




























**value moves the world**


















**AUTOMATION DEVICES FOR GATES, GARAGE DOORS,  
BARRIERS, ROLLER SHUTTERS AND SUNSHADES**

**V2**  
**2016**

**V22016**

## ICONS

GATE	
	Sliding door
	Swing door
	Roller shutter and screen
	Traffic light output
 	Control unit power supply voltage
  	Motor power supply
	Built-in inverter
	Built-in receiver
	Connector for modular receiver
	Output for flashing light without intermittence
	Output for flashing light with intermittence
	Interface for connecting ADI modules
	Control unit set up for LUX2+ module connection
	Control unit set up for CL1+ module connection
	Control unit suitable for operation with the WES accessory
	Control unit set up for WES-ADI module connection
	Control unit set up for WES-EASY module connection
	Control unit set up for EASY-PULSE
	Control unit set up for SYNCRO module connection
	Control unit suitable for operation with the backup battery module
	Compatible with the ECO-LOGIC system
	Control unit designed for connection to Bluetooth module and control via <b>V2app</b>

SCREEN	
	Power supply
	Solar powered
	Mechanical limit switch
	Electronic limit switch
	Encoder
	Manual override
	Built-in receiver
	Connector for modular receiver
	Sun sensor on/off
	Courtesy light on/off
	Multiple groups
	Automatic or manual operation
	Sun sensor input
	Wind sensor input
	Temperature sensor input
	Plastic
	Metal

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# value to life





Automation is an added value to everyday life.

Since 1980, through our products, we've made it more and more present in everyday life.

And we keep doing it.

All around the world.

We are over thirty years old and we still have much enthusiasm to grow. With 7 locations in the world, we are a multinational company that since 1980 has designed integrated solutions for automation.

A company in continuous expansion, which declines the concept of technological innovation in all its forms, from the automated systems for gates to those for garages and windows, up to the safety devices. Our solutions, perfect for both residential and industrial use, combine technology, innovation, research, to make daily movements simpler and safer.

To add value to the life of the people who use our products and the work of the professionals who choose them every day.

# value to history

A COMPANY ON THE MOVE

1980

## Thoughts in motion

The founders Antonio Livio Costamagna and Francesco Ceniccola start a small business in the field of electronics in which they had been active for years.

1984

## The Number One is born in House

V2 produces the first radio control in its history: a conquest that marks the birth of a type of important product for the company, which will contribute to its future success.

1987

## The story becomes automatic

V2 produces and distributes the first range of electronic equipment for the automation of gates.

1992

## Open borders: V2 Spain and beyond

V2 Spain, a commercial branch for the Spanish speaking markets, is established in Barcelona. The V2 range is more and more appreciated abroad. And this is just the beginning...

1995

## The Vip: one for all and all for one

A great technological idea that anticipates the competition: a four channel remote control that allows to use a single product for multiple applications.

1998

## The Personal Pass: a step forward

A new product, small in size yet featuring great technology: database based management software and programming possibilities by the installer.

# 2000

## **The year of Mechanics**

Quality, safety and reliability: these are the characteristics of the first motors manufactured by V2, with new applications in the field of the automation of awnings and rolling shutters.

# 2003

## **Handy: a jewel designed by Giugiaro**

While the construction of the new futuristic headquarters in Racconigi starts, Giugiaro designs a prestigious and exclusive remote control. A great stylist for a great technology.

# 2005

## **A new location, open to the world**

The new location was inaugurated in January: a contemporary architecture, reviewed by the prestigious architecture magazine "L'Arca", a meeting space for people and ideas.

## **Open Europe**

France, Spain, Portugal: the conquest of new countries. To be closer to our Customers and offer a timelier service.

# 2007/08

## **The world is not enough**

Many projects in continuous expansion and the borders are tight: the branches of Tunisia and Morocco are established in 2007. In 2008 V2 arrives in China.

# 2010

## **An ever more positive Mood**

Enlargement of the range of products, with a particular focus on the mechanics: the Mood line, that includes Axil, Forteco, Alfariss, Hyperfor, Zariss, Ayros, Zenia, is born.

# 2016

## Present to the future

Our research continues, looking to the future, toward home automation signed by V2.



# Value to be

## OUR VALUES



**Innovation.** Change, develop, grow: innovation is our core business. For over thirty years we have been working with passion to seek new solutions for automation: this has allowed us to make the value of V2 known worldwide. **Quality.** The quality of our products, even before the technology, is due to the value of our people: the best designers, engineers, inspectors, specialists in marketing and sales. People choosing advanced techniques and materials, combining them together in the best possible way, anticipating the market needs, always creating new value. **Safety.** Each of our automation system undergoes strict quality controls and owns the most important international certifications, so as to guarantee to anyone using it easy of use with maximum safety. **Reliability.** Our customers choose our products with confidence, because all our proposals ensure maximum performance over time and in any condition. Each of our solution includes the safety and tranquillity that only products of excellence can offer. **Sustainability.** We are increasingly focused on developing products with low environmental impact, which use natural resources and environmentally-friendly. We believe in the importance of respecting the environment, to restore value to the world around us.

Because every time you choose V2 you do not only buy a product, but an actual solution.



V2 products are known and appreciated all over the world. Our path of research and innovation has always been characterized by a strong international focus, that allows us today to see our automation solutions installed and operational in more than 40 Countries.

In addition to the Italian branch in Racconigi (near Turin), we have subsidiaries in Barcelona (Spain), Genas (France), Caxarias (Portugal), Casablanca (Morocco), Tunis (Tunisia) and Hangzhou (China).

Seven premises around the world, to spread the value of what we produce and be increasingly closer to our customers.



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# value to innovation

V2 INNOVATION

Our world is constantly growing, because it is only by putting passion in addressing new challenges that truly innovative solutions may arise.

Innovation to us means the achievement of a perfect synthesis of technology and accessibility: the more solutions are at the forefront, the more they must be simple to use.

From this philosophy, we create every year new proposals in order to respond in an advanced way to the real needs of the people using our products.

**We are pleased to introduce, in the following pages, the last born in V2.**

# on

12|13 **city1-evo**

14|15 **v2app**

# city1-evo

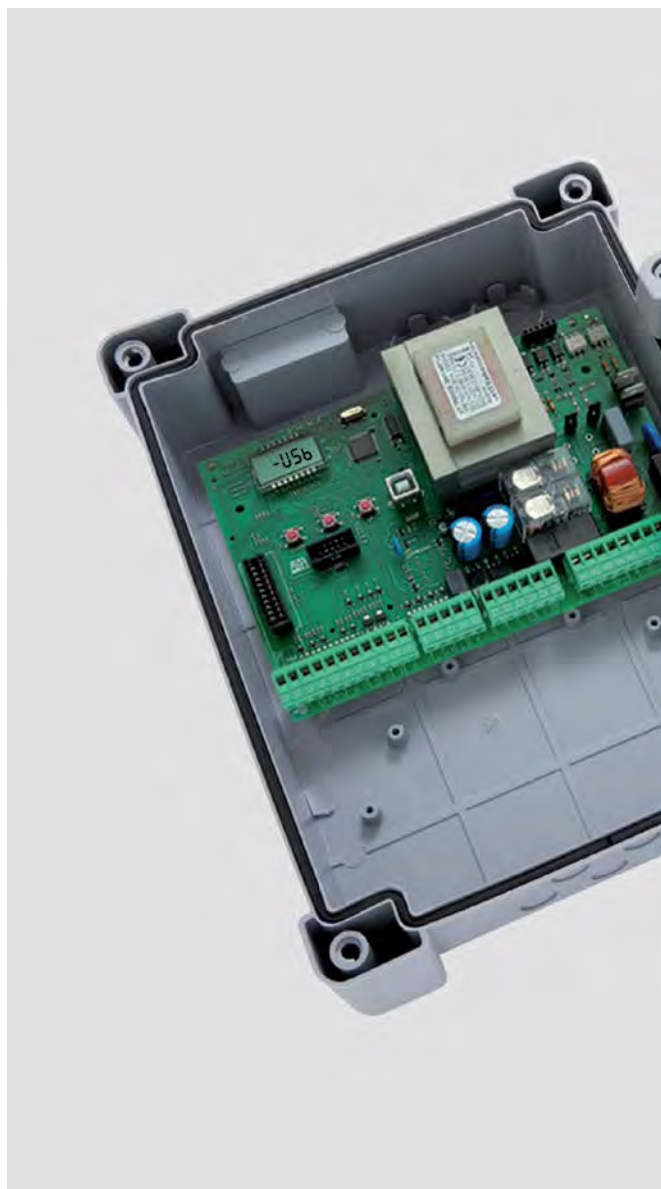
Universal control unit and management software

## The evolution of the City

The V2 solution to simplify the management of installations.

One control unit for all installation requirements, ideal for professionals but also for less experienced users.

One management software for scheduling, updating and monitoring installations.

