VIEW
IoT smart life

VIMAR

CATALOGUE
english

ELVOX GATES

AUTOMATIC GATE SYSTEMS:
NEW GENERATION PERFORMANCE.

Elvox gate automation systems have been designed to give the best in terms of quality, performance and safety. All Elvox products comply with the European safety standards and are made of materials that guarantee high performance and durability over time. In addition they have a design that enhances product aesthetics and a precise and reliable operation.

Simple and advanced solutions.

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.

High performance for every field of application.

Single products or kits, ideal to meet any installation requirements and with technologies that ensure not only safety, but also great performance. The 24 Vdc and 230 Vac motor drives support frequent use with a high number of operating cycles, thanks to a precise and robust operators, resistant to the atmospheric agents.
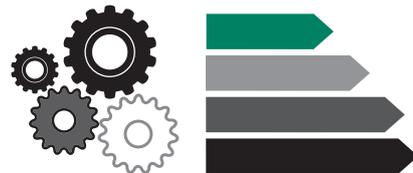
Field of applications.

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 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.

ELVOX GATES

GATE AUTOMATIONS: TOTAL CONTROL AND CONFIGURATION FROM ANYWHERE WITH SMARTPHONE AND TABLET.

From today, after installing the gate operator, with the Wi-Fi connection module it is possible to perform diagnostics and further programming remotely. It is therefore possible to set all the settings, carry out the commissioning, duplicate the settings on other control units and save all the data before fine tuning or reprogramming from anywhere, without having to operate on the gate motor, simply using a smartphone or a tablet.

VIMAR   VIMAR

By-gate   By-gate Pro

By-gate and **By-gate Pro apps.**

With the new **By-gate app**, your customers can finally manage their gate any time, from anywhere and in the most immediate way: directly from the smartphone. The automation systems for sliding or swinging gates can now be installed in an easier way, you now have the possibility of configuring and programming the control panels with the new **By-gate Pro** app, directly from your smartphone and your tablet. An innovation that makes your work easy allowing you to do it accurately even remotely.
The Apps are available free of charge for iOS and Android. The interfaces are clear and simple, guiding installers step by step in the installation with intuitive explanations.

Download on the **App Store**   GET IT ON **Google Play**

VIMAR

By-gate app, so much comfort for your customers.

From now on, in addition to the normal remote control, your customers can open their gate using the only radio control that they always carry with them: the smartphone. Just install the new **By-gate** app: extremely functional and easy to use, it represents an opportunity to create interest and bring them closer to the proposals of the automation system.
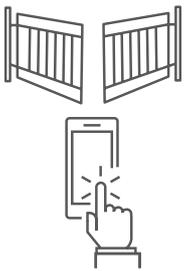
To open, close, stop the gate. Directly from the smartphone.
It only takes a click to open, close, stop the gate remotely, from anywhere, any time. The control is constant and extremely accurate.

Automatic notifications on the status of the gate. Intelligence meets security.
The user knows at any time the status of his gate. The By-gate app communicates in real time through automatic notifications the gate has remained open, even just partially, allowing the user to act accordingly.

The gate is always close at hand, even when you are not at home.
When your customers are away from home, but they need to let someone in the property, just a smartphone or a tablet and the opening of the gate is immediate.

Automatic opening with weekly programming.
The user can program the gate to open and remain open during one or more time slots of the day (eg morning and evening on weekdays), without the addition of external timers.
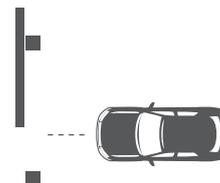
## Opening through geolocation. Designed to make life easier.
The By-gate app uses the smartphone geolocation service and when it detects the presence of the user near the gate it can activate the opening in total autonomy. And in complete safety.
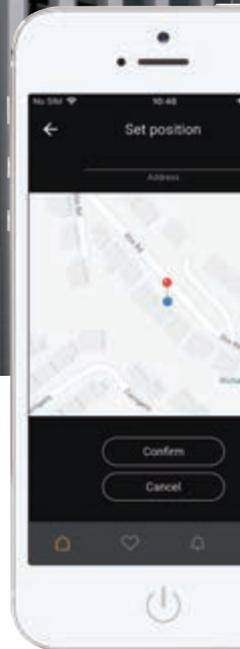
By-gate Pro app: today your work gets easier and safer.

All it takes is a simple app to easily and quickly program the new control units connected to the Wi-Fi module. And with remote management, even following diagnostic operations, duplication of settings and assistance are available in the same easy way.

VIMAR
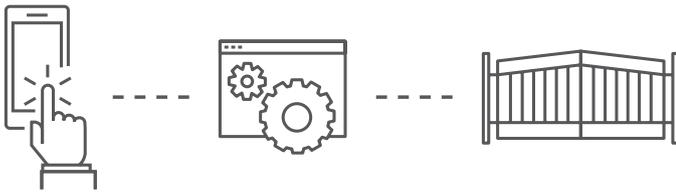
Diagnostics with notifications. For non-stop assistance and control.

By-gate Pro app will inform you of any malfunction of the system. A notification will inform about the presence of a fault allowing you to arrange the assistance promptly and accurately.

Control unit and Wi-Fi connection module.

From today, after installing the gate operator, with the Wi-Fi connection module it is possible to perform diagnostics and further programming remotely. It is therefore possible to set all the settings, carry out the commissioning, duplicate the settings on other control units and save all the data before fine tuning or reprogramming from anywhere, without having to operate on the gate motor, simply using a smartphone or a tablet.
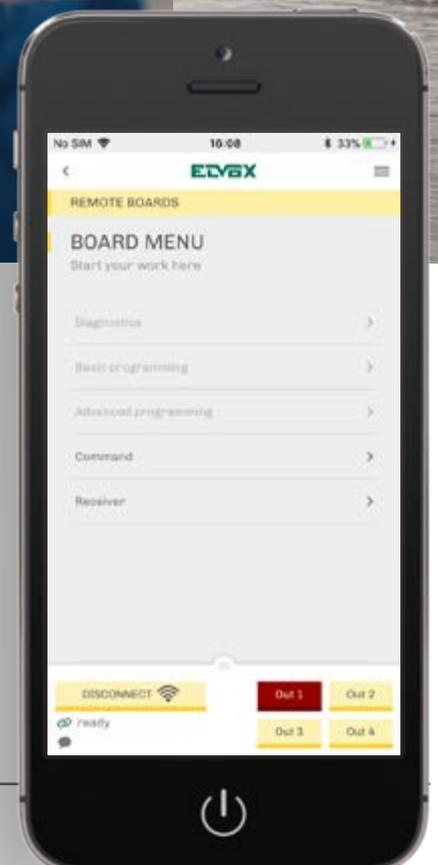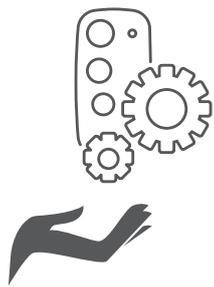
A perfect optimization of resources.

Storing remote controls is so intuitive that it can be carried out by non-specialized personnel while you are working on site. For an optimized management of resources.

Intelligent programming and immediate replacement.

Just frame the QR Code with the smartphone to store 30 remote controls at the same time. And in case of loss or malfunction it is possible to remove or add a remote control to a system simply by entering a serial number even remotely, without operating on the control unit.

The management of remote controls too is fast and functional.

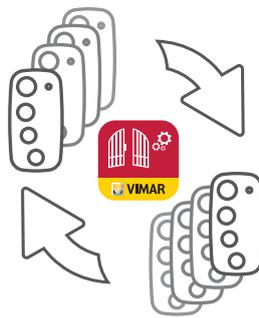With By-gate Pro, the process of programming, managing and replacing remote controls is immediate: all you need is just your smartphone, you do not need to interact with the control panel.

Non-stop accessibility. For a perfect organization of your work.

All employees can access the updated programming database at any time. In this way, maintenance interventions can be organized quickly, saving time in reprogramming the system.

Installations cloud backup and restore. Always up-to-date and shared.

By-gate Pro allows you to make changes to installations remotely and cloud backup them in your archive for an immediate sharing with your installation crews, so they are always in sync with the performed interventions.

ADVANCED SOLUTIONS SIMPLE TO INSTALL

It is a structured range, with each product type designed to satisfy precise requirements in specific application contexts. Automation systems for sliding and swing gates with various types of opening mechanism, for garage doors, road barriers and doors and windows. Available as a kit or as individual components, they are extremely easy to install.

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:

- 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
- Available with Wi-Fi connection module for the control by smartphones and tablets.

By-gate   By-gate Pro

EKKO swinging gates.

Vast range of operators, diversified according to motion transmission system and aesthetic solutions, covering application on gate leaves up to 4 m long. Solutions suitable for residential applications as well as more intensive and industrial use.

Technical specifications:

- 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 24 V version
- Manual release if the power supply is cut off, practical and accessible
- Available with Wi-Fi connection module for the control by smartphones and tablets.

By-gate   By-gate Pro

EKKO ART swinging gates.

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.

Technical specifications:

- 24 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
- Manual release if the power supply is cut off, practical and accessible

HIDDY underground 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. 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:

- 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
- Available with Wi-Fi connection module for the control by smartphones and tablets.

By-gate   By-gate Pro

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.

Technical specifications:

- Motors with LED lighting
- step-by-step 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

For up-and-over doors.

For doors up to 12 m^2, 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 m^2.

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
- Operator with encoder system, for the movement safety
- 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.

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.

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.

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 weather-proof housings.

VIEW
IoT smart life

VIEW: VIMAR ENERGY on the WEB.

Smart products and interconnected systems.

What is VIEW? VIEW is a range of stylistically matching smart products and interconnected systems that are also compatible with other manufacturers' products, all conceived with the aim of increasing simplicity for users and offering them an intuitive experience, working towards total control of their homes and a smart lifestyle.

In line with this premise, VIEW is Vimar's vision of the digital world and of the Internet of Things, which forms the guiding principle for the ongoing development of smart solutions, all connected to each other, to the Internet and to the user by means of state-of-the-art digital technologies. VIEW looks to the future, today.

Full control via APP.

All you need is your smartphone to manage and supervise your home and the objects in it, easily and instantly.

VIMAR

CONNECTED SYSTEMS
AND PRODUCTS

SOLUTIONS OFFERING
COMFORT, SAFETY AND
ENERGY EFFICIENCY

ADDED VALUE
SERVICES
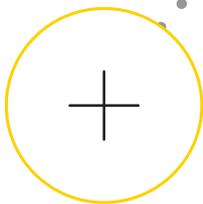
VIEW
IoT smart life

PARTNERSHIPS
WITH STANDARD
PROTOCOLS AND
THIRD-PARTY
SYSTEMS
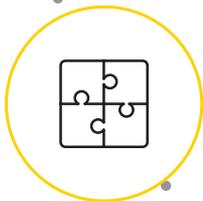
STYLISTICALLY
MATCHING
PRODUCTS AND USER
INTERFACES
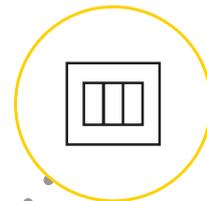
INTEGRATION
BETWEEN VARIOUS
SYSTEMS FOR
A SINGLE USER
EXPERIENCE
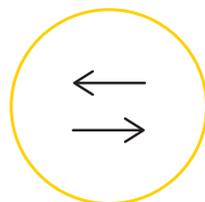
A host of benefits that reflect the needs of a modern lifestyle.

CONNECTED SYSTEMS AND PRODUCTS

Vimar has created a whole range of systems that share a contemporary styling approach and wireless products utilizing technologies that are intuitive, reliable and precise.

CONNECTED SYSTEMS		CONNECTED PRODUCTS	

By-me
Home automation

Well-contact Plus
Building automation

ClimaCrono
Wi-Fi thermostat

ClimaPhone
GSM thermostat

Elvox door entry

By-alarm
burglar alarm system

Stand alone
sound system

Radio frequency
controls

Elvox CCTV

Call-way
emergency call system

Wi-Fi Access point

Wi-Fi cams

Elvox gates

SOLUTIONS OFFERING COMFORT, SAFETY AND ENERGY EFFICIENCY

Effective, complete and suitable for all types of buildings, the solutions supported by View have been designed to provide maximum comfort and security. And all while ensuring the highest level of energy efficiency.
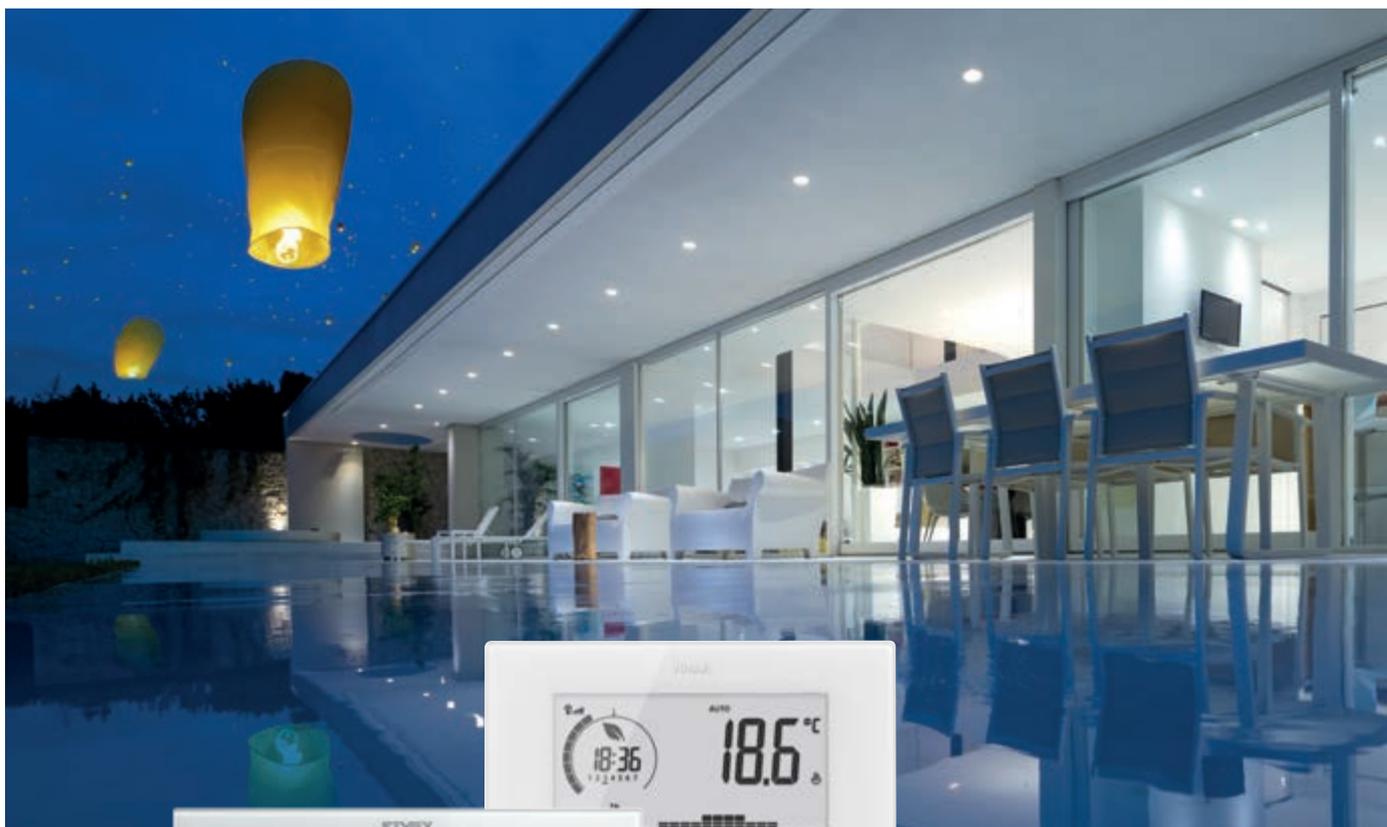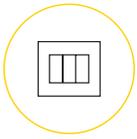
STYLISTICALLY MATCHING PRODUCTS AND USER INTERFACES

