swing automation systems. Complete with box, dip switch and trimmer control board and built-in battery charger and 433 MHz radio receiver for fixed code or rolling code
▲ MEM.W	Additional memory module for control units and receivers .W supplied of Wi-Fi connectivity, it is used as back-up module for control units .W and as memory expansion module for ECRU.W receiver. Supplied with SL24.W and SW24.W
▲ 433RAD.W	433 MHz radio receiver module for control units .W supplied of Wi-Fi connectivity



ECAx



▲ MEM.W



▲ 433RAD.W

Cable

ZX23	12/24 V gate automation cable, 2x2 mm ² conductors for motor connection + 3x0,5 mm ² for encoder connection - 15 m bundle
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ZX23

Locks

ZD04	12 V horizontal multiple electrical lock, two-way
ZD14	12 V electrical lock with rotating bolt, vertical installation on doors and gates. Requires full cylinder ZD14/I or half cylinder ZD14/M
ZD14/I	Full cylinder with European profile for electrical lock ZD14
ZD14/M	Half cylinder with European profile for electrical lock ZD14



ZD04



ZD14



ZD14/I



ZD14/M

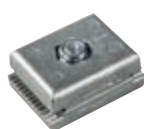
Accessories and spare parts

Mechanical stops

EAX3	Integrated mechanical closing stop for EKKO 350A linear actuators
EAX4	Integrated mechanical closing stop for EKKO 204D linear operators
ZD27	Mechanical opening and closing limit stop kit for swing gate leaves



ZD14



EAX4



ZD27

Batteries and battery chargers

ZBA3	12 V 1.3 Ah spare Pb rechargeable battery
ZBA6	24 V 2.2 Ah NiMH rechargeable battery pack with built-in battery charger for ESM2, ESM2.D, ECA5, ECA5.D
ZBA7	Set of 2 rechargeable Pb 12 V 1.3 Ah batteries with mounting frame and wiring harness for operator ESM7 and control unit ECA9
ECB5	12 V lead battery charger for control panels for 12 V ACTO/EKKO operators
ZXA7	Mounting frame for rechargeable Pb 12 V 1.3 Ah batteries and wiring harness for operator ESM7 and control unit ECA9 (batteries not supplied)



ZBA3



ZBA6



ZBA7



ECB5



ZXA7

Spare parts

R309	Transformer 230-12V~ 150VA, for operator ESM1 and ECA1 control panel
R309.120	Transformer 120-12V~ 150VA, for ESM1.120 operators and ECA1.120 control units
R319	Transformer 230-24V~ 150VA, for ESM2 operators and ECA5 control units
R319.120	Transformer 120-24V~ 150VA, for ESM2.120 operators and ECA5.120 control units
REA5	Lock with key for EAM2 and EAM3
REA6	Release cover EAM2 and EAM3
RA60	Cabling cover for EAM7
RA67	Cover for release and key for EAM7
RA46	Flap covering terminal block EAM1, EAM2, EAM3
REA7	Key to unlock EAM1
ZX33	Master key for ESM1, ESM2, EAM2, EAM3 (useful for ES07, ES09, EA25, EA50)
ZX79	Blank release key for ESM4, ESM5, ESM6 and EAM4



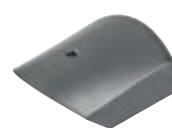
R319



REA5



REA6



RA60



RA67



REA7



ZX33



ZX79

Accessories and spare parts

Spare parts

ZX81	Release key for ESM7 and EAM7
ZX85	Blank release key for EAM8 and EAM9
RA27	Release and key for ESM4, ESM5, ESM6 and EAM4
RA41	Front and rear anchoring brackets for EAM2 and EAM3
RA42	Front and rear anchoring brackets for EAM4
RA65	Anchoring brackets for EAM7
RA105	Front and rear fixing bracket for EAM8 and EAM9
RA37	Capacitor for ESM3, EAM4, EIM2
RA37.120	Capacitor for ESM3.120, EAM4.120, EIM2.120
RA107	Capacitor for EAM8 and EAM9
ECE2	Plug-in encoder board for RS07, RS08
RA48	EAM2 worm screw and stem assembly
RA49	EAM3 worm screw and stem assembly
RA63	EAM7 worm screw assembly
RA47	EAM2, EAM3 motor assembly
RA61	EAM7 motor assembly
RA62	EAM7 reduction assembly
RA64	EAM7 lead nut assembly



Caution sign

ZX20	"Caution automatic gate" polypropylene sign
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Accessories and spare parts

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, power supply 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZP...GA



EZS...GA



ECR2.FL

Gate automation - EKKO ART series



Automation for swing gates

24 V automation systems for swing gates up to 2 m and 200 kg

Articulated automation system for swing gates with integrated control board, residential use. Maximum gate leaf opening 105° with standard lever equipped with an anti-intrusion locking system. Suitable for installation on large pillars. Quick and easy installation.

Main specifications

- gate leaf up to 2 m, 200 kg
- easy and intuitive manual release
- wired external release installation option
- obstacle detection for maximum safety and slow down speed adjustment
- built-in mechanical stops on the bottom of the operator, easy to adjust in order to determine precise gate leaf opening and closing stop points
- integrated RS12 control board for 2 motors
- internal housing of the batteries and charger to allow operation if the power supply is cut off

24 V dip switch control board

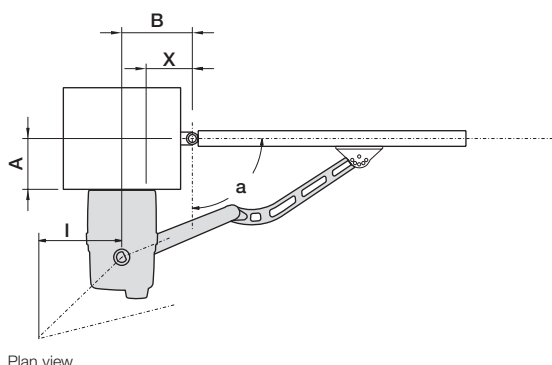
- RS12 control board for 2 motors with built-in radio receiver
- radio receiver for 80 remote control codes (rolling code)
- slow down speed adjustment in both opening and closing phases
- obstacle detection system
- LED for input diagnostics
- current control for electric motor protection
- programmable phototest function
- output for electric lock

24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	72
Gate leaf length (m)	2
Gate leaf weight (kg)	200
Opening (°)	105
Opening time (s)	15 to 20
Protection rating	IP44
Operating temperature (Min./Max. °C)	-30 to +55
Dimensions (mm)	190x280x275
Weight (kg)	7.5 (EAM5), 7 (EAM6)
Frequency of use (%)	80

Optimum installation dimensions

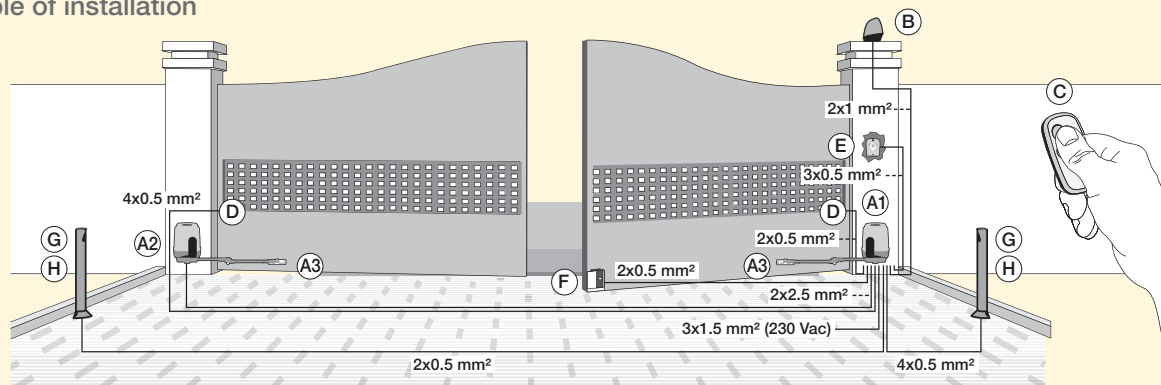
Opening angle	Distance A	Distance X	Distance B	Distance I
90°	140 mm	60 mm	130 mm	300 mm
90°	200 mm	70 mm	140 mm	270 mm
90°	205 mm	80 mm	150 mm	230 mm
90°	225 mm	90 mm	160 mm	135 mm
95°	0 mm	70 mm	140 mm	284 mm
100°	0 mm	90 mm	160 mm	302 mm
105°	0 mm	110 mm	180 mm	315 mm
110°	0 mm	155 mm	225 mm	322 mm



Components for creating a complete system with EAM5.N and EAM6.N or EK09.N kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK09.N	Description	Article	Ref.	Qty
MASTER operator	EAM5.N	A1	1	YES	Electric lock + cylinder	ZD14	F	1
SLAVE operator	EAM6.N	A2	1	YES		ZD14/I		1
Flashing light	ELA5	B	1	YES	Post-mounted photocells	EFA1	G	1
Remote control	ETR5	C	1	YES	Posts	EE21	H	2
Wall-mount photocells	EFA1	D	1	YES	Battery charger	ECB4		1
Key switch	EDS1	E	1	YES	Battery 12 V 1.3 Ah	ZBA5		2

Example of installation



Gate automation - EKKO ART series



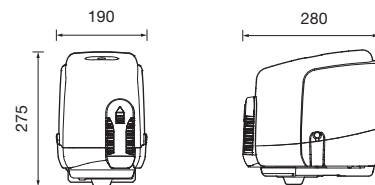
Automation for swing gates

24 V automation system for swing gates, residential use

▲ EAM5.N	Non-reversible 24 V MASTER electromechanical operator with articulated arm for swing gates up to 2 m and 200 kg, complete with electronic control card, integrated mechanical opening and closing stops and fixing brackets
▲ EAM6.N	Non-reversible 24 V SLAVE electromechanical operator with articulated arm for swing gates up to 2 m and 200 kg, complete with integrated mechanical opening and closing stops and fixing brackets



▲ EAM5.N
▲ EAM6.N



SWING EKKO AND
EKKO ART

Kit for 2 swing gate leaves up to 2 m (200 kg) each

▲ EK09.N	EKKO art. 200D kit for 2 swing gate leaves up to 2 m, 200 kg. Containing: <ul style="list-style-type: none"> - 1 EAM5.N EKKO ART 200D MASTER 24 Vdc irreversible electromechanical operator with articulated arm and integrated control board - 1 EAM6.N EKKO ART 200D SLAVE 24 Vdc irreversible electromechanical operator with articulated arm - 2 EAX1.N complete arm for up to 240 mm posts - 1 ELA5 12/24 Vdc LED flashing light, with built-in antenna - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 EDS1 aluminium wall-mount key switch - 1 ZX20 "Warning: automatic gate" sign
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▲ EK09.N

Control board spare parts

RS12	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V swing automation systems for EKKO ART 200D MASTER operators
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RS12

Gate automation - EKKO ART series



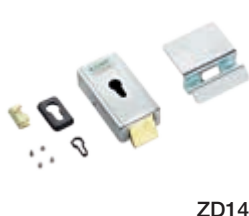
Accessories and spare parts

Locks

ZD04	12 V horizontal multiple electrical lock, two-way
ZD14	12 V electrical lock with rotating bolt, vertical installation on doors and gates. Requires full cylinder ZD14/I or half cylinder ZD14/M
ZD14/I	Full cylinder with European profile for electrical lock ZD14
ZD14/M	Half cylinder with European profile for electrical lock ZD14



ZD04



ZD14



ZD14/I



ZD14/M

Mechanical stops

ZD27	Mechanical opening and closing limit stop kit for swing gate leaves
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ZD27

Batteries and battery chargers

ZBA5	12 V 2.2 Ah spare Pb rechargeable battery for EAM5
ECB4	24 V lead battery charger for EAM5



ZBA5



ECB4

Levers

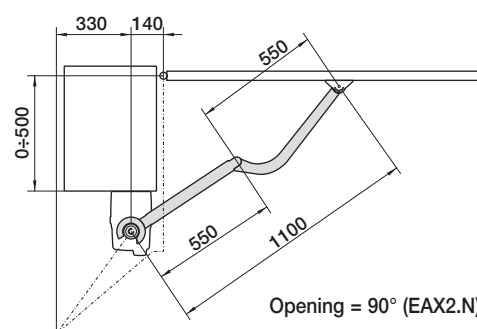
▲ EAX1.N	Articulated arm for EKKO ART 200D articulated operators on gate leaves with hinges up to 225 mm away from the inner side of the post
▲ EAX2.N	Long articulated arm for EKKO ART 200D articulated operators on gate leaves with hinges up to 500 mm away from the inner side of the post



▲ EAX1.N



▲ EAX2.N



Controls

EDP4	10 A 250 V aluminium enclosure~, manual release and button, facility for alarm activation button
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EDP4

Accessories and spare parts

Spare parts

R324	Transformer 230V-24V~ for EAM5
RA33	Cover for EAM5 and EAM6
RA34	Release and key for EAM5 and EAM6
RA35	Release key for EAM5 and EAM6



R324



RA34



RA35

Caution sign

ZX20	"Caution automatic gate" polypropylene sign
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ZX20

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, power supply 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZP...GA



EZS...GA



ECR2.FL

Other accessories and devices for automation systems are listed from page 160

Gate automation - HIDDY series



Automation for swing gates

24 V automation systems for swing gates up to 2 m and 200 kg

Underground automation system for swing gates, residential use. Operator made entirely of die-cast aluminium with steel reduction gears to guarantee long-term silent operation. Lubrication with permanent grease.

Main specifications

- gate leaf up to 2 m, 200 kg
- gate leaf opening up to 180° without other accessories
- motor completely watertight with IP67 rating
- 2 m of cable supplied for connections outside the foundation box
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- small, easy to install foundation box, with long-life anti-rust treatment

- stainless steel motor shaft aligned with the gate
- Sturdy and reliable manual release system

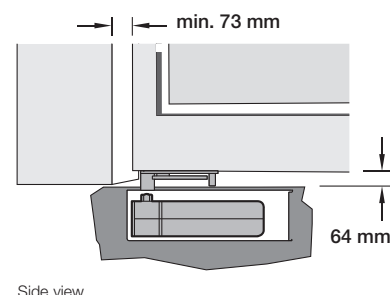
24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	144
Max. absorption (A)	6
Gate leaf length (m)	2
Gate leaf weight (kg)	200
Opening (°)	180
Opening time (s)	12 to 22
Protection rating	IP67
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	365x147x97
Weight (kg)	8
Frequency of use (%)	100

24 V dip switch control board

- 2 motors electronic control card RS07, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 200 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slowdown distance and speed in both opening and closing phases
- programmable phototest function
- output for electric lock
- LED for input diagnostics
- current control for electric motor protection
- obstacle detection system
- internal housing of the battery pack and charger to allow operation if the power supply is cut off

Limitations of use	
Gate leaf length (m)	Max. gate leaf weight (kg)
1	250
1.5	230
2	200

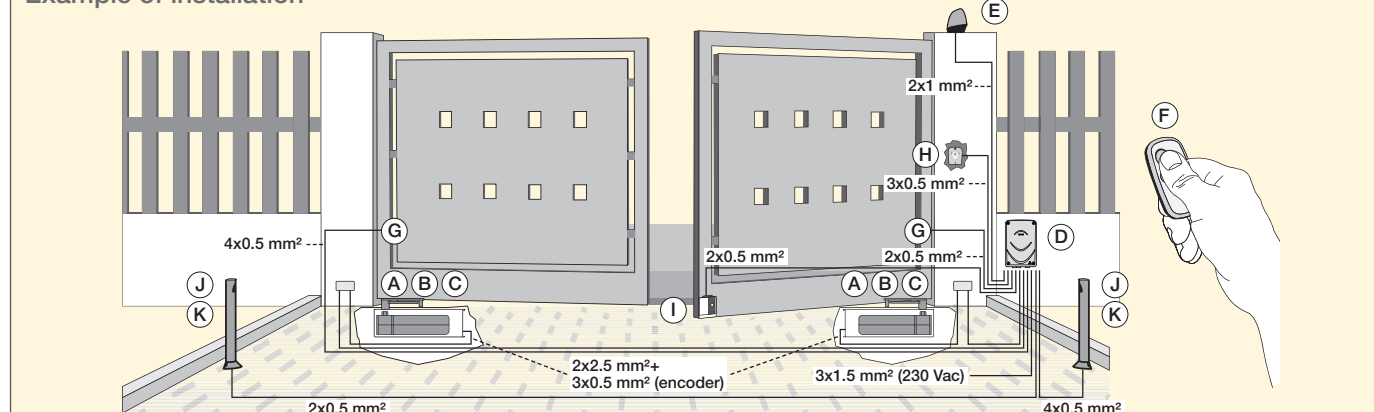


Side view

Components for creating a complete system with EIM1 or EK10.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK10.EXP	Description	Article	Ref.	Qty
Operator	EIM1	A	2	YES	Key switch	EDS1	H	1
Foundation box	ZX41	B	2	NO	Electric lock + cylinder	ZD14	I	1
Release	ED11	C	2	NO	Post-mounted photocells	ZD14/I		1
Control panel	ECA5	D	1	YES	Posts	EFA1	J	1
Flashing light	ELA5	E	1	YES	Pack of 24 V 2.2 Ah batteries	EE21	K	2
Remote control	ETR5	F	2	YES		ZBA6		1
Wall-mount photocells	EFA1	G	1	YES				

Example of installation



Gate automation - HIDDY series



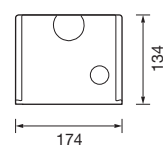
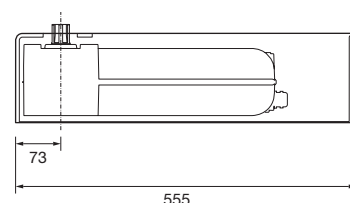
Automation for swing gates

24 V automation system for swing gates, residential use

EIM1	HIDDY 200D non-reversible 24 V electromechanical underground operator for swing gates with leaves up to 2 m and 200 kg, residential use, magnetic encoder, supplied with 2 m of cable
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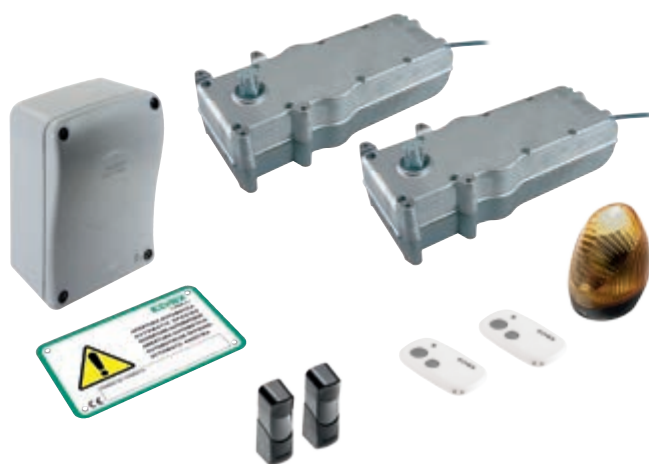


EIM1



Kit for 2 swing gate leaves up to 2 m (200 kg) each

EK10.EXP	HIDDY 200D kit for 2 swing gate leaves up to 2 m, 200 kg. Containing: - 2 EAM1 HIDDY 200D irreversible 24 Vdc electromechanical operators - 1 ECA5 24 V dip switch control panel - 1 ELA5 12/24 V LED flashing light, with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
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EK10.EXP

Control board spare parts

RS07	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operators
RS08	Electronic control card with built-in display and 433 MHz radio receiver for 24 V swing automation systems for EKKO and HIDDY operator



RS07



RS08

Gate automation - HIDDY series



Automation for swing gates

24 V automation systems for swing gates up to 2 m and 200 kg

Underground automation system for swing gates, residential use. Operator made entirely of die-cast aluminium with steel reduction gears to guarantee long-term silent operation. Lubrication with permanent grease.