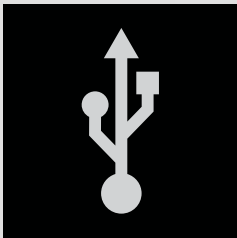


### PRACTICAL VALUE

- **EASY PROGRAMMING:** the programming menu of the control unit is structured on two levels, BASIC or ADVANCED, to suit all needs, even of novice users.
- **QUICK INSTALLATION:** to reduce intervention times, the installer can program the control unit with custom parameters before running the Setup. By connecting the control unit to the PC via USB, you can access the programming menu without powering the control unit. You can also program the control unit using the device CL1+.
- **DIAGNOSTICS:** the control unit is equipped with a very useful diagnostic menu that allows to display the events stored and identify the causes of possible installation failure. The diagnostic menu can be opened directly on the control unit display or on the PC in the section dedicated to V2+ software.

### TECHNICAL VALUE

- **SIMPLIFIED MANAGEMENT:** USB plug that enables connecting the control unit to a PC. By using the software V2 + you can update the firmware of the control unit, change the programming parameters or read diagnostic information.
- **LOW CONSUMPTION:** the control unit is designed for connecting a LOW ENERGY module that allows you to save electricity, according to the requirements of the legislation on the energy-efficient household appliances (ErP-Energy related Products-2009/125/CE).



**INDUSTRIAL CONTAINER**

CITY1-EVO is also available in a handy industrial container equipped with a DIN rail and safety disconnecting switch



# v2app

App for smartphone & tablet

## The future is already here

“V2 AppTool” is the app by V2 designed specifically for installers.

By installing the new module BT01 on the control unit, you can easily interface with the entire range of V2 digital control units using your smartphone or tablet.

V2 “AppTool” simplifies and speeds up your work!

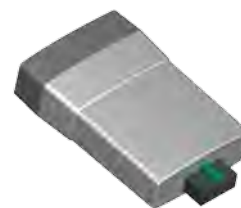


### PRACTICAL VALUE

- V2 AppTool allows you to interface with all parameters of the control unit. The app of V2 quickly and easily reads, modifies and rewrites the parameters.
- V2 AppTool is able to save the control unit parameters and is designed to meet all programming needs.
- V2 AppTool is a cross product suitable for the entire range of V2 products. It features a user-friendly interface and bluetooth connection.

### TECHNICAL VALUE

- V2 AppTool is available for Android and iOS devices. It communicates with the control unit via bluetooth connection. This allows the installers to run the setup of the control unit more easily and in less time.
- The app developed by V2 targets cutting-edge and high-performance devices such as tablets and smartphones.
- With V2 AppTool you can save setup parameters and access the event log, write parameters and update the firmware.



### Bluetooth Module

Program a control unit remotely?  
It is possible and very easy!

The aim of V2 is also the comfort of its customers, and with BT01 this goal is reached! It's a bluetooth module that allows you to manage the control units via V2 AppTool.

By inserting the BT01 module into the control unit ADI plug, the installer will be able to connect to the control unit using a smartphone or a tablet.

A new fast easy and comfortable way to work!

Available for  
**Android** and **iOS**.

V2 devices compatible with **V2app**  
are identified by the icon





# value to time

Abreast of the times,  
reliable over time

The sliding gate is the perfect solution to optimize space, where there is not enough room for the swing door.

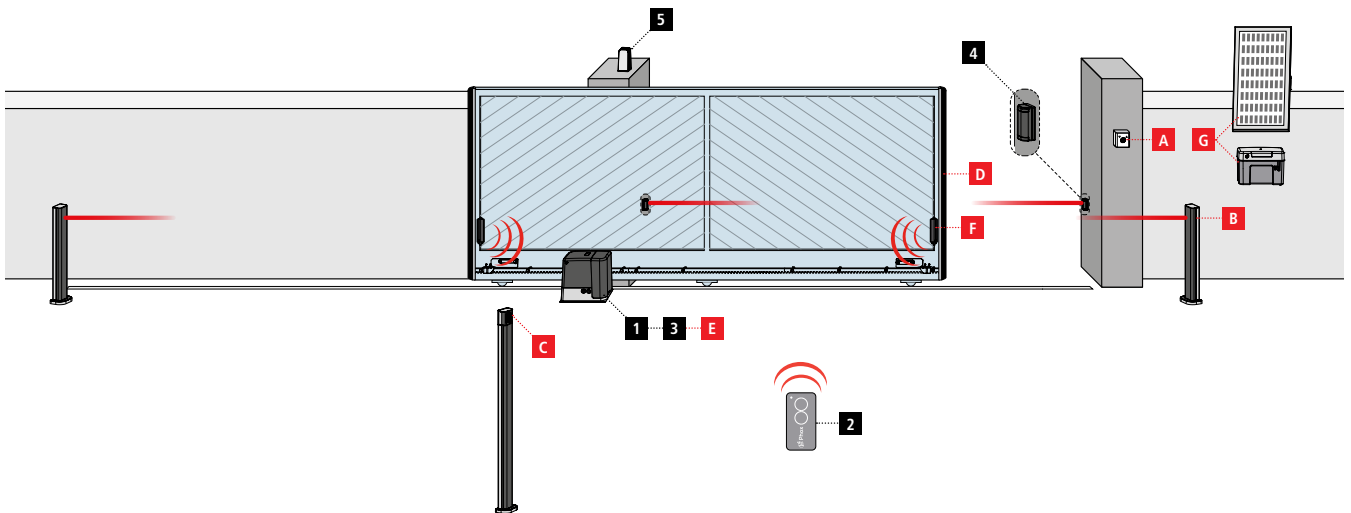
V2 automation systems are customized according to the weight and size of the gate, so as to withstand over time in any weather condition.

# MOTORS FOR **SLIDING GATES**



# EXAMPLE SYSTEM MOTORS FOR SLIDING GATES

22|35



## COMPONENTS

- 1** Motor
- 2** Transmitter
- 3** Receiving module
- 4** Photocells
- 5** Flashing light

## ADDITIONAL ACCESSORIES

- A** Key switch
- B** Pillar photocells
- C** Pillar-mounted digital radio switch
- D** Safety edges
- E** WES-ADI module (via radio management of edges)
- F** WES sensors
- G** ECO-LOGIC system

## CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Power supply (230 - 400V)	4G x 1.5 mm <sup>2</sup>	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>
Photocells (TX)	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Photocells (RX)	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Key switch	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Flashing light	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>
Antenna (integrated into the flashing light)	RG174	RG174	RG174
ECO-LOGIC (accumulator unit)	2 x 1.5 mm <sup>2</sup>	-	-
ECO-LOGIC (solar panel)	2 x 1 mm <sup>2</sup>	-	-

# INDEX OF PRODUCTS MOTORS FOR SLIDING GATES



## Electromechanical for RESIDENTIAL USE

22|23 **alfariss**

24|25 **alfariss kit**

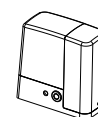


26|27 **ayros**

28|29 **ayros kit**



30|31 **forteco**

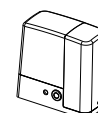


32|33 **forteco-2200-m**



## Electromechanical for INDUSTRIAL USE

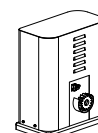
30|31 **forteco 2500-l**



32|33 **forteco-2500-l-m**



34|35 **hyperfor**



# SELECTION GUIDE MOTORS FOR SLIDING GATES



22|35

RESIDENTIAL USE

24V — digital control unit — magnetic limit switch — encoder —

230V — digital control unit — magnetic limit switch — encoder —

INDUSTRIAL USE

230V — digital control unit with inverter — { magnetic limit switch — encoder —  
mechanical limit switch —

400V — digital control unit — mechanical limit switch —



gates up to <b>200 Kg</b>	fast motor	→	<b>alfariss 200D-24V-F</b>	22 23
gates up to <b>300 Kg</b>		→	<b>alfariss 300D-24V</b>	22 23
gates up to <b>500 Kg</b>	fast motor	→	<b>ayros 500D-24V-F</b>	26 27
gates up to <b>600 Kg</b>		→	<b>ayros 600D-24V</b>	26 27
gates up to <b>1000 Kg</b>		→	<b>ayros 1000D-24V</b>	26 27

gates up to <b>400 Kg</b>		→	<b>ayros 400D-230V</b>	26 27
gates up to <b>800 Kg</b>		→	<b>ayros 800D-230V</b>	26 27
gates up to <b>1200 Kg</b>		→	<b>ayros 1200D-230V</b>	26 27
gates up to <b>1800 Kg</b>		→	<b>forteco 1800-230V</b>	30 31
gates up to <b>2200 Kg</b>		→	<b>forteco 2200-230V</b>	30 31
gates up to <b>2200 Kg</b>		→	<b>forteco 2200-230V-M</b>	32 33

gates up to <b>2500 Kg</b>	→	<b>forteco 2500 - I</b>	30 31
	→	<b>forteco 2500 - I - M</b>	32 33

gates up to <b>4000 Kg</b>	→	<b>hyperfor 4000 - I</b>	34 35
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gates up to <b>4000 Kg</b>	→	<b>hyperfor 4000</b>	34 35
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# alfariss