As with all Vimar products, View solutions are aesthetically coordinated right down to the last detail, in line with our philosophy that technology and style should always go hand-in-hand.
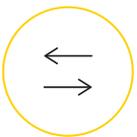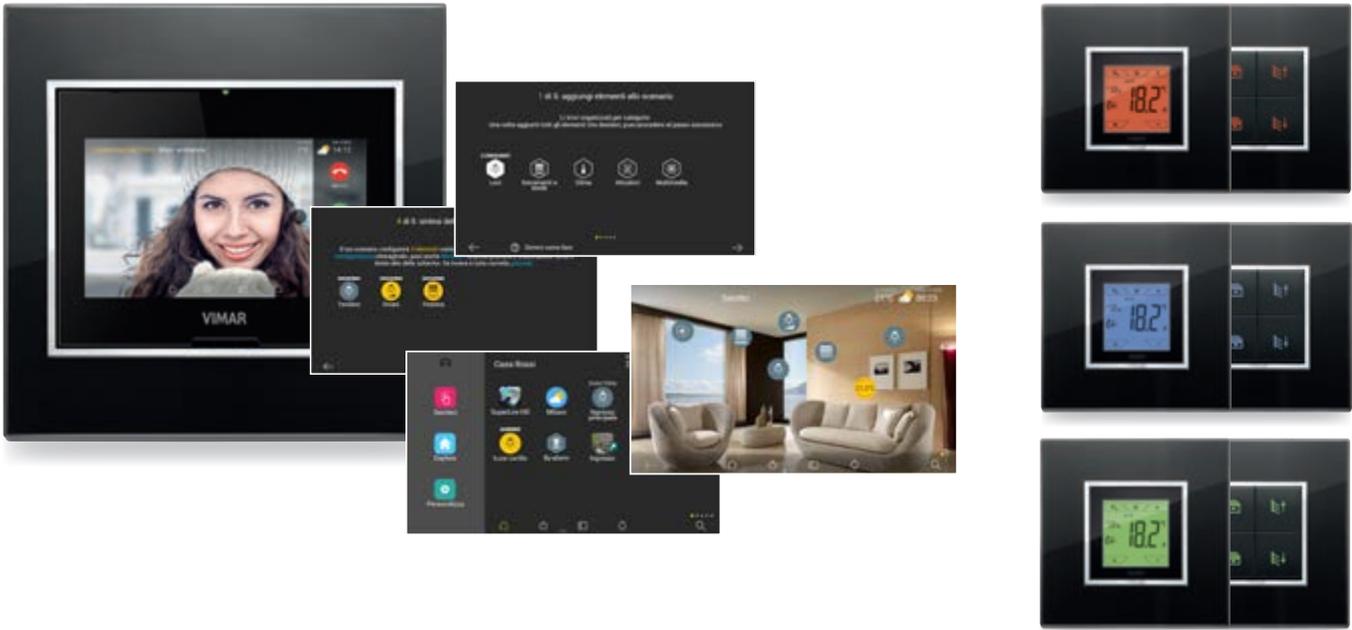
INTEGRATION BETWEEN VARIOUS SYSTEMS FOR A SINGLE USER EXPERIENCE

Smart products and interconnected systems also integrate seamlessly with products by other manufacturers, thus making life easier by providing a single user experience.
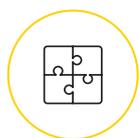
VIMAR

PARTNERSHIPS WITH STANDARD PROTOCOLS AND THIRD-PARTY SYSTEMS

In order to offer a comprehensive, fully integrated service, maximum synergy and partnership between Vimar protocols and those of leading brands in other production segments are guaranteed by specific international standards.

Friends of
hue
personal wireless lighting
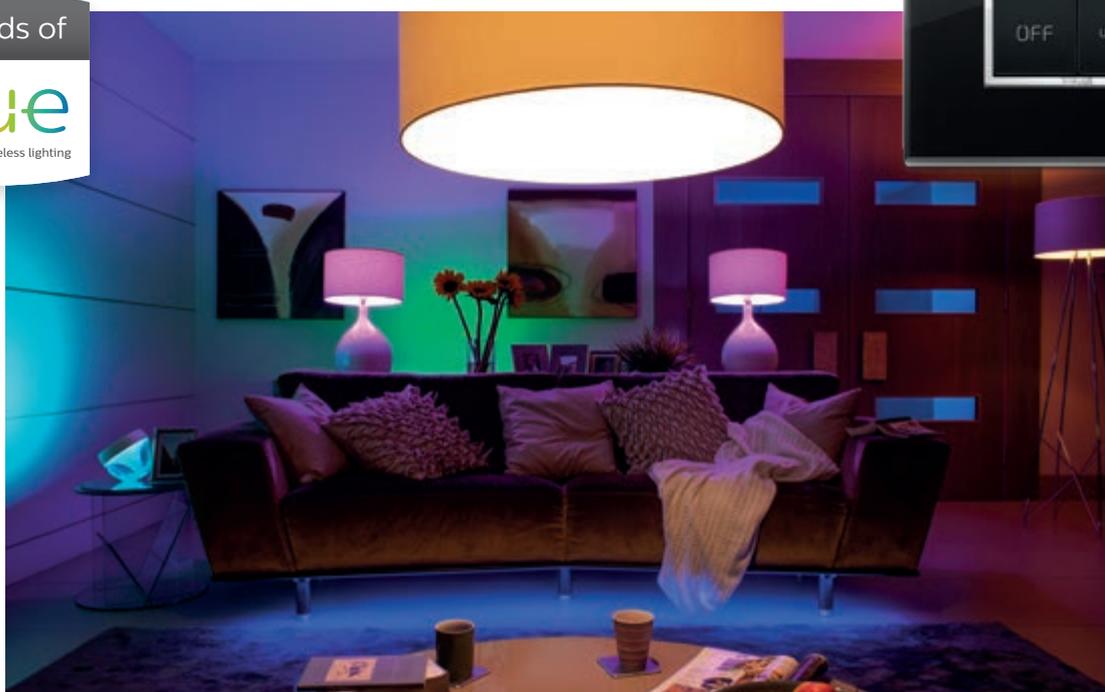
ADDED VALUE SERVICES

Vimar supports sector professionals through training courses, dedicated technical assistance, a toll-free phone number and personalised consultancy services. These activities are aimed at increasing the levels of expertise, safety and quality in their work.

Catalogue section

Selection guide

Automation systems for sliding gates

Series	Gate leaf weight (max.)	Use	Frequency of use	Operator	Power Supply	Electric motor power supply	Encoder	Limit switches	Control board	Receiver	Kit contents
ACTO 400D	400 kg	Residential	50%	ESM1	230 Vac	12 Vdc	Magnetic	Stop on mechanical stops	RS01 Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	EK01 - 1 Operator (ESM1), - 1 Flashing light (ELA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX16), - 1 Warning sign (ZX20)
				ESM1.120	120 Vac						-
ACTO 404D				ESM7	230 Vac	24 Vdc	Magnetic	Magnetic	RS16.P Trimmer and dip		EK14 - 1 Operator (ESM7), - 1 Flashing light (ELA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX82), - 1 Warning sign (ZX20)
											EK14.AL - 1 Operator (ESM7), - 1 2-channel remote control (ETR5), - 1 Fixing plate (ZX82)
ACTO 500A	500 kg	Residential	60%	ESM3	230 Vac	230 Vac	-	Electro-mechanical	RS09 Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	EK03.EXP - 1 Operator (ESM3), - 1 Flashing light (ELA6), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX76), - 1 Warning sign (ZX20)
				ESM3.120	120 Vac						-
				ESM3.D	230 Vac				RS10 Display		-
ACTO 510A	500 kg	Residential	50%	ESM8	230 Vac	230 Vac	Magnetic	Magnetic	RS20 Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	EK16.AL - 1 Operator (ESM8), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX76),
											EK16.EXP - 1 Operator (ESM8), - 1 Flashing light (ELA6), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX76),
ACTO 600D	600 kg	Residential	100%	ESM2	230 Vac	24 Vdc	Magnetic	Magnetic	SL24.T Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	EK02.AL - 1 Operator (ESM2), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX16)
											EK02.EXP - 1 Operator (ESM2), - 1 Flashing light (ELA5), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX16)
				ESM2.120	120 Vac						EK02.EXP.120 - 1 Operator (ESM2.120), - 1 Flashing light (ELA5), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX16)
				ESM2.D	230 Vac				SW24.D Display		-
				ESM2.W	230 Vac				SL24.W Display ready for Wi-Fi communication with Smartphone and Tablet		EK02.W.EXP - 1 Operator (ESM2.W), - 1 Flashing light (ELA5), - 2 4-channel remote control (ETRN4), - 1 Pair of 180° orientable photocells (EFA1), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX16)

Automation systems for sliding gates

Series	Gate leaf weight (max.)	Use	Frequency of use	Operator	Power Supply	Electric motor power supply	Encoder	Limit switches	Control board	Receiver	Kit contents
ACTO 800A	**800 kg**	Tertiary and industrial	60%	**ESM4**	230 Vac	230 Vac	Optical	Electro-mechanical	**RS09** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK04** - 1 Operator (ESM4), - 1 Flashing light (ELA6), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Key selector (EDS1), - 1 Fixing plate (ZX77), - 1 Warning sign (ZX20)
				ESM4.120	120 Vac						
				ESM4.D	230 Vac				**RS10** Display		-
ACTO 810A	**800 kg**	Residential	60%	**ESM9**	230 Vac	230 Vac	Magnetic	Magnetic	**RS20** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK17.AL** - 1 Operator (ESM9), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Fixing plate (ZX76),
											EK17.EXP - 1 Operator (ESM9), - 1 Flashing light (ELA6), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX76),
ACTO 1000D	**1000 kg**	Residential and commercial	100%	**ESM2.1000.W**	230 Vac	24 Vdc	Magnetic	Magnetic	**SL24.W** Display ready for Wi-Fi communication with Smartphone and Tablet	Built-in 433 MHz Rolling code or fixed code	**EK02.1000.W.EXP** - 1 Operator (ESM2.1000.W), - 1 Flashing light (ELA5), - 2 4-channel remote control (ETRN4), - 1 Pair of 180° orientable photocells (EFA1), - 1 Warning sign (ZX20), - 1 Fixing plate (ZX16)
ACTO 1400A	**1400 kg**	Tertiary and industrial	60%	**ESM5**	230 Vac	230 Vac	Optical	Electro-mechanical	**RS09** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	-
				ESM5.120	120 Vac						-
				ESM5.D	230 Vac				**RS10** Display		-
ACTO 2200A	**2200 kg**	Tertiary and industrial	60%	**ESM6**	230 Vac	230 Vac	Optical	Electro-mechanical	**RS09** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	-
				ESM6.120	120 Vac						-
				ESM6.D	230 Vac				**RS10** Display		-

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

Download on the **App Store**   GET IT ON **Google Play**

Selection guide

Automation for swing gates

External mount

Series	Leaf lenght	Leaf weight	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
EKKO 200D	2 m	200 kg	Residential	50%	EAM1	12 Vdc	Optical	**RS03** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK05.120** - 2 Operators (EAM1), - 1 Control panel (ECA1.120), - 1 Flashing light (ELA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20)
EKKO 204D	2 m	200 kg	Residential	50%	EAM7	24 Vdc	Magnetic	**RS17.P** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK15.P** - 2 Operators (EAM7), - 1 Control panel (ECA9.P), - 1 Flashing light (ELA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20) **EK15.AL** - 2 Operators (EAM7), - 1 Control panel (ECA9.P), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3)
EKKO 300A	3 m	200 kg	Residential	50%	EAM8.L EAM8.R	230 Vac	-	**RS11** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK18.EXP** - 2 Operators (EAM8.R and EAM8.L), - 1 Control panel (ECA8), - 1 Flashing light (ELA6), - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Warning sign (ZX20) **EK18.AL** - 2 Operators (EAM8.R and EAM8.L), - 1 Control panel (ECA8), - 2-channel remote control (ETR5), - 1 Pair of photocells (EFA3)
EKKO 400A	4 m	200 kg	Residential and industrial	60%	EAM9.L EAM9.R	230 Vac	-	**RS11** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	-
EKKO 300D	3 m	300 kg	Residential	100%	EAM2	24 Vdc	Magnetic	**SW24.T** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK06.AL** - 2 Operators (EAM2), - 1 Control panel (ECA5), - 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) **EK06.EXP** - 2 Operators (EAM2), - 1 Control panel (ECA5), - 2 2-channel remote control (ETRN2), - 1 Flashing light (ELA5), - 1 Pair of photocells (EFA3) - 1 Warning sign (ZX20) **EK06.EXP.120** - 2 Operators (EAM2), - 1 Control panel (ECA5.120), - 2 2-channel remote control (ETRN2), - 1 Flashing light (ELA5), - 1 Pair of photocells (EFA3) - 1 Warning sign (ZX20)
								SW24.W Display ready for Wi-Fi communication with Smartphone and Tablet		**EK06.W.EXP** - 2 Operators (EAM2), - 1 Control panel (ECA5.W), - 2 4-channel remote control (ETRN4), - 1 Flashing light (ELA5), - 1 Pair of 180° orientable photocells (EFA1) - 1 Warning sign (ZX20)
EKKO 350A	3,5 m	400 kg	Residential and industrial	60%	EAM4	230 Vac	-	**RS11** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK08.EXP** - 2 Operators (EAM4), - 1 Control panel (ECA8), - 2 2-channel remote control (ETRN2), - 1 Flashing light (ELA6), - 1 Pair of photocells (EFA3) - 1 Warning sign (ZX20)
					EAM4.120	120 Vac				-
EKKO 500A	5 m	500 kg	Residential and industrial	60%	EAM4.L	230 Vac	-	**RS11** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK08.L** - 1 Operator (EAM4.L), - 1 Control panel (ECA8), - 1 Flashing light (ELA6), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Key selector (EDS1), - 1 Warning sign (ZX20)

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Automation for swing gates

External mount

Series	Leaf lenght	Leaf weight	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
EKKO 400D	**4 m**	**250 kg**	Residential and commercial	**100%**	EAM3	230 Vac	Magnetic	**SW24.T** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK07.AL** - 2 Operators (EAM3), - 1 Control panel (ECA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) **EK07.EXP** - 2 Operators (EAM3), - 1 Control panel (ECA5), - 1 Flashing light (ELA5) - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) - 1 Warning sign (ZX20) **EK07.EXP.120** - 2 Operators (EAM3), - 1 Control panel (ECA5.120), - 1 Flashing light (ELA5) - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) - 1 Warning sign (ZX20)
								SW24.W Trimmer and dip		**EK07.W.EXP** - 2 Operators (EAM3), - 1 Control panel (ECA5.W), - 1 Flashing light (ELA5) - 1 4-channel remote control (ETRN4), - 1 Pair of 180° orientable photocells (EFA1) - 1 Warning sign (ZX20) **EK07.S.W.EXP** - 2 Operators (EAM3), - 1 Control panel (ECA5.W), - 1 Flashing light (ELA5) - 2 4-channel remote control (ETRN4), - 1 Pair of 180° orientable photocells (EFA1) - 1 Warning sign (ZX20)
						120 Vac				**EK07.S.W.EXP.120** - 2 Operators (EAM3), - 1 Control panel (ECA5.W.120), - 1 Flashing light (ELA5) - 2 4-channel remote control (ETRN4), - 1 Pair of 180° orientable photocells (EFA1) - 1 Warning sign (ZX20)