Main specifications

- gate leaf up to 2 m, 200 kg
- gate leaf opening up to 180° without other accessories
- motor completely watertight with IP67 rating
- 2 m of cable supplied for connections outside the foundation box
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- small, easy to install foundation box, with long-life anti-rust treatment

24 V display control board

- 2 motors electronic control card SW24.W, with easy and fast programming, built-in radio receiver, weather resistant
- programming from the display or via Wi-Fi from a smartphone with the Wi-Gate app and additional EMC.W card. Optional password protection for parameter programming, remote controls or both
- 433 MHz radio receiver for 4032 radio codes (fixed or rolling code)
- settings memory and removable remote controls
- customisation of slow down distance and speed in both opening and closing phases
- obstacle detection system
- programmable phototest function
- electric solenoid, magnetic or drop lock output
- current control for electric motor protection
- automatic travel programming

Wi-Fi connection module

- additional module for Wi-Fi connection of SL24.W and SW24.W cards
- access to the automation system card from the Wi-Gate app

- stainless steel motor shaft aligned with the gate
- Sturdy and reliable manual release system

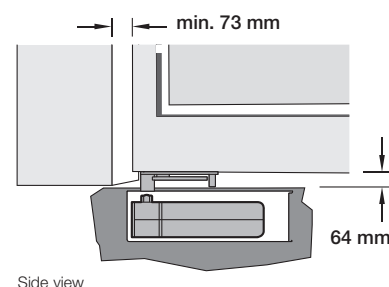
24 V operator technical data

Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	144
Max. absorption (A)	6
Gate leaf length (m)	2
Gate leaf weight (kg)	200
Opening (°)	180
Opening time (s)	12 to 22
Protection rating	IP67
Operating temperature (Min./Max. °C)	-20 to +55
Dimensions (mm)	365x147x97
Weight (kg)	8
Frequency of use (%)	100

- pedestrian opening
- fully configurable inputs and outputs
- terminal blocks grouped into functional blocks with standard colouring and numbering for rapid, foolproof wiring
- USB port for firmware updating

Limitations of use

Gate leaf length (m)	Max. gate leaf weight (kg)
1	250
1.5	230
2	200

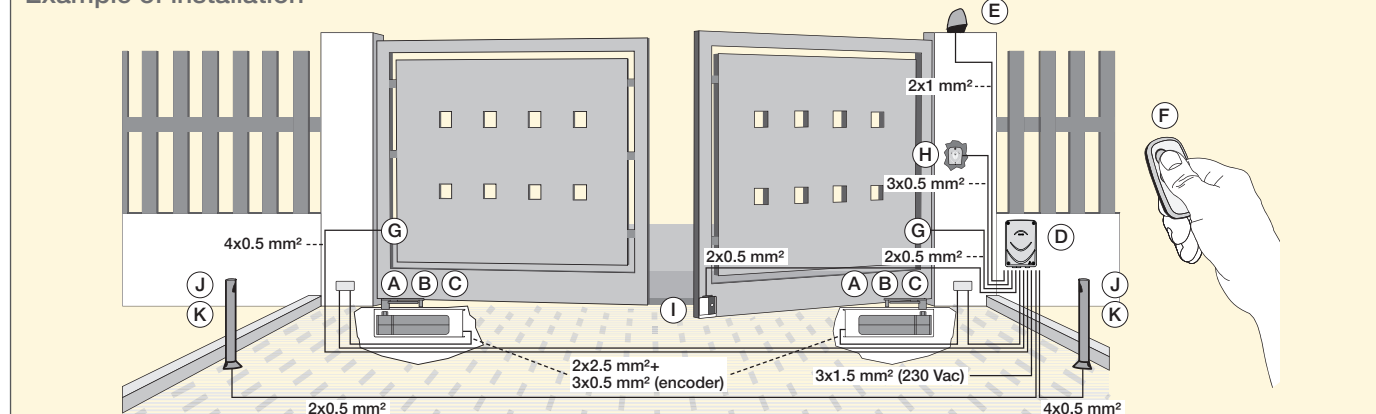


Side view

Components for creating a complete system with EIM1 or EK10.W.EXP kit

Main Components					Accessories (optional)				
Description	Article	Ref.	Qty	Components in kit EK10.W.EXP	Description	Article	Ref.	Qty	
Operator	EIM1	A	2	YES	Key switch	EDS1	H	1	
Foundation box	ZX41	B	2	NO	Electric lock + cylinder	ZD14	I	1	
Release	EDI1	C	2	NO		ZD14/I		1	
Control panel	ECA5	D	1	YES	Post-mounted photocells	EFA1	J	1	
Flashing light	ELA5	E	1	YES	Posts	EE21	K	2	
Remote control	ETR4	F	2	YES	Pack of 24 V 2.2 Ah batteries	ZBA6		1	
Wall-mount photocells	EFA1	G	1	YES					

Example of installation



Gate automation - HIDDY series



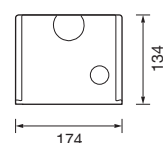
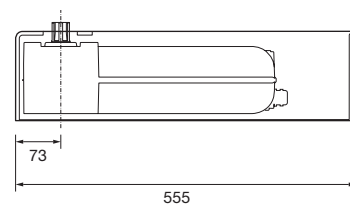
Automation for swing gates

24 V automation system for swing gates, residential use

EIM1	HIDDY 200D non-reversible 24 V electromechanical underground operator for swing gates with leaves up to 2 m and 200 kg, residential use, magnetic encoder, supplied with 2 m of cable
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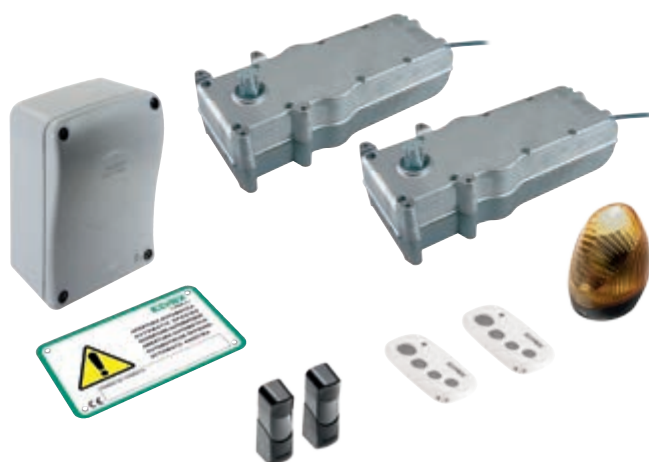


EIM1



Kit for 2 swing gate leaves up to 2 m (200 kg) each

- ▲ **EK10.W.EXP** HIDDY 200D kit for 2 swing gate leaves up to 2 m, 200 kg.
- Containing:
- 2 EAM1 HIDDY 200D irreversible 24 Vdc electromechanical operators
 - 1 ECA5.W 24 Vdc display control panel suitable for Wi-Fi connection with smartphone and tablet
 - 1 ELA5 12/24 V LED flashing light, with built-in antenna
 - 2 ETR4 4-channel 433 MHz rolling code remote control
 - 1 EFA1 pair of 180° adjustable photocells
 - 1 ZX20 "Warning: automatic gate" sign



▲ EK10.W.EXP

Control board spare parts

- ▲ **SW24.W** Control card with display and built-in 433 MHz radio receiver for 24 V swing gates operator. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
- ▲ **EMC.W** Wi-Fi communication module for SL24.W, SW24.W control cards. It enables the communication between control cards and smartphone/tablet via Wi-Fi



▲ SW24.W



▲ EMC.W

Gate automation - HIDDY series



Automation for swing gates

230 V automation systems for swing gates up to 3.5 m 400 kg

Underground automation system for swing gates, tertiary and industrial use. Operator with oversized mechanics and power for safely automating large gates. Once installed, maintenance is practically non-existent; the vehicle cover, the mechanics of the various components and the anti-rust treatments offer long-term protection. The internal mechanics allow extremely silent, precise movement. Lubrication with permanent grease.

Main specifications

- gate leaf up to 3.5 m, 400 kg
- the adjustable mechanical stops built into the foundation box determine the exact opening and closing position of the gate leaf
- mechanical stop points on the ground or electrical limit switches are not required
- foundation box with anti-rust cataphoresis treatment
- motor body completely painted

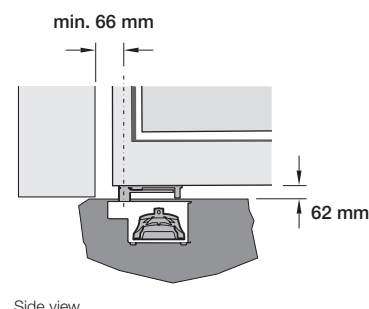
- motor completely watertight with IP67 rating
- supplied with 6 m of cable
- for use in conjunction with EIC5 foundation box, small and easy to install

230 V operator technical data	EIM2	EIM2.180
Power supply (Vac)	230	230
Power (W)	300	300
Absorption (A)	1.5	1.5
Gate leaf length (m)	3.5	3.5
Gate leaf weight (kg)	400	400
Opening (°)	110	180
Opening time (s)	15 to 25	15 to 30
Protection rating	IP67	IP67
Operating temperature (Min./Max. °C)	-10 to +55	-10 to +55
Dimensions (mm)	327x385x163	327x385x163
Weight (kg)	21	25
Frequency of use (%)	60	60

230 V dip switch control board

- 2 motors electronic control card RS11, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 128 remote control codes (fixed or rolling code)
- removable data memory
- customisation of slow down distance in both opening and closing phases
- LED for input diagnostics
- programmable phototest function
- motor force adjustment
- output for electric lock
- special input for timers or loop detectors
- direct cabling for edge 8K2 type EZS

Limitations of use	
Gate leaf length (m)	Max. gate leaf weight (kg)
2	800
3.5	400

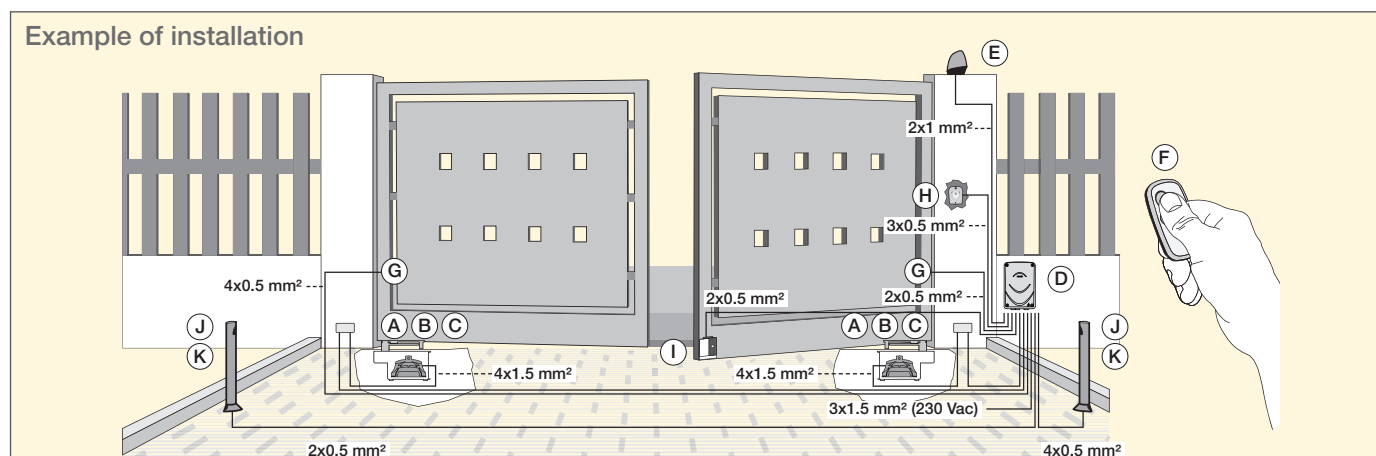


Side view

Components for creating a complete system with EIM2 or EK11.EXP kit

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK11.EXP	Description	Article	Ref.	Qty
Operator	EIM2	A	2	YES	Key switch	EDS1	H	1
Foundation box	EIC5	B	2	NO	Electric lock + cylinder	ZD14	I	1
Release	EIS5.L	C	2	NO	Post-mounted photocells	ZD14/I		1
Control panel	ECA8	D	1	YES	Posts	EFA1	J	1
Flashing light	ELA6	E	1	YES		EE21	K	2
Remote control	ETR5	F	2	YES				
Wall-mount photocells	EFA1	G	1	YES				

Example of installation



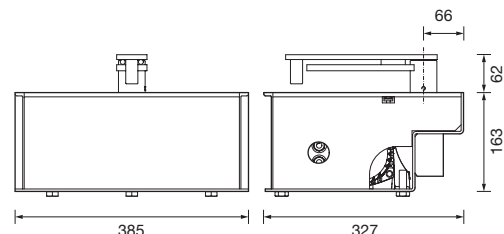
Gate automation - HIDDY series



Automation for swing gates

230/120 V automation system for swing gates, tertiary and industrial use

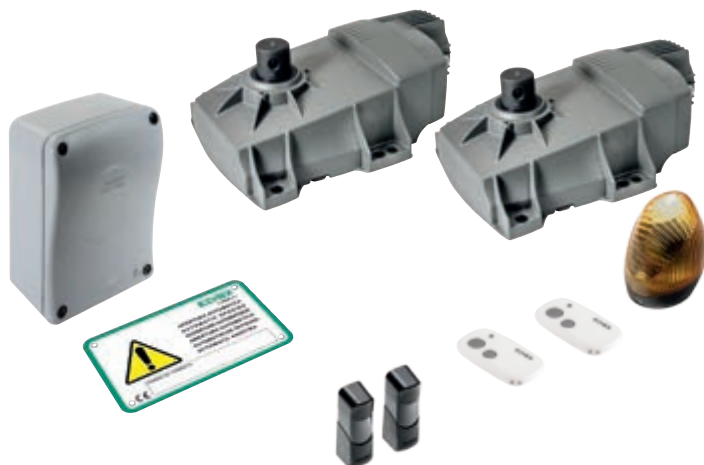
EIM2	HIDDY 350A non-reversible 230 V electromechanical underground operator for swing gates with leaves up to 3.5 m and 400 kg, tertiary and industrial use, supplied with 6 m of cable
EIM2.120	As above, 120 Vac supply
EIM2.180	HIDDY 350A non-reversible 230 V electromechanical underground operator for swing gates with leaves up to 3.5 m and 400 kg, tertiary and industrial use, supplied with 6 m of cable. Version with 180° opening



EIM2
EIM2.120
EIM2.180

Kit for 2 swing gate leaves up to 3.5 m (400 kg) each

EK11.EXP	HIDDY 350A kit for 2 swing gate leaves up to 3.5 m, 400 kg. Containing: - 2 EIM2 HIDDY 350A irreversible 230 Vac electromechanical operators - 1 ECA8 230V dip switch control panel - 1 ELA6 120/230 Vac LED flashing light, with built-in antenna - 2 ETR5 2-channel 433 MHz rolling code remote control - 1 EFA1 pair of 180° adjustable photocells - 1 ZX20 "Warning: automatic gate" sign
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EK11.EXP

Control board spare parts

RS11	Dip-switch and trimmer control board with built-in 433 MHz radio receiver for 230 Vac EKKO and HIDDY swinging gate operators
RS11.120	As above, 120 Vac supply, for 120 Vac operators



RS11

Accessories and spare parts

Control panels for swing gate automation systems

ECA5	Control panel for 24 V swing gates operators. Complete with box, transformer, dip switch and trimmer control board and built-in 433 MHz radio receiver for fixed code or rolling code
ECA5.120	As above. 120 Vac supply.
ECA5.D	Control panel for 24 V swing gates operators. Complete with box, transformer, display control board and built-in 433 MHz radio receiver for fixed code or rolling code
▲ ECA5.W	Control unit with display with built-in 433 MHz radio receiver for 24 V automatic swing gate systems. Suitable for the Wi-Fi connection with smartphone and tablet by using the communication module EMC.W
ECA8	Control panel for 230 V swing gates operators. Complete with box, dip switch and trimmer control board and built-in 433 MHz radio receiver for fixed code or rolling code
ECA8.120	As above. 120 Vac supply.
▲ MEM.W	Additional memory module for control units and receivers .W supplied of Wi-Fi connectivity, it is used as back-up module for control units .W and as memory expansion module for ECRU.W receiver. Supplied with SL24.W and SW24.W
▲ 433RAD.W	433 MHz radio receiver module for control units .W supplied of Wi-Fi connectivity



ECAx



▲ MEM.W



▲ 433RAD.W

Locks

ZD04	12 V horizontal multiple electrical lock, two-way
ZD14	12 V electrical lock with rotating bolt, vertical installation on doors and gates. Requires full cylinder ZD14/I or half cylinder ZD14/M
ZD14/I	Full cylinder with European profile for electrical lock ZD14
ZD14/M	Half cylinder with European profile for electrical lock ZD14



ZD04



ZD14



ZD14/I



ZD14/M

Mechanical stops

ZD27	Mechanical opening and closing limit stop kit for swing gate leaves
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ZD27

Accessories and spare parts

Batteries and battery chargers

ZBA6	24 V 2.2 Ah NiMH rechargeable battery pack with built-in battery charger for ESM2, ESM2.D, ECA5, ECA5.D
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ZBA6

Foundation boxes and release mechanisms

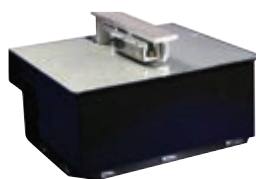
ZX41	Self-supporting foundation box in zinc-plated steel for EIM1 underground operator
Δ ZX41/I	Self-supporting foundation box in stainless steel for EIM1 underground operator
EIC2/L	2 x ZX41 foundation boxes for 2 EIM1 operators, complete with EDI1 manual release levers
EIC5	Self-supporting foundation box with cataphoresis treatment and galvanised, painted cover for EIM2 underground operator
EDI1	Lever-operated release for HIDDY 200D
EIS5.L	Lever-operated manual release mechanism for HIDDY 350A
EIX1	Adapter lever EIM2
EIX.180	Levers and accessories for EIC5 case conversion for EIM2 operator with 110° opening to EIC5 case for EIM2.180 operator with 180° opening



ZX41



EIC2/L



EIC5



EDI1



EIS5.L



EIX1

Accessories and spare parts

Spare parts

R319	Transformer 230-12V~ 150VA, for operator ESM1 and ECA1 control panel
R309.120	Transformer 120-12V~ 150VA, for ESM1.120 operators and ECA1.120 control units
RA37	Capacitor for ESM3, EAM4, EIM2
RA37.120	Capacitor for ESM3.120, EAM4.120, EIM2.120
RA07	Bushing for casing ZX41
RA10	Limit for casing ZX41
ZX52	EDI1 release operating lever
ZX53	EIS5.L release operating lever
RA75	Release support lever for EIC5 cases
RA76	Gate support lever for EIC5 cases
RA77	Curve drive lever for EIC5 cases
RA78	EIM2 motor shaft lever



R319

Caution sign

ZX20	"Caution automatic gate" polypropylene sign
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ZX20

Accessories and spare parts

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, power supply 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZP...GA



EZS...GA




ECR2.FL


KLYS: automation for garage doors

Gate automation - KLYS series



Selection guide of automations for garage doors

Up-and-over door											
Door surface	Use	Frequency of use	Electric motor power supply	Encoder	Control board	Receiver	Operator	Control panel	Kit	Photo	Series
9 m ²	Residential	80%	24 Vdc	Magnetic	Trimmer and dip	Built-in 433 MHz rolling code	EBM1	RS13	EK11		KLYS 9CD
12 m ²							EBM1+EBM2		EK11+EBM2		

Sectional door											
Surface door	Use	Frequency of use	Electric motor power supply	Encoder	Control board	Receiver	Operator	Control panel	Kit	Photo	Series
10 m ²	Residential	50%	24 Vdc	Magnetic	Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	ENM1	RS18	-		KLYS 9SD
12 m ²	Residential & commercial	100%					ENM2		-		KLYS 12SD

UP-AND-OVER AND
SECTIONAL
KLYS

Automation for garage doors

24 V automation system for up-and-over garage doors up to 12 m²

Automation system for up-and-over garage doors, residential use. Internal gears in steel and bronze. Plus, to limit internal play and offer flexibility which protects the mechanics from strain, the motor is fitted with a special internal belt which allows extremely silent, fluid and safe movement.