## 24V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 300 Kg



Built-in digital control unit

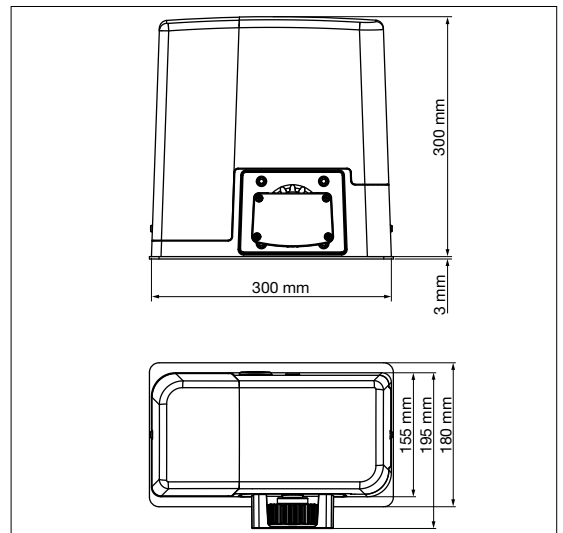
Housing of the backup battery

Painted aluminium casing



### PLUS

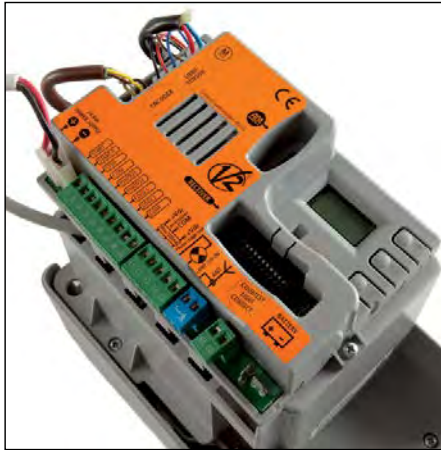
- Accurate and safe operation with encoder
- Obstacle detection
- Programmable acceleration and deceleration
- Self-learning of opening and closing times
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Steel pinion



### TECHNICAL FEATURES

Description	24V gates up to 200 Kg fast motor	24V gates up to 300 Kg
<b>MODEL</b>	<b>ALFARISS 200D-24V-F</b>	<b>ALFARISS 300D-24V</b>
<b>CODE</b>	<b>23B004</b>	<b>23B002</b>
Gate maximum weight (Kg)	200	300
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	150	150
Full load current @ 230Vac (A)	0.7	0.7
Gate speed (m/s)	0.25 (@ 100N) 0.42 (unloaded)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	200	330
Duty cycle (%)	50	50
Pinion	M4-Z16	M4-Z16
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	7.5	7.5
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	7	7

**CONTROL UNIT**



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 24V with or without intermittence
- Courtesy light output
- Energy Saving function to minimise consumption in stand-by mode
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slowing down in the limit switch area
- Soft start (programmable start-up rate)
- Monitoring of input status using the display
- ADI connector for connecting optional modules

 Electrical connections of the control unit on page 127

MOTORS FOR SLIDING GATES

**ACCESSORIES**



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



162330	162313	162329	162322	ACC009
Additional anchoring clamps	Nylon rack M4 - 6 attachments 1 m long with metallic insert	Galvanised metal rack 30x8 M4 1m long with fixing kit	Galvanised metal rack 30x12 M4 1m long with fixing kit	Warning sign





# alfariss kit

Installation kit for sliding gates  
weighing up to 300 Kg

## COMPOSITION



**1** 24V irreversible electromechanical rack actuator motor reducer



**2** PHOX2  
433.92MHz rolling code transmitter



**3** MR2  
Plug-in module receiver



**4** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

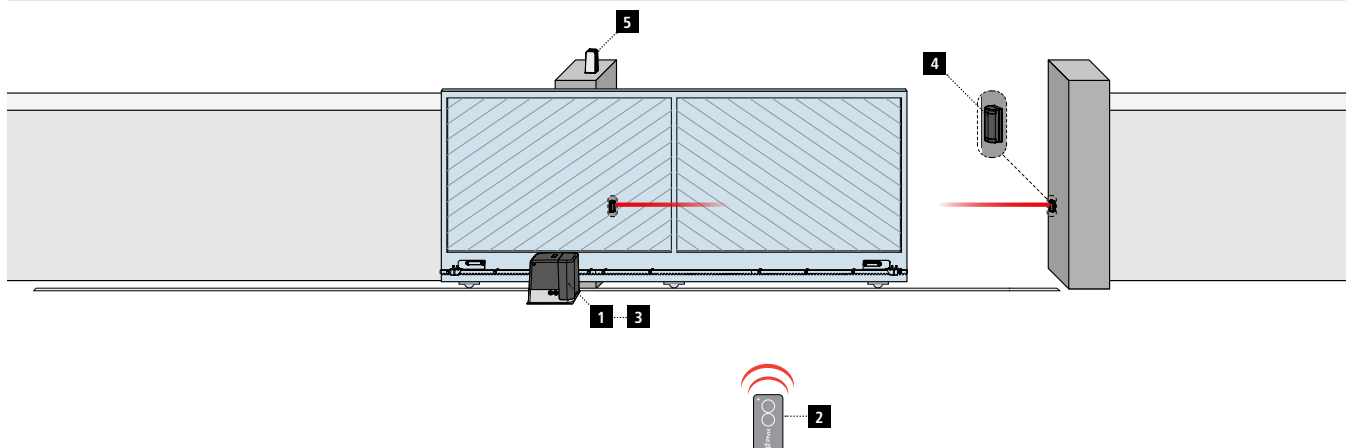


**5** LUMOS-M  
Led flashing light



**6** ACC009  
Warning sign

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section









**TECHNICAL FEATURES**

Description	<b>24V</b> gates up to <b>300 Kg</b>
<b>MODEL</b>	<b>ALFARISS 300D-24V</b>
<b>CODE</b>	<b>23B002</b>
Gate maximum weight (Kg)	300
Power supply (Vac - Hz)	230 - 50
Maximum electric power (W)	150
Full load current @ 230Vac (A)	3
Gate speed (m/s)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	330
Duty cycle (%)	50
Pinion	M4-Z16
Working temperature (°C)	-20 ÷ +55
Motor weight (Kg)	7.5
Protection degree (IP)	44
Maximum load on 24 Vac accessories (W)	7

MOTORS FOR SLIDING GATES

**alfariss kit**

Selection guide

		<b>Kit MODEL</b> ▼	 <b>PHOX2</b>	 <b>MR2</b>	 <b>SENSIVA-XS</b>	 <b>LUMOS-M</b>	 <b>ACC009</b>	<b>Kit CODE</b> ▼
<b>24V</b>	<b>300 Kg</b>	<b>Kit Light</b> ALFARISS300D-24V	■ ■	■				<b>30B007</b>
		<b>Kit Full</b> ALFARISS300D-24V	■ ■	■	■	■	■	<b>30B008</b>



# ayros

## Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 1200 Kg

Available in two versions: 24V and 230V



Built-in digital control unit

Housing of the backup battery (24V versions)

Painted aluminium casing

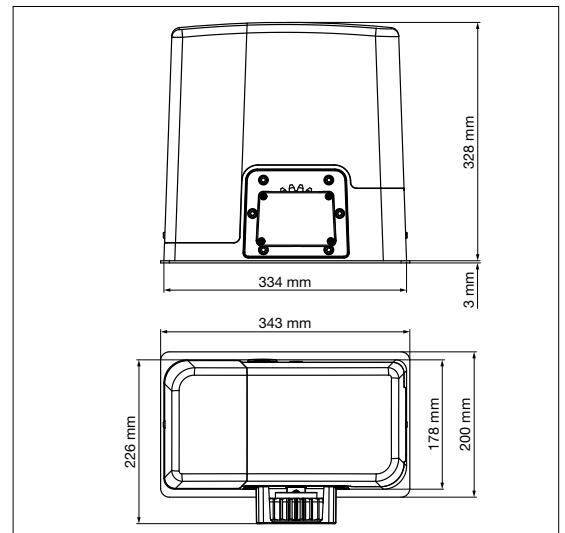


### PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time

#### 24V versions:

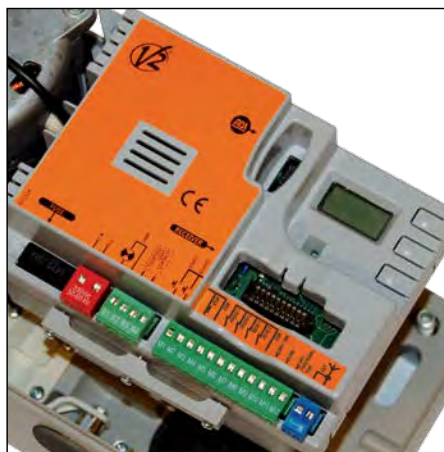
- Programmable acceleration and deceleration
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system