Underground

Series	Leaf lenght	Leaf weight	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
HIDDY 200D	**2 m**	**200 kg**	Residential	**100%**	EIM1	24 Vdc	Magnetic	**SW24.T** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK10.EXP** - 2 Operators (EIM1), - 1 Control panel (ECA5) - 1 Flashing light (ELA5) - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) - 1 Key selector (EDS1) - 1 Warning sign (ZX20)
								SW24.W Display ready for Wi-Fi communication with Smartphone and Tablet		**EK10.W.EXP** - 2 Operators (EIM1), - 1 Control panel (ECA5.W) - 1 Flashing light (ELA5) - 2 4-channel remote control (ETRN4), - 1 pair of 180° orientable photocells (EFA1), - 1 Warning sign (ZX20)
HIDDY 350D	**3,5 m**	**200 kg**	Tertiary and industrial	**60%**	EIM2.24	24 Vdc	-	**SW24.W** Display ready for Wi-Fi communication with Smartphone and Tablet	Built-in 433 MHz Rolling code or fixed code	**EK11.24.W.EXP** - 2 OperatorS (EAM2.24), - 1 Control panel (ECA5.W) - 1 Flashing light (ELA5) - 2 4-channel remote control (ETRN4), - 1 pair of 180° orientable photocells (EFA1) - 1 Warning sign (ZX20)
HIDDY 350A	**3,5 m**	**400 kg**	Tertiary and industrial	**60%**	EIM2	230 Vac	-	**RS11** Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	**EK11.EXP** - 2 Operators (EIM2), - 1 Control panel (ECA8) - 1 Flashing light (ELA6) - 2 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3) - 1 Key selector (EDS1) - 1 Warning sign (ZX20)
					EIM2.120	120 Vac		**RS11.120**		-
					EIM2.180	230 Vac		**RS11**		-

Automation for swing gates

Articulated arm

Series	Leaf lenght	Leaf weight	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
EKKO ART 200D	2 m	200 kg	Residential	80%	EAM5.N	24 Vdc	Magnetic	RS12 Trimmer and dip	Built-in 433 MHz Rolling code	EK09.N - 1 MASTER operator (EAM5.N), - 1 SLAVE operator (EAM6.N), - 1 Flashing light (ELA5), - 1 2-channel remote control (ETRN2), - 1 Pair of photocells (EFA3), - 1 Key selector (EDS1), - 1 Warning sign (ZX20)
					EAM6.N			-		

Automation for garage doors and road barriers

Up-and-over door

Series	Door surface	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
KLYS 9CD	9 m²	Residential	80%	EBM1	24 Vdc	Magnetic	RS13 Trimmer and dip	Built-in 433 MHz Rolling code	EK12 - 1 Operator (EBM1), - 2-channel remote control (ETRN2)
	12 m²			EBM1+EBM2					-

Porta garage sezionali

Series	Surface door	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
KLYS 9SD	10 m²	Residential	50%	ENM1	24 Vdc	Magnetic	RS18 Trimmer and dip	Built-in 433 MHz Rolling code or fixed code	-
KLYS 12SD	12 m²	Residential	100%	ENM2			RS19 Trimmer and dip		

Barriers

Series	Useful passage	Use	Frequency of use	Operator	Electric motor power supply	Encoder	Control board	Receiver	Kit contents
FRAGMA 4A	4 m	Tertiary and industrial	100%	EBR1	230 Vac	-	RS15 Trimmer and dip	Built-in 433 MHz Rolling code	-
FRAGMA 6A	6 m			EBR2					

Selection guide

Automation for windows and doors

Rolling doors

Photo	Roller shutter weight	Use	Frequency of use	Operator	Electric motor power supply	Spring box diameter/ Shaft diameter	Reversible/ irreversible	Control panel	Receiver	Kit contents
	160 kg	Residential and industrial	**20%**	**ZP08**	230 Vac	200/220 mm/ 60/48 mm	Reversible	Dead-man	Built-in 433 MHz Rolling code or fixed code	**ERK1** - 1 Operator (ZP08), - 1 Control panel (ECP1), - 1 Key selector (EDP1)
								Automatic		
	160 kg			**ZP09**			Irreversible	Dead-man		**ERK2** - 1 Operator (ZP09), - 1 Control panel (ECP2), - 1 Flashing light (ELA6), - 1 Flashing light wall support (EL33), - 1 Key selector (EDP2) - 1 2-channel remote control (ETA1)
								Automatic		

Roller blinds, sun shades and rolling shutters

Photo	Roller shutter weight	Torque max	Use	Operator	Electric motor power supply	Motor diameter	Adapter diameter	Limit switch	Commad	Manual operation
	15 kg	6 Nm	Residential, commercial and tertiary	**EV15/35**	230 Vac	**35 mm**	Octagonal Ø 40 mm	Mechanical	Wired	-
	20 kg	10 Nm	Residential, commercial and tertiary	**EV20/45**	230 Vac	**45 mm**	Octagonal Ø 60 mm	Mechanical	Wired	-
	40 kg	20 Nm		**EV40/45**						
	80 kg	40 Nm		**EV60/45**						
	95 kg	50 Nm		**EV80/45**						
	40 kg	20 Nm	Residential, commercial and tertiary	**EV30/45**	230 Vac	**45 mm**	Octagonal Ø 60 mm	Mechanical	Wired	Yes
	80 kg	40 Nm		**EV50/45**						
	95 kg	50 Nm		**EV70/45**						
	20 kg	10 Nm	Residential, commercial and tertiary	**EV45ER/10**	230 Vac	**45 mm**	Octagonal Ø 60 mm (not included)	Electronic	Radio	-
	40 kg	20 Nm		**EV45ER/20**						
	60 kg	30 Nm		**EV45ER/30**						
	80 kg	40 Nm		**EV45ER/40**						
	95 kg	50 Nm		**EV45ER/50**						

Windows

Photo	Use	Pulling force	Pushing force	Travel	Operator	Electric motor power supply	Movement
	Bottom-hinged, top-hinged, skylights, domes	**300 N**	**300 N**	200/380 mm	**EG30/G**	230 Vac	Chain
					EG30/N		
					EG30/N24	24 Vdc	
	Top-hinged, skylights, domes	**500 N**	**500 N**	150/200/250/320 mm	**EG50**	230 Vac	Rack

Kits for sliding gates

12 V and 24 V automation

EK01
ACTO 400D kit for sliding gates up to 400 kg.
Contents:
- 1 ESM1 non-reversible 12 V electromechanical operator
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells, 1 ZX20 warning sign
- 1 ZX16 fixing plate

EK14
ACTO 404D kit for sliding gates up to 400 kg.
Contents:
- 1 ESM7 non-reversible 24 V electromechanical operator
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells, 1 ZX20 warning sign
- 1 ZX82 fixing plate

EK14.AL
ACTO 404D kit for sliding gates up to 400 kg.
Contents:
- 1 ESM7 non-reversible 24 V electromechanical operator
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX82 fixing plate

EK02.AL
ACTO 600D kit for sliding gates up to 600 kg.
Contents:
- 1 ESM2 non-reversible 24 V electromechanical operator
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX16 fixing plate

EK02.EXP
ACTO 600D kit for sliding gates up to 600 kg.
Contents:
- 1 ESM2 non-reversible 24 V electromechanical operator
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign
- 1 ZX16 fixing plate

EK02.EXP.120
As above, 120 V supply voltage

EK02.W.EXP
ACTO 600D kit for sliding gates up to 600 kg.
Contents:
- 1 ESM2.W non-reversible 24 V electromechanical opera-
  tor ready for communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote
  controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign
- 1 ZX16 fixing plate

EK02.1000.W.EXP
ACTO 1000D kit for sliding gates up to 1000 kg.
Contents:
- 1 ESM2.1000.W non-reversible 24 V electromechanical
  operator ready for communication with smartphone and
  tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign
- 1 ZX16 fixing plate

230 V automation

EK03.EXP
ACTO 500A kit for sliding gates up to 500 kg.
Contents:
- 1 ESM3 non-reversible 230 V electromechanical operator
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign
- 1 ZX76 fixing plate

EK04
ACTO 800A kit for sliding gates up to 800 kg.
Contents:
- 1 ESM4 non-reversible 230 V electromechanical operator
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 EDS1 surface mounting aluminium key selector
- 1 ZX20 warning sign
- 1 ZX77 fixing plate

EK16.AL
ACTO 510A kit for sliding gates up to 500 kg.
Contents:
- 1 ESM8 non-reversible 230 V electromechanical operator
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX76 fixing plate

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Kit

VIMAR

Kits for sliding gates

230 V automation

EK16.EXP
ACTO 510A kit for sliding gates up to 500 kg.
Contents:
- 1 ESM8 non-reversible 230 V electromechanical operator
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign
- 1 ZX76 fixing plate

EK17.AL
ACTO 810A kit for sliding gates up to 500 kg.
Contents:
- 1 ESM9 non-reversible 230 V electromechanical operator
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX76 fixing plate

EK17.EXP
ACTO 810A kit for sliding gates up to 800 kg.
Contents:
- 1 ESM9 non-reversible 230 V electromechanical operator
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign
- 1 ZX76 fixing plate

Kits for swinging gates with linear operators

12 V and 24 V automation

EK05.120
EKKO 200D kit for swing gates with leaves up to 2 m
and 200 kg.
Contents:
- 2 EAM1EKKO 200D non-reversible 12 V electromechanical
  linear operators
- 1 ECA1 12 V trimmer and dip-switch control panel
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pairof photocells
- 1 ZX20 warning sign.
Supply voltage 120 V

EK15.P
EKKO 204D kit for swing gates with leaves up to 2 m, 200 kg.
Contents:
- 2 EAM7 non-reversible 24 V electromechanical linear
  operators
- 1 ECA9.P 24 V trimmer and dip-switch control panel with
  switching power supply and integral battery chargers
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign

EK15.AL
EKKO 204D kit for swing gates with leaves up to 2 m and
200 kg.
Contents:
- 2 EAM7 non-reversible 24 V electromechanical linear ope-
  rators
- 1 ECA9.P 24 V trimmer and dip-switch control panel with
  switching power supply and integral battery chargers
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pairof photocells

EK06.AL
EKKO 300D kit for swing gates with leaves up to 3 m
and 300 kg.
Contents:
- 2 EAM2EKKO 300D non-reversible 24 V electromechanical
  linear operators
- 1 ECA5 24 V trimmer and dip-switch control panel
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells

EK06.EXP
EKKO 300D kit for swing gates with leaves up to 3 m and 300 kg.
Contents:
- 2 EAM2 non-reversible 24 V electromechanical linear operators
- 1 ECA5 24 V display control panel
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign

EK06.EXP.120
As above, with ECA5.120 for 120 Vac
power supply

EK06.W.EXP
EKKO 300D kit for swing gates with leaves up to 3 m, 300 kg.
Contents:
- 2 EAM2 non-reversible 24 V electromechanical linear
  operators
- 1 ECA5.W control panel 24 V with display ready for
  communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign

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Kits for swinging gates with linear operators

12 V and 24 V automation

EK07.AL
EKKO 400D kit for swing gates with leaves up to 4 m and 250 kg.
Contents:
- 2 EAM3 non-reversible 24 V electromechanical linear operators
- 1 ECA5 24 V trimmer and dip-switch control panel
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells

EK07.EXP
EKKO 400D kit for swing gates with leaves up to 4 m and 250 kg.
Contents:
- 2 EAM3 non-reversible 24 V electromechanical linear operators
- 1 ECA5 24 V trimmer and dip-switch control panel
- 1 ELA5 12/24 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign

EK07.EXP.120
As above, with ECA5.120 for 120 Vac power supply

EK07.W.EXP
EKKO 400D kit for swing gates with leaves up to 4 m, 250 kg.
Contents:
- 2 EAM3 non-reversible 24 V electromechanical linear operators
- 1 ECA5.W control panel 24 V with display ready for communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign

EK07.S.W.EXP
EKKO 400D kit for swing gates with leaves up to 4 m, 250 kg.
Contents:
- 2 EAM3 non-reversible 24 V electromechanical linear operator
- 1 ECA5.W control panel 24 V with display ready for communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign

EK07.S.W.EXP.120
As above, 120 Vac power supply

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Kits for swinging gate with linear operators

230 V automation

EK08.EXP
EKKO 350A kit for swing gates with leaves up to 3.5 m and 400 kg.
Contents:
- 2 EAM4 non-reversible 230 V electromechanical linear operators
- 1 ECA8 230 V trimmer and dip-switch control panel
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign

EK08.L
EKKO 500A kit for swing gates with leaves up to 5 m, 500 kg.
Contents:
- 1 EAM4.L non-reversible 230 V electromechanical linear operator
- 1 ECA8 230 V trimmer and dip-switch control panel with switching power supply and integral battery chargers
- 1 ELA6 120/230 V flashing LED with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 EDS1 surface-mount aluminium key selector
- 1 ZX20 warning sign

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Kit

Kits for swinging gate with linear operators

230 V automation

EK18.AL
EKKO 300A kit for swing gates with leaves up to 3 m and 200 kg.
Contents:
- 1 EAM8.R (right) and 1 EAM8.L (left) non-reversible 230 V elec-
  tromechanical linear operators
- 1 ECA8 230 V trimmer and dip-switch control panel
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells

EK18.EXP
EKKO 300A kit for swing gates with leaves up to 3 m and 200 kg. Contents:
- 1 EAM8.R (right) and 1 EAM8.L (left) non-reversible 230 V electromechanical linear operators
- 1 ECA8 230 V trimmer and dip-switch control panel
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 ZX20 warning sign

Kit for swinging gate with articulated arm operators

24 V automation

EK09.N
EKKO ART 200D kit for swing gates with leaves up to 2 m, 200 kg.
Contents:
- 1 EAM5.N MASTER non-reversible 24 V articulated operator
- 1 EAM6.N EKKO ART 200D SLAVE non-reversible 24 V articulated operator
- 2 EAX1.N articulated arms
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 1 ETRN2 2-channel 433 MHz rolling code remote control
- 1 EFA3 pair of photocells
- 1 EDS1 surface-mount aluminium key selector
- 1 ZX20 warning sign

Kits for swinging gate with underground operators

24 V automation

EK10.EXP
HIDDY 200D kit for swing gates with leaves up to 2 m and 200 kg.
Contents:
- 2 EIM1HIDDY 200D non-reversible 24 V electromechanical
  underground operators
- 1 ECA5 24 V trimmer and dip-switch control panel
- 1 ELA5 12/24 V V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 EDS1 surface mounting aluminium key selector
- 1 ZX20 warning sign

EK10.W.EXP
HIDDY 200D kit for swing gate leaves up to 2 m, 200 kg.
Contents:
- 2 EIM1 HIDDY 200D non-reversible 24 V electromechanical
  linear operators for underground installation
- 1 ECA5.W 24 V control panel with display ready for
  communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign

EK11.24.W.EXP
HIDDY 350D kit for swing gate leaves up to 3.5 m, 200 kg.
Contents:
- 2 EIM2.24 non-reversible 24 V electromechanical linear
  operators for underground installation
- 1 ECA5.W 24 V control panel with display ready for
  communication with smartphone and tablet
- 1 ELA5 12/24 V flashing LED with built-in aerial
- 2 ETRN4 4-channel 433 MHz rolling code remote controls
- 1 EFA1 pair of 180° orientable photocells
- 1 ZX20 warning sign

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Kit

Kits for swinging gate with underground operators

230 V automation

EK11.EXP
HIDDY 350A kit for swing gates with leaves up to 3.5 m and 400 kg.
Contents:
- 2 EIM2 non-reversible 230 V electromechanical underground
   operators
- 1 ECA8 24 V trimmer and dip-switch control panel
- 1 ELA6 120/230 V LED flashing light with built-in aerial
- 2 ETRN2 2-channel 433 MHz rolling code remote controls
- 1 EFA3 pair of photocells
- 1 EDS1 surface mounting aluminium key selector
- 1 ZX20 warning sign

Kits for up-and-over garage doors

24 V automation

EK12
KLYS 9CD kit for up-and-over doors up to 9 m^2.
Contents:
- 1 EBM1 MASTER non-reversible 24 V electromechanical
   operator
- 1 ETRN2 2-channel 433 MHz rolling code remote control

Kits for rolling doors

230 V automation

ERK1
Kit for rolling doors up to 160 kg, with reversible gear motor.
Contents:
- 1 ZP08 reversible gear motor, 230 V~
- 1 ECP1 manned control panel, 230 V~
- 1 EDP1 external key selector

ERK2
Kit for rolling doors up to 160 kg, with irreversible gear motor.
Contents:
- 1 ZP09 230 V~ irreversible gear motor,
- 1 ECP2 230 V~ automatic control panel
- 1 ELA6 120/230 V LED flashing light, with built-in antenna
- 1 EL33 wall-mount flashing light support
- 1 EDP2 aluminium wall-mount key switch with manual release
- 1 ETRN2 2-channel 433 MHz fixed code remote control

Automation for sliding gates

VIMAR

ACTO series - Automation systems for sliding gates

12 V and 24 V

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 V power supply

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

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.D
As above, with RS06 display electronic control card

ESM2.120
As above, 120 V power supply

VIEW
IoT smart life

ESM2.W
ACTO 600D non-reversible 24 Vdc electromechanical operator for sliding gates up to 600 kg, electronic control card, 433 MHz radio receiver, magnetic encoder, magnetic limit switches, fixing plate. Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

ESM2.1000.W
As above, ACTO 1000D non-reversible 24 Vdc electromechanical operator for sliding gates up to 1000 kg, for condominium and tertiary use

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

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230 V

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 V power supply
ESM3.D
As ESM3, with display electronic control card

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 V power supply
ESM4.D
As ESM4, with display electronic control card

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 V power supply
ESM5.D
As ESM5, with display electronic control card

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 V power supply
ESM6.D
As ESM6, with display electronic control card

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

ESM9
ACTO 810A - Non-reversible 230 V~ electromechanical operator for sliding gates up to 800 kg, tertiary and industrial use, electronic control card, 433 MHz radio receiver, magnetic limit switches, magnetic encoder and fixing plate

Automation for sliding gates

ACTO series - Automation systems for sliding gates

Operators technical data

	ESM1, ESM1.120*	ESM7	ESM3, ESM3.120*, ESM3.D	ESM8	ESM2, ESM2.120*, ESM2.D, ESM2.W	ESM4, ESM4.120*, ESM4.D	ESM9	ESM2.1000.W	ESM5, ESM5.120*, ESM5.D	ESM6, ESM6.120*, ESM6.D
Gear leaf weight (kg)	400	400	500	500	600	800	800	1000	1400	2200
Power supply (Vac)	230	230	230 *120	230	230 *120	230 *120	230	230	230 *120	230 *120
Motor voltage (V)	12	24	230	230	24	230	230	24	230	230
Power (W)	120	120	230	200	140	290	520	160	260	250
Absotption (A @230 Vac)	0,6	0,6	1,2	1	0,7	1,4	2,6	0,8	1,2	1,1
Speed (m/min)	10	10	10	11	10	10	11	9	10	10
Encoder	Magnetic	Magnetic	-	Magnetic	Magnetic	Optical	Magnetic	Magnetic	Optical	Optical
Limit switch	Stop on mechanical stops	Magnetic	Electro-mechanical	Magnetic	Magnetic	Electro-mechanical	Magnetic	Magnetic	Electro-mechanical	Electro-mechanical
Protection rating	IP44	IP44	IP54	IP44	IP44	IP44	IP44	IP44	IP44	IP44
Operating temperature (Min./Max. °C)	-20 ÷ +55	-20 ÷ +55	-10 ÷ +55	-20 ÷ +55	-20 ÷ +55	-10 ÷ +55	-20 ÷ +50	-20 ÷ +55	-10 ÷ +55	-10 ÷ +55
Dimensions (mm)	308x288x270	295x185x270	274x245x267	150x324x265	308x288x270	303x296x320	150x324x265	308x288x270	303x296x320	303x296x320
Weight (kg)	10,8	6	8	11	10,8	9,5	11,4	10,8	12,3	14
Frequency of use (%)	50	50	60	50	100	60	60	100	60	60
Maximum gate length (m)	-	6	-	-	-	-	-	-	-	-
Fixing plate (built-in)	ZX16	ZX82	ZX76	ZX84	ZX16	ZX77	ZX84	ZX16	ZX77	ZX77
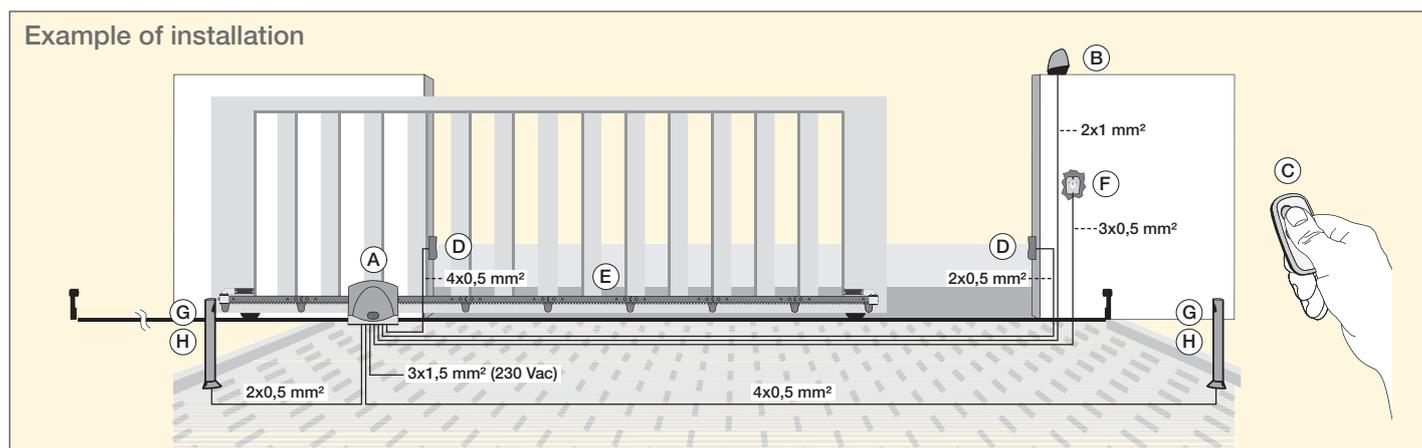
Example of installation

Components for creating a complete system

Main Components				Accessories (optional)	
Description	Ref.	Description	Ref.	Description	Ref.
Operator	A	Wall-mount photocells	D	Key switch	F
Flashing light	B	Rack	E	Post-mounted photocells	G
Remote control	C			Posts	H

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for sliding gates

VIMAR

ACTO series - Automation systems for sliding gates

Control boards

SL24.W
With display for 24 V sliding gate operators, with built-in 433 MHz radio receiver.
Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

EMC.W
Wi-Fi connection module for control boards SL24.W, SW24.W.
Allows communication via Wi-Fi between control panels and smartphone/tablet

EMX.W
Expansion module for Wi-Fi control boards. Used to make connections for opposing gate leaf

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

SL24.T
With dip-switch/trimmer for 24 V sliding gate operators, with built-in 433 MHz radio receiver

▲ **SL24.D**
With display for 24 V sliding gate operators, with built-in 433 MHz radio receiver

RS01
With dip-switch/trimmer for 12 V sliding gate operators, with built-in 433 MHz radio receiver

▲ **RS16.P**
With trimmer and dip-switch for 24 V ACTO 404D sliding gate operators, with built-in 433 MHz radio receiver, battery charger and 100-240 V 50/60 Hz power supply
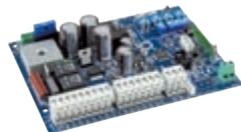
RS05
With dip-switch/trimmer for 24 V ACTO sliding gate operators, with built-in 433 MHz radio receiver

RS09
With dip-switch/trimmer for 230 V~ ACTO sliding gate operators, with built-in 433 MHz radio receiver

RS09.120
As above, 120 V~ power supply

RS10
With display for 230 V~ ACTO sliding gate operators, with built-in 433 MHz radio receiver

RS20
Dip switch and trimmer for 230 Vac ACTO 510A and 810A sliding gate operators, with built-in 433 MHz radio receiver

ESAC
Card for connection of 2 sliding gate or road barrier operators in opposing leaf mode. Power supply 12/24 Vac

Automation for sliding gates

VIMAR

ACTO series - Automation systems for sliding gates

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

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)

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

EKKO series - Automation systems for swinging gates with linear operators

24 V automation

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

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

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

120 V automation

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

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for swing gates

VIMAR

EKKO series - Automation systems for swinging gates with linear operators

230 V automation

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.L
EKKO 500A 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

EAM8.L
EKKO 300A - Left-hand non-reversible 230 V electromechanical linear operator for swing gates up to 3 m and 200 kg, complete with adjustable fixing brackets

EAM8.R
EKKO 300A - Right-hand non-reversible 230 V electromechanical linear operator for swing gates up to 3 m and 200 kg, complete with adjustable fixing brackets

EAM9.L
EKKO 400A - Left-hand non-reversible 230 V electromechanical linear operator for swing gates up to 4 m and 200 kg, complete with adjustable fixing brackets

EAM9.R
EKKO 400A - Right-hand non-reversible 230 V electromechanical linear operator for swing gates up to 4 m and 200 kg, complete with adjustable fixing brackets

Control panels

ECA5.W
With display for 24 V swing gate operators, with built-in 433 MHz radio receiver. Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

ECA5
Dip switch/trimmer for 24 V EKKO/HIDDY swing gate operators, with built-in 433 MHz radio receiver

ECA5.120
As above, 120 V power supply

ECA8
Dip switch/trimmer for 230 V EKKO/HIDDY swing gate operators, with built-in 433 MHz radio receiver

ECA8.120
As above, 120 V power supply

ECA9.P
With switching power supply for 24 V EKKO 204D swing gate operators. Complete with housing, control board with trimmers and dip-switches, battery charger and 433 MHz fixed- and rolling-code radio receiver.

**By-gate** and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

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Automation for swing gates

EKKO series - Automation for swing gates with linear booms

Operators technical data

	EAM7	EAM2	EAM8.L EAM8.R	EAM4 EAM4.120*	EAM3	EAM9.L EAM9.R	EAM4.L
Leaf length (m)	2	3	3	3,5	4	4	5
Leaf weight (kg)	200	300	200	400	250	200	500
Motor voltage supply (V)	24	24	230	230 *120	24	230	230
Power (W)	80	120	240	290	120	240	290
Absotption (A)	3,5	5	1,1	1,2	5	1,1	1,2
Opening (°)	110	110	110	110	110	110	110
Opening time (s)	10 ÷ 18	10 ÷ 22	15 ÷ 20	14 ÷ 27	15 ÷ 25	15 ÷ 22	29 ÷ 38
Encoder	Magnetic	Magnetic	-		Magnetic	-	-
Stops	Mechanincal built-in	-	-	Built-in mechanical opening	-	-	Built-in mechanical opening
Protection rating	IP44	IP44	IP54	IP44	IP44	IP54	IP44
Operating temperature (Min./Max. °C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-10 ÷ +55	-20 ÷ +55	-20 ÷ +55	-10 ÷ +55
Dimensions (mm)	715x106x89	785x110x105	609x102x198	815x117x159	925x110x105	709x102x198	815x117x159
Weight (kg)	4,2	9,2	5,7	10	10,2	6	14
Frequency of use (%)	50	100	50	60	100	60	60
Userful travel (mm)	300	280	300	345	430	400	475

Limitations of use

	EAM7	EAM2	EAM8.L EAM8.R	EAM4	EAM3	EAM9.L EAM9.R	EAM4.L
Gate leaf lenght	Max. leaf weight	Max. leaf weight	Max. leaf weight	Max. leaf weight	Max. leaf weight	Max. leaf weight	Max. leaf weight
1,2 m	300 kg	800 kg	200 kg	1000 kg	850 kg	200 kg	1200 kg
1,5 m	260 kg	800 kg	200 kg	1000 kg	850 kg	200 kg	1200 kg
2 m	200 kg	550 kg	200 kg	750 kg	650 kg	200 kg	950 kg
2,5 m	-	400 kg	200 kg	570 kg	550 kg	200 kg	800 kg
3 m	-	300 kg	200 kg	450 kg	400 kg	200 kg	700 kg
3,5 m	-	-	-	400 kg	300 kg	200 kg	650 kg
4 m	-	-	-	-	250 kg	200 kg	600 kg
5 m	-	-	-	-	-	-	500 kg
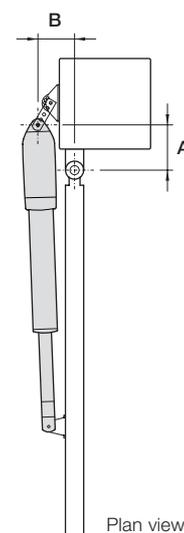
Optimum installation dimensions