Main specifications

- maximum door surface area 9 m² with one motor and 12 m² with two motors
- operator with built-in control panel and LED courtesy light
- adjustment, via a trimmer, of the door opening and closing speed
- standard push button on the casing
- quick programming of the control panel and remote controls when the motor is installed and shut off, using only the button on the casing
- fixing brackets for the door and telescopic arms for faster installation with no need for welding
- in the event of a blackout, the battery charger box allows a large number of manoeuvres to be carried out
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- separate battery charger housing to allow operation if the power supply is cut off
- easy and intuitive manual release

24 V operator technical data

Power supply (Vac)	230
Power supply (Vdc)	24
Power (W)	55
Absorption (A)	2.3
Door surface area (m ²)	9 (EBM1), 12 (EBM1+EBM2)
Opening time (s)	15 to 23
Protection rating	IP44
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	182x147x703
Weight (kg)	9.5 (EBM1), 9 (EBM2)
Frequency of use (%)	80

24 V dip switch control board

- control board for 1 or 2 motors
- radio receiver for 120 remote controls (rolling code)
- customisation of slow down distance and speed in both opening and closing phases
- direct cabling for NC edge EZP or 8K2 type EZS with optional control card ECR2.FL

- obstacle detection system
- LED for input diagnostics
- current control for electric motor protection
- with facility for connection of battery charger board

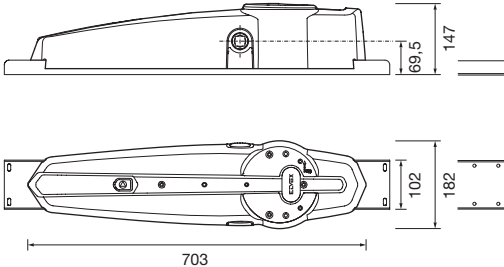
Gate automation - KLYS series

Automation for garage doors



24 V automation system for up-and-over garage doors, residential use

EBM1	Non-reversible 24 V MASTER electromechanical operator for up-and-over doors up to 9 m² in single operator configuration, or up to 12 m² in conjunction with the KLYS 9CD SLAVE operator. Complete with electronic control card
EBM2	Non-reversible 24 V SLAVE electromechanical operator for up-and-over doors up to 12 m² in conjunction with the KLYS 9CD MASTER operator



EBM1
EBM2

Kit for up-and-over garage doors up to 9 m²

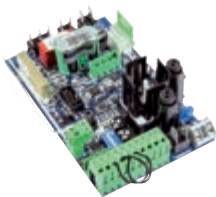
EK12	Kit KLYS 9CD kit for up-and-over garage doors up to 9 m² Containing: - 1 EBM1 klys 9CD irreversible 24 Vdc electromechanical operator - 1 ETR5 2-channel 433 MHz rolling code remote control
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EK12

Control board spare parts

RS13	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 24 V up-and-over automation systems for KLYS 9CD MASTER operators
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RS13

UP-AND-OVER AND
SECTIONAL
KLYS

Gate automation - KLYS series



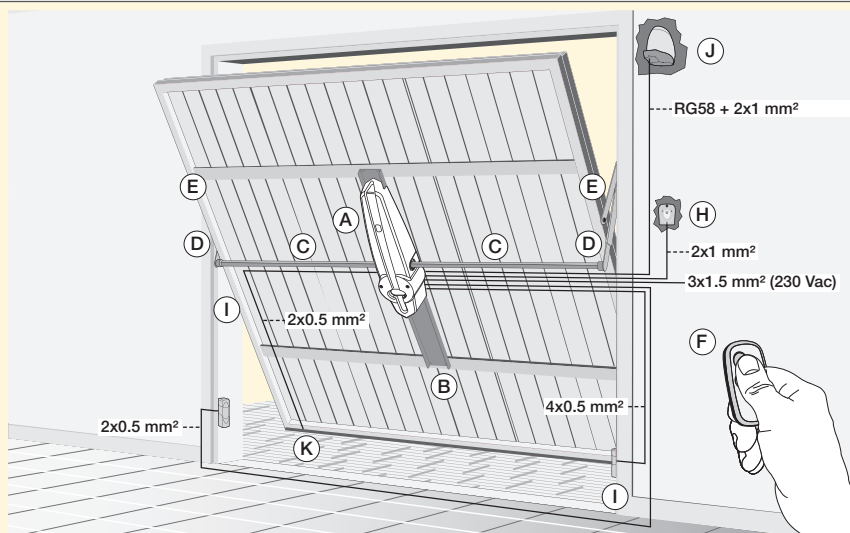
Automation for garage doors

Components for creating a complete system for up-and-over doors of up to 9 m² with straight telescopic arms

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in the kit	Description	Article	Ref.	Qty
MASTER operator	EBM1	A	1	EK12	Key switch	EDS1	H	1
Strut 1.95 m	EBX7	B	1	EBXK	Wall-mount photocells	EFA1	I	1
Transmission pipe 1 motor	EBX5	C	1	EBXK	Flashing light	ELA7	J	1
Pair of side supports for the transmission pipe	EBX3	D	1	EBXK	Flashing light wall support	EL33		
Pair of straight telescopic arms *	EBX2	E	1	EBXK	NC sensitive edge	EZP18.GA	K	2
Remote control	ETR5	F	1	EK12	Battery charger	ECB3		1
					Pack of 24 V 2.3 Ah batteries	EBB1		1

Example of installation

* The straight telescopic arms require at least 1.5 cm of free space between the arm of the up-and-over door and the body of the counterweight.

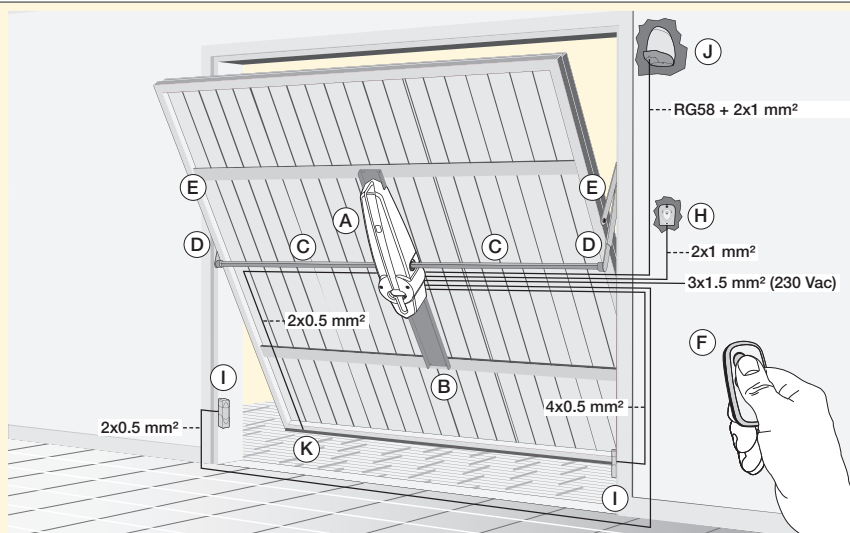


Components for creating a complete system for up-and-over doors of up to 9 m² with curved telescopic arms

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK12	Description	Article	Ref.	Qty
MASTER operator	EBM1	A	1	YES	Key switch	EDS1	H	1
Strut 1.95 m	EBX7	B	1	NO	Wall-mount photocells	EFA1	I	1
Transmission pipe 1 motor	EBX5	C	1	NO	Flashing light	ELA7	J	1
Pair of side supports for the transmission pipe	EBX3	D	1	NO	Flashing light wall support	EL33		
Pair of curved telescopic arms **	EBX6	E	1	NO	NC sensitive edge	EZP18.GA	K	2
Remote control	ETR5	F	1	YES	Battery charger	ECB3		1
					Pack of 24 V 2.3 Ah batteries	EBB1		1

Example of installation

**The curved telescopic arms are needed when at least 1.5 cm of free space between the arm of the up-and-over door and the body of the counterweight is not available.



Gate automation - KLYS series



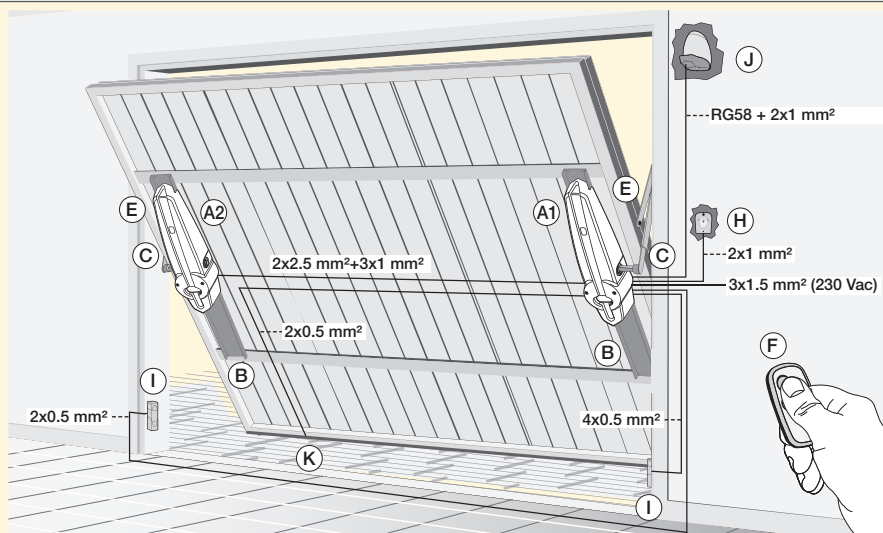
Automation for garage doors

Components for creating a complete system for up-and-over doors of up to 12 m² with straight telescopic arms

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK12	Description	Article	Ref.	Qty
MASTER operator	EBM1	A1	1	YES	Key switch	EDS1	H	1
SLAVE operator	EBM2	A2	1	NO	Wall-mount photocells	EFA1	I	1
Strut 1.95 m	EBX7	B	2	NO	Flashing light	ELA7	J	1
Transmission pipes and supports 2 motors	EBX4	C	1	NO	Flashing light wall support	EL33		
Pair of straight telescopic arms *	EBX2	E	1	NO	NC sensitive edge	EZP18.GA	K	2
Remote control	ETR5	F	1	YES	Battery charger	ECB3		1
					Pack of 24 V 2.3 Ah batteries	EBB1		1

Example of installation

* The straight telescopic arms require at least 1.5 cm of free space between the arm of the up-and-over door and the body of the counterweight.



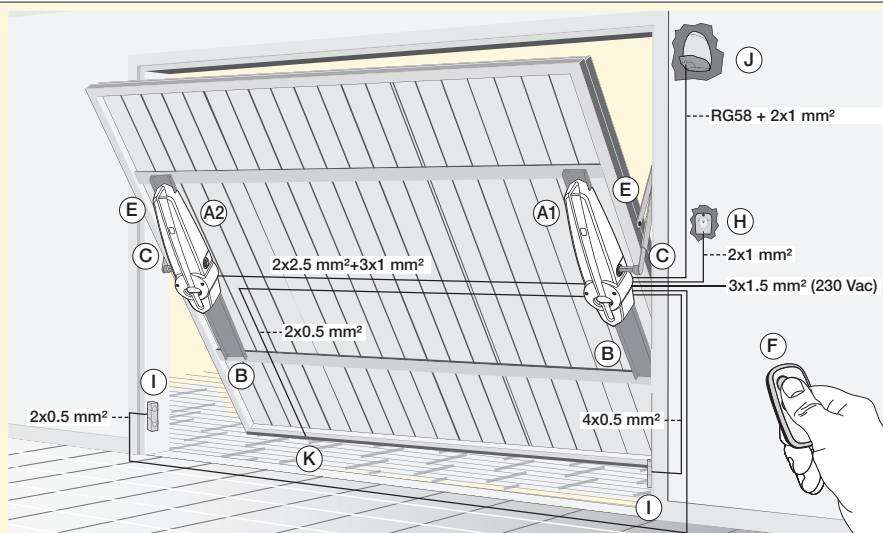
UP-AND-OVER AND
SECTIONAL
KLYS

Components for creating a complete system for up-and-over doors of up to 12 m² with curved telescopic arms

Main Components					Accessories (optional)			
Description	Article	Ref.	Qty	Components in kit EK12	Description	Article	Ref.	Qty
MASTER operator	EBM1	A1	1	YES	Key switch	EDS1	H	1
SLAVE operator	EBM2	A2	1	NO	Wall-mount photocells	EFA1	I	1
Strut 1.95 m	EBX7	B	2	NO	Flashing light	ELA7	J	1
Transmission pipes and supports 2 motors	EBX4	C	1	NO	Flashing light wall support	EL33		
Pair of curved telescopic arms **	EBX6	E	1	NO	NC sensitive edge	EZP18.GA	K	2
Remote control	ETR5	F	1	YES	Battery charger	ECB3		1
					Pack of 24 V 2.3 Ah batteries	EBB1		1

Example of installation

** The curved telescopic arms are needed when at least 1.5 cm of free space between the arm of the up-and-over door and the body of the counterweight is not available.



Accessories and spare parts

Batteries and battery chargers

EBB1	24 V back-up battery box for EBM1
ECB3	24 V lead battery charger for EBM1



EBB1



ECB3

Manual release mechanisms

EBS1	Accessory for wired external release to connect to the existing handles on the up-and-over door, for installation with single MASTER operator
EBS2	Accessory for wired external release to connect to the existing handles on the up-and-over door, for installation with double MASTER + SLAVE operator
EBS3	Accessory for external hex release and lock, for installation with single MASTER operator



EBS1



EBS2



EBS3

Mechanisms for counterweighted up-and-over doors

EBX1	Metal strut for up-and-over applications with motorisation facility for EBM1 and EBM2 operator, 0.8 metres
EBX7	Metal strut for up-and-over applications without motorisation facility for EBM1 and EBM2 operator, 1.95 metres
EBX2	Pair of straight telescopic arms for installation of up-and-over doors with free space between door arms and door body greater than 1.5 cm
EBX6	Pair of curved telescopic arms for installation of up-and-over doors with free space between door arms and door body less than 1.5 cm
EBX3	Pair of side supports for up-and-over applications with a single MASTER operator
EBX4	Pair of side supports and short transmission pipes for up-and-over applications with dual MASTER+SLAVE operators used together
EBX5	Transmission pipe for up-and-over applications with a single EBM1 operator, 3 metres
EBX8	Transmission pipe for up-and-over applications with a single KLYS 9CD MASTER operator, 2 m
EBXK	Mechanical accessories kit pour KLYS 9CD MASTER, contains: <ul style="list-style-type: none"> - 1 EBX7 strut 1.95 m - 1 EBX2 pair of straight telescopic arms - 1 EBX3 pair of side supports - 2 EBX8 pair of transmission pipes of 2 m



EBX1



EBX7



EBX2



EBX6



EBX3



EBX4



EBX5
EBX8

Accessories and spare parts

Spare parts

RA43	Limit stop cams for EBM1
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RA43

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, power supply 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.ANG	Right and left edge junction parts for sensitive edge series EZS.GA and EZP.GA, to use as uninterrupted sensitive edge on 3 sides of the up-and-over doors
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZP...GA



EZS...GA



ECR2.FL

Gate automation - KLYS series

Automation for sectional garage doors



24 V automation system for sectional garage doors

Automation system for sectional garage doors, residential and commercial use. The belt drive is extremely quiet and reliable. The pre-assembled tracks optimise installation times. Irreversible anti-trespass with anti-crushing device.

Main specifications

- maximum door surface 12 m²
- magnetic encoder for controlling the speed and the force of the electric motor and for obstacle detection
- internal housing of the batteries to allow operation if the power supply is cut off
- wired release system to activate the release externally
- control board RS18/RS19, integrated in the operator

24 V operator technical data

Power supply (Vac)	230
Power supply (Vdc)	24
Power (W)	230 (ENM1), 350 (ENM2)
Absorption (A)	9 (ENM1), 14 (ENM2)
Thrust force (N)	700 (ENM1), 1000 (ENM2)
Door surface area (m ²)	9 (ENM1), 12 (ENM2)
Opening time (s)	15 to 20
Protection rating	IP10
Operating temperature (Min./Max. °C)	-20 to +50
Dimensions (mm)	190x200x119
Weight (kg)	1.6 (ENM1), 1.85 (ENM2)
Frequency of use (%)	50 (ENM1), 100 (ENM2)

24 V dip switch control board

- RS18-RS19 control board for 1 motor for simple and intuitive programming with built-in radio receiver
- switching-mode power supply for maximum energy saving on stand-by and the smoothest operation of the automatic gate system
- radio receiver for 50 remote control codes (fixed or rolling code)
- direct cabling for NC edge EZP or 8K2 type EZS with optional control card ECR2.FL

- battery charger built into the board. It permits operation when there is no mains power by simply connecting 2 Pb 1.3 Ah batteries (batteries can be housed in the operator)
- obstacle detection system
- LED courtesy light integrated on the board

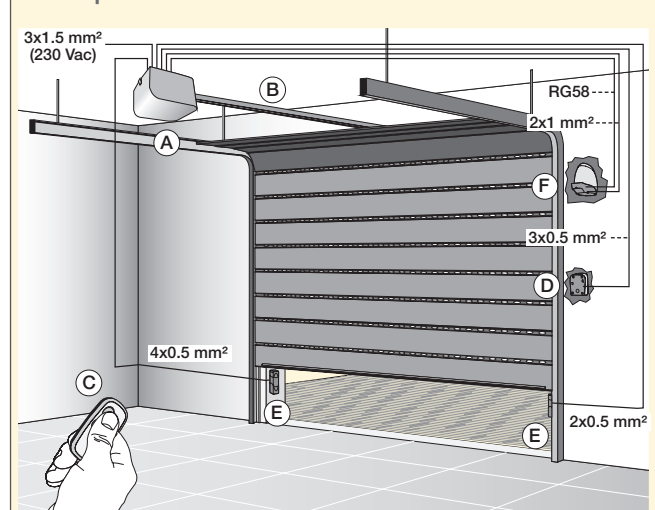
Components for creating a complete system for sectional doors up to 9 m²

Main Components				
Description		Article	Ref.	Qty
Operator		ENM1	A	1
Track	doors with maximum height 2.5 m	ENX1	B	1
		ENX2		
	doors with maximum height 3.5 m	ENX3		
Accessories (optional)				
Remote control		ETR5	C	1
Key switch		EDS1	D	1
Wall-mount photocells		EFA1	E	1
Flashing light		ELA5	F	1
Pack of 24 V 1.3 Ah batteries		ZBA8		1

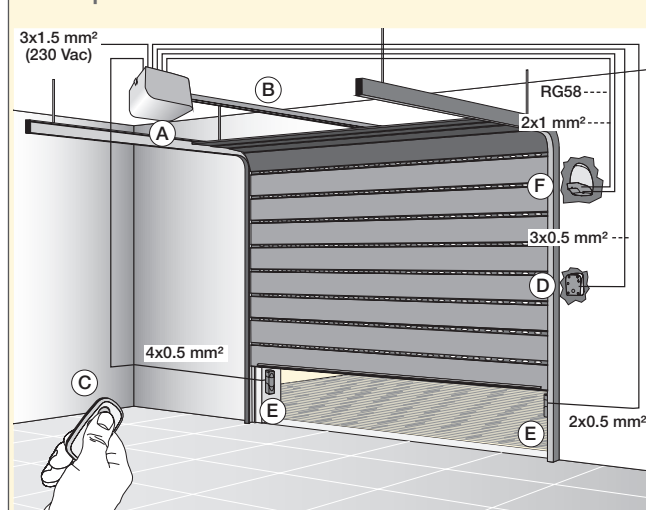
Components for creating a complete system for sectional doors up to 12 m²

Main Components				
Description		Article	Ref.	Qty
Operator		ENM2	A	1
Track	doors with maximum height 2.5 m	ENX4	B	1
	doors with maximum height 3.5 m	ENX5		
Accessories (optional)				
Remote control		ETR5	C	1
Key switch		EDS1	D	1
Wall-mount photocells		EFA1	E	1
Flashing light		ELA5	F	1
Pack of 24 V 1.3 Ah batteries		ZBA8		1