### TECHNICAL FEATURES

Description	24V gates up to 500 Kg fast motor	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg	230V gates up to 1200 Kg
<b>MODEL</b>	<b>AYROS 500D-24V-F</b>	<b>AYROS 600D-24V</b>	<b>AYROS 1000D-24V</b>	<b>AYROS 400D-230V</b>	<b>AYROS 800D-230V</b>	<b>AYROS 1200D-230V</b>
<b>CODE</b>	<b>23C052</b>	<b>23C034</b>	<b>23C035</b>	<b>23C031</b>	<b>23C032</b>	<b>23C033</b>
Gate maximum weight (Kg)	500	600	1000	400	800	1200
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	550	400	550	350	500	600
Full load current @ 230Vac (A)	2.5	2	2.5	1.7	2	2.6
Gate speed (m/s)	0.25 (@ 200N) 0.4 (unloaded)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16	0.16
Maximum thrust (N)	400	600	900	400	670	950
Duty cycle (%)	60	60	60	30	30	30
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	16	18	14	15	16
Protection degree (IP)	44	44	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	7	10	10	10

**CONTROL UNIT**



- Programming achieved using 3 program buttons and display
  - Plug-in adaptor for modular radio receiver MR2
  - 2 inputs for photocells with self-test function
  - 2 inputs for mechanical or resistive safety edges
  - Courtesy light output
  - Self-learning opening time and obstacle detection function
  - Operational cycle counter, with programmable maintenance reminders
  - Slow-down function in limit switch area
  - Slow start function during opening (programmable start-up rate)
  - ADI connector for connecting optional modules
- 24V versions**
- Output for flashing light 24V with or without intermittence
  - Energy Saving function to minimise consumption in stand-by mode
- 230V versions**
- Output for flashing light 230V with intermittence
  - Brake function with programmable power

 Electrical connections of the control unit on page 127

MOTORS FOR SLIDING GATES

**ACCESSORIES**



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



162330	162313	162329	162322	ACC009
Additional anchoring clamps	Nylon rack M4 - 6 attachments 1 m long with metallic insert	Galvanised metal rack 30x8 M4 1m long with fixing kit	Galvanised metal rack 30x12 M4 1m long with fixing kit	Warning sign



# ayros kit

Installation kit for sliding gates  
weighing up to 1000 Kg

Available with 24V and 230V motors

## COMPOSITION



**1** Irreversible electromechanical rack actuator motor reducer



**2** PHOX2  
433.92MHz rolling code transmitter



**3** MR2  
Plug-in module receiver



**4** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

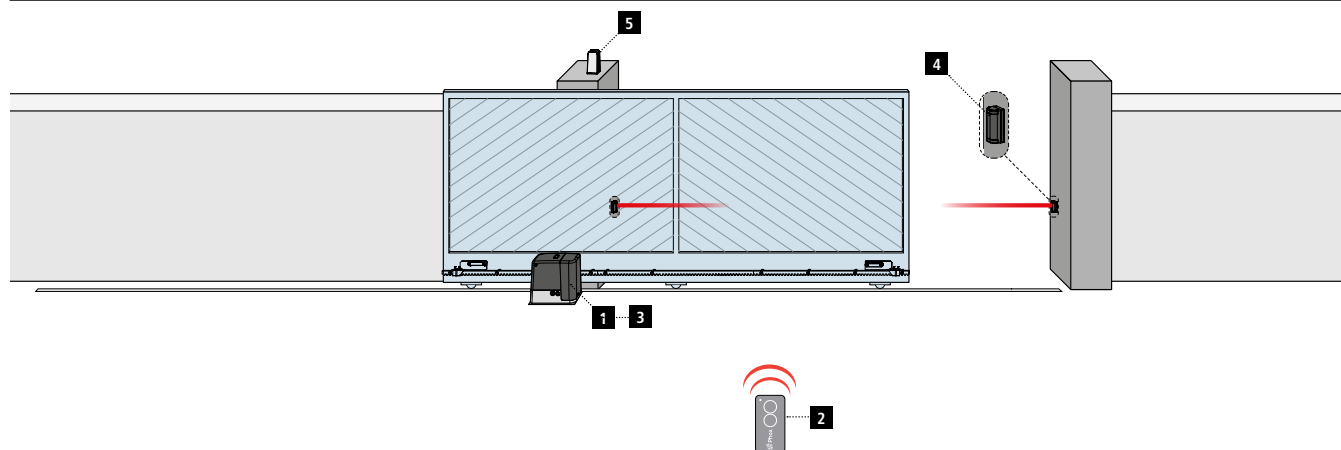


**5** LUMOS-M  
Led flashing light



**6** ACC009  
Warning sign

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section




**TECHNICAL FEATURES**

Description	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg
<b>MODEL</b>	<b>AYROS 600D-24V</b>	<b>AYROS 1000D-24V</b>	<b>AYROS 400D-230V</b>	<b>AYROS 800D-230V</b>
<b>CODE</b>	<b>23C034</b>	<b>23C035</b>	<b>23C031</b>	<b>23C032</b>
Gate maximum weight (Kg)	600	1000	400	800
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	400	550	350	500
Full load current @ 230Vac (A)	2	2.5	1.7	2
Gate speed (m/s)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16
Maximum thrust (N)	600	900	400	670
Duty cycle (%)	60	60	30	30
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	18	14	15
Protection degree (IP)	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	10	10

MOTORS FOR SLIDING GATES

**ayros kit**

**Selection guide**

		<b>Kit MODEL</b>						<b>Kit CODE</b>
			<b>PHOX2</b>	<b>MR2</b>	<b>SENSIVA-XS</b>	<b>LUMOS-M</b>	<b>ACC009</b>	
<b>24V</b>	<b>600 Kg</b>	<b>Kit Light</b> AYROS600D-24V	■ ■	■				30C072
		<b>Kit Full</b> AYROS600D-24V	■ ■	■	■	■	■	30C073
	<b>1000 Kg</b>	<b>Kit Light</b> AYROS1000D-24V	■ ■	■				30C074
		<b>Kit Full</b> AYROS1000D-24V	■ ■	■	■	■	■	30C075
<b>230V</b>	<b>400 Kg</b>	<b>Kit Light</b> AYROS400D-230V	■ ■	■				30C076
		<b>Kit Full</b> AYROS400D-230V	■ ■	■	■	■	■	30C077
	<b>800 Kg</b>	<b>Kit Light</b> AYROS800D-230V	■ ■	■				30C078
		<b>Kit Full</b> AYROS800D-230V	■ ■	■	■	■	■	30C079
	<b>1200 Kg</b>	<b>Kit Light</b> AYROS1200D-230V	■ ■	■				30C104
		<b>Kit Full</b> AYROS1200D-230V	■ ■	■	■	■	■	30C105



# forteco

## 230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

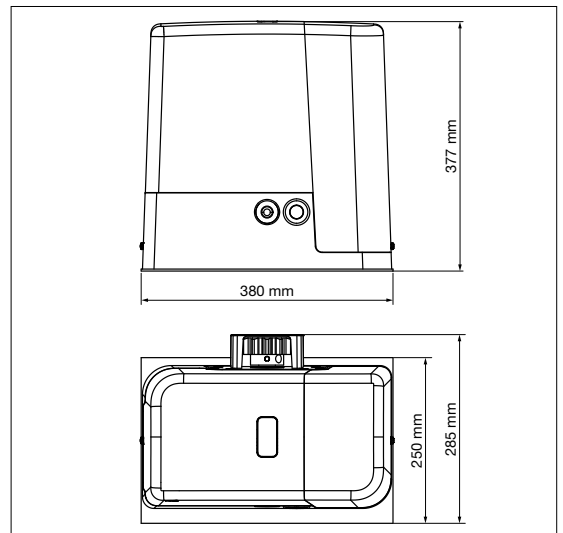


### PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

#### 2500-I version:

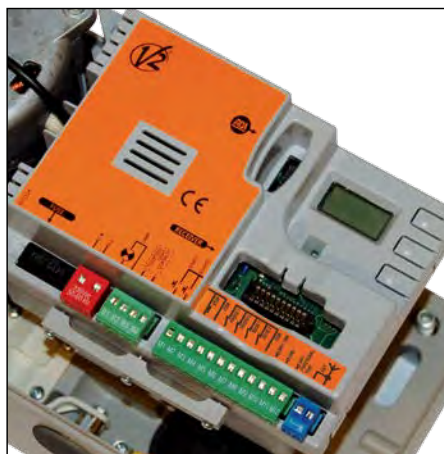
- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