	EAM7		EAM2		EAM8.L EAM8.R		EAM4		EAM3		EAM9.L EAM9.R		EAM4.L	
Opening angle	Dist. A	Dist. B	Dist. A	Dist. B	Dist. A	Dist. B	Dist. A	Dist. B	Dist. A	Dist. B	Dist. A	Dist. B	Dist. A	Dist. B
90°	140 mm	140 mm	140 mm	137 mm	150 mm	150 mm	140 mm	170 mm	220 mm	210 mm	200 mm	200 mm	190 mm	190 mm
90°	130 mm	150 mm	135 mm	140 mm	130 mm	170 mm	140 mm	200 mm	230 mm	200 mm	150 mm	200 mm	210 mm	214 mm
110°	130 mm	130 mm	125 mm	123 mm	120 mm	120 mm	130 mm	100 mm	190 mm	170 mm	150 mm	150 mm	150 mm	160 mm
110°	130 mm	110 mm	135 mm	113 mm	100 mm	100 mm	140 mm	110 mm	200 mm	160 mm	120 mm	120 mm	230 mm	190 mm
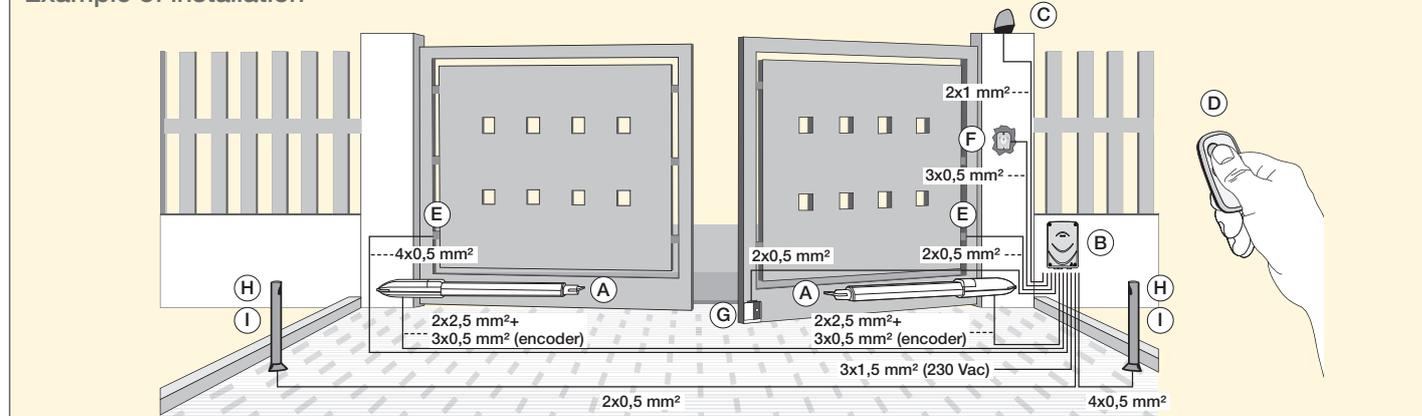
Plan view

Example of installation

Components for creating a complete system

Main Components			Accessories (optional)	
Description	**Ref.**		**Description**	**Ref.**
Operator	A	Remote control	D	Electric lock + cylinder	G
Control panel	B	Wall-mount photocells	E	Post-mounted photocells	H
Flashing light	C	Key switch	F	Posts	I

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Automation for swing gates

VIMAR

EKKO series - Automation for swinging gates with linear operators

Control boards

VIEW IoT smart life

VIEW IoT smart life

SW24.W
With display for 24 V swing gate operators, with built-in 433 MHz radio receiver. Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

Download on the App Store · GET IT ON Google Play

EMC.W
Wi-Fi connection module for control boards SL24.W, SW24.W. Allows communication via Wi-Fi between control panels and smartphone/tablet

EMX.W
Expansion module for Wi-Fi control boards. Used to make connections for opposing gate leaf

SW24.T
With dip-switch/trimmer 24 V for swing gate operators, with built-in 433 MHz radio receiver

▲ **SW24.D**
With display 24 V for swing gate operators, with built-in 433 MHz radio receiver

RS07
With dip-switch/trimmer for 24 V EKKO/HIDDY swing gate operators, with built-in 433 MHz radio receiver

RS17.P
With dip-switch/trimmer for 24 V EKKO 204D swing gate operators, with built-in 433 MHz radio receiver

SW230.T
With dip-switch/trimmer for 230 V swing gate operators, with built-in 433 MHz radio receiver

RS11
With dip-switch/trimmer for 230 V~ EKKO/HIDDY swing gate operators, with built-in 433 MHz radio receiver

RS11.120
As above, for 120 Vac operators

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

Mechanical stops

EAX3
Integrated mechanical closing stop for EKKO 350A linear actuators

EAX4
Integrated mechanical closing stop for EKKO 204D linear operators

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

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)

Cables

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

Automation for swing gates

VIMAR

EKKO ART series - Automation for swinging gates with articulated arm operators

24 V

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
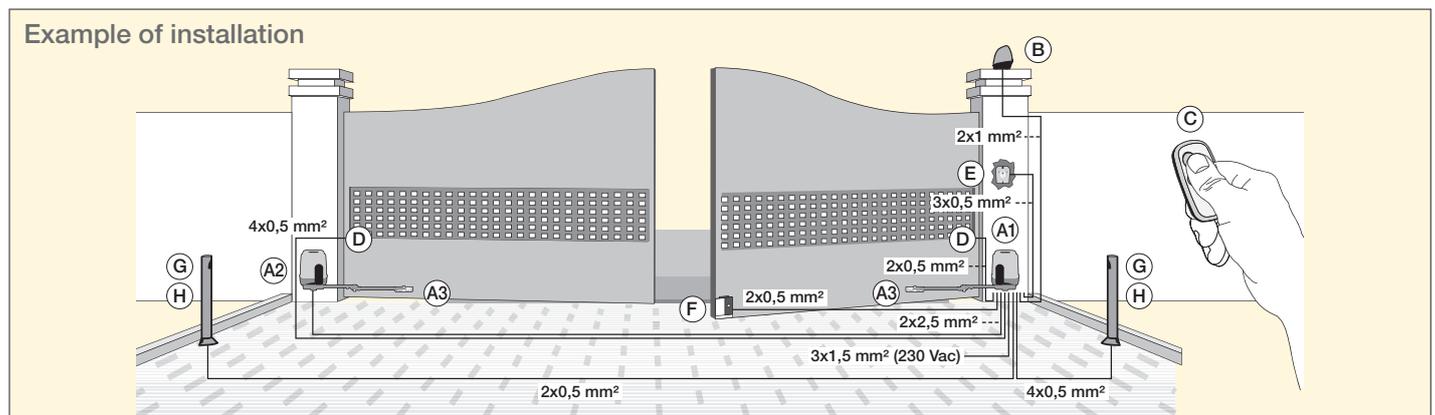
Operators technical data

	EAM5.N, EAM6.N
Leaf lenght (m)	2
Leaf weight (kg)	200
Power supply (Vac)	230
Motor voltage supply (Vdc)	24
Power (W)	72
Opening (°)	105
Opening time (s)	15 ÷ 20

	EAM5.N, EAM6.N
Stops	Mechanical built-in
Protection rating	IP44
Operating temperature (Min./Max. °C)	-30 ÷ +55
Dimensions (mm)	190x280x275
Weight (kg)	7,5 (EAM5.N), 7 (EAM6.N)
Frequency of use (%)	80

Optimum installation dimensions

Opening angle	Dist. A	Dist. X	Dist. B	Dist. I
Short arm (EAX1)				
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
Long arm (EAX2)				
90°	0 ÷ 500 mm	70 mm	140 mm	330 mm
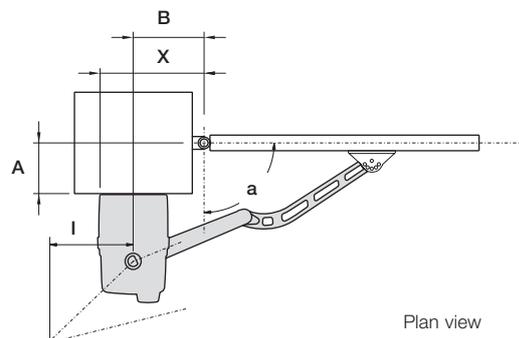
Plan view

Example of installation

2x1 mm²
3x0,5 mm²
4x0,5 mm²
2x0,5 mm²
2x0,5 mm²
2x2,5 mm²
3x1,5 mm² (230 Vac)
2x0,5 mm²
4x0,5 mm²

Components for creating a complete system

Main Components				Accessories (optional)	
Description	**Ref.**	**Description**	**Ref.**	**Description**	**Ref.**
MASTER operator	A1	Remote control	C	Electric lock + cylinder	F
SLAVE operator	A2	Wall-mount photocells	D	Post-mounted photocells	G
Booms	A3	Key switch	E	Posts	H
Flashing light	B				

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Automation for swing gates

VIMAR

EKKO ART series - Automation for swinging gates with articulated arm operators

Control board, batteries and battery chargers

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

ZBA5
12 V 2.2 Ah spare Pb rechargeable battery

ECB4
24 V lead battery charger for EKKO ART 200D MASTER articulated operator

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

Arms

EAX1.N
Articulated arm for EAM5.N and EAM6.N articulated operators on gate leaves with hinges up to 240 mm from the inner side of the post

EAX2.N
Long articulated arm for EAM5.N and EAM6.N articulated operators on gate leaves with hinges up to 500 mm from the inner side of the post

Control

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

Automation for swing gates

VIMAR

HIDDY series - Automation for swinging gates with underground operators

24 V automation

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

EIM2.24
HIDDY 350D non-reversible 24 V electromechanical operator for underground installation for gate leaves up to 3.5 m and 200 kg, for tertiary and industrial use. Complete with 6 m of cable.

230 V automation

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 V power 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

Control panels

ECA5.W
Control panel with display and built-in 433 MHz radio receiver for 24 V automatic swing gate operators. Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

ECA5
Dip switch/trimmer control panel with built-in 433 MHz radio receiver for 24 V EKKO/HIDDY swing gate operators

ECA5.120
As above, 120 V power supply

ECA8
Dip switch/trimmer control panel with built-in 433 MHz radio receiver for 230 V EKKO/HIDDY swing gate operators

ECA8.120
As above, 120 V power supply

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

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Automation for swing gates

HIDDY series - Underground automation system for swing gates

Operators technical data

	EIM1	EIM2.24	EIM2 EIM2.120	EIM2.180
Leaf lenght (m)	2	3,5	3,5	3,5
Leaf weight (kg)	200	200	400	400
Motor voltage supply (Vdc)	24	24	230 120*	230
Power (W)	144	240	300	300
Absotption (A)	6	10	1,5	1,5
Opening (°)	180	110	110	180
Opening time (s)	12 ÷ 22	20	20	30
Encoder	Magnetic	Virtual	-	-
Stops	Mechanical built-in in opening	Mechanincal built-in	Mechanincal built-in	Mechanincal built-in
Protection rating	IP67	IP67	IP67	IP67
Operating temperature (°C Min/Max)	-20 ÷ +55	-10 ÷ +55	-10 ÷ +55	-10 ÷ +55
Dimensions (mm)	365x147x97	327x385x163	327x385x163	327x385x163
Weight (casing included) (kg)	16	21	21	28
Frequency of use (%)	100	60	60	60

Limitations of use

	EIM1	EAM2.24	EIM2	EAM2.180
Gate leaf lenght	Max. leaf weight	Max. leaf weight	Max. leaf weight	Max. leaf weight
1 m	250 kg	400 kg	800 kg	800 kg
1,5 m	230 kg	400 kg	800 kg	800 kg
2 m	200 kg	400 kg	800 kg	800 kg
3,5 m	-	200 kg	400 kg	400 kg
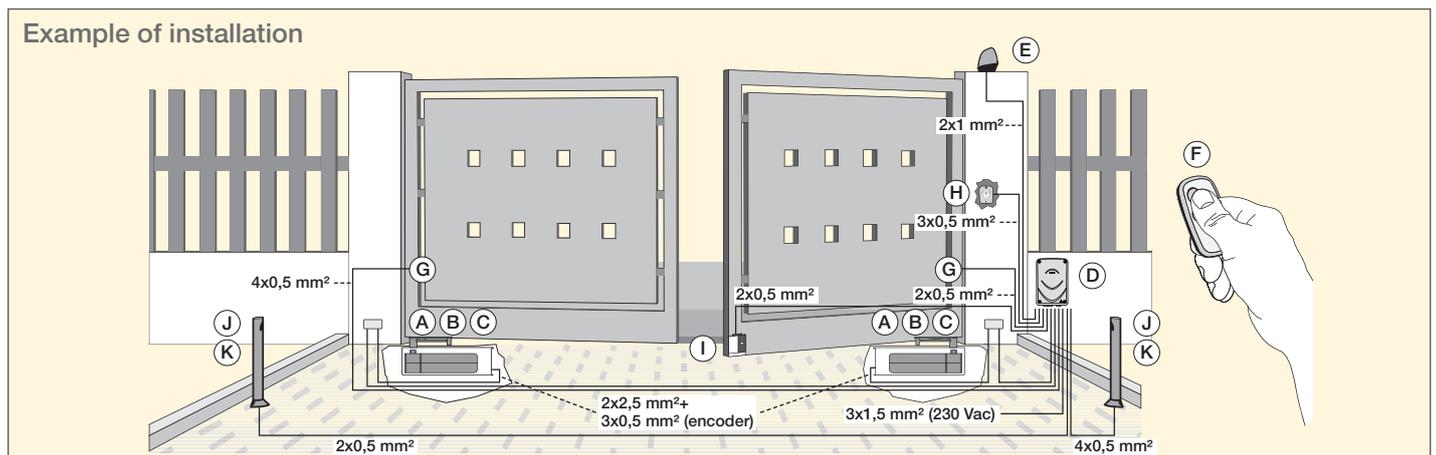
Example of installation

Components for creating a complete system

Main Components			Accessories (optional)		
Descrizione	Ref.	Description	Ref.	Description	Ref.
Operator	A	Flashing light	E	Electric lock + cylinder	I
Foundation box	B	Remote control	F	Post-mounted photocells	J
Release	C	Wall-mount photocells	G	Posts	K
Control panel	D	Key switch	H		

HIDDY series - Automation for swinging gates with underground operators

Control boards

VIEW
IoT smart life

VIEW
IoT smart life
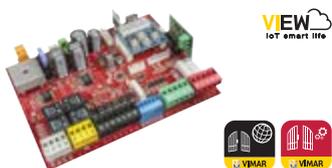
SW24.W
Control board with display and built-in 433 MHz radio receiver for 24 V swing gate operators. Ready for Wi-Fi communication via smartphone and tablet using the EMC.W communication module

EMC.W
Wi-Fi connection module for control panels SL24.W, SW24.W.
Allows communication via Wi-Fi between control panels and smartphone/tablet

EMX.W
Expansion module for Wi-Fi control panels. Used to make connections for opposing gate leaf

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SW24.T
Control board with dip switch for 24 V swing gate operators

▲ **SW24.D**
Electronic control board with display for 24 V swing gate operators, with built-in 433 MHz radio receiver

RS07
Control board with dip switch/trimmer for 24 V EKKO and HIDDY swing gate operators, with built-in 433 MHz radio receiver

SW230.T
Control board with dip switch/trimmer for 230 V swing gate operators, with built-in 433 MHz radio receiver

RS11
Control board with dip switch/trimmer for 230 V~ EKKO and HIDDY swing gate operators, with built-in 433 MHz radio receiver

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

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for swing gates

VIMAR

HIDDY series - Automation for swinging gates with underground operators

Batteries

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

Foundation boxes and release mechanisms

ZX41
Self-supporting foundation box in zinc-plated steel for HIDDY 200D underground operator

EIC2/L
2 x ZX41 foundation boxes for 2 HIDDY 200D operators, complete with EDI1 manual release levers

EIC5
Self-supporting foundation box with cataphoresis treatment and galvanised, painted cover for HIDDY 350A underground operator

EIC5.I
Self-supporting foundation box in stainless steel with galvanised and painted cover for EIM2 and EIM2.24 underground operators