Example of installation



Example of installation



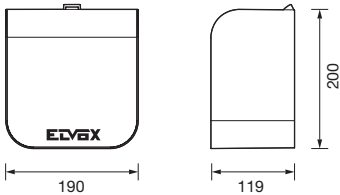
Gate automation - KLYS series

Automation for sectional garage doors



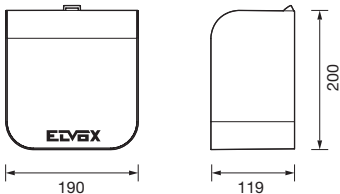
24 V Automation systems for sectional garage doors, for residential use

ENM1	KLYS 9SD non-reversible 24 V electromechanical operator for sectional doors up to 9 m², tractive force 700 N, residential use, electronic control card with switching-mode power supply and battery charger built in, 433 MHz radio receiver, magnetic encoder
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24 V Automation systems for sectional garage doors, for residential and commercial use

ENM2	KLYS 12SD non-reversible 24 V electromechanical operator for sectional doors up to 12 m², tractive force 1000 N, residential and apartment block use, electronic control card with switching-mode power supply and battery charger built in, 433 MHz radio receiver, magnetic encoder
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UP-AND-OVER AND
SECTIONAL
KLYS

Control board spare parts

RS18	Electronic control card with dip-switches/trimmer with 433 MHz radio receiver, power supply 100 - 240 V 50/60 Hz, built-in battery charger, for automation systems for sectional doors 24 V KLYS 9SD
RS19	Electronic control card with dip-switches/trimmer with 433 MHz radio receiver, power supply 100 - 240 V 50/60 Hz, built-in battery charger, for automation systems for sectional doors 24 V KLYS 12SD

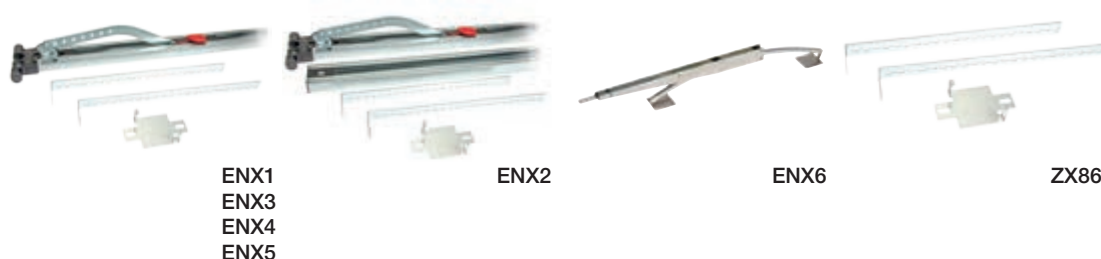


RS18
RS19

Accessories and spare parts

Tracks

ENX1	Belt track for KLYS 9SD operator for sectional doors of maximum height 2.5 m, complete with brackets for spaced fixing from the ceiling
ENX2	As above, divided into 2 parts
ENX3	As above, for sectional doors of maximum height 3.5 m
ENX4	Belt track for KLYS 12SD operator for sectional doors of maximum height 2.5 m, complete with brackets for spaced fixing from the ceiling
ENX5	As above, for sectional doors of maximum height 3.5 m
ENX6	Curved adapter arm for using KLYS 9SD and KLYS 12SD on up-and-over doors
ZX86	Fixing brackets spaced from the ceiling for tracks ENX



Battery

ZBA8	Set of 2 rechargeable Pb 12 V 1.3 Ah batteries with wiring harness for operators ENM1 and ENM2
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Manual release

EBS4	External manual release with key for KLYS 9SD and KLYS 12SD
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Accessories and spare parts

Spare parts

RA70 Cover for ENM1 and ENM2



RA70

Protection devices

EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.ANG	Right and left edge junction parts for sensitive edge series EZS.GA and EZP.GA, to use as uninterrupted sensitive edge on 3 sides of the up-and-over doors
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZP...GA



EZS...GA




ECR2.FL

FRAGMA: automation for road barriers

Gate automation - FRAGMA series



Selection guide of automations for road barriers

Tertiary and industrial use									
Useful passage	Frequency of use	Electric motor power supply	Encoder	Control board	Riceiver	Operator	Kit	Photo	Series
4 m	100%	230 Vac	-	Trimmer and dip	Built-in 433 MHz rolling code	EBR1	-		FRAGMA 4A
6 m						EBR2	-		FRAGMA 6A

Gate automation - FRAGMA series



Automation for road barriers

230 V automation system for road barriers, arm up to 6 m

Electromechanical barriers designed to manage vehicle access and entrance points. Sturdy structure with weatherproof paint and cathaphoresis treatment. For tertiary and industrial use.

Main specifications

- RS15 control board for 1 motor with built-in receiver, can be removed to make wiring easier
- self-ventilated motor allowing particularly intensive use
- adjustable electromechanical limit switch system for slow down and stop adjustment
- standard flashing light built into the structure
- for use in conjunction with 3 m to 6 m arms
- ideal for intensive use

230 V operator technical data

Power supply (Vac)	230
Power (W)	240
Absorption (A)	1
Useful passage (m)	3 or 4 (EBR1), 5 or 6 (EBR2)
Opening time (s)	3 (EBR1), 6 (EBR2)
Protection rating	IP54
Operating temperature (Min./Max. °C)	-10 to +55
Dimensions (mm)	280x300x1065
Weight (kg)	62
Frequency of use (%)	100

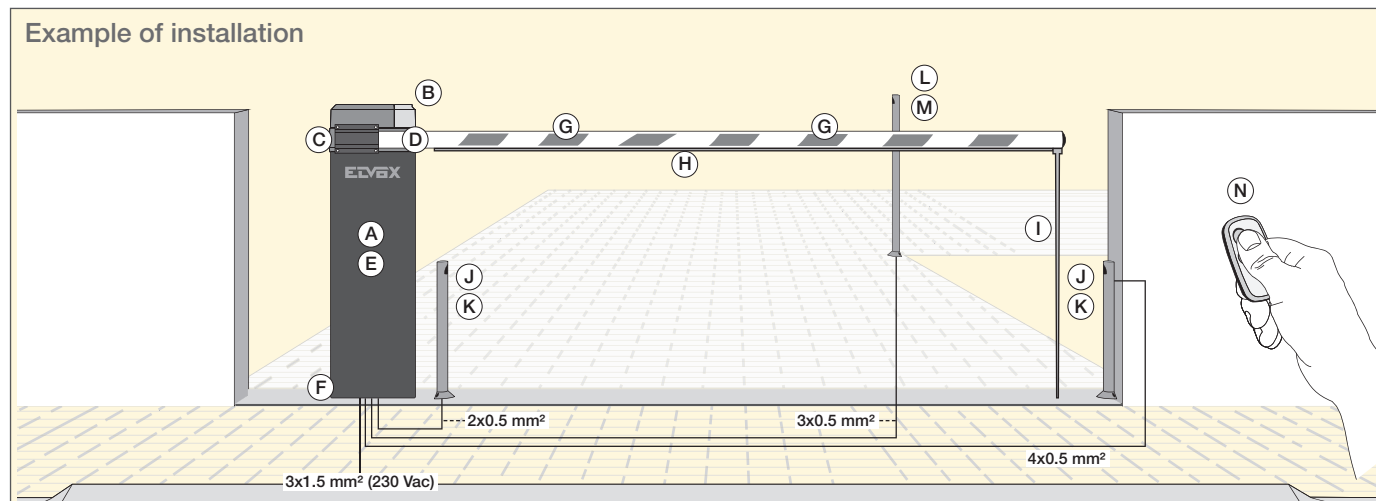
230 V dip switch control board

- 1 motor electronic control card RS15, with easy and fast programming, built-in radio receiver, weather resistant
- radio receiver for 40 remote control codes (rolling code)
- LED for diagnostics
- slow down distance adjustment
- separate control push buttons for the connection of loop detectors or timers
- programmable phototest function

Components for creating a complete system with EBR1 or EBR2

Main Components				Accessories (optional)				
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty	
Operator	EBR1 (3 – 4 m)	A	1	Fixing plate	EBRB	F	1	
	EBR2 (5 – 6 m)			Reflective stickers for arms	ZBNE	G	1	
Flashing light	-	B	*	Rubber profile for arm	EBRG.3	H	1	
Boom and hub	EBRM.80	C	1		EBRG.4			
	EBRA.380 (for EBR1)	D	1		EBRG.5			
	EBRA.480 (for EBR1)			Arm support	EBRP	I	1	
	EBRA.580 (for EBR2)				EBRPM			
	EBRA.680 (for EBR2)			Post-mounted photocells	EFA1	J	1	
LED boom and hub	EBRM.L	C	1	Post for photocells	EE21	K	2	
	EBRA.3L (for EBR1)	D	1	Selector	EDS1	L	1	
	EBRA.4L (for EBR1)			Post for selector	EE22	M	1	
	EBRA.5L (for EBR2)			Remote control	ETR5	N	1	
		EBRL.S (for EBR1 and EBR2)	-	1				
		EBRL.T (for EBR1 and EBR2)	-	1				
Springs	Spring selection table ref.	E	-					

* Included in the operator



Gate automation - FRAGMA series



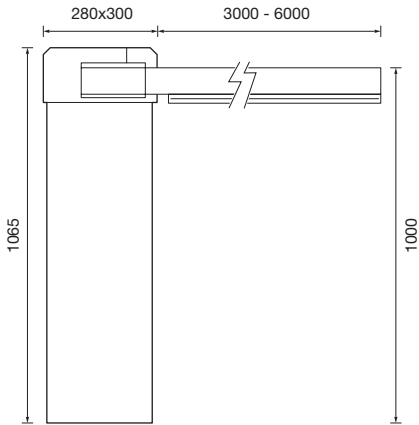
Automation for road barriers

230 V road barriers, for tertiary and industrial use

EBR1	Non-reversible 230 V electromechanical FRAGMA 4A barrier for 3- or 4-metre arm, tertiary and industrial use, electronic control card, 433 MHz radio receiver
EBR2	Non-reversible 230 V electromechanical FRAGMA 6A barrier for 5- or 6-metre arm, tertiary and industrial use, electronic control card, 433 MHz radio receiver



EBR1
EBR2



Control board spare parts

RS15	Dip switch and trimmer electronic control card with built-in 433 MHz radio receiver for 230 V~ FRAGMA 4A or FRAGMA 6A barriers
ESAC	Electronic control card for the connection of 2 sliding operators or road barriers with opposed leaves, supply voltage 12/24 Vdc



RS15



ESAC

Accessories and spare parts

Selection guide of springs for standard boom

Boom lenght	Boom configuration and accessories	Boom/accessory code	Spring type	Spring code
3 m	Boom and hub	EBRA.380 + EBRM.80	3 springs Ø 4 mm	3xEBRM.4
	Boom, hub and mobile support	EBRA.380 + EBRM.80 + EBRP.M	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, hub and rubber edge	EBRA.380 + EBRM.80 + EBRG.3	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, hub and fence	EBRA.380 + EBRM.80 + EBR.S.3	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, hub, rubber edge and mobile support	EBRA.380 + EBRM.80 + EBRG.3 + EBRP.M	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, hub and fence and mobile support	EBRA.380 + EBRM.80 + EBR.S.3 + EBRP.M	2 springs Ø 4,5 mm	2xEBRM.4.5
4 m	Boom and hub	EBRA.480 + EBRM.80	1 spring Ø 4 mm, 2 springs Ø 4,5 mm	1xEBRM.4 + 2xEBRM.4.5
	Boom, hub and mobile support	EBRA.480 + EBRM.80 + EBRP.M	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, hub and rubber edge	EBRA.480 + EBRM.80 + EBRG.4	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, hub and fence	EBRA.480 + EBRM.80 + 2xEBR.S.2	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, hub, rubber edge and mobile support	EBRA.480 + EBRM.80 + EBRG.4 + EBRP.M	2 springs Ø 4,5 mm, 1 spring Ø 5 mm	2xEBRM.4.5 + 1xEBRM.5
	Boom, hub and fence and mobile support	EBRA.480 + EBRM.80 + 2xEBR.S.2 + EBRP.M	1 spring Ø 4,5 mm, 2 springs Ø 5 mm	1xEBRM.4.5 + 2xEBRM.5
5 m	Boom and hub	EBRA.580 + EBRM.80	1 spring Ø 4,5 mm, 2 springs Ø 5 mm	1xEBRM.4.5 + 2xEBRM.5
	Boom, hub and mobile support	EBRA.580 + EBRM.80 + EBRP.M	2 springs Ø 5 mm, 1 spring Ø 5,5 mm	2xEBRM.5 + 1xEBRM.5.5
	Boom, hub and rubber edge	EBRA.580 + EBRM.80 + EBRG.5	2 springs Ø 5 mm, 1 spring Ø 5,5 mm	2xEBRM.5 + 1xEBRM.5.5
	Boom, hub and fence	EBRA.580 + EBRM.80 + EBR.S.2 + EBR.S.3	1 spring Ø 5 mm, 2 springs Ø 5,5 mm	1xEBRM.5 + 2xEBRM.5.5
	Boom, hub, rubber edge and mobile support	EBRA.580 + EBRM.80 + EBRG.5 + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5
	Boom, hub and fence and mobile support	EBRA.580 + EBRM.80 + EBR.S.2 + EBR.S.3 + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5
6 m	Boom and hub	EBRA.680 + EBRM.80	3 springs Ø 5,5	3xEBRM.5.5

Selection guide of springs for boom with LED

Boom lenght	Boom configuration and accessories	Boom/accessory code	Spring type	Spring code
3 m	Boom, LED tube and hub	EBRA.3L + EBRL.T + EBRM.L	3 springs Ø 4 mm	3xEBRM.4
	Boom, LED tube, hub and mobile support	EBRA.3L + EBRL.T + EBRM.L + EBRP.M	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, LED tube, hub and rubber edge	EBRA.3L + EBRL.T + EBRM.L + EBRG.3	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, LED tube, hub and fence	EBRA.3L + EBRL.T + EBRM.L + EBR.S.3	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, LED tube, hub, rubber edge and mobile support	EBRA.3L + EBRL.T + EBRM.L + EBRG.3 + EBRP.M	2 springs Ø 4,5 mm	2xEBRM.4.5
	Boom, LED tube, hub, fence and mobile support	EBRA.3L + EBRL.T + EBRM.L + EBR.S.3 + EBRP.M	2 springs Ø 4,5 mm, 1 spring Ø 5 mm	2xEBRM.4.5 + 1xEBRM.5
4 m	Boom, LED tube and hub	EBRA.4L + EBRL.T + EBRM.L	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, LED tube, hub and mobile support	EBRA.4L + EBRL.T + EBRM.L + EBRP.M	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, LED tube, hub and rubber edge	EBRA.4L + EBRL.T + EBRM.L + EBRG.4	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, LED tube, hub and fence	EBRA.4L + EBRL.T + EBRM.L + 2xEBR.S.2	3 springs Ø 4,5 mm	3xEBRM.4.5
	Boom, LED tube, hub, rubber edge and mobile support	EBRA.4L + EBRL.T + EBRM.L + EBRG.4 + EBRP.M	2 springs Ø 4,5 mm, 1 spring Ø 5 mm	2xEBRM.4.5 + 1xEBRM.5
	Boom, LED tube, hub, fence and mobile support	EBRA.4L + EBRL.T + EBRM.L + 2xEBR.S.2 + EBRP.M	1 spring Ø 4,5 mm, 2 springs Ø 5 mm	1xEBRM.4.5 + 2xEBRM.5
5 m	Boom, LED tube and hub	EBRA.5L + EBRL.T + EBRM.L	3 springs Ø 5,5	3xEBRM.5.5
	Boom, LED tube, hub and mobile support	EBRA.5L + EBRL.T + EBRM.L + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5
	Boom, LED tube, hub and rubber edge	EBRA.5L + EBRL.T + EBRM.L + EBRG.5	3 springs Ø 5,5	3xEBRM.5.5
	Boom, LED tube, hub and fence	EBRA.5L + EBRL.T + EBRM.L + EBR.S.2 + EBR.S.3	3 springs Ø 5,5	3xEBRM.5.5
	Boom, LED tube, hub, rubber edge and mobile support	EBRA.5L + EBRL.T + EBRM.L + EBRG.5 + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5
	Boom, LED tube, hub, fence and mobile support	EBRA.5L + EBRL.T + EBRM.L + EBR.S.2 + EBR.S.3 + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5

Fixing plates

EBRB Fixing plate for EBR1 and EBR2



EBRB

Accessories and spare parts

Booms

EBRA.380	Aluminium boom, length 3 m, diam. 80 for FRAGMA 4A barrier
EBRA.3L	LED boom, 3 m, for FRAGMA 4A barrier
EBRA.480	Aluminium boom, length 4 m, diam. 80 for FRAGMA 4A barrier
EBRA.4L	LED boom, 4 m, for FRAGMA 4A barrier
EBRA.580	Aluminium boom, length 5 m, diam. 80 for FRAGMA 6A barrier
EBRA.5L	LED boom, 5 m, for FRAGMA 6A barrier
EBRA.680	Aluminium boom, length 6 m, diam. 80 for FRAGMA 6A barrier



EBRA.380
EBRA.480
EBRA.580
EBRA.680



EBRA.3L
EBRA.4L
EBRA.5L

Accessories for booms

EBRG.3	Rubber edge for EBR1 and EBR2 barriers booms, 3 m
EBRG.4	Rubber edge for EBR1 and EBR2 barriers booms, 4 m
EBRG.5	Rubber edge for EBR2 barriers booms, 5 m
EZF.C	Safety edge for EBR barriers
ZBNE	Six reflective stickers for arms
EBRL.T	FRAGMA 4A/6A barrier LED tube
EBRL.S	LED power supply control board for FRAGMA 4A e 6A barriers
EBRS.2	Hedge for EBR1 and EBR2 barriers for 2 m passage (effective length 1.6 m)
EBRS.3	Hedge for EBR1 and EBR2 barriers for 3 m passage (effective length 2.5 m)
EBRP	Fixed support for FRAGMA 4A and FRAGMA 6A barrier arms
EBRP.M	Telescopic mobile support for FRAGMA 4A and FRAGMA 6A barrier arms



EBRG.3
EBRG.4
EBRG.5



EZF.C



ZBNE



EBRL.T



EBRL.S



EBRP



EBRP.M

Accessories and spare parts

Hubs for arms

EBRM.80 Hub for EBR1 and EBR2, barrier arms, diameter 80 mm

EBRM.L Hub for FRAGMA 4A and 6A barriers LED arm



EBRM.80



EBRM.L

Springs

EBRM.4 Ø 4 mm spring for EBRA.380/480 booms

EBRM.4.5 Ø 4.5 mm spring for EBRA.380/480/580 booms

EBRM.5 Ø 5 mm spring for EBRA.580/680 booms

EBRM.5.5 Ø 5.5 mm spring for EBRA.580/680 booms



EBRM.4
EBRM.4.5
EBRM.5
EBRM.5.5

Controls

ZR01 Single-channel loop detector, with 2 outputs, pulse and/or presence. Supply voltage: 12/24 Vac/dc

ZR02 Two-channel loop detector. Supply voltage: 12/24 Vac/dc

ZRS1 Coil for loop detector, length 6 m



ZR01



ZR02



ZRS1

Accessories and spare parts

Spare parts

R307	Toroidal 230 V 50/60 Hz 220 VA power supply transformer for EC31 and EC33 consumer control units
R307/117	As above, 117 Vac supply
RA36	Cover for EBR1 and EBR2
▲ RMEBR1	Motor adaptor part EBR1
▲ RMEBR2	Motor adaptor part EBR2



R307




RA36














Automation for windows and doors

Automation for windows and doors

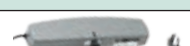





Selection guide of automations for rolling doors, blinds and windows

Automation systems for rolling doors (230 Vac)									
Roller shutter weight	Spring box diameter	Shaft diameter	Frequency of use	Reversible/irreversible	Control panel	Receiver	Operator	Kit	Photo
160 kg	200/220 mm	60/48 mm	20%	Reversible	Dead-man	-	ZP08	ERK1	
					Automatic	Built-in 433 MHz fixed code		-	
160 kg	200/220 mm	60/48 mm	20%	Irreversible	Dead-man	-	ZP09	-	
					Automatic	Built-in 433 MHz fixed code		ERK2	

Automation systems for roller blinds, sun shades and rolling shutters (230 Vac)									
Motor diameter	Adapter type	Adapter diameter	Limit switch	Command	Roller shutter weight	Manual operation	Torque max	Operator	Photo
35 mm	Octagonal	40 mm	Mechanical	Wired	15 kg	-	6 Nm	EV15/35	
45 mm	Octagonal	60 mm	Mechanical	Wired	20 kg	-	10 Nm	EV20/45	
					40 kg	-	20 Nm	EV40/45	
						Yes	20 Nm	EV30/45	
					80 kg	-	40 Nm	EV60/45	
						Yes	40 Nm	EV50/45	
					95 kg	-	50 Nm	EV80/45	
						Yes	50 Nm	EV70/45	
45 mm	Octagonal (not included)	60 mm (not included)	Electronic	Radio	20 kg	-	10 Nm	EV45ER/10	
					40 kg		20 Nm	EV45ER/20	
					60 kg		30 Nm	EV45ER/30	
					80 kg		40 Nm	EV45ER/40	
					95 kg		50 Nm	EV45ER/50	

AUTOMATION FOR WINDOWS AND DOORS

Automation systems for windows							
Pulling force	Pushing force	Travel	Drive	Motor supply supply	Application	Operator	Photo
300 N	300 N	200/380 mm	Chain	230 Vac	Bottom-hinged, top-hinged, skylights, domes	EG30/G	
				24 Vdc		EG30/N	
						EG30/N24	
500 N	500 N	150/200/ 250/320 mm	Rack	230 Vac	Top-hinged, skylights, domes	EG50	

Automation for rolling doors

230 V automation system for rolling doors

Automation system for rolling doors used in residential and industrial applications. Body and crown in die-cast aluminium. Steel gears. Spline transmission shaft on ball bearings. Quicker, more practical connection of power supply wires. Opening hatch for electrical connection and any subsequent maintenance without access to electrical parts.