### TECHNICAL FEATURES

Description	230V gates up to 1800 Kg	230V gates up to 2200 Kg	230V (inverter) gates up to 2500 Kg
<b>MODEL</b>	<b>FORTECO 1800-230V</b>	<b>FORTECO 2200-230V</b>	<b>FORTECO 2500-I</b>
<b>CODE</b>	<b>23E014</b>	<b>23E015</b>	<b>23E011</b>
Gate maximum weight (Kg)	1800	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	650	800	650
Full load current @ 230Vac (A)	3.2	4	3.7
Gate speed (m/s)	0.16	0.16	0.035 - 0.26
Maximum thrust (N)	1300	1550	1660
Duty cycle (%)	35	35	50
Pinion	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	20 ÷ +55
Motor weight (Kg)	18	18	19
Protection degree (IP)	44	44	44
Maximum load on 24 Vac accessories (W)	10	10	10

**CONTROL UNIT**



 Electrical connections of the control unit on page 127

- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

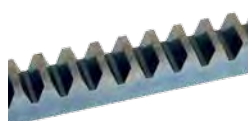
**2500-I version**

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

**ACCESSORIES**



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app



162322	162324	162323	MM017B	ACC009
Galvanised metal rack 30x12 M4 1m long with fixing kit	Galvanised metal rack 22x22 M4 1 m long	Galvanised metal rack 30x30 M6 1 m long	M6 pinion for 162323 rack	Warning sign





# forteco-m

## 230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

Aluminium cover

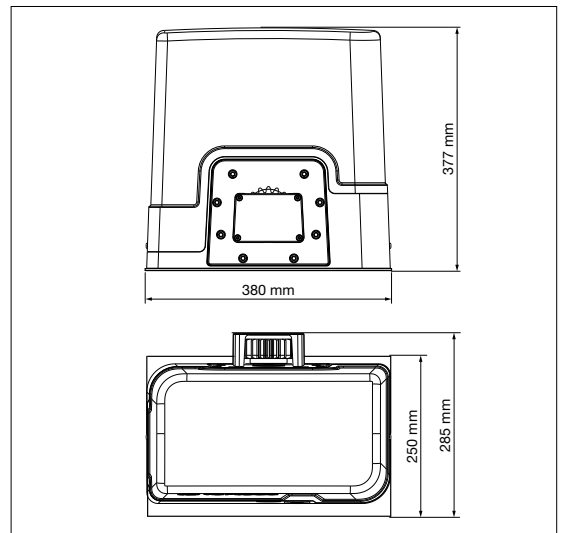


### PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

#### 2500-I version:

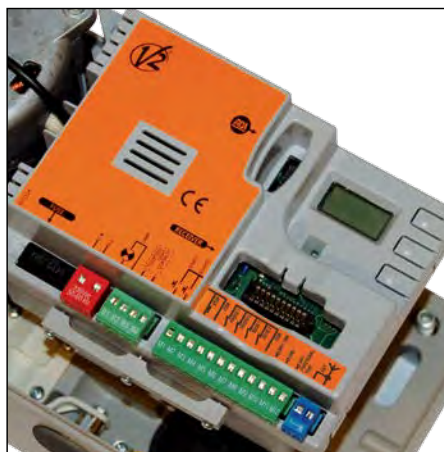
- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



### TECHNICAL FEATURES

Description	230V gates up to 2200 Kg Aluminium cover	230V (inverter) gates up to 2500 Kg Aluminium cover
<b>MODEL</b>	<b>FORTECO 2200-230V-M</b>	<b>FORTECO 2500-I-M</b>
<b>CODE</b>	<b>23E021</b>	<b>23E022</b>
Gate maximum weight (Kg)	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	800	650
Full load current @ 230Vac (A)	4	3.7
Gate speed (m/s)	0.16	0.035 - 0.26
Maximum thrust (N)	1550	1660
Duty cycle (%)	35	50
Pinion	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	20 ÷ +55
Motor weight (Kg)	20	21
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	10	10

CONTROL UNIT



 Electrical connections of the control unit on page 127

- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

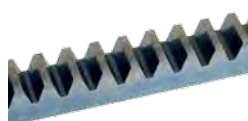
**2500-I version**

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app



162322	162324	162323	MM017B	ACC009
Galvanized metal rack 30x12 M4 1m long with fixing kit	Galvanized metal rack 22x22 M4 1 m long	Galvanized metal rack 30x30 M6 1 m long	M6 pinion for 162323 rack	Warning sign



# hyperfor

## Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 4000 Kg

Available in two versions  
**230V three-phase with inverter and 400V three-phase**



Built-in digital control unit

Galvanized painted sheet steel cabinet

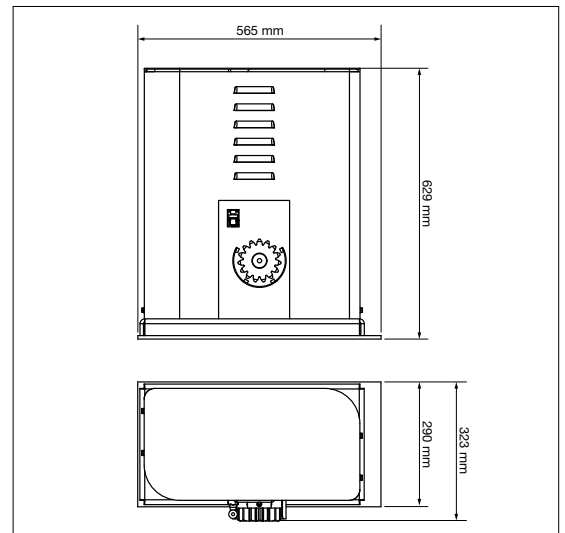


### PLUS

- Intensive operation even with large gates
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Possibility to adjust the gearmotor torque
- Industrial electromechanical limit switch and M6 pinion

#### 230V version with inverter:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



### TECHNICAL FEATURES

Description	230V three-phase with inverter gates up to 4000 Kg	400V three-phase gates up to 4000 Kg
<b>MODEL</b>	<b>HYPERFOR 4000-I</b>	<b>HYPERFOR 4000</b>
<b>CODE</b>	<b>23F003</b>	<b>23F004</b>
Gate maximum weight (Kg)	4000	4000
Power supply (Vac - Hz)	230 - 50	400 / 50
Maximum electric power (W)	1100	1100
Mechanical nominal power (W-HP)	750-1	750-1
Full load current (A)	5	2
Gate speed (m/s)	0.016 ÷ 0.32	0.16
Maximum thrust (N)	4800	4800
50% load duty cycle (%)	95	95
Pinion	M6-Z15	M6-Z15
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	35	35
Protection degree (IP)	55	55
Maximum load on 24 Vac accessories (W)	10	10

## CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Multilingual programming menu through 122x32 pixel graphic display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Three programmable relay outputs as lights, electric lock, warning light, electric brake or functioning test 12Vdc
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- ADI connector for connecting optional modules

### 230V version with INVERTER

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

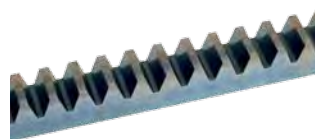
 Electrical connections of the control unit on page 125

- HYPERFOR 4000-I - HEAVY1 control unit
- HYPERFOR 4000 - HEAVY2 control unit

## ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCR0
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors



161221 ▪ BT01	162323	ACC009
ADI module for managing the control unit via Bluetooth and V2app	Galvanised metal rack 30x30 M6 1 m long	Warning sign

# Value to beauty

Classical beauty meets  
contemporary ease of use

A swing gate has always been an element able to add value to the charm of the house. Through the installation of a V2 motor, you add to the beauty of this type of gate the convenience of a safe and efficient automatic opening system.  
Make the most of your world.