EDI1
Lever-operated release for HIDDY 200D

ZX52
EDI1 release operating lever

EIS5.L
Lever-operated manual release mechanism for HIDDY 350A

ZX53
EIS5.L release operating lever

EIX1
Adapter lever HIDDY 350A

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

Automation for garage doors

KLYS series - Automation systems for up-and-over garage doors

24 V automation

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.
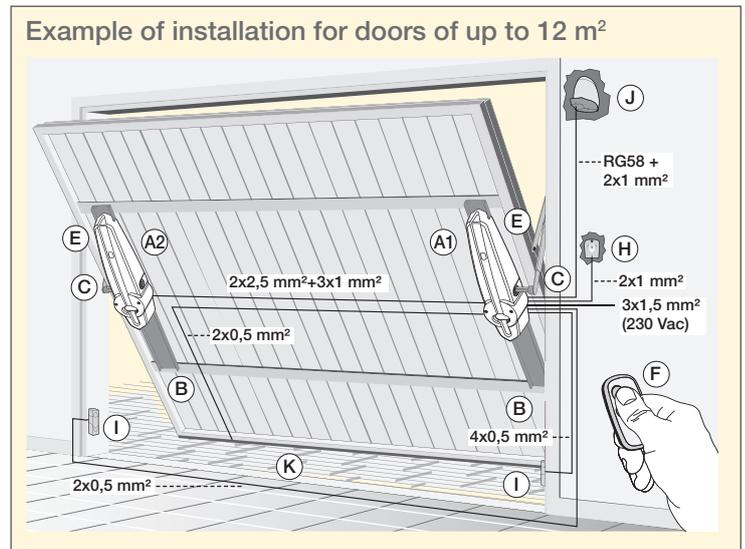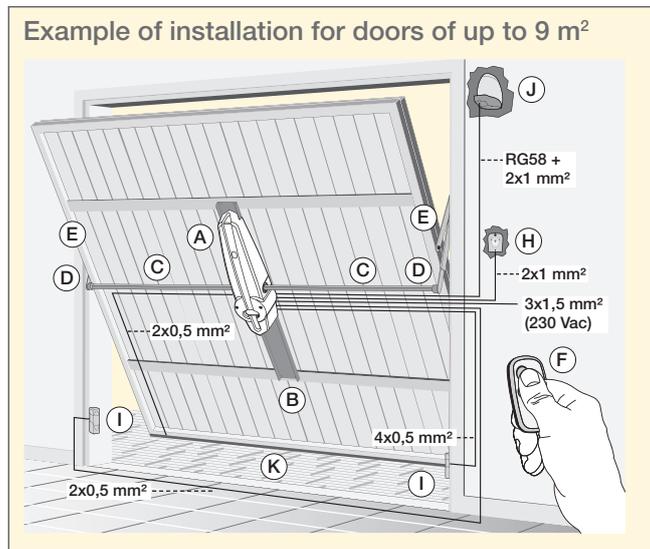
EBM2
Non-reversible 24 V SLAVE electromechanical operator for up-and-over doors up to 12 m² in conjunction with the KLYS 9CD MASTER operator.

Operators technical data

	EBM1, EBM2
Door surface area (m²)	9 (EBM1), 12 (EBM1+EBM2)
Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	55
Absorption (A)	0,6 (Master EBM1 only) 1,1 (Master EBM1+ Slave EBM2)
Opening time (s)	15 ÷ 23

	EBM1, 2
Encoder	Magnetic
Protection rating	IP44
Operating temperature (°C Min/Max)	-10 ÷ +55
Dimensions (mm)	182x147x703
Weight (kg)	9,5 (EBM1), 9 (EBM2)
Frequency of use (%)	80

Example of installation for doors of up to 9 m²

Example of installation for doors of up to 12 m²

Components for creating a complete system for up-and-over doors of up to 9 m²

Main components		Accessories (optional)	
Description	Ref.	Description	Ref.
MASTER operator	A	Key switch	H
Strut 1,95 m	B	Wall-mount photocells	I
Transmission pipe 1 motor	C	Flashing light with wall support	J
Pair of side supports for the transmission pipe	D	NC sensitive edge	K
Pair of straight* or curved** telescopic arms	E		
Remote control	F		

* 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.
** 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.

Components for creating a complete system for up-and-over doors of up to 12 m²

Main components		Accessories (optional)	
Description	Ref.	Description	Ref.
MASTER operator	A1	Key switch	H
SLAVE operator	A2	Wall-mount photocells	I
Strut 1,95 m	B	Flashing light with wall support	J
Transmission pipes and supports 2 motors	C	NC sensitive edge	K
Pair of straight* or curved** telescopic arms	E		
Remote control	F		

* 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.
** 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.

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for garage doors

VIMAR

KLYS series - Automation systems for up-and-over garage doors

Control boards, batteries and battery chargers
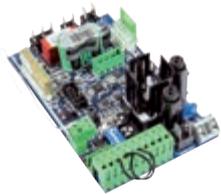
RS13
Control board with dip switch/trimmer for
24 V KLYS 9CD MASTER up-and-over
gate operators, with built-in 433 MHz radio
receiver

EBB1
24 V back-up battery box for KLYS 9CD
MASTER up-and-over operator

ECB3
24 V lead battery charger for control panels
for KLYS 9CD MASTER operators

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

Mechanical accessories for up-and-over garage 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 installa-
tion 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 installa-
tion 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 m

EBX8
As above, 2 m

EBXK
Mechanical accessories kit pour KLYS 9CD
MASTER, contains:
- 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

Automation for sectional garage doors

VIMAR

KLYS series - Automation systems for sectional garage doors

24 V automation

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

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

Operators technical data

	ENM1, ENM2
Door surface area (m²)	9 (ENM1), 12 (ENM2)
Power supply (Vac)	230
Motor power supply (Vdc)	24
Power (W)	230 (ENM1), 350 (ENM2)
Absorption (A)	9 (ENM1), 14 (ENM2)
Thrust force (N)	700 (ENM1), 1000 (ENM2)
Opening time (s)	15 ÷ 20

	ENM1, ENM2
Encoder	Magnetic
Protection rating	IP10
Operating temperature (°C Min/Max)	-20 ÷ +50
Dimensions (mm)	190x200x119
Weight (kg)	1,6 (ENM1), 1,85 (ENM2)
Frequency of use (%)	50 (ENM1), 100 (ENM2)

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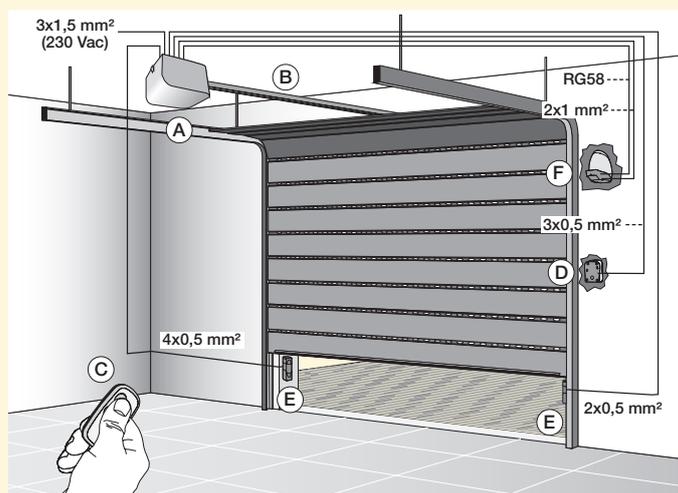
Components for creating a complete system for sectional doors up to 12 m²

Main components		Accessories (optional)	
Description	Ref.	Description	Ref.
Operator	A	Remote control	C
Track for doors with maximum height 2,5 m or 3,5 m	B	Key switch	D
		Wall-mount photocells	E
		Flashing light	F

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for sectional garage doors

KLYS series - Automation systems for sectional garage doors

Control boards and batteries

RS18
Control board with dip-switch/trimmer for 24 V KLYS 9SD sectional door operators, with buil-in 433 MHz radio receiver and battery charger, power supply 100-240 V 50/60 Hz

RS19
Control board with dip-switch/trimmer for 24 V KLYS 12SD sectional door operators, with built-in 433 MHz radio receiver and battery charger, power supply 100-240 V 50/60 Hz

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

Manual release

EBS4
External manual key release for ENM1 and ENM2

Tracks and accessories

ENX1
Belt track for ENM1 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 ENM2 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 ENM1 and ENM2 on up-and-over doors

FRAGMA series - Automation systems for road barriers

230 V automation

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

Operators technical data

	EBR1, EBR2
Useful passage (m)	3 o 4 (EBR1), 5 o 6 (EBR2)
Power supply (Vac)	230
Power (W)	240
Absorption (A)	1
Opening time (s)	3 (EBR1), 6 (EBR2)

	EBR1, EBR2
Limit switch	Electromechanical
Protection rating	IP54
Operating temperature (°C Min/Max)	-10 ÷ +55
Weight (kg)	62
Frequency of use (%)	100

Example of installation

2x0,5 mm²
3x0,5 mm²
3x1,5 mm² (230 Vac)
4x0,5 mm²
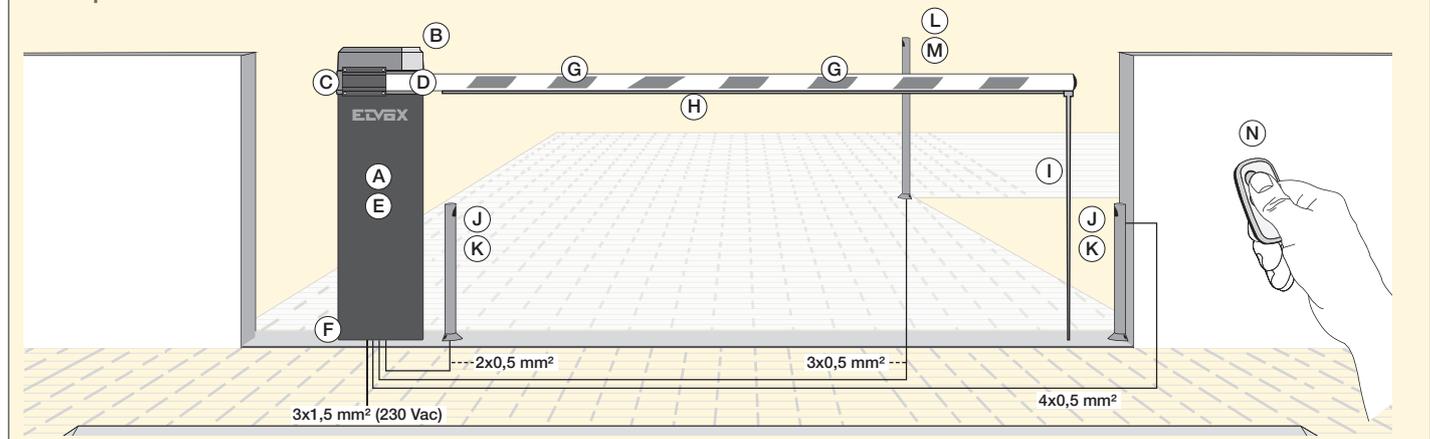
Components for creating a complete system with EBR1 or EBR2

Main components		Accessories (optional)			
Description	Ref.	Description	Ref.	Description	Ref.
Operator	A	Fixing plate	F	Post for photocells	K
Flashing light *	B	Reflective stickers for arms	G	Selector	L
Boom/LED boom and hub	C	Rubber profile for arm	H	Post for selector	M
	D	Arm support	I	Remote control	N
Springs	E	Post-mounted photocells	J		

* Included in the operator

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for road barriers

FRAGMA series - Automation for road barriers

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 + EBRS.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 + EBRS.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 + 2xEBRS.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 + 2xEBRS.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+EBRS.2+EBRS.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+EBRS.2+EBRS.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 + EBRS.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 + EBRS.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 + 2xEBRS.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 + 2xEBRS.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+EBRS.2+EBRS.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+EBRS.2+EBRS.3 + EBRP.M	3 springs Ø 5,5	3xEBRM.5.5

Fixing plates

EBRB
Fixing plate for EBR1 and EBR2

Control boards

RS15
Control board with dip switch/trimmer for 230 V~ FRAGMA 4A or FRAGMA 6A barriers, with built-in 433 MHz radio receiver for

ESAC
Card for connection of 2 sliding gate or road barrier operators in opposing leaf mode. Power supply 12/24 Vac

Automation for road barriers

FRAGMA series - Automation systems for road barriers

Booms

ZBNA/3T
Aluminium boom, leght 3 m, ø 60 mm
with reflective stickers, for FRAGMA 3D
barrier

EBRA.380
Aluminium boom, leght 3 m, ø 80 mm
for FRAGMA 4A barrier

EBRA.480
As above, lenght 4 m

EBRA.580
Aluminium boom, leght 5 m, ø 80 mm
for FRAGMA 6A barrier

EBRA.680
As above, lenght 6 m

EBRA.3L
LED boom, 3 m, for FRAGMA 4A barrier

EBRA.4L
As above, lenght 4 m

EBRA.5L
LED boom, 5 m, for FRAGMA 6A barrier

Accessories for booms

EBRG.3
Rubber edge for EBR1 and EBR2
barriers booms, lenght 3 m

EBRG.4
As above, lenght 4 m

EBRG.5
Rubber edge for EBR2 barriers
booms, lenght 5 m

EZF.C
Safety edge for EBR barriers

ZBNE
Six reflective stickers for arms

EBRL.T
FRAGMA 4A/6A barriers LED tube

EBRL.S
LED power supply control board for
FRAGMA 4A/6A barriers

EBRS.2
Hedge for EBR1 and EBR2 barriers for
2 m passage (effective leght 1,6 m)

EBRS.3
As above, for 3 m passage (effective
leght 2,5 m)

ZBNS
Painted aluminium skirt for ZBNA/3T
skirt for FRAGMA 3D, 2 m

EBRM.80
Hub for FRAGMA 4A/6A barrier
arms, Ø 80 mm

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

EBRP
Fixed support for FRAGMA 4A/6A
barrier arms

EBRP.M
Telescopic mobile support for
FRAGMA 4A/6A barrier arms

Springs

EBRM.4
Spring ø 4 mm for EBRA.380/480 arms

EBRM.4.5
Spring ø 4,5 mm for EBRA.380/480/580 arms

EBRM.5
Spring ø 5 mm for EBRA.580/680 arms

EBRM.5.5
Spring ø 5,5 mm for EBRA.580/680 arms

ZBNM
Balancing spring for FRAGMA 3D barrier
arm with ZBNS skirt

Automation for windows and doors

Automation systems for rolling doors

230 V automation

ZP08
Reversible 230 V~ gear motor for rolling doors with 60 mm diameter shaft and 200 mm diameter spring box, lifting capacity 160 kg, residential and industrial use, facility for ZXP1 electromechanical brake, pair of adaptors for 48 mm diameter shaft and 220 mm diameter spring box, 4 m of 4x1 mm² cable

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, electromechanical brake, pair of adaptors for 48 mm diameter shaft and 220 mm diameter spring box, 4 m of 4x1 mm² cable

Operators technical data

	ZP08, ZP09
Rolling door weight (kg)	160
Power supply (Vac)	230
Power (W)	630
Absorption (A)	2,2
Torque (Nm)	145
Rolling door shaft (mm)	ø 48/60

	ZP08, ZP09
Crown (mm)	ø 200/220
Thermal protection (min)	4
Operating temperature (°C Min/Max)	-20 ÷ +55
Weight (kg)	9
Frequency of use (%)	20