Main specifications

- reversible or irreversible gear motor (with electric brake)
- for rolling doors with 60 mm diameter shaft and 200 mm spring box
- supplied with a pair of adapters for 48 mm diameter shaft, adapter for 220 mm diameter spring box and 4 m of cable 4x1 mm²
- Limit switch assembly and wiring protected by a special plastic housing

Manned control panel with 230 V Control board

- control panel for 1 motor ECP1, in an IP55 outdoor container
- with 2 low voltage 24 Vac commands: open/common/close (manned)
- relay contacts rated 16 A

230 V operator technical data

Power supply (Vac)	230
Power (W)	630
Absorption (A)	2.2
Torque (Nm)	145
Rolling door weight (kg)	160
Rolling door shaft (mm)	Ø48/60
Crown (mm)	Ø200/220
Thermal protection (min.)	4
Operating temperature (Min./Max. °C)	-20 to +55
Weight (kg)	9
Frequency of use (%)	20

Control panel with 230 V Control board

- control panel for 1 motor ECP2, radio receiver, in an IP55 outdoor housing
- with 2 low voltage 24 Vac commands: open/stop/close (stepper)
- relay contacts rated 16 A
- built-in radio receiver for 114 remote control codes (fixed code)
- with terminals for flashing light or courtesy light and safety devices
- automatic motor time and pause time self-learning

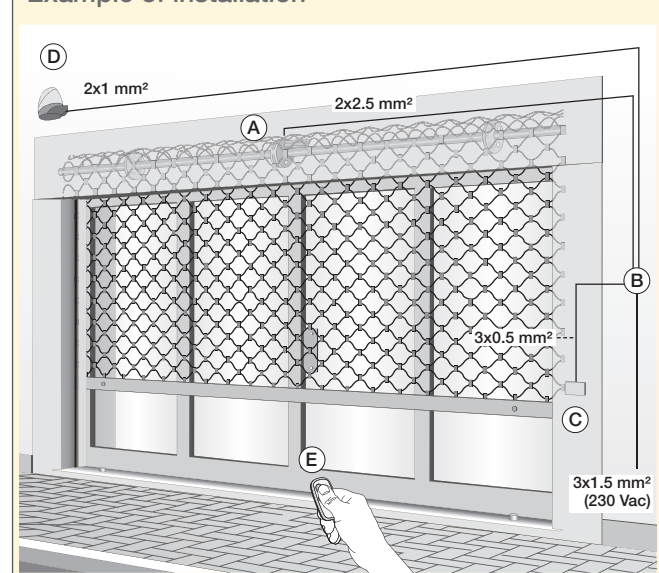
Components for creating a complete system with ZP08 or ERK1 kit

Main Components				
Description	Article	Ref.	Qty	Components in kit ERK1
Operator	ZP08	A	1	YES
Control panel	ECP1 (manned)	B	1	YES
Accessories				
Selector	EDS1	C	1	YES
Flashing light	ELA6	D	1	NO
Flashing light support	EL33	D	1	NO
Remote control	ETR5	E	1	NO

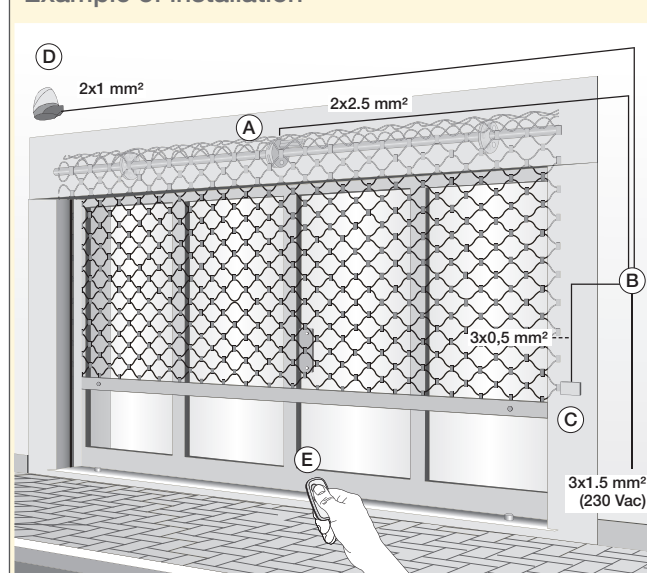
Components for creating a complete system with ZP09 or ERK2 kit

Main Components				
Description	Article	Ref.	Qty	Components in kit ERK2
Operator	ZP09	A	1	YES
Control panel	ECP2 (automatic)	B	1	YES
Accessories				
Switch with release	EDP4	C	1	YES
Flashing light	ELA6	D	1	YES
Flashing light support	EL33	D	1	YES
Remote control	ETR5	E	1	YES
Wall-mount photocells	EFA1	-	1	YES

Example of installation



Example of installation



Automation for rolling doors

230 V reversible automation system for rolling doors, residential and industrial use

ZP08	Reversible 230 V~ gear motor for rolling doors with 60 mm diameter shaft and 200 mm diameter spring box, lifting capacity 160 kg, supply voltage 230 V 630 W, electromechanical brake, pair of adaptors for 48 mm diameter shaft and 220 mm diameter spring box, 4 metres of 4x1 mm ² cable, facility for ZXP1 electromechanical brake
ZP09	Non-reversible 230 V~ gear motor for rolling doors with 60 mm diameter shaft and 200 mm diameter spring box, lifting capacity 160 kg, supply voltage 230 V 630 W, electromechanical brake, pair of adaptors for 48 mm diameter shaft and 220 mm diameter spring box, 4 metres of 4x1 mm ² cable



ZP08



ZP09

Kit for rolling doors up to 160 kg, with reversible gear motor

ERK1	Kit for rolling doors up to 160 kg, with reversible gear motor. Containing: - 1 ZP08 230 Vac reversible gear motor - 1 ECP1 230 Vac "dead-man" control panel - 1 EDS1 aluminium wall-mount key switch
-------------	---



ERK1

Kit for rolling doors up to 160 kg, with irreversible gear motor

ERK2	Kit for rolling doors up to 160 kg, with irreversible gear motor. Containing: - 1 ZP09 230 Vac irreversible gear motor, - 1 ECP2 230 Vac automatic control panel - 1 ELA6 120/230 Vac LED flashing light, with built-in antenna - 1 EL33 wall-mount flashing light support - 1 ETR5 2-channel 433 MHz rolling code remote control - 1 EDP4 aluminium wall-mount key switch with manual release - 1 EFA1 pair of photocells adjustable by 180°
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ERK2

Automation for windows and doors

Accessories and spare parts for rolling doors



Control panels

ECP1	230 Vac "dead-man" control panel for rolling doors
ECP2	230 Vac control panel with built-in 433 MHz radio receiver for rolling doors



ECP1



ECP2

Controls

EDP3	Two independent 1P NO 16 A 250 Vac buttons, with directional arrows, white
EDP4	10 A 250 Vac aluminium enclosure, manual release and button, facility for alarm activation button



EDP3



EDP4

Automation for windows and doors

Accessories and spare parts for rolling doors



Brakes

ZPX1 Electromechanical brake for reversible ZP08 gear motor, complete with cord and release knob, 5 m



ZPX1

Adapters

ZPX2 Adaptor for 33 mm diameter pipe for ZP08 and ZP09 gear motors

ZPX3 Adaptor for 42 mm diameter pipe for ZP08 and ZP09 gear motors



ZPX2
ZPX3

Other accessories and devices for automation systems are listed from page 160

230 V automation system for roller shutters, roller blinds and sun awnings

Tubular gearmotors for roller shutters and sun awnings.

Designed to facilitate installation and - thanks to the accessories supplied - fit into the various types of windows and doors available, even existing models. For residential, commercial and tertiary use.

Main specifications

- motor tube diameter 35 and 45 mm
- with and without manual action
- limit adjustment via mechanical screw-controlled limit switches
- motor thermal protection at 4 min

230 V operator technical data

Article	EV15/35	EV20/45	EV40/45	EV60/45	EV80/45	EV30/45	EV50/45	EV70/45
Ø motor tube (mm)	35	45	45	45	45	45	45	45
Limit switch	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Built-in radio receiver	-	-	-	-	-	-	-	-
Manual action	-	-	-	-	-	Yes	Yes	Yes
Power supply (Vac)	230	230	230	230	230	230	230	230
Power (W)	98	112	145	198	205	145	198	205
Absorption (A)	0,43	0,46	0,64	0,86	0,89	0,64	0,86	0,89
Torque (Nm)	6	10	20	40	50	20	40	50
Rotation speed (rpm)	14	15	15	15	12	15	15	12
Maximum revolutions	30	22	22	22	22	22	22	22
Ø adapter	40	60	60	60	60	60	60	60
Adapter type	Octagonal	Octagonal	Octagonal	Octagonal	Octagonal	Octagonal	Octagonal	Octagonal
Thermal protection (min.)	4	4	4	4	4	4	4	4
Operating temperature (Min./Max. °C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Length (mm)	457	467	467	537	537	528	598	598

Selection guide to motors for roller shutters:

To choose the right gearmotor for the roller shutter you need to know:

- the weight of the roller shutter
- the diameter of the tube of the roller shutter

To calculate the weight of the roller shutter to be motorized you need to know the surface area and weight per m² of the material of which it is made. Here you can find a table showing typical weights of the materials used for roller shutters.

Weights of materials

Material:	kg/m ²
Aluminium with polyurethane foam	4
Aluminium with high-density polyurethane foam	5
PVC	6
Extruded aluminium	7
Wood	10
Steel with polyurethane foam	10
Steel with high-density polyurethane foam	10,5
Steel	11

Once you have calculated the weight of the roller shutter, by cross-checking the figure obtained with the diameter of the roller, you obtain the torque in Nm of the suitable motor.

Table to calculate motor torque (Nm) for roller shutters

Roller shutter weight	5 kg	10 kg	15 kg	20 kg	25 kg	30 kg	35 kg	40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	95 kg	100 kg
Roller diameter 40 mm	6 Nm	6 Nm	6 Nm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roller diameter 60 mm	10 Nm	10 Nm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-
Roller diameter 70 mm	10 Nm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-	-	-
Roller diameter 80 mm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-	-	-	-	-	-

Selection guide to motors for sun awnings:

To choose the right gearmotor for the sun awning you need to know:

- the measurement of the stand-out of the extended arms of the awning
- the number of arms of the awning

- the diameter of the tube of the awning

By cross-checking the above data and the table below, you obtain the torque in Nm of the suitable motor (please note that the operators for sun awnings are always equipped with a manual option).

Table to calculate motor torque (Nm) for sun awnings

Roller diameter	70 mm						78 mm					85 mm				89 mm		
Arm stand-out	1,5 m	2 m	2,5 m	3 m	4 m	5 m	1,5 m	2 m	2,5 m	3 m	4 m	1,5 m	2 m	2,5 m	3 m	1,5 m	2 m	2,5 m
Number of arms 2	20 Nm	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	40 Nm	40 Nm	40 Nm	50 Nm	40 Nm	40 Nm	50 Nm
Number of arms 4	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	-	40 Nm	40 Nm	40 Nm	50 Nm	-	40 Nm	40 Nm	50 Nm	-	40 Nm	50 Nm	-
Number of arms 6	40 Nm	40 Nm	50 Nm	50 Nm	-	-	40 Nm	40 Nm	50 Nm	-	-	40 Nm	50 Nm	-	-	50 Nm	-	-
Number of arms 8	50 Nm	50 Nm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

230 V automation systems for blinds and rolling shutters, residential, commercial and tertiary use

EV15/35	Ø 35 mm tubular motor for sun blinds and roller shutters. Torque 6 Nm, rotation speed 14 rpm, power supply 230 V, power 98 W. Complete with sliding wheel and 40 mm and wall fixing bracket. Lifting capacity 15 kg. Actuator length 457 mm
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EV15/35

230 V automation systems for rolling shutters, residential, commercial and tertiary use

EV20/45	Ø 45 mm tubular motor for roller shutters. Torque 10 Nm, rotation speed 15 rpm, power supply 230 V, power 112 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 20 kg. Actuator length 467 mm
EV40/45	Ø 45 mm tubular motor for roller shutters. Torque 20 Nm, rotation speed 15 rpm, power supply 230 V, power 145 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 40 kg. Actuator length 467 mm
EV60/45	Ø 45 mm tubular motor for roller shutters. Torque 40 Nm, rotation speed 15 rpm, power supply 230 V, power 198 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 80 kg. Actuator length 537 mm
EV80/45	Ø 45 mm tubular motor for roller shutters. Torque 50 Nm, rotation speed 12 rpm, power supply 230 V, power 205 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 95 kg. Actuator length 537 mm



EV20/45
EV40/45
EV60/45
EV80/45

230 V automation systems for rolling shutters and awnings, residential, commercial and tertiary use

EV30/45	Ø 45 mm tubular motor for roller shutters and sun blinds with manual movement. Torque 20 Nm, rotation speed 15 rpm, power supply 230 V, power 145 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 40 kg. Actuator length 528 mm
EV50/45	Ø 45 mm tubular motor for roller shutters and sun blinds with manual movement. Torque 40 Nm, rotation speed 15 rpm, power supply 230 V, power 198 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 80 kg. Actuator length 598 mm
EV70/45	Ø 45 mm tubular motor for roller shutters and sun blinds with manual movement. Torque 40 Nm, rotation speed 15 rpm, power supply 230 V, power 198 W. Complete with sliding wheel and 60 mm and wall fixing bracket. Lifting capacity 80 kg. Actuator length 598 mm



EV30/45
EV50/45
EV70/45

230 V automation system for roller shutters and sun shades

Tubular gearmotors for roller window shutters. Designed to facilitate installation and - thanks to the accessories supplied - fit into the various types of windows and doors available, even existing models. For residential, commercial and tertiary use.

Main specifications

- motor tube diameter 45 mm
- version with electronic limit switches and built-in radio receiver
- motor thermal protection at 4 min

230 V operator technical data

Article	EV45ER/10	EV45ER/20	EV45ER/30	EV45ER/40	EV45ER/50
Ø motor tube (mm)	45	45	45	45	45
Limit switch	Electronic	Electronic	Electronic	Electronic	Electronic
Built-in radio receiver	Yes	Yes	Yes	Yes	Yes
Manual action	-	-	-	-	-
Power supply (Vac)	230	230	230	230	230
Power (W)	113	161	200	228	228
Absorption (A)	0,48	0,69	0,87	0,99	0,99
Torque (Nm)	10	20	30	40	50
Rotation speed (rpm)	15	15	15	15	12
Maximum revolutions	No limit	No limit	No limit	No limit	No limit
Ø adapter	60	60	60	60	60
Adapter type	Octagonal	Octagonal	Octagonal	Octagonal	Octagonal
Thermal protection (min.)	4	4	4	4	4
Operating temperature (Min./Max. °C)	-20 to +55	-20 to +55	-20 to +55	-20 to +55	-20 to +55
Length (mm)	607	607	637	637	637

Selection guide to motors for roller shutters:

To choose the right gearmotor for the roller shutter you need to know:

- the weight of the roller shutter
- the diameter of the tube of the roller shutter

To calculate the weight of the roller shutter to be motorized you need to know the surface area and weight per m² of the material of which it is made. Here you can find a table showing typical weights of the materials used for roller shutters.

Weights of materials

Material:	kg/m ²
Aluminium with polyurethane foam	4
Aluminium with high-density polyurethane foam	5
PVC	6
Extruded aluminium	7
Wood	10
Steel with polyurethane foam	10
Steel with high-density polyurethane foam	10,5
Steel	11

Once you have calculated the weight of the roller shutter, by cross-checking the figure obtained with the diameter of the roller, you obtain the torque in Nm of the suitable motor.

Table to calculate motor torque (Nm) for roller shutters

Roller shutter weight	5 kg	10 kg	15 kg	20 kg	25 kg	30 kg	35 kg	40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	95 kg	100 kg
Roller diameter 40 mm	6 Nm	6 Nm	6 Nm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roller diameter 60 mm	10 Nm	10 Nm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-
Roller diameter 70 mm	10 Nm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-	-	-
Roller diameter 80 mm	10 Nm	10 Nm	20 Nm	20 Nm	20 Nm	30 Nm	30 Nm	30 Nm	40 Nm	40 Nm	40 Nm	50 Nm	50 Nm	50 Nm	-	-	-	-	-	-

Selection guide to motors for sun awnings:

To choose the right gearmotor for the sun awning you need to know:

- the measurement of the stand-out of the extended arms of the awning
- the number of arms of the awning

- the diameter of the tube of the awning

By cross-checking the above data and the table below, you obtain the torque in Nm of the suitable motor (please note that the operators for sun awnings are always equipped with a manual option).