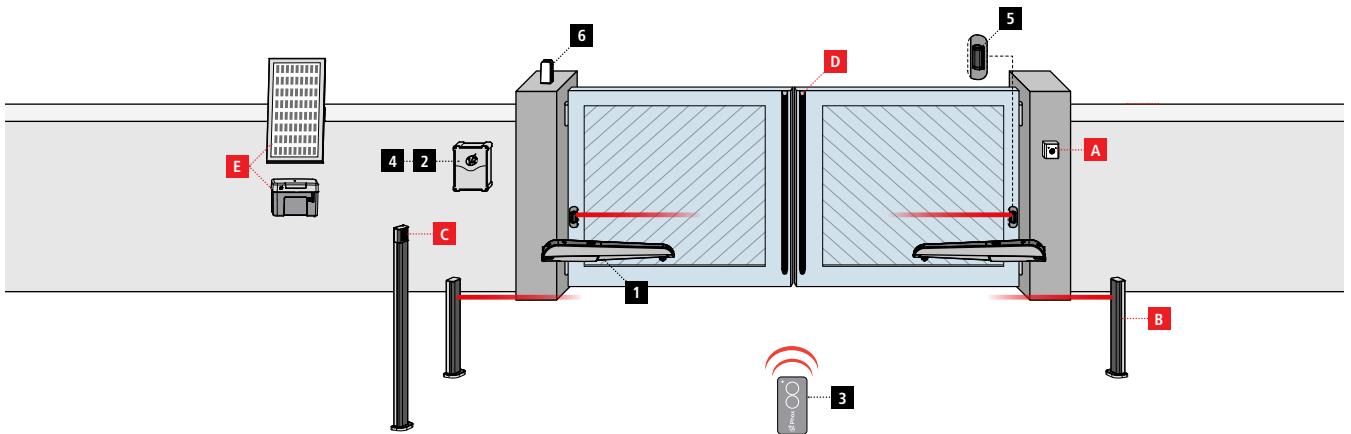
# MOTORS FOR **SWING GATES**



# EXAMPLE SYSTEM MOTORS FOR SWING GATES



42|67



## COMPONENTS

- 1** Motor
- 2** Control unit
- 3** Transmitter
- 4** Receiving module
- 5** Photocells
- 6** Flashing light

## ADDITIONAL ACCESSORIES

- A** Key switch
- B** Pillar photocells
- C** Pillar-mounted digital radio switch
- D** Safety edges
- E** ECO-LOGIC system

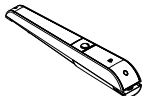
## CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
230V motor power supply	4G x 1.5 mm <sup>2</sup>	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>
24V motor power supply	2G x 1.5 mm <sup>2</sup>	2G x 1.5 mm <sup>2</sup>	2G x 2.5 mm <sup>2</sup>
Photocells (TX)	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Photocells (RX)	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Key switch	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Safety edges	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Flashing light	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>
Antenna (integrated into the flashing light)	RG174	RG174	RG174
ECO-LOGIC (accumulator unit)	2 x 1.5 mm <sup>2</sup>	-	-
ECO-LOGIC (solar panel)	2 x 1 mm <sup>2</sup>	-	-

# INDEX OF PRODUCTS MOTORS FOR SWING GATES



## Motors for EXTERNAL INSTALLATION

42|43 **axil** 

44|45 **axil kit**

46|47 **calypso** 

48|49 **calypso kit**

50|51 **bingo** 

52|53 **lycos** 

54|55 **ursus** 

56|57 **zariss** 

58|59 **zariss kit**

60|61 **ciclón** 

62|63 **blitz** 

## Motors for UNDERGROUND INSTALLATION

64|65 **vulcan** 

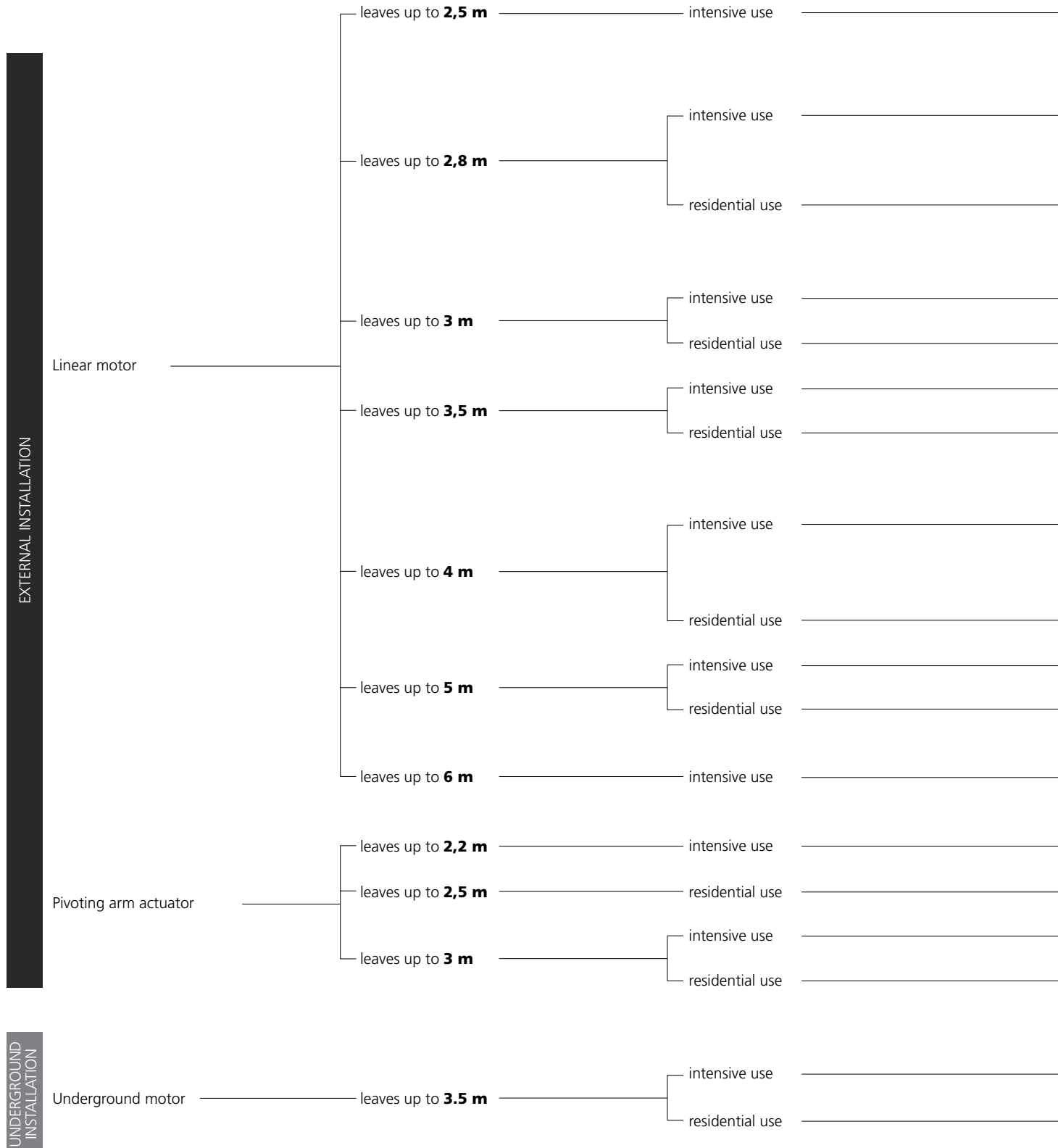
66|67 **vulcan kit**



# SELECTION GUIDE MOTORS FOR SWING GATES



42|67



24V	electromechanical	→	<b>calypso 400-24V</b>	46 47
230V	hydraulic reversible	→	<b>lycos -R</b>	52 53
	hydraulic irreversible	→	<b>lycos -I</b>	52 53
24V	electromechanical with encoder	→	<b>axil -24V</b>	42 43
230V	electromechanical	→	<b>axil</b>	42 43
	electromechanical with encoder	→	<b>axil -ECD</b>	42 43
	electromechanical with electrical limit switch	→	<b>axil -FC</b>	42 43
24V	electromechanical	→	<b>calypso 500-24V</b>	46 47
230V	electromechanical	→	<b>calypso 500-230V</b>	46 47
24V	electromechanical	→	<b>bingo 400-24V</b>	50 51
230V	electromechanical	→	<b>bingo 400</b>	50 51
230V	hydraulic reversible	→	<b>ursus -31</b>	54 55
	hydraulic reversible shock absorber in closing	→	<b>ursus -A31</b>	54 55
	hydraulic irreversible shock absorber in closing	→	<b>ursus -A33</b>	54 55
230V	electromechanical	→	<b>calypso 600-230V</b>	46 47
24V	electromechanical	→	<b>bingo 500-24V</b>	50 51
230V	electromechanical	→	<b>bingo 500</b>	50 51
230V	hydraulic reversible shock absorber in closing	→	<b>ursus -A41</b>	54 55
	hydraulic irreversible shock absorber in closing	→	<b>ursus -A43</b>	54 55
24V	electromechanical	→	<b>zariss</b>	56 57
230V	electromechanical	→	<b>ciclón</b>	60 61
24V	electromechanical	→	<b>blitz -24V</b>	62 63
230V	electromechanical	→	<b>blitz -230V</b>	62 63
24V	electromechanical	→	<b>vulcan -24V</b>	64 65
230V	electromechanical	→	<b>vulcan -230V</b>	64 65