Example of installation

2x1 mm²
2x2,5 mm²
3x0,5 mm²
3x1,5 mm²
(230 Vac)
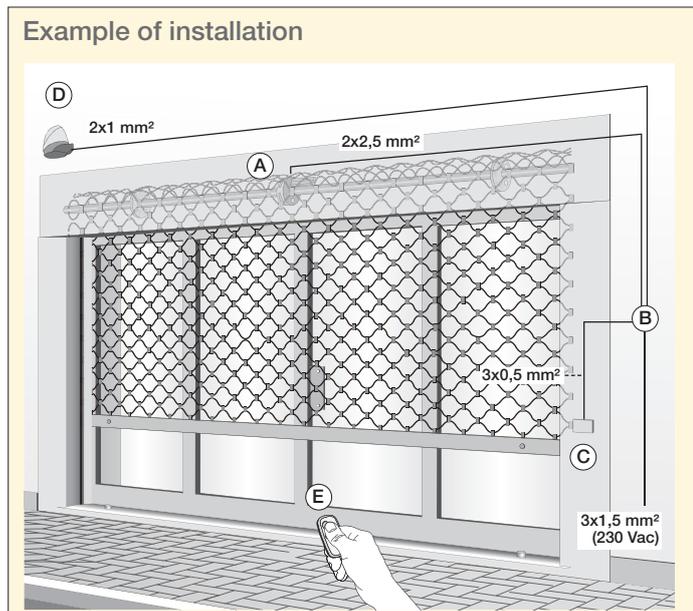
Components for creating a complete system

Main components	
Description	**Ref.**
Operator	A
Control panel	B
Accessories	
Selector	C
Flashing light	D
Flashing light support	D
Remote control	E

Control panels and other components

ECP1
230 V~ "dead-man" control panel for rolling doors

ECP2
230 V control panel with built-in 433 MHz radio receiver for rolling doors

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

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

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

Automation for windows and doors

Automation systems for blinds, shutters, sun shades and awnings

230 V automation

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

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
As above, torque 20 Nm and lifting capacity 40 kg

EV60/45
As above, torque 40 Nm and lifting capacity 80 kg

EV80/45
As above, torque 50 Nm and lifting capacity 95 kg

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
As above, torque 40 Nm and lifting capacity 80 kg

EV70/45
As above, torque 50 Nm and lifting capacity 95 kg

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
As above, torque 20 Nm

EV45ER/30
As above, torque 30 Nm

EV45ER/40
As above, torque 40 Nm

EV45ER/50
As above, torque 50 Nm

Operators 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	-	-	-	-	-	Sì	Sì	Sì
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 revolution	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 (°C Min/Max)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Lenght (mm)	457	467	467	537	537	528	598	598

Operators 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	Sì	Sì	Sì	Sì	Sì
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 revolution	No limit	No limit	No limit	No limit	No limit
Ø adapter	60	60	60	60	60
Adapter type			Not standard		
Thermal protection (min)	4	4	4	4	4
Operating temperature (°C Min/Max)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Lenght (mm)	607	607	637	637	637

Automation for windows and doors
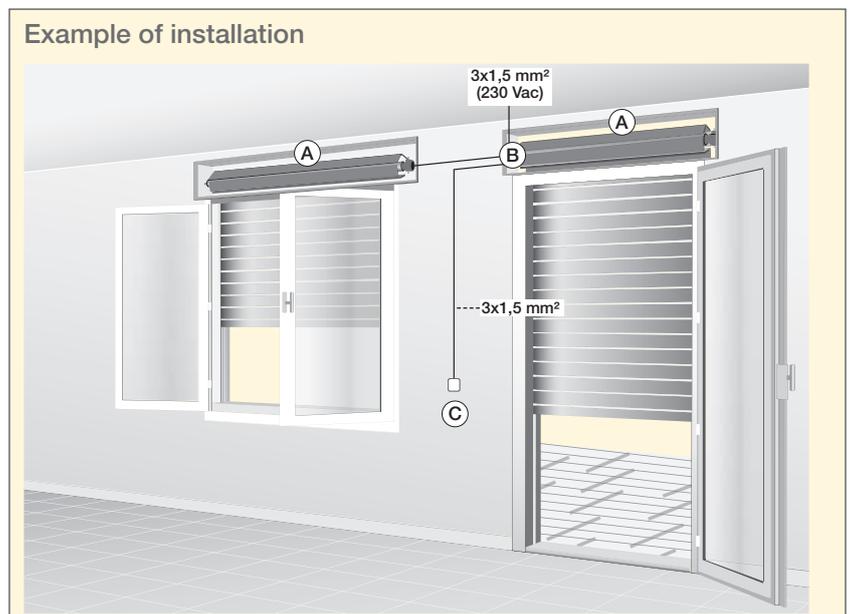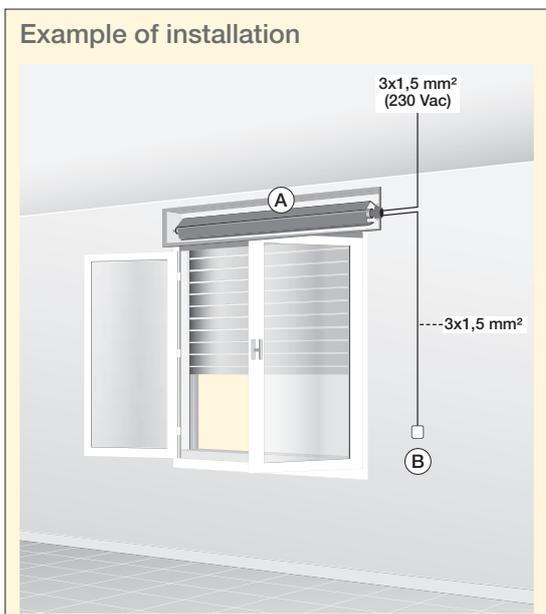
VIMAR

Automation systems for blinds, shutters, sun shades and awnings

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 ø 40 mm	6 Nm	6 Nm	6 Nm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roller ø 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 ø 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 ø 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	-	-	-	-	-	-

Table to calculate motor torque (Nm) for sun shades

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Example of installation

3x1,5 mm² (230 Vac)

A

----3x1,5 mm²

B

Example of installation

3x1,5 mm² (230 Vac)

A   B   A

----3x1,5 mm²

C

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

Main components	
Description	**Ref.**
Operator	A
Double control push-button	B

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

Main components	
Description	**Ref.**
Operator	A
Centralization board for 2 roller shutters	B
Double control push-button for motor 1	C

Automation for windows and doors

VIMAR

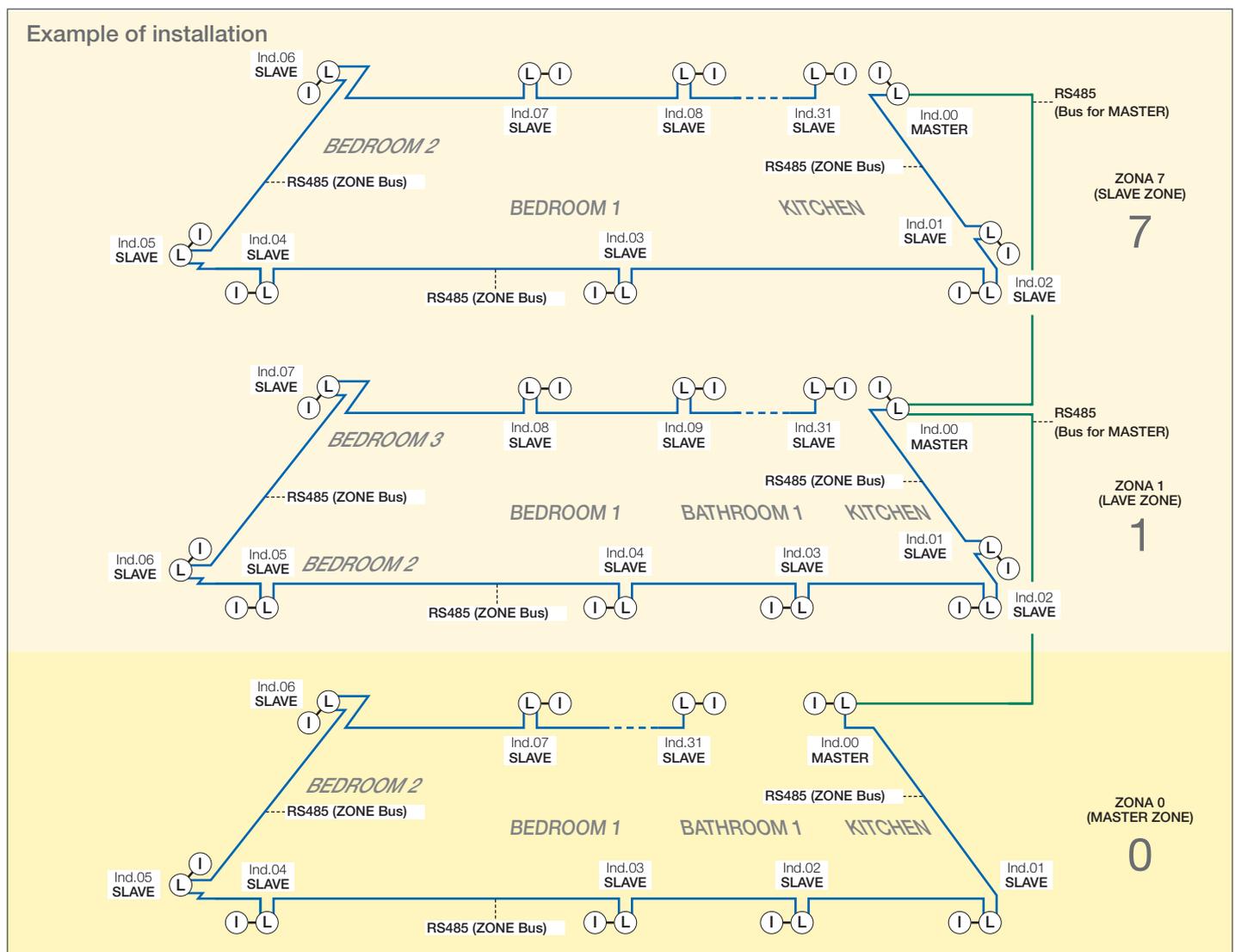## Automation systems for blinds, shutters, sun shades and awnings

Example of installation

3x1,5 mm² (230 Vac)

3x0,5 mm²
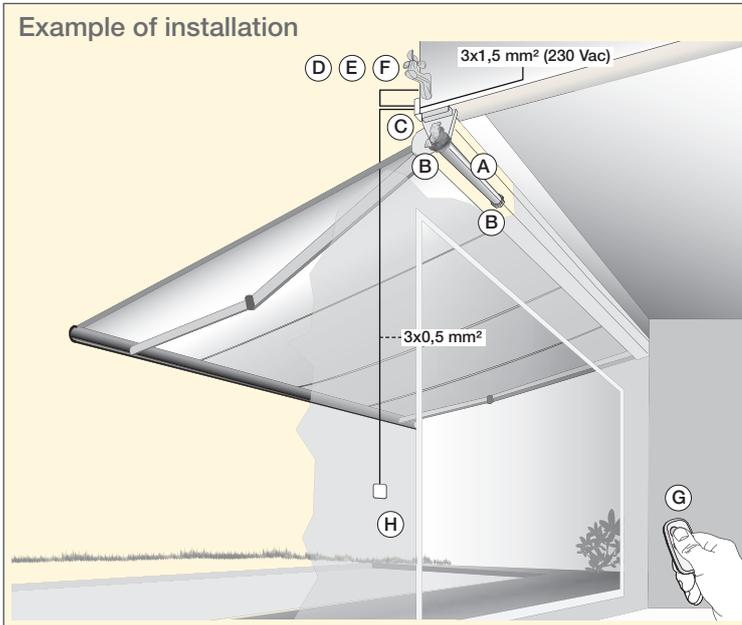
Components for creating a complete system for 1 awning

Main components	
Description	**Ref.**
Operator	A
Drive wheel and limit switch crown wheel	B
Control panel	C
Wind sensor	D
Rain sensor	E
Light sensor	F
Remote control	G
Double control push-button	H

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

Description	Ref.
Operator	I
Control panel and expansion module	L

Example of installation

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Automation for windows and doors

VIMAR

Automation systems for blinds, shutters, sun shades and awnings

Control panels

ECGC
Miniature control unit 230 Vac max 700 W with built-in 433 MHz radio receiver for tubular motors and operators for windows

ECGF
Control unit 230 Vac max 450 W with built-in 433 MHz radio receiver for tubular motors and operators for windows, installation behind device

ECG3
Control unit 230 Vac max 400 W with built-in 433 MHz radio receiver for tubular motors and operators for windows

ECGS
Expansion card for ECG3 control unit for zone control of tubular motors

ECGT
Card with 2 relay outputs 230 V~ 300 W for single and central control of tubular motors

Sensors

EGA3.1
Tachometric anemometer for ECG3 control unit for tubular motors

Adapters ø 40-49 mm

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

EVA06
Conversion ring for adapters for tubular sections ø 45 mm

Adapters ø 50-59 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

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

Adapters ø 60-69 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

ZXVB
Pair of octagonal star adaptors, ø 60 mm

ZXVO
Pair of octagonal adapters for roller shutters, ø 60 mm

Automation for blinds, shutters and sun shades

Adapters ø 70-79 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

ZXVL
Pair of adaptors with ogive for sun shades, ø 78 mm

Adapters ø 80-89 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

Supports

EVS01
Bracket for rolling shutters

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
Motor support with 10 mm adjustable pin

Handles and joints

ZXVD
Joint-enabled control arm with hook, 1,50 m

ZXVG
45° cardan joint with arm and eye with jointed terminal connection, 250 mm

ZXVM
Control eye

Automation for windows and doors

Automation systems for windows

230 V automation

EG30/G
230 Vac operator with double articulated chain for window motorisation, top-hung and dome models, grey

EG30/N
230 Vac operator with double articulated chain for window motorisation, top-hung and dome models, black

▲ **EG30/N24**
As above, 24 Vdc power supply

▲ **EG50**
230 Vac operator with rack for window motorisation, top-hung and dome models

Operators technical data

	EG30/G, EG30/N	EG30/N24	EG50
Useful travel (mm)	200, 380	200, 380	150, 200, 250, 320
Thrust force (N)	300	300	500
Tractive force (N)	300	300	500
Power supply	230 Vac	24 Vdc	230 Vac
Apsorption (A)	0,26	1,3	0,3

	EG30/G, EG30/N	EG30/N24	EG50
Protection rating	IP30	IP30	IP55
Thermal protection (min)	4	4	4
Operating temperature (°C Min/Max)	-5 ÷ +50	-5 ÷ +50	-5 ÷ +55
Dimensions (mm)	337,2x103x60	337,2x103x60	775x94x68
Weight (kg)	1,1	1,1	9

### 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)

$$F = 0,54 \times P$$
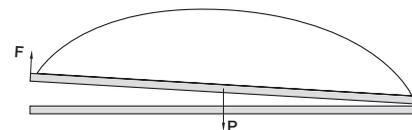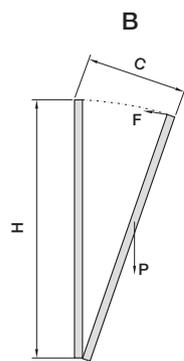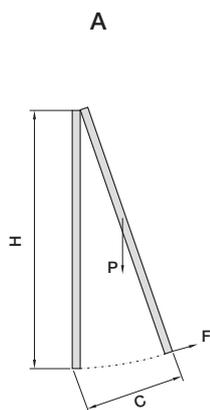
Control panels and sensors

ECGC
Miniature control unit 230 Vac max 700 W with built-in 433 MHz radio receiver for tubular motors and operators for windows

ECGF
Control unit 230 Vac max 450 W with built-in 433 MHz radio receiver for tubular motors and operators for windows, installation behind device

ECG3
Control unit 230 Vac max 400 W with built-in 433 MHz radio receiver for tubular motors and operators for windows

EGA3.1
Tachometric anemometer for ECG3 control unit for tubular motors

Accessories

Remote controls

ETRN2
2-channel remote control, 433 MHz, rolling code
ETRN2.30
As above, in pack of 30 pcs. The simultaneous programming of the remote controls is made via the By-gate Pro app by the serial number, printed on the backside of remote control or by QR-code, printed on the pack.