Table to calculate motor torque (Nm) for sun awnings

Roller diameter	70 mm						78 mm					85 mm				89 mm		
Arm stand-out	1,5 m	2 m	2,5 m	3 m	4 m	5 m	1,5 m	2 m	2,5 m	3 m	4 m	1,5 m	2 m	2,5 m	3 m	1,5 m	2 m	2,5 m
Number of arms 2	20 Nm	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	40 Nm	40 Nm	40 Nm	50 Nm	40 Nm	40 Nm	50 Nm
Number of arms 4	20 Nm	40 Nm	40 Nm	40 Nm	50 Nm	-	40 Nm	40 Nm	40 Nm	50 Nm	-	40 Nm	40 Nm	50 Nm	-	40 Nm	50 Nm	-
Number of arms 6	40 Nm	40 Nm	50 Nm	50 Nm	-	-	40 Nm	40 Nm	50 Nm	-	-	40 Nm	50 Nm	-	-	50 Nm	-	-
Number of arms 8	50 Nm	50 Nm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

230 V automation systems for rolling shutters, residential, commercial and tertiary use

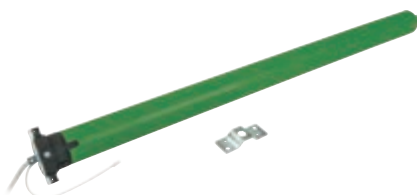
EV45ER/10	Ø45 mm tubular motor for roller shutters, 230 Vac, torque 10 Nm, rotation speed 15 rpm, absorbed power 112 W. With radio receiver and electronic limit switch incorporated in the motor. Residential, commercial and tertiary. Wall fixing bracket included. Power cable length 2.5 m
EV45ER/20	Ø45 mm tubular motor for roller shutters, 230 Vac, torque 20 Nm, rotation speed 15 rpm, absorbed power 145 W. With radio receiver and electronic limit switch incorporated in the motor. Residential, commercial and tertiary. Wall fixing bracket included. Power cable length 2.5 m



EV45ER/10
EV45ER/20

230 V automation systems for rolling shutters, residential, commercial and tertiary use

EV45ER/30	Ø45 mm tubular motor for roller shutters, 230 Vac, torque 30 Nm, rotation speed 15 rpm, absorbed power 191 W. With radio receiver and electronic limit switch incorporated in the motor. Residential, commercial and tertiary. Wall fixing bracket included. Power cable length 2.5 m
EV45ER/40	Ø45 mm tubular motor for roller shutters, 230 Vac, torque 40 Nm, rotation speed 15 rpm, absorbed power 198 W. With radio receiver and electronic limit switch incorporated in the motor. Residential, commercial and tertiary. Wall fixing bracket included. Power cable length 2.5 m
EV45ER/50	Ø45 mm tubular motor for roller shutters, 230 Vac, torque 50 Nm, rotation speed 12 rpm, absorbed power 205 W. With radio receiver and electronic limit switch incorporated in the motor. Residential, commercial and tertiary. Wall fixing bracket included. Power cable length 2.5 m



EV45ER/30
EV45ER/40
EV45ER/50

Automation for windows and doors

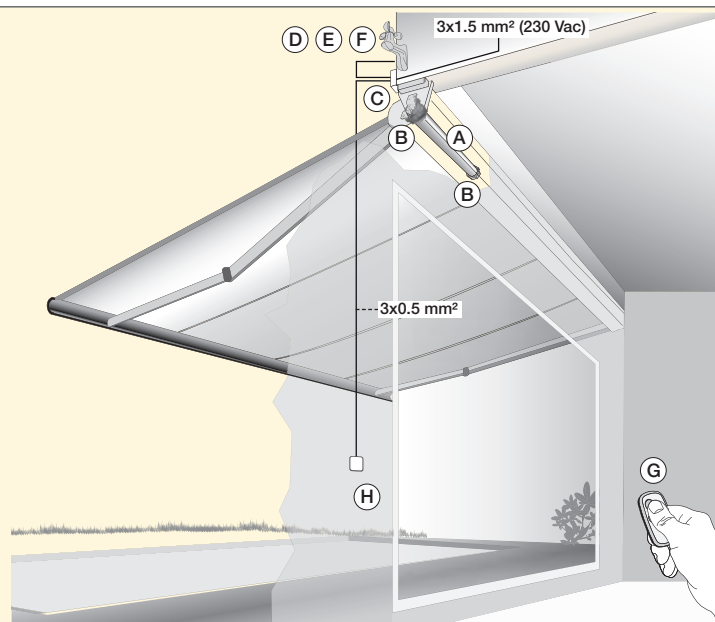


Automation for blinds, shutters and sun shades

Components for creating a complete system for 1 sun awning with control panel and accessories

Main Components							
Description	Article	Ref.	Qty	Description	Article	Ref.	Qty
Operator	Ref. operator selection table based on the sun awning page 148	A	1	Wind sensor	EGA3.1	D	1
Drive wheel and limit switch crown wheel	ZXVC (Ø 70 mm)	B	1	Rain sensor	EGP3	E	1
	ZXVL (Ø 78 mm)			Light sensor	EGL3	F	1
Control panel	ECG3	C	1	Remote control	ETR5	G	1
				Double control push-button	Provided in the electrical system	H	1

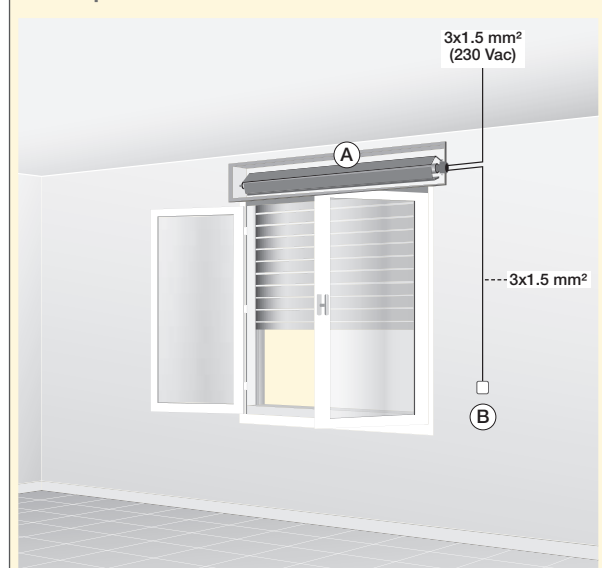
Example of installation



Components for creating a complete system for 1 roller shutter, with no control panel

Main Components			
Description	Article	Ref.	Qty
Operator	Ref. operator selection table based on the roller shutter page 148	A	1
Double control push-button	Provided in the electrical system	B	1

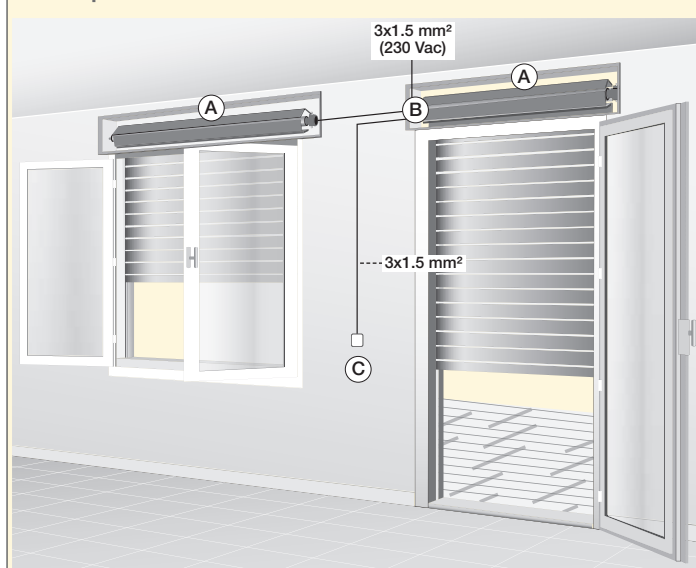
Example of installation



Components for creating a complete system for 2 roller shutters, with a centralization board

Main Components			
Description	Article	Ref.	Qty
Operator	Ref. operator selection table based on the roller shutter page 148	A	2
Centralization board for 2 roller shutters	ECGT	B	1
Double control push-button for motor 1	Provided in the electrical system	C	1

Example of installation



Automation for windows and doors

Automation for blinds, shutters and sun shades

How to build the central roller shutter network

To choose the right gearmotor for the roller shutter you need to know:

- each roller shutter is equipped with an operator and a ECG3 control panel
- each control panel is equipped with an ECGS expansion module
- the ECGS Boards are connected by a double connection RS485 with a maximum cable length of 1000 m from the first to the last device, for each of the two RS485 buses
- each control panel has a zone address and a device address
- the zone with address 0 is called the "MASTER ZONE".
The zones with address from 1 to 7 are called "SLAVE ZONES"

- a control panel with device address 0 is called the "MASTER" control panel.

The control panels with address from 1 to 31 are called "SLAVE" control panels

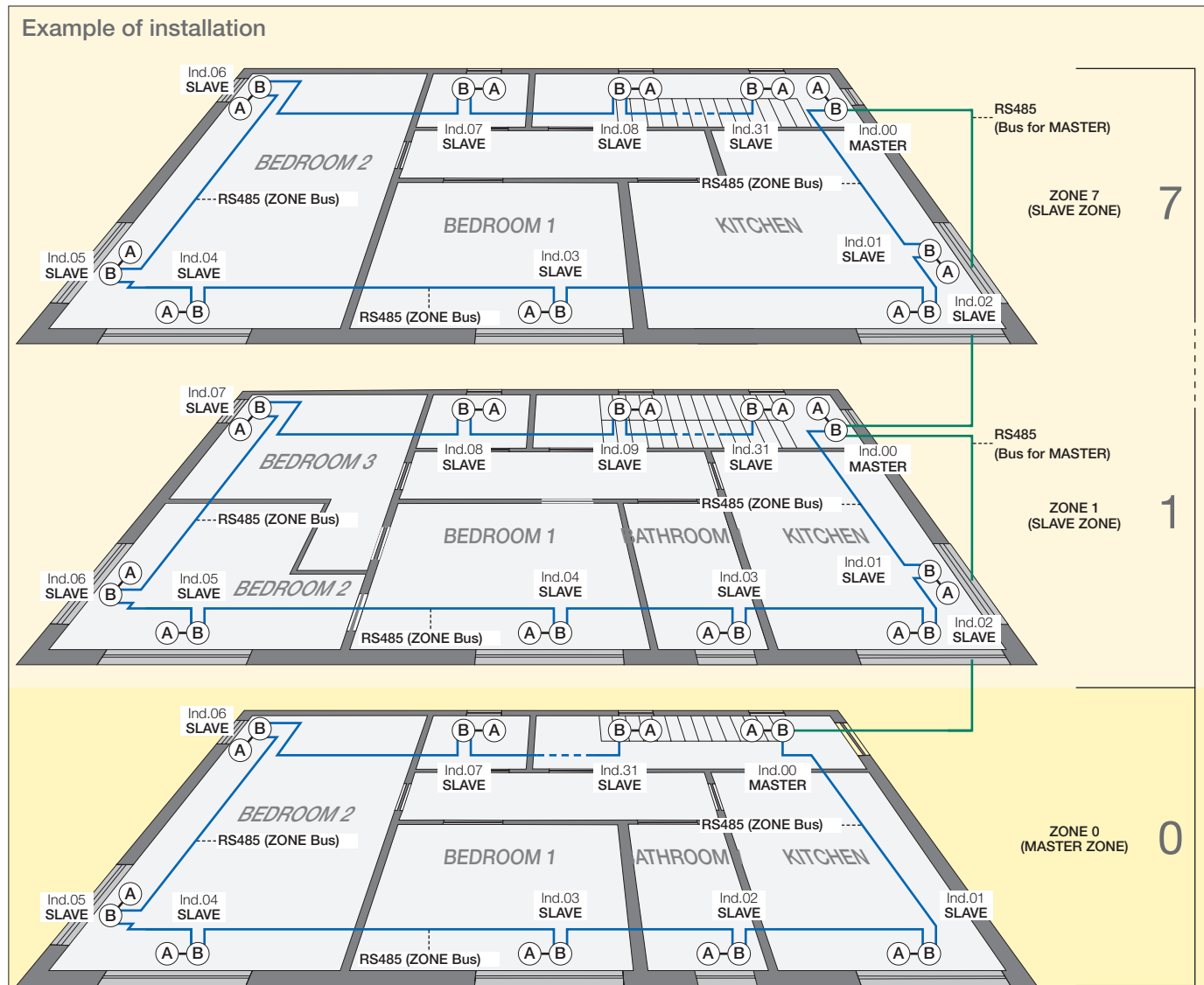
- commands given to the single control panel are thus propagated within the network:

Command	Zone type	Control panel type	Action
Opening/closing	SLAVE	SLAVE	Opening/closing only on the control panel that receives the command
	MASTER	SLAVE	
	SLAVE	MASTER	Opening/closing on all the control panels belonging to the zone *
	MASTER	MASTER	Opening/closing on all the control panels in the entire network *

Example of a centralized zone system with an ECGS expansion board for roller shutters

Key		
Description	Article	Ref.
Operator	Ref. operator selection table based on the roller shutter page 148	A
Control panel and expansion module	ECG3 + ECGS	B

- * The commands are propagated with a delay on each control panel to avoid excessive current draw when many operators are connected in the network to the same power supply line.



Roller blinds, integrated with the By-me home automation system

Automation: roller shutters

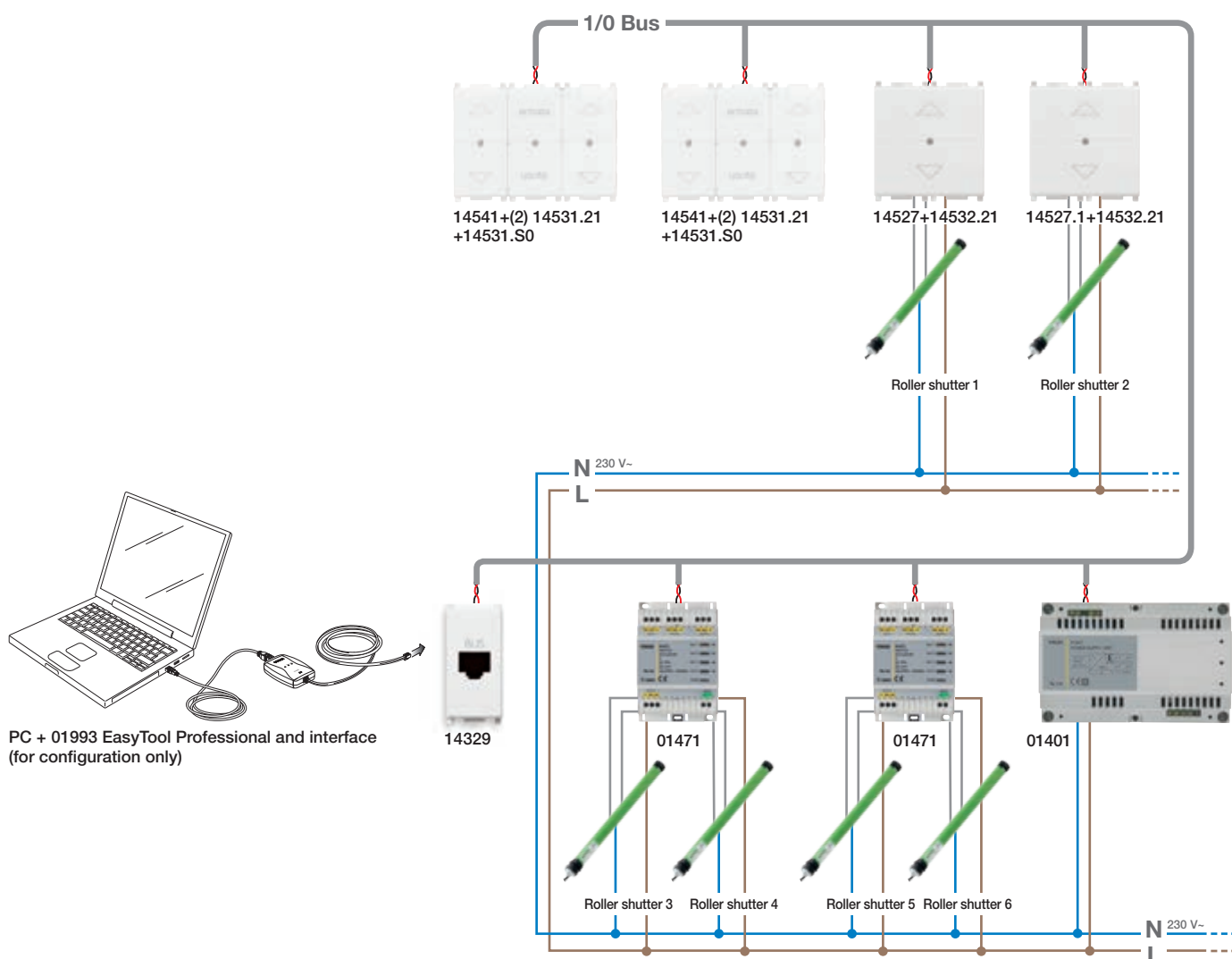
The diagram illustrates the section of the system that manages the movement of 4 roller shutters by means of operators for DIN rails and 2 roller shutters via flush-mounted controls with a built-in operator.

Rocker switches 14541, 14527 and 14527.1 are used (for regulating the laths); Venetian blinds (laths) can be activated via control 14541 and the operator for DIN rail 01471 and/or via the control device with built-in operator 14527.1.

In addition, one of the rocker switches of the 3-module control devices (14541) is used to activate entry (all up) and exit (all down) scenarios.

The system is fully configured via a PC using the EasyTool Professional software that "dialogues" with the system through the RJ11 jack connected to the By-me Bus.

(Example with Plana series appliances)



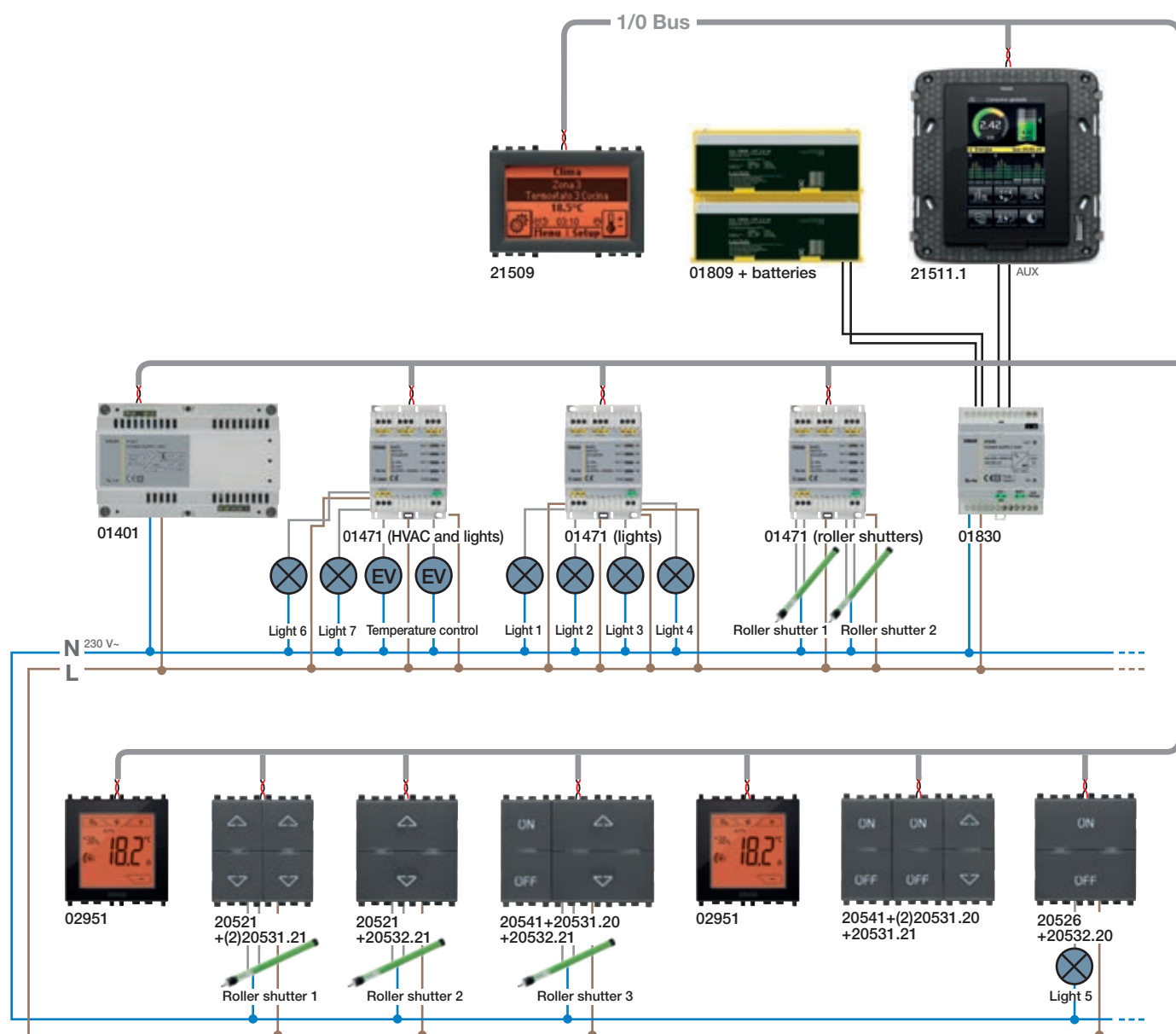
Roller blinds, integrated with the By-me home automation system

Lights, roller shutters, temperature control

The diagram in the figure illustrates an example of a By-me system which includes automation; the configuration is done via the control panel 21509 while complete system supervision and device control is accomplished with the touchscreen 21511.1. As an alternative to the control panel, the system can be configured via a PC using the EasyTool Professional software. The On/Off control of 7 lights, 5 roller shutters (two with laths) and 2 climate zones is performed also locally via the respective rocker switches and thermostats; the touchscreen

is powered by the power supply unit 01830 and, in the event of a power failure, by the batteries in the battery holder unit 01809 connected to the power supply unit itself. The scenarios that can be activated from the 4.3" colour touchscreen involve all the functions: for example, the "Exit" scenario will lower the temperature and the roller shutters, turn off the lights and activate the burglar alarm.