# axil

## Irreversible electromechanical actuator

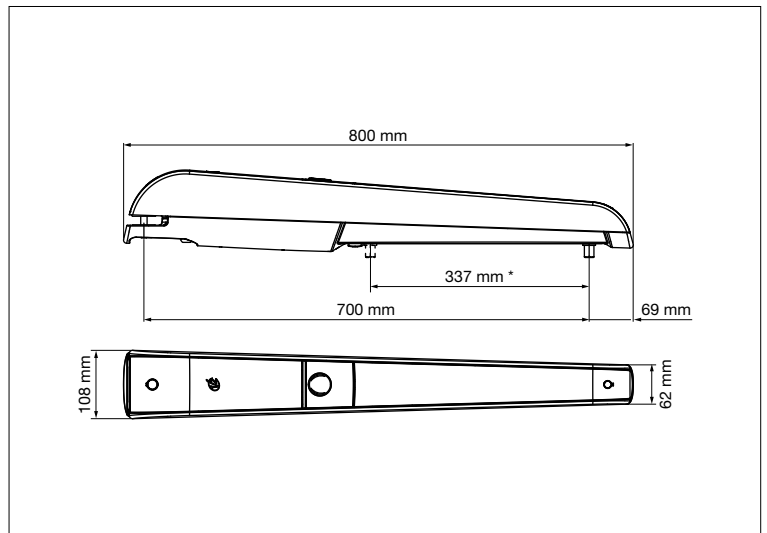
for swing gates with leaves up to 2.8 m in length

Available in two versions: **24V** and **230V**



### PLUS

- All the models in the Axil range are fitted with opening mechanical limit stop
- Practical wiring compartment
- Internal start capacitor
- Versions with encoder for accurate and safe operation
- Version with electrical limit switch in opening
- 24V version for intensive use



### TECHNICAL FEATURES

Description	230V opening mechanical stop	230V opening electrical limit switch	230V encoder	24V encoder	24V encoder fast motor
<b>MODEL</b>	<b>AXIL</b>	<b>AXIL-FC</b>	<b>AXIL-ECD</b>	<b>AXIL-24V</b>	<b>AXIL-24V-F</b>
<b>CODE</b>	<b>22J001</b>	<b>22J002</b>	<b>22J003</b>	<b>22J005</b>	<b>22J010</b>
Maximum leaf length (m)	2.8	2.8	2.8	2.8	2.8
Maximum leaf weight (Kg)	300	300	300	300	150
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	24 Vdc	24 Vdc
Idling current (A)	0.8	0.8	0.8	1.0	1.5
Full load current (A)	1.1	1.1	1.1	6.5	12
Maximum electric power (W)	230	230	230	-	-
Opening time of the leaf 0 ÷ 90° (s)	20	20	20	20	9
Maximum travel (mm)	350	350	350	350	350
Operating speed (m/s)	0.016	0.016	0.016	-	-
Maximum thrust (N)	1700	1700	1700	1700	1700
Working temperature (°C)	-30 ÷ +55	-30 ÷ +55	-30 ÷ +55	-30 ÷ +55	-30 ÷ +55
Protection degree (IP)	44	44	44	44	44
Duty cycle (%)	35	35	35	60	60
Motor weight (Kg)	7.5	7.5	7.5	7.5	7.5

**CONTROL UNITS TO BE USED**

M  
230V



M  
230V



M  
230V



**CITY1-EVO**

Digital control unit for 230V motors

**FLEXY2**

Analogue control unit for 230V motors

**CITY11**

Analogue control unit for 230V motors  
Output for 12V electrolock

M  
24V



**CITY2+L**

Digital control unit for 24V motors

**ACCESSORIES**



**162223**

Closing mechanical stop

**162224**

Front screw bracket

**162225**

Rear screw bracket

**ACC009**

Warning sign



# axil kit

Installation kit for swing gates  
with leaves up to 2.8 m long

Available with 24V and 230V motors

## COMPOSITION



**1** Irreversible electromechanical actuator



**2** CITY1-EVO  
Digital control unit for 230V motors



**2** CITY2+L  
Digital control unit for 24V motors



**3** PHOX2  
433.92MHz rolling code transmitter



**4** MR2  
Plug-in module receiver



**5** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

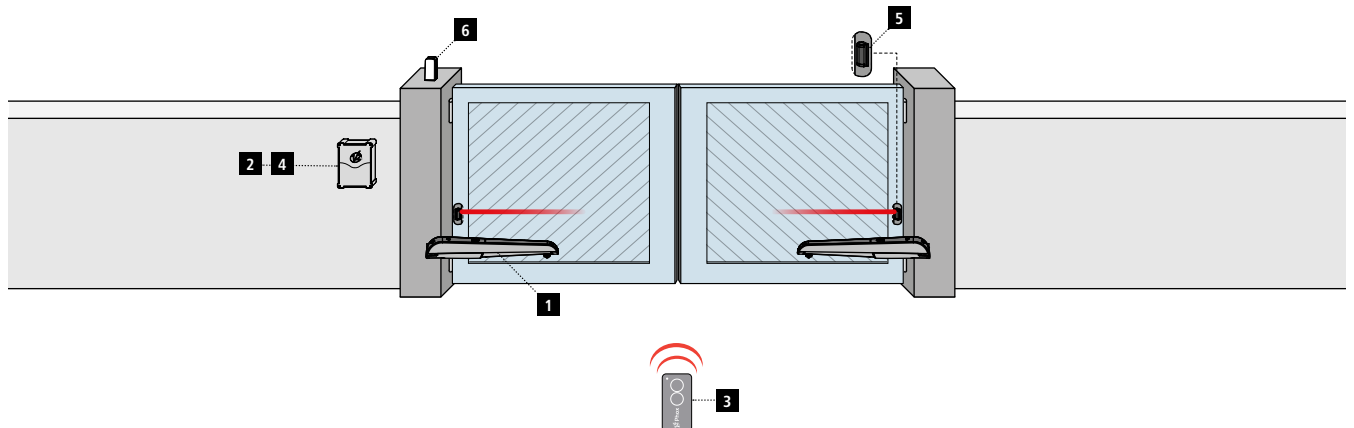


**6** LUMOS-M  
Led flashing light



**7** ACC009  
Warning sign

## ASSEMBLY DIAGRAM






To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	230V opening mechanical stop	24V encoder
<b>MODEL</b>	<b>AXIL</b>	<b>AXIL-24V</b>
<b>CODE</b>	<b>22J001</b>	<b>22J005</b>
Maximum leaf length (m)	2.8	2.8
Maximum leaf weight (Kg)	300	300
Power supply (Vac - Hz)	230 - 50	24 Vdc
Idling current (A)	0.8	1.0
Full load current (A)	1.1	8.0
Maximum electric power (W)	230	-
Opening time of the leaf 0 ÷ 90° (s)	20	20
Maximum travel (mm)	350	350
Operating speed (m/s)	0.016	0.02 - 0.012
Maximum thrust (N)	1700	1700
Working temperature (°C)	-30 ÷ +55	-30 ÷ +55
Protection degree (IP)	44	44
Duty cycle (%)	35	60
Motor weight (Kg)	7.5	7.5

MOTORS FOR SWING GATES

	<b>Kit MODEL</b> ▼	 <b>CONTROL UNIT</b>	 <b>PHOX2</b>	 <b>MR2</b>	 <b>SENSIVA-XS</b>	 <b>LUMOS-M</b>	 <b>ACC009</b>	<b>Kit CODE</b> ▼
230V	<b>Kit Light-E</b> AXIL-230V	<b>CITY1-EVO</b>	■ ■	■				29F021
	<b>Kit Full-E</b> AXIL-230V	<b>CITY1-EVO</b>	■ ■	■	■	■	■	29F022
24V	<b>Kit Light</b> AXIL-24V	<b>CITY2+L</b>	■ ■	■				29F015
	<b>Kit Full</b> AXIL-24V	<b>CITY2+L</b>	■ ■	■	■	■	■	29F016



# calypso

## Irreversible electromechanical actuator

for swing gates with leaves **up to 4 m in length**

Available in two versions: **24V and 230V**

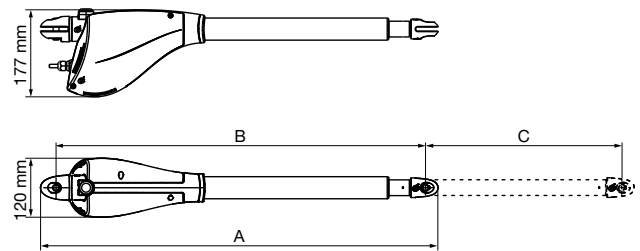


Stainless steel shaft

Die-cast aluminium frame

### PLUS

- Single version for both right and left leaves
- Practical release system
- 24V version for intensive use
- 400 version for leaves up to 2.5 m
- 500 version for leaves up to 3 m
- 600 version for leaves up to 4 m