ETRN4
4-channel remote control, 433 MHz, rolling code

ETFN2
2-channel remote control, 433 MHz, fixed code

ETFN4
4-channel remote control, 433 MHz, fixed code

ETT01
Remote control for 433 MHz tubular motors, rolling code, supplied with surface mounting support with magnetic hook.
It can control a single or group of tubular motors

ETT15
Remote control for 433 MHz tubular motors, rolling code, with LCD display for channel selection and indication of battery charge level, supplied with surface mounting support with magnetic hook. It can control 15+1 tubular motors or 15+1 groups of tubular motors.

ETT01T
Remote control for 433 MHz tubular motors, rolling code, with LCD display for channel selection and indication of battery charge level, supplied with surface mounting support with magnetic hook. It can control a single or group of tubular motors, with hourly, daily or weekly programming.

ETT05T
Remote control for 433 MHz tubular motors, rolling code, with LCD display for setting the time and date, channel selection and battery charge level indication, supplied with surface mounting support with magnetic hook. It can control 4+1 tubular motors or 4+1 groups of tubular motors, with hourly, daily or weekly programming

ETT01F
Remote control for 433 MHz tubular motors, rolling code, power supply 12/24 Vac, for back-box installation coupled to conventional series buttons.
It can control a single or group of tubular motors

Flashing light, aerials and supports

ELA5
LED 12/24 Vdc 5 W

ELA6
LED 120/230 Vac 5 W with electronic flash

ELA7
LED 12/24/120/230 Vac/dc 5 W with selectable electronic flash

EL33
Flashing light surface mounting support

ZL43
Aerial for 433 MHz receivers and surface mounting support, 3 m of RG58 cable

Receivers, expansion and connection modules

ECRU.W
2-channel 12/24 V receiver for control of automation and auxiliary services, programmable via smartphone/tablet. 433 MHz frequency, rolling code or fixed code for automation system control, memory for up to 2000 radio codes, expandable up to 4 channels with ECRU.W.CA contacts

ECRU.W.CA
Additional channel for ECRU.W receiver. Increases number of receiver channels to 4

EMC.W
Wi-Fi connection module for control panels SL24.W, SW24.W. Allows communication via Wi-Fi between control panels and smartphone/tablet

EMX.W
Expansion module for Wi-Fi control panels. Used to make connections for opposing gate leaf

ECRU.1
2-channel 12/24 V receiver for controlling automation systems and auxiliary services, 433 MHz, rolling code or fixed code, memory holding up to 500 remote controls

By-gate and **By-gate Pro** apps available on the Vimar website or Apple Store and Google Play

Download on the App Store

GET IT ON Google Play

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Accessories

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Accessories

Photocells and posts

EF01.1
Pair of 12/24 Vac/dc photocells with a range of 30 m, flush mounting on ZX26 box

ZX26
Single flush mounting box for EF01 photocells and ED01 key selector

EF02.1
Pair of 12/24 Vac/dc photocells with a range of 30 m, installation on EE01 and EE02 posts

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 EE11 and EE12 posts

EFA3
Pair of 12/24 Vac/dc max 70 mA photocells with a range of 15 m, synchronized, wall mount or post-mounted on EE11 and EE12 posts

EF04/S
Pair of 12/24 Vac/dc max 110 mA photocells with a range of 15 m, synchronised low profile, wall mount or post-mounted on EE11 and EE12 posts

EE21
Short post h 500 mm with 1 hole for installing wall-mount accessories, aluminium frame, anodized finish

EE22
Tall post h 1000 mm with 1 or 2 holes for installing wall-mount accessories, aluminium frame, anodized finish

EE23
Fixing plate to be cemented for EE21 and EE22 posts

EE11
Low-profile post for EF04/S photocells, one hole, height 500 mm, complete with anchoring base and cover

ZX46
Fixing plate for posts EE11, EE12 and EE14, to be cemented

Selectors and keypads

EDS1
16A 250V key switch, wall-mount or post-mounted on EE22 posts

From EDS1.351 to EDS1.380
As above, with key from n.351 to n.380

EDS4
Pair of 16 A 250 V aluminium key switch for surface mounting with identical keys

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

EDT3
Battery remote keypad 433 MHz rolling code, 4-channel. For the control up to 4 separate automation systems. Backlit keypad, IP 44, powered by 2 AA batteries. Battery indicative life 2 years. Batteries not included

Accessories

Controls

EDP3
Two independent 1P NO 16 A 250 Vac buttons, with directionalarrows, white

ZR01
Single-channel magnetic mass detector, 12/24 Vac/dc power supply, 2 pulse/presence outputs

ZR02
Two-channel magnetic mass detector, 12/24 Vac/dc power supply, 2 pulse/presence outputs

ZRS1
Magnetic coil for mass detector, 6 m

Protection devices

EZS16
Balanced 8k2 safety sensitive edge complying with EN 12978, width 37 mm, depth 61 mm, length 1,6 m

EZS20
As above, length 2 m

EZS25
As above, length 2,5 m

EZP16
Microswitch sensitive edge, N/C contact, width 37 mm, depth 61 mm, length 1,6 m

EZP20
As above, length 2 m

EZP25
As above, length 2,5 m

EZA20
Passive sensitive edge, width 37 mm, depth 61 mm, length 2 m

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, length 1 m

EZS12.GA
As above, length 1,2 m

EZS18.GA
As above, length 1,8 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, length 1 m

EZP12.GA
As above, length 1,2 m

EZP18.GA
As above, length 1,8 m

EZ.GA.TAP
Pair of right and left end caps for EZS.GA and EZP.GA series sensitive edge profiles.
To be used as right and left end fittings for the safety edge

EZ.GA.GIU
Pack of 5 straight connection fittings for EZS.GA and EZP.GA.safety edge profiles. To be used to connect straight profile sections when a single safety edge is not sufficient to cover the entire length of the door or gate

EZ.GA.ANG
Pair of right and left connection fittings for EZS.GA and EZP.GA series sensitive edge profiles.
To be used to create a continuous safety edge around three sides of an up-and-over door

ECR2.RX
Radiofrequency receiver for managing one or more 8K2 or microswitch sensitive edges, frequency 868 MHz, range 20 m, complying with EN 12978, power supply 12-30 Vac/dc

ECR2.TX
Radiofrequency transmitter for managing one or more 8K2 or microswitch sensitive edges, frequency 868 MHz, range 20 m, complying with EN 12978, power supply with 2 AA LR6 1.5 V batteries (batteries supplied)

ECR2.FL
Control board for one or more 8K2 sensitive edges, conforming to EN 12978, 12-30 Vac/dc power supply

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Accessories

Accessories

Cables

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

Accessories

ZSEM
230 V~ red-green traffic light,
angle of rotation 200°, complete
with wall fixing bracket. Supplied
with two 70 W long-life bulbs

ZSEM/L24
As above, 24 Vdc/Vac e con 2
lampadine 3 W a lunga durata

ZSC1
230 V~ control panel for the
management of 2 ZSEM traffic
lights

ZX20
Automatic gate warning sign

ECA0
Control panel enclosure

Measuring tool for "machine directive" declaration of conformity

▲ **EK0D**
Measuring instrument for
forces of impact

EK0P.L
Linear extensions for
carrying out impact tests

Spare parts

Mechanical spare parts

Anchors and brackets

	RA05	Bracket with bush for ZI27-ZX41
	RA08	Bracket w/bush ZI26-E20-ZX41
	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
▲	RA75.180	Lock-lever EIC15 for EIM2.180
	RA76	Gate support lever for EIC5 cases
	RA77	Curve drive lever for EIC5 cases
	RA78	EIM2 motor shaft lever
▲	RA78.180	Motor lever EIM2.180
	RA93	Pair of limit stop brackets for ESM3, ESM4, ESM5, ESM6
	RA110	Front and rear anchoring brackets for EAM4.L
▲	RA111	U bracket EAM4/EAM4.L
▲	RA187	Fixing brackets for EAM5, EAM6
	ZX16	Fixing plate for ACTO 400D and ACTO 600D sliding automation system
	ZX76	ESM3 fixing plate
	ZX77	ESM4, ESM5 and ESM6 fixing plate
	ZX82	ESM7 fixing plate
	ZX84	ESM8 and ESM9 fixing plate
	ZX86	Fixing brackets spaced from the ceiling for tracks ENX

Limit switches and stops

	RA10	Limit for casing ZX41
	RA43	Limit stop cams for EBM1
▲	RA112	Closing stop caps EAM4/EAM4.L
	RA128	Two caps pole shaft stop for EBR
▲	RA186	Mechanical closing stop EAM5, EAM6
	RZP1	Limit switch for roller shutter

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 ACTO 510A and ACTO 810A
	RA130	Releasing key for EBR
▲	RA168	Release EBM1, EBM2
▲	RA171	Release lever EBM1, EBM2
▲	RA185	Release EAM5, EAM6
	REA4	Device For Motor Ea/Za Series
	REA5	Lock with key for EKKO 250D and EKKO 350D swing operators
	REA6	Release cover for EKKO 250D and EKKO 350D swing operators
	REA7	Release key for ESM7
	RES8	Lock with key for ES series sliding gates
	ZDA7	Release for actuators ZI26 and EI20
	ZX33	Neutral key for ESM1, ESM2, EAM2, EAM3 operators
▲	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	Release key for ESM8 and ESM9
	ZX85	Release key for EAM8 and EAM9

▲ New article   Δ Available as long as stocks last   ■ For the availability, please contact the sales network

Spare parts

Mechanical spare parts

Operator covers

RA22	Cover for ESM1 and ESM2	
RA22.NV	Cover for ESM1 and ESM2	
RA23	Cover for ESM3	
RA24	Cover for ESM4, ESM5 and ESM6	
RA33	Cover for EAM5 and EAM6	
RA36	Barrier cover for EBR1 and EBR2	
RA46	Flap covering terminal block EAM1, EAM2, EAM3	
RA50	Cover for ESM7	
RA51	Right and left anchoring covers for ESM7	
RA52	Cover for card ESM7	
RA60	Wiring harness cover for EAM7	
RA70	Cover for KLYS 9SD and KLYS 12S	
RA80	Cover for ACTO 510A and ACTO 810A	
▲ **RA79**	Cover for EIC5, EIC5.I	
▲ **RA102**	Cover for ZX41	
RA120	Chest for EBR barrier	
RA121	Spare part holder EBR barrier	
▲ **RA169**	Cover EBM1, EBM2	
RES1	Cover for ES series sliding automation systems	

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Spare parts

Mechanical spare parts

Sprockets

RA06	Right-hand pinion with mechanical stop for ZBR series barrier chain
RA28	Pinion for ESM1 and ESM2
RA29	Pinion for ESM3
RA30	Pinion for ESM4, ESM5 and ESM6
RA59	Pinion for ESM7
RA89	Sprocket for ESM8 and ESM9
RA108	Oversize 17=tooth pinion for ESM2 sliding gate operators. Reduces maximum weight of the gate by 25% ads compared to nominal data for standard ESM2 13-tooth pinion

Generic

	RA01	Rubber buffer
	RA07	Bushing for casing ZX41
	RA15	Box front series EC
	RA53	Plastic assembly supporting and covering the ESM7 card
	RA73	Gear plate EIM2.180
	RA74	4 spacers+nuts EIM2.180
	RA95	Plastic assembly supporting and covering the ESM1 and ESM2 card and transformer
	RA129	Accessories for control panel+holder EBR
	RA131	Lampholder EBR
▲	**RA132**	Diffuser spare part LED barrier 2 m EBR
▲	**RA143**	Electronic-plastics ESM3
▲	**RA156**	Electronic-plastics ESM4, ESM5, ESM6
▲	**RA165**	Cover seal EBM1, EBM2
▲	**RA166**	Geared belt drive EBM1, EBM2
▲	**RA170**	Light diffuser+LED EBM1, EBM2
▲	**RA172**	Electronic-plastics EBM1, EBM2
▲	**RA184**	Electronic-plastics EAM5
	RES5	ES series sliding die-cast base assembly (dark sable grey bases)
▲	**ZBRF**	Final element for ZBR series barriers
▲	**ZBRI**	ZBR barrier initial/intermediate element
Δ	**RM11**	24V ACTO 600D actuator mechanism
	RZE3	Pack of screws for rack ZE03
	RZE7	Pack of screws for rack ZE07

Electrical spare parts

Transformers

	R307/117	Transformer 117 V for ZC.
	R309	Transformer 230-12 V~ 150 VA, for ESM1 operators
	R309.120	Transformer 120-12 V~ 150 VA, for ESM1.120 operators and ECA1.120 control units
	R319	Transformer 230-24 V~ 150 VA, for ESM2 operators and ECA5 panels
	R319.120	Transformer 120-24 V~ 150 VA, for ESM2.120 operators and ECA5.120 control units
	R324	Transformer 230 V-24 V~ for EAM5 operators
▲	**RA160**	Transformer EBM1

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

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Spare parts

Electrical spare parts

Motor assemblies

	RA47	EAM2, EAM3 motor unit
	RA54	ESM7 motor unit, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
	RA61	EAM7 motor unit
	RA82	Engine assembly EAM4
	RA91	ESM1 motor unit, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
	RA92	ESM2 motor unit, includes flange, gaskets, bearings, worm screw and screws for anchoring to the operator's die-cast base
	RA99	Engine assembly ESM2.1000
▲	RA140	Rotor ESM3
▲	RA141	Stator+gear box ESM3 230 V
▲	RA150	Engine assembly ESM4, ESM5, ESM6
▲	RA152	Engine assembly ESM4 230 V
▲	RA153	Engine assembly ESM5 230 V
▲	RA154	Engine assembly ESM6 230 V
▲	RA164	Engine assembly EBM1, EBM2
▲	RA180	Engine assembly EAM5, EAM6
	RMEBR1	Replacement gearmotor for barrier EBR1
	RMEBR2	Replacement gearmotor for barrier EBR2

Control panels and control panel accessories

▲	433RAD.T	Radio module ET03
	433RAD.W	433 MHz radios receiver for .W control panel with possibility for Wi-Fi connection
	MEM.W	Store module control card+receiver .W
	ECE2	Plug-in encoder board for RS07, RS08
	R311	Motor encoder card for automation systems
	RA98	Set of magnetic limit switches and control unit for sliding conversion 12V without limit stop in version with magnetic limit switches. Contents: 1 RS01, RA96, 1RA97
▲	RA151	Encoder ESM4, ESM5, ESM6

Electronic spare parts

Limit switches and stops

	RA31	Limit switches ACTO 500A
	RA32	Limit switches ACTO 800/1400/2200A
	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
	RA127	Closing stop group for EBR
▲	RA167	Closing stop+cabling EBM1

Generic

	RA16	Optical encoder disk
	RA81	Connection cable EAM4/EAM4.L
Δ	RZ12	12 V 5 W lamp for ELA1

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