(Example with Eikon series appliances)



Accessories and spare parts

Remote controls for rolling shutters

ETT01	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors. Includes wall support with magnetic hook
▲ ETT01T	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors, with hourly, daily or weekly programming. With LCD display for setting the time and date and indication of battery charge level. Includes wall support with magnetic hook
▲ ETT05T	As above, to control 4+1 tubular motors or 4+1 groups with channel selecting
ETT15	Remote control for 433 MHz tubular motors, rolling code. Can control 15+1 tubular motors or 15+1 groups of tubular motors. With LCD display for channel selection and indication of battery charge level. Includes wall support with magnetic hook
▲ ETT01F	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors. For back-box installation coupled to conventional residential series buttons. Power supply 12/24 Vac



ETT01



▲ ETT01T
▲ ETT05T



ETT15



▲ ETT01F

Control panels

▲ ECGC	Miniature control unit 230 Vac max 1000 W for roller shutter box installation with built-in 433 MHz radio receiver for tubular motors and actuators for windows
ECGF	Control unit 230 Vac max 450 W for back-box installation with built-in 433 MHz radio receiver for tubular motors and actuators for windows
ECG3	120/230 V control panel with built-in 433 MHz radio receiver for tubular motors and actuators for windows
ECGS	Expansion card for ECG3 control unit for zone control of tubular motors, manages 7 independent zones and 31 motors per zone that are individually controllable or in cascade, maximum connection distance 1000 m
ECGT	Card with 2 relay outputs 230 V~ 300 W for single and central control of tubular motors



▲ ECGC



ECGF



ECG3



ECGS



ECGT

Accessories and spare parts

Sensors

EGA3.1	Tachometric anemometer for ECG3 control unit for tubular motors
Δ EGL3	Twilight sensor with adjustable sensitivity for ECG3 control unit for tubular motors
Δ EGP3	Rain sensor with thermostat for ECG3 control unit for tubular motors, 12 Vdc power supply



EGA3.1



Δ EGL3



Δ EGP3

Controls and joints

ZXVD	Joint-enabled control arm with hook, length 1.50 m
ZXVG	Double universal joint with 45° support, complete with 500 mm long rod and manoeuvring grommet
ZXVM	Control eye



ZXVD



ZXVG



ZXVM

Accessories and spare parts

Supports

EVS01	Bracket for roller blinds
EVS02	Fast bracket for roller blinds
EVS03	Metallic bracket for roller blinds
EVS04	Silenced bracket
EVS11	Fast bracket
EVS12	Fast bracket max 20 Nm
EVS13	Fast bracket max 40 Nm
EVS21	Omega bracket with star pin hole, distance between centres 57.9 M8 threaded holes, distance between centres 46.7 M6 threaded holes
EVS22	Omega bracket with star pin hole, distance between centres 55 mm non-threaded holes
EVS23	Saddle bracket for square pin, distance between centres 55 mm
EVS41	Short wall mounting frame, length 100 mm, distance between centres of slots 55 mm, slot length 75 mm
EVS42	Long wall mounting frame, length 170 mm, distance between centres of slots 55 mm, slot length 130 mm
ZXVA	Adjustable motor support with 10 mm pin



EVS01



EVS02



EVS03



EVS04



EVS11



EVS12



EVS13



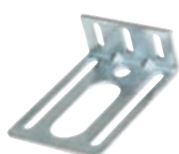
EVS21



EVS22



EVS23



EVS41



EVS42



ZXVA

Accessories and spare parts

Adapters

EVA01	Wheel for round pipe Ø 40 mm thickness 2 mm
EVA02	Pair of adapters for round pipe Ø 40 mm thickness 1 mm
EVA03	Pair of adapters for octagonal pipe Ø 40 mm
EVA04	Pair of adapters for round pipe Ø 50 mm thickness 1.5 mm
EVA05	Pair of adapters for round pipe Ø 50 mm thickness 2 mm
EVA06	Conversion ring for adapters for tubular sections Ø 45 mm
EVA401	Wheel for round pipe Ø 50 mm
EVA402	Pair of adapters for octagonal pipe Ø 52 mm
EVA403	Pair of adapters for ZF round pipe Ø 54 mm
EVA404	Pair of adapters for round pipe Ø 58 mm
EVA406	Pair of adapters for round pipe Ø 60 mm
EVA407	Pair of adapters for octagonal pipe Ø 60 mm
EVA409	Pair of adapters for DEPRAT round pipe Ø 62 mm
EVA410	Pair of adapters for round pipes and corrugated round pipes with slanting ogive/ROLLER BAT Ø 63 mm
EVA411	Pair of adapters for ZF round pipe Ø 64 mm
EVA412	Pair of adapters for round pipe Ø 70 mm
EVA413	Pair of adapters for octagonal pipe Ø 70 mm
EVA414	Pair of adapters for round pipes and corrugated round pipes with slanting ogive Ø 70 mm
EVA415	Pair of adapters for round pipes and corrugated round pipes with slanting ogive/ROLLER BAT Ø 70 mm
EVA417	Pair of adapters for ZF round pipe Ø 80 mm
EVA418	Pair of adapters for round pipes and corrugated round pipes with slanting ogive/ROLLER BAT Ø 80 mm
EVA419	Pair of adapters for round pipes and corrugated round pipes with slanting ogive Ø 85 mm
EVA420	Pair of adapters for DEPRAT round pipe Ø 89 mm
ZXVB	Pair of octagonal star adaptors, diameter 60 mm
ZXVC	Pair of adaptors with ogive for sun shades, diameter 70 mm
ZXVL	Pair of adaptors with ogive for sun shades, diameter 78 mm
ZXVO	Pair of octagonal adapters for roller shutters, diameter 60 mm



Other accessories and devices for automation systems are listed from page 160

Automation for windows

Automation systems for windows

Automation system for windows used in residential, tertiary and industrial applications. Gearmotors for automated opening of bottom-hung windows, top-hung windows and skylights. Easy installation, suitable for windows of all types and sizes.

Main specifications

- articulated double link chain housed in special casing (EG30)
- rack for maximum strength and adjustable tilting bracket with 2 mm steps for easy anchoring (EG50)
- limit can be set to 200 and 380 mm using the selection switch (EG30)
- limit of 320 mm, can be adjusted in steps of approximately 50 mm (EG50)
- standard supports and accessories for bottom-hung windows (EG30) and top-hung windows (EG50)
- quick attachment to the frame

Operator technical data

Article	EG30	EG50
Power supply	230 Vac (EG30/G, EG30/N) 24 Vdc (EG30/N24)	230 Vac
Input current	0.26 A (EG30/G, EG30/N) 1.3 A (EG30/N24)	0.3 A
Thrust force (N)	300	500
Tractive force (N)	300	500
Useful travel (mm)	200, 380	150, 200, 250, 320
Protection rating	IP30	IP55
Operating temperature (°C Min/Max)	-5 to +50	-5 to +55
Dimensions (mm)	337.2x103x60	775x94x68
Weight (kg)	1.1	9
Thermal protection (min.)	4	4
Thermal protection (min.)	4	4

Choice of operator according to the window to be motorized:

Top-hung windows (A) or bottom-hung windows (B)

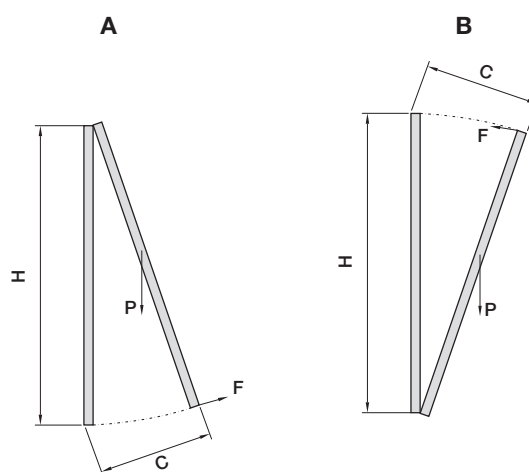
F = force required for opening or closing

P = weight of the window (moving part only)

C = window opening limit

H = height of the window (moving part only)

$$F = (0.54 \times P) \times \left(\frac{C}{H} \right)$$

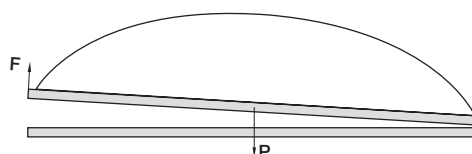


Horizontal roof vents or skylights

F = force required for opening or closing

P = weight of the skylight or roof vent (moving part only)

$$F = 0.54 \times P$$



Automation for windows

230 V automation system for windows, with chain

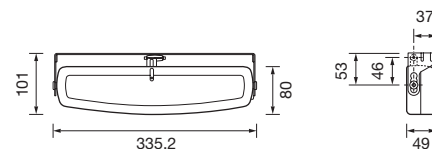
EG30/G	grey	Operator with double articulated chain for window automation. Complete with support and accessories for tilt, top-hung, dome and skylight windows, travel can be set to 200 or 380 mm. Supply voltage: 230 Vac 50 Hz, maximum load 300 N
EG30/N	black	
EG30/N24	black	Operator with double articulated chain for window automation. Complete with support and accessories for tilt, top-hung, dome and skylight windows, travel can be set to 200 or 380 mm. Supply voltage: 24 Vdc, maximum load 300 N



EG30/N
EG30/N24



EG30/G

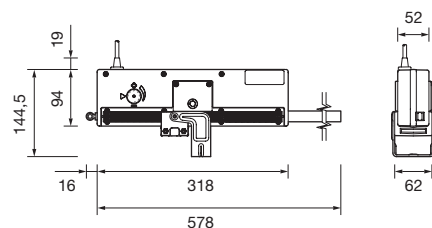


230 V automation system for windows, with rack

EG50	Rack operator for window automation. Complete with support and accessories for tilt, top-hung, dome and skylight windows, 320 mm adjustable travel. Supply voltage: 230 Vac, maximum load 500 N
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EG50



Control panels

▲ ECGC	Miniature control unit 230 Vac max 1000 W for roller shutter box installation with built-in 433 MHz radio receiver for tubular motors and actuators for windows
ECGF	Control unit 230 Vac max 450 W for back-box installation with built-in 433 MHz radio receiver for tubular motors and actuators for windows
ECG3	120/230 V control panel with built-in 433 MHz radio receiver for tubular motors and actuators for windows



▲ ECGC



ECGF



ECG3

Sensors

EGA3.1	Tachometric anemometer for ECG3 control unit for tubular motors
Δ EGL3	Twilight sensor with adjustable sensitivity for ECG3 control unit for tubular motors
Δ EGP3	Rain sensor with thermostat for ECG3 control unit for tubular motors, 12 Vdc power supply



EGA3.1



Δ EGL3



Δ EGP3

Accessories

- Remote controls
- Flashing lights
- Antenna
- Control modules
- Photocells
- Key switches
- Keypads
- Protection devices
- Impact force measuring instruments
- Accessories
- Spare parts

Accessories

Remote controls

ETA1	2-channel 433 MHz remote control, fixed code with self-learning function
ET03	2-channel 433 MHz remote control, fixed code with dip
ET04	As above, with 4-channel
ETR5	2-channel 433 MHz rolling code remote control
ETR4	As above, with 4-channel
ETT01	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors. Includes wall support with magnetic hook
▲ ETT01T	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors, with hourly, daily or weekly programming. With LCD display for setting the time and date and indication of battery charge level. Includes wall support with magnetic hook
▲ ETT05T	As above, to control 4+1 tubular motors or 4+1 groups with channel selecting
ETT15	Remote control for 433 MHz tubular motors, rolling code. Can control 15+1 tubular motors or 15+1 groups of tubular motors. With LCD display for channel selection and indication of battery charge level. Includes wall support with magnetic hook
▲ ETT01F	Remote control for 433 MHz tubular motors, rolling code. Can control a single or group of tubular motors. For back-box installation coupled to conventional residential series buttons. Power supply 12/24 Vac



ETA1



ET03



ETR5



ETR4



ETT01



▲ ETT01T
▲ ETT05T



ETT15



▲ ETT01F

Flashing lights and supports

ELA5	12/24 Vdc 5 W flashing LED light
ELA6	120/230 Vac 5 W flashing LED light with electronic flash
ELA7	LED flashing lamp 12/24/120/230 Vac/dc 5 W with settable flash
EL33	Flashing light wall support



ELA5
ELA6
ELA7



EL33

Gate automation

Accessories

Antenna

ZL43	Antenna for 433 MHz receivers and wall-mount support, 3 m of RG58 cable
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ZL43

Control modules

▲ ECRU.1	12-24 V 2-channel receiver for automations and auxiliary services control, 433 MHz, rolling code or fixed code for automation system control, memory holding up to 500 remote controls
▲ ECRU.W	12-24 V 2-channel receiver for automations and auxiliary services control, programmable via smartphone/tablet, 433 MHz, rolling code or fixed code for automation system control, memory holding up to 4032 radio devices, can be expanded up to 4 channels with ECRU.W.CA
▲ ECRU.W.CA	Additional channel for ECRU.W receiver, it enables the receiver to reach 4 channels
▲ EMC.W	Wi-Fi connection module for SL24.W, SW24.W control units, it enables the communication between the control units and smartphone/tablet via Wi-Fi
▲ MEM.W	Additional memory module for control units and receivers .W supplied of Wi-Fi connectivity, it is used as back-up module for control units .W and as memory expansion module for ECRU.W receiver
▲ 433RAD.W	433 MHz radio receiver module for control units .W supplied of Wi-Fi connectivity
Δ ECRU	2-channel 12/24 Vac/dc receiver for controlling automation systems and auxiliary services, 433 MHz, rolling code or fixed code for automation system control, memory holding up to 500 remote controls, can be expanded up to 4 channels with ECRU.CA contacts
Δ ECRU.CA	Additional contact for ECRU receiver
Δ ECRR/M	ECRR receiving board memory



▲ ECRU.1
▲ ECRU.W



▲ ECRU.W.CA



▲ EMC.W



▲ MEM.W



▲ 433RAD.W



Δ ECRU



Δ ECRU.CA

Flush mounting photocells

EF01.1	Pair of 12/24 Vac/dc photocells with a range of 30 m, flush-mount installation on ZX26 box
ZX26	Single flush mounting box for EF01 photocells and ED01 key switch



EF01.1



ZX26

Accessories

Wall-mount photocells

EFA1	Pair of 12/24 Vac/dc max 110 mA photocells with a range of 15 m, synchronised low profile, 180° adjustment, wall-mount or post-mounted on EE21, EE22 posts
EF04/S	Pair of 12/24 Vac/dc max 110 mA photocells with a range of 15 m, synchronised low profile, wall-mount installation or EE11, EE12 post installation
EFA3	Pair of 12/24 Vac/dc max 70 mA photocells with a range of 15 m, synchronised, wall-mount or post-mounted on EE21, EE22 posts
Δ EFA2	Pair of photocells, receiving 12/24 Vac/dc power supply, transmitting power supply with 2 x 3.6 V 2.5 Ah batteries, range 25 m, 90°-0-90° adjustment, with input for safety edge, wall-mount installation
Δ ZBA4	Two 3.6 V 2500 mA lithium batteries, size AA



EFA1



EF04/S



EFA3



Δ EFA2

Post-mounted photocells

EFA1	Pair of 12/24 Vac/dc max 110 mA photocells with a range of 15 m, synchronised low profile, 180° adjustment, wall-mount or post-mounted on EE21, EE22 posts
EFA3	Pair of 12/24 Vac/dc max 70 mA photocells with a range of 15 m, synchronised, wall-mount or post-mounted on EE21, EE22 posts
EF04/S	Pair of 12/24 Vac/dc max 110 mA photocells with a range of 15 m, synchronised low profile, wall-mount installation or EE11, EE12 post installation
EE11	Low-profile post for EF04/S photocells, one hole, height 500 mm, complete with anchoring base and cover
Δ EE12	Low-profile post for EF04/S photocells and EDE4 selectors, two holes, height 1000 mm, complete with anchoring base and cover
ZX46	Fixing plate for posts EE11, EE12 and EE14, to be cemented
EE21	Low post h 500 mm with 1 hole for installing wall-mount accessories, aluminium structure, anodized finish
EE22	High post h 1000 mm with 1 or 2 holes for installing wall-mount accessories, aluminium structure, anodized finish
EE23	Anchor plate to be cemented for EE21 and EE22 posts
EF02.1	Pair of 12/24 Vac/dc photocells with a range of 30 m, installation on EE01 and EE02 posts
Δ EE01	Low-profile post for EF02 photocells, one hole, height 500 mm, complete with anchoring base and cover
Δ EE02	Low-profile post for EF02 photocells, two holes, height 1000 mm, complete with anchoring base and cover



EFA1



EFA3



EF04/S



EE11



ZX46



EE21



EE22



EF02.1

Gate automation

Accessories

Flush-mount key switch

Δ ED01	1 A 24 V key switch, flush-mount on ZX26 box
ZX26	Single flush mounting box for EF01 photocells and ED01 key switch



Δ ED01

ZX26

Post-mounted selectors

EDS1	16A 250V key switch, wall-mount or post-mounted on EE22 posts
EE22	High post h 1000 mm with 1 or 2 holes for installing wall-mount accessories, aluminium structure, anodized finish
EE23	Anchor plate to be cemented for EE21 and EE22 posts
Δ EDE4	1 A 24 V low-profile key switch, wall-mount installation or EE12, EE14 post installation
Δ EDE5	Pair of 1 A 24 V low-profile selectors with identical keys, wall-mount installation or EE12, EE14 post installation
Δ EE12	Low-profile post for EF04/S photocells and EDE4 selectors, two holes, height 1000 mm, complete with anchoring base and cover
Δ EE14	Low-profile post for EDE4 selectors, one hole, height 1000 mm, complete with anchoring base and cover



EDS1

EE22

EE23

Δ EDE4

Δ EDE5

Δ EE12

Δ EE14

Gate automation

Accessories



Surface mounting key switch

EDS1	16 A 250 V key switch, surface mounting or on EE22 posts mounting
EDS1.351	Key switch with key n. 351
EDS1.352	As above, with key n. 352
EDS1.353	As above, with key n. 353
EDS1.354	As above, with key n. 354
EDS1.355	As above, with key n. 355
EDS1.356	As above, with key n. 356
EDS1.357	As above, with key n. 357
EDS1.358	As above, with key n. 358
EDS1.359	As above, with key n. 359
EDS1.360	As above, with key n. 360
EDS1.361	As above, with key n. 361
EDS1.362	As above, with key n. 362
EDS1.363	As above, with key n. 363
EDS1.364	As above, with key n. 364
EDS1.365	As above, with key n. 365
EDS1.366	As above, with key n. 366
EDS1.367	As above, with key n. 367
EDS1.368	As above, with key n. 368
EDS1.369	As above, with key n. 369
EDS1.370	As above, with key n. 370
EDS1.371	As above, with key n. 371
EDS1.372	As above, with key n. 372
EDS1.373	As above, with key n. 373
EDS1.374	As above, with key n. 374
EDS1.375	As above, with key n. 375
EDS1.376	As above, with key n. 376
EDS1.377	As above, with key n. 377
EDS1.378	As above, with key n. 378
EDS1.379	As above, with key n. 379
EDS1.380	As above, with key n. 380
EDS4	Pair of EDS1 key switches, wall-mount or post-mounted on EE22 posts, with identical keys
Δ EDS2	16A 250 Vac key switch, wall-mount or post-mounted on EE22 posts
Δ EDS3	16A 250 Vac Euro cylinder key switch, wall-mount or post-mounted on EE22 posts
Δ EDE4	1 A 24 V low-profile key switch, wall-mount installation or EE12, EE14 post installation
Δ EDE5	Pair of 1 A 24 V low-profile selectors with identical keys, wall-mount installation or EE12, EE14 post installation