	CALYPSO 400	CALYPSO 500	CALYPSO 600
A	819	944	1044
B	762	887	987
C	400	500	600

### TECHNICAL FEATURES

Description	230V for leaves up to 2.5 m	230V for leaves up to 3 m	230V for leaves up to 4 m	24V for leaves up to 2.5 m	24V for leaves up to 3 m
MODEL	CALYPSO 400	CALYPSO 500	CALYPSO 600	CALYPSO 400-24V	CALYPSO 500-24V
CODE	22G001	22G003	22G016	22G014	22G015
Maximum leaf length (m)	2.5	3	4	2.5	3
Maximum leaf weight (Kg)	400	500	500	300	400
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	24 Vdc	24 Vdc
Idling current (A)	0.8	0.8	0.8	0.5	0.5
Full load current (A)	1.2	1.2	1.2	6	6
Maximum electric power (W)	250	250	250	-	-
Opening time of the leaf 0 ÷ 90° (s)	22	25	30	22	27
Maximum travel (mm)	400	500	600	400	500
Operating speed (m/s)	0.016	0.016	0.016	0.015	0.015
Maximum thrust (N)	2300	2300	2300	1500	1500
Working temperature (°C)	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50
Protection degree (IP)	44	44	44	44	44
Duty cycle (%)	30	30	30	90	90
Motor weight (Kg)	6.5	6.8	7.1	6.3	6.6

**CONTROL UNITS TO BE USED**

M  
230V



M  
230V



M  
230V



**CITY1-EVO**

**Digital** control unit for **230V** motors

**FLEXY2**

**Analogue** control unit for **230V** motors

**CITY11**

**Analogue** control unit for **230V** motors  
Output for **12V** electrolock

M  
24V



**CITY2+L**

**Digital** control unit for **24V** motors

**ACCESSORIES**



**162237**

Kit of brackets to be screwed

**ACC009**

Warning sign





# calypso kit

Installation kit for swing gates  
with leaves up to 2.5 m long

Available with 24V and 230V motors

## COMPOSITION



**1**  
**Irreversible electromechanical actuator**



**2** CITY1-EVO  
Digital control unit for 230V motors



**2** FLEXY2  
Analogue control unit for 230V motors



**2** CITY2+L  
Digital control unit for 24V motors



**3** PHOX2  
433.92MHz rolling code transmitter



**4** MR2  
Plug-in module receiver



**5** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

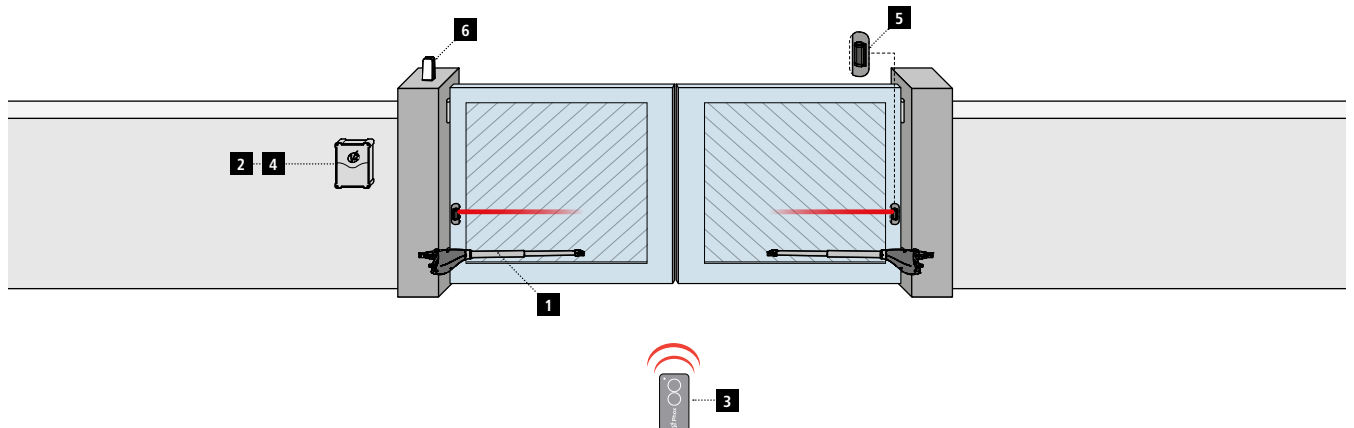


**6** LUMOS-M  
Led flashing light



**7** ACC009  
Warning sign

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

	230V for leaves up to 2.5 m	24V for leaves up to 2.5 m
MODEL	CALYPSO 400	CALYPSO 400-24V
CODE	22G001	22G014
Maximum leaf length (m)	2.5	2.5
Maximum leaf weight (Kg)	400	300
Power supply (Vac - Hz)	230 - 50	24 Vdc
Idling current (A)	0.8	0.5
Full load current (A)	1.2	6
Maximum electric power (W)	250	-
Opening time of the leaf 0 ÷ 90° (s)	22	22
Maximum travel (mm)	400	400
Operating speed (m/s)	0.016	0.015
Maximum thrust (N)	2300	1500
Working temperature (°C)	-30 ÷ +50	-30 ÷ +50
Protection degree (IP)	44	44
Duty cycle (%)	30	90
Motor weight (Kg)	6.5	6.3

MOTORS FOR SWING GATES

**calypso kit**

Selection guide

	Kit MODEL	CONTROL UNIT	PHOX2	MR2	SENSIVA-XS	LUMOS-M	ACC009	Kit CODE
230V	Kit Light-E CALYPSO-230V	CITY1-EVO	■ ■	■				29D044
	Kit Full-E CALYPSO-230V	CITY1-EVO	■ ■	■	■	■	■	29D045
	Kit Light-A CALYPSO-230V	FLEXY2	■ ■					29D029
	Kit Full-A CALYPSO-230V	FLEXY2	■ ■		■	■	■	29D030
24V	Kit Light CALYPSO-24V	CITY2+L	■ ■	■				29D033
	Kit Full CALYPSO-24V	CITY2+L	■ ■	■	■	■	■	29D034



# bingo

## Irreversible electromechanical actuator

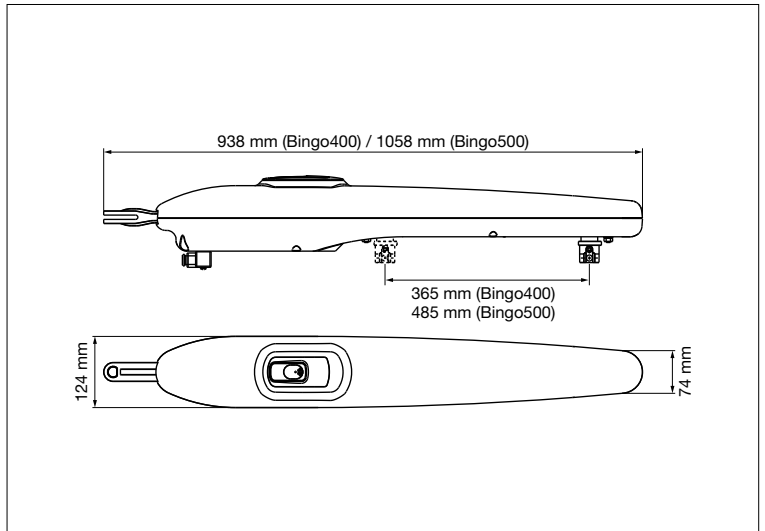
for swing gates with leaves up to 5 m in length

Available in two versions: **24V** and **230V**



### PLUS

- All the models are fitted with both opening and closing mechanical limit stop: side stops are no longer required on the gate
- Internal start capacitor
- 24V version for intensive use
- 400 version for leaves up to 2.5 m
- 500 version for leaves up to 3 m



### TECHNICAL FEATURES

Description	230V for leaves up to 3.5 m	230V for leaves up to 5 m	24V for leaves up to 3.5 m	24V for leaves up to 5 m
<b>MODEL</b>	<b>BINGO 400</b>	<b>BINGO 500</b>	<b>BINGO 400-24V</b>	<b>BINGO 500-24V</b>
<b>CODE</b>	<b>22B001</b>	<b>22B007</b>	<b>22B006</b>	<b>22B011</b>
Maximum leaf length (m)	3.5	5	3.5	5
Maximum leaf weight (Kg)	400	500	350	400
Power supply (Vac - Hz)	230 - 50	230 - 50	24 Vdc	24 Vdc
Idling current (A)	2	2	1.8	1.8
Full load current (A)	3.2	3.2	5	5
Maximum electric power (W)	480	480	-	-
Opening time of the leaf 0 ÷ 90° (s)	18	24	18	24
Maximum travel (mm)	365	485	365	485
Operating speed (m/s)	0.017	0.017	-	-
Maximum thrust (N)	1800	1800	1800	1800
Working temperature (°C)	-30 ÷ +60	-30 ÷ +60	-30 ÷ +60	-30 ÷ +60
Protection degree (IP)	34	34	34	34
Duty cycle (%)	30	30	80	80
Motor weight (Kg)	11	12	11	12

**CONTROL UNITS TO BE USED**

M  
230V



M  
230V



M  
230V



**CITY1-EVO**

Digital control unit for 230V motors

**FLEXY2**

Analogue control unit for 230V motors

**CITY11**

Analogue control unit for 230V motors  
Output for 12V electrolock

M  
24V



**CITY2+L**

Digital control unit for 24V motors

**ACCESSORIES**



**ACC009**

Warning sign