EDS1.xxx

EDS4



Δ EDS2



Δ EDS3

Keypads

EDT1	12/24 Vac/dc backlit keypad, memory 60 codes, complete with keypad signal decoding module for installation in the control panel, wall-mount or post-mounted on EE22 posts
EDT2	Radio command keypad, memory 60 codes, backlight upon touch, to be used in conjunction with an ELVOX receiver, wall-mount or post-mounted on EE22 posts



EDT1
EDT2

Accessories

Controls

EDP3	Two independent 1P NO 16 A 250 V~ buttons, with directional arrows, white
ZR01	Single-channel loop detector, with 2 outputs, pulse and/or presence, supply voltage 12/24 Vac/dc
ZR02	Two-channel loop detector, supply voltage 12/24 Vac/dc
ZRS1	Coil for loop detector, length 6 m



EDP3



ZR01



ZR02



ZRS1

Protection devices

ECR2.RX	Radiofrequency receiver for the management of one or more sensitive safety edge, 868 MHz frequency, 20 m range, in compliance with EN 12978, supply voltage 12-30 Vac/dc
ECR2.TX	Radiofrequency transmitter for the management of one or more sensitive safety edge 8K2 or microswitch, 868 MHz frequency, 20 m range, in compliance with EN 12978, power with 2 AA LR6 1.5 A batteries (not supplied)
EZS16	Balanced 8k2 safety sensitive edge complying with EN 12978, width 37 mm, depth 61 mm, length 1.6 m
EZS20	As above, with length 2 m
EZS25	As above, with length 2.5 m
EZP16	Microswitch sensitive edge, N/C contact, width 37 mm, depth 61 mm, length 1.6 m
EZP20	As above, with length 2 m
EZP25	As above, with length 2.5 m
EZA20	Passive sensitive edge, width 37 mm, depth 61 mm, length 2 m
EZP07.GA	Microswitch sensitive edge, NC contact, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZP10.GA	As above, with length 1.0 m
EZP12.GA	As above, with length 1.2 m
EZP18.GA	As above, with length 1.8 m
Δ EZP18.G	Microswitch sensitive safety edge, N/C contact, 35 mm width, 25.5 mm depth, 1.8 m length
EZS07.GA	Balanced 8K2 safety sensitive edge complying with EN 12978, width 42,5 mm, depth 26 mm, length 0,7 m, for swing gates and sectional garage doors
EZS10.GA	As above, with length 1.0 m
EZS12.GA	As above, with length 1.2 m
EZS18.GA	As above, with length 1.8 m
Δ EZS18.G	Balanced 8K2 safety sensitive edge complying with EN 12978, width 35 mm, depth 25.5 mm, length 1.8 m
EZ.GA.ANG	Right and left edge junction parts for sensitive edge series EZS.GA and EZP.GA, to use as uninterrupted sensitive edge on 3 sides of the up-and-over doors
EZ.GA.GIU	5 straight junction parts for sensitive edge series EZS.GA e EZP.GA, to use as uninterrupted sensitive edge in case of the standard sensitive edge is not sufficient to cover the entire length of the gate or door
EZ.GA.TAP	Right and left ending cover of sensitive edge of series EZS.GA e EZP.GA
ECR2.FL	Management electronic board of one or more 8K2 sensitive edge, complying with EN 12978, supply voltage 12-30 Vac/dc



ECR2.RX
ECR2.TX



EZS..
EZP..
EZA20



EZP...GA
EZS...GA



ECR2.FL

Gate automation

Accessories

Cable

ZX23	12/24 V gate automation cable, 2x2 mm ² conductors for motor connection + 3x0,5 mm ² for encoder connection - 15 m bundle
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ZX23

Accessories

ZSC1	230 Vac control panel for the management of 2 ZSEM traffic lights
ZSEM	230 Vac red-green traffic light, angle of rotation 200°, complete with wall fixing bracket. Supplied with two 70 W long-life bulbs
ZSEM/L24	24 Vdc/ac red-green traffic light, angle of rotation 200°, complete with wall fixing bracket. Supplied with two 3 W long-life bulbs
ZX20	"Caution automatic gate" polypropylene sign
ECA0	Enclosure for ECA series control panels



ZSC1



ZSEM



ZX20



ECA0

Measuring instrument for "Machine" declaration of conformity

EK0D	Impact force measuring instrument kit complete with: interface, LED display, data storage (50 tests), case with moulded interior, Blue Force software, power lead, key for handle, instructions for use and calibration certificate
EK0P.L	Linear extensions for carrying out impact tests with a gauge at the distances determined by EN 12453



EK0D



EK0P.L

Spare parts

Mechanical spare parts - anchors and brackets

RA04	Bracket with bush for ZI26-ZX21
RA05	Bracket with bush for ZI27-ZX41
RA08	Bracket w/bush ZI26-E20-ZX41
RA40	Front and rear anchoring brackets for EAM1
RA41	Front and rear anchoring brackets for EAM2 and EAM3
RA42	Front and rear anchoring brackets for EAM4
RA65	Anchoring brackets for EAM7
RA75	Release support lever for EIC5 cases
RA76	Gate support lever for EIC5 cases
RA77	Curve drive lever for EIC5 cases
RA78	EIM2 motor shaft lever
RA105	Front and rear fixing bracket for EAM8 and EAM9
ZX16	Anchoring base for ESM1 and ESM2 (useful for ES07 and ES09)
ZX76	Anchoring base for ESM3
ZX77	Anchoring base for ESM4, ESM5 and ESM6
ZX82	Anchoring base for ESM7
ZX84	Anchoring base for ESM8 and ESM9
ZX86	Fixing brackets spaced from the ceiling for tracks ENX

Mechanical spare parts - limit switches and stops

RA10	Limit for casing ZX41
RA43	Limit stop cams for EBM1
RZP1	Limit Switch For Roll. Shutter

Mechanical spare parts - releases and locks

R306/10	Rubber plug for lock, 10 pieces
R308	Lock for ZBR series barriers
RA25	Release and key for ESM1 and ESM2
RA26	Release and key for ESM3
RA27	Release and key for ESM4, ESM5, ESM6 and EAM4
RA34	Release and key for EAM5 and EAM6
RA35	Release key for EAM5 and EAM6
RA57	Release and key for operators ESM7
RA67	Cover for release and key for EAM7
RA86	Cover for release and key for ESM8 and ESM9
REA4	Device for motor EA/ZA Series
REA5	Lock with key for EAM2 and EAM3
REA6	Release cover EAM2 and EAM3
REA7	Key to unlock EAM1
RES8	Lock with key for ES series sliding gates
ZDA7	Release for operators ZI26 and EI20
ZX33	Master key for ESM1, ESM2, EAM2, EAM3 (useful for ES07, ES09, EA25, EA50)
ZX37	Lock release for ZDA7 and ZDB7
ZX78	Blank release key for ESM3
ZX79	Blank release key for ESM4, ESM5, ESM6 and EAM4
ZX81	Release key for ESM7 and EAM7
ZX83	Blank release key for ESM8 and ESM9
ZX85	Blank release key for EAM8 and EAM9

Mechanical spare parts - operator covers

RA12	Sliding cover ZS
RA19	Cover for ZA30
RA22	Cover for ESM1 and ESM2
RA23	Cover for ESM3
RA24	Cover for ESM4, ESM5, ESM6
RA33	Cover for EAM5 and EAM6
RA80	Cover for ESM8 and ESM9
RA36	Cover for EBR1 and EBR2
RA44	EAM1 release cap
RA46	Flap covering terminal block EAM1, EAM2, EAM3

Spare parts

Mechanical spare parts - operator covers

RA50	Cover for ESM7
RA51	R+L cover for ESM7 anchoring base
RA52	ESM7 control board cover
RA60	Cabling cover for EAM7
RA70	Cover KLYS 9SD and KLYS 12SD
RES1	ES series sliding automation syst. cover

Mechanical spare parts - Reduction assemblies

RA09	1,5 gear module for barriers series ZBR, up-and-over doors series ZB and EB and articulated ZA30
RA11	Drive shaft for ZBNC
RA45	EAM1 worm screw assembly
RA48	EAM2 worm screw and stem assembly
RA49	EAM3 worm screw and stem assembly
RA55	ESM7 reduction assembly, includes shaft, ring gear, output pinion, bushings and retainer rings
RA62	EAM7 reduction assembly
RA63	EAM7 worm screw assembly
RA64	EAM7 lead nut assembly
RA90	ESM1, ESM2 reduction assembly. Includes shaft, ring gear, output pinion, bushings and retainer rings
RE25	EA25 worm screw and stem assembly
RE50	EA50 worm screw and stem assembly
REA1	Reduction assembly for EAM2 and EAM3 (useful for EA25 and EA50)
REA8	Lead nut and fork for EAM1 (useful for EA20 and EA20/SE)
RES6	Reduction assembly for ES07 12 V 600 kg
RES7	Reduction assembly for ES09 12 V 1000 kg
RZ25	ZA25 worm screw and stem assembly
RZ50	ZA50 worm screw and stem assembly
RZA1	Gear for swing gate ZA25, ZA50

Mechanical spare parts - Sprockets

RA06	Right-hand pinion with mechanical stop for ZBR series barrier chain
RA28	Sprocket for ESM1 and ESM2
RA29	Sprocket for ESM3
RA30	Sprocket for ESM4, ESM5 and ESM6
RA59	Sprocket for ESM7
RA89	Sprocket for ESM8 and ESM9

Mechanical spare parts - generic

ECV0	Housing for EC control panels
RA01	Rubber buffer
RA02	Spring N.44 blue for ZBR
RA03	Spring N.47 orange
RA07	Bushing for casing ZX41
RA13	Guide plug for ZA25
RA14	Box front series ZC
RA15	Box front series EC
RA18	Support tube for barrier beams ZBNC
RA53	Plastic assembly supporting and covering the ESM7 board
RA95	Plastic assembly supporting and covering the ESM1 and ESM2 board and transformer
RA100	Bushing for casing ZX21
RA101	Screw for casing ZX21
REA2	Case for swing EA25-EA50
RES5	ES series sliding die-cast base assembly (dark sable grey bases)
RZB1	Adjuster screw with chain ZBR and ZBS
ZBRF	Final element for ZBR series barriers
ZBRI	ZBR barrier initial/intermediate element
RZE3	Pack of screws for rack ZE03
RZE7	Pack of screws for rack ZE07

Spare parts

Electrical spare parts - transformers

R307	Toroidal 230 V 50/60 Hz 220 VA power supply transformer for EC31 and EC33 consumer control units
R307/117	As above, 117 Vac supply
R309	Transformer 230-12 V~ 150 VA, for ESM1 operator and ECA1 control unit
R309.120	Transformer 120-12 V~ 150 VA, for ESM1.120 operator and ECA1.120 control unit
R319	Transformer 230-24 V~ 150 VA, for ESM2 operator and ECA5 control unit
R319.120	Transformer 120-24 V~ 150 VA, for ESM2.120 operator and ECA5.120 control unit
R324	Transformer 230-24 V~ for EAM5

Electrical spare parts - motor assemblies

RA17	Motor for barrier series ZBR
RA20	Motor ZM19/ZBN for barriers ZBN
RA47	EAM2, EAM3 motor assembly
RA54	ESM7 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
RA61	EAM7 motor assembly
RA91	ESM1 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
RA92	ESM2 motor assembly, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
REA3	Motor set for operator EAM1 and operator series EA/ZA
RES3	Motor assembly with worm screws for sliding gates series ES 12 V 600 kg with optic encoder
RES4	Motor assembly with worm screws for sliding gates series ES 12V 1000 kg with optic encoder
RZBR	Spare barrier gearmotor ZBR
RZBS	Spare barrier gearmotor ZBS/D
▲ RMEBR1	Motor adaptor part EBR1
▲ RMEBR2	Motor adaptor part EBR2

Electrical spare parts - Capacitors

RA37	Capacitor for ESM3, EAM4, EIM2
RA37.120	Capacitor for ESM3.120, EAM4.120, EIM2.120
RA38	Capacitor for ESM4 and ESM5
RA38.120	Capacitor for ESM4.120
RA39	Capacitor for ESM6
RA39.120	Capacitor for ESM5.120 and ESM6.120
RA87	Capacitor for ESM8
RA88	Capacitor for ESM9
RA107	Capacitor for EAM8 and EAM9

Electrical spare parts - Lamps

RZ12	12 V 5 W lamp for ELA1
RZ13	24 V 13 W lamp for ELA2
RZ14	230 V 25 W lamp for ELA3, ELA4

Electronic spare parts - Control panels and control panel accessories

▲ MEM.W	Additional memory module for control units and receivers .W supplied of Wi-Fi connectivity, it is used as back-up module for control units .W and as memory expansion module for ECRU.W receiver. Supplied with SL24.W and SW24.W
▲ 433RAD.W	433 MHz radio receiver module for control units .W supplied of Wi-Fi connectivity
ECE1	Plug-in encoder board for RS03 RS04
ECE2	Plug-in encoder board for RS07, RS08
R310/GR	Integrated for ZC14/ZC24 cards. Standard version 1.26
R310/SF	Intégré pour cartes ZC14/ZC24 Version 1.26/SF ss déphasage pour barrières et vantaux coulissants opposés
R311	Optic encoder board for motors 12 V (production from 2004)
R311/V	Optic encoder board for motors 12 V (production before 2004)
RA98	Kit for converting sliding operators with no limit switches into operators with magnetic limit switches, contains RA96, RA97 and RS01
RS14	Electronic control board with built-in 433 MHz radio receiver for 24 V sectional automation systems for EN05 and EN10 operators

Spare parts

Electronic spare parts - Limit switches and stops

RA31	Limit switches for ESM3
RA32	Limit switches for ESM4, ESM5, ESM6
RA93	Pair of limit stop brackets for ESM3, ESM4, ESM5, ESM6
RA96	Limit stop brackets and magnets for sliding ESM2 and ESM7. Along with RA97 it enables operation of ESM1 with magnetic limit switches instead of resting on mechanical stops
RA97	Limit switch magnetic sensor ESM2. Along with RA96 it enables operation of ESM1 with magnetic limit switches instead of resting on mechanical stops
RA98	Set of magnetic limit switches and control unit for sliding conversion 12V without limit stop in version with magnetic limit switches. Contents: RS01, RA96, RA97

Electronic spare parts - Generic

R312/V	433 MHz radio receiver board for EL09/EL10/EL08 (replace R312)
R313/V	40 MHz radio receiver board for EL01/EL02/EL04 (replace R313)
RA16	Optical encoder disc

Spare parts

Δ ECA3	Display control unit with built 433 MHz radio receiver for 12 V swing gates (includes EC60 board)
Δ EL10	Flashing light 433 MHz radio + antenna
EM09	Mechanical spare part for non-reversible actuator for sliding gates 12 Vdc ES09, for gates up to 1000 kg, supplied without actuator cover, electronic board and transformer
ET02	4-channel 40 MHz remote control
RI20	Non-reversible underground operator 12 Vdc EI20 spare part, with encoder, for leaves up to 2 m and 200 kg
RI20/21	Non-reversible underground operator 12 Vdc EI20/21 spare part, with encoder, for leaves up to 2 m and 200 kg
RI27	Non-reversible underground actuator 12 Vdc ZI27 spare part, with encoder, for leaves up to 3 m and 200 kg
RM07	Mechanical spare part for non-reversible sliding operator 12 Vdc ES07, for gates up to 600 kg. Supplied without operator cover, printed circuit board, transformer
RM10	Mechanical spare part for non-reversible sliding operator 12 Vdc ESM1, for gates up to 600 kg. Supplied without operator cover, printed circuit board, transformer
RM11	Mechanical spare part for operator ESM2
RM21	Non-reversible linear operator 12 Vdc EA25 spare part, with encoder, for leaves up to 2.5 m and 400 kg. Supplied without fixing brackets
RM22	Non-reversible linear operator 12 Vdc EA50 spare part, with encoder, for leaves up to 3.5 m and 300 kg. Supplied without fixing brackets

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▲ 433RAD.W	Radio module 433MHz control card .W	72	ECB3	KLYS 9CD MASTER 24V Pb battery charger	126
Δ EAM1	EKKO 200D linear operator 12V 2m 200kg	79	ECB4	EKKOART200D MASTER 24V Pb batt. charger	108
EAM2	EKKO 300D linear operator 24V 3m 300kg	85	ECB5	ACTO/EKKO 12V Pb battery charger	72
EAM3	EKKO 400D linear operator 24V 4m 250kg	93	ECE1	Plug-in encoder card for RS03 RS04	171
EAM4	EKKO350A linear operator 230V 3.5m 400kg	91	ECE2	Plug-in encoder board for RS07, RS08	104
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▲ EAM5.N	EKKOART200D MASTER operator 24V 2m 200kg	107	ECGF	Micro control board 230V 200W stores/win	154
▲ EAM6.N	EKKOART200D SLAVE operator 24V 2m 200kg	107	ECGS	Tubular motor serial expansion sw-board	154
EAM7	EKKO 204D operator 24V 2m 200kg	81	ECGT	Control card tubular/window centraliz.	154
EAM8.L	Left linear operat.EKKO300A 230V3m200kg	83	ECP1	230V- manned rolling door control panel	144
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▲ EAX1.N	Standard articulated arm - hinges 240mm	108	ECR2.TX	RF-Transmitter safety edge 8k2	75
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EBRA.3L	FRAGMA 4A LED barrier arm 3m	137	Δ EDE5	Pair EDE4 1A24V selectors identical keys	165
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EBRA.4L	FRAGMA 4A LED barrier arm 4m	137	EDP3	Two 1PNO16A250V indep. buttons + arrows	144
EBRA.580	FRAGMA 6A barrier arm D80mm 5m	137	EDP4	10A 250V~ aluminium enclosure	108
EBRA.5L	FRAGMA 6A LED barrier arm 5m	137	EDS1	16A250V surface alum.key selector	165
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EBRM.4.5	EBRA.380/480/580 arm bal. spring D4.5mm	138	EDS1.359	Surface key selector N.359	166
EBRM.5	EBRA.380/480/580 arm bal. spring D5mm	138	EDS1.360	Surface key selector N.360	166
EBRM.5.5	EBRA.680 arm balancing spring D5.5mm	138	EDS1.361	Surface key selector N.361	166
EBRM.80	FRAGMA4A/FRAGMA6A barr. arm hub D80mm	138	EDS1.362	Surface key selector N.362	166
EBRM.L	FRAGMA 4A/6A LED barr. arm hub	138	EDS1.363	Surface key selector N.363	166
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EBS2	KLYS9CDMASTER+SLAVE ext. manual release	126	EDS1.369	Surface key selector N.369	166
EBS3	KLYS9CD MASTER manual hex release	126	EDS1.370	Surface key selector N.370	166
EBS4	KLYS 9/12SD external key-release	130	EDS1.371	Surface key selector N.371	166
EBX1	KLYS 9CD up-and-over metal strut 0.8m	126	EDS1.372	Surface key selector N.372	166
EBX2	Pair of KLYS9CD straight telescopic arms	126	EDS1.373	Surface key selector N.373	166
EBX3	Pair of KLYS 9CD MASTER side supports	126	EDS1.374	Surface key selector N.3714	166
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EBX6	Pair of KLYS 9CD curved telescopic arms	126	EDS1.377	Surface key selector N.377	166
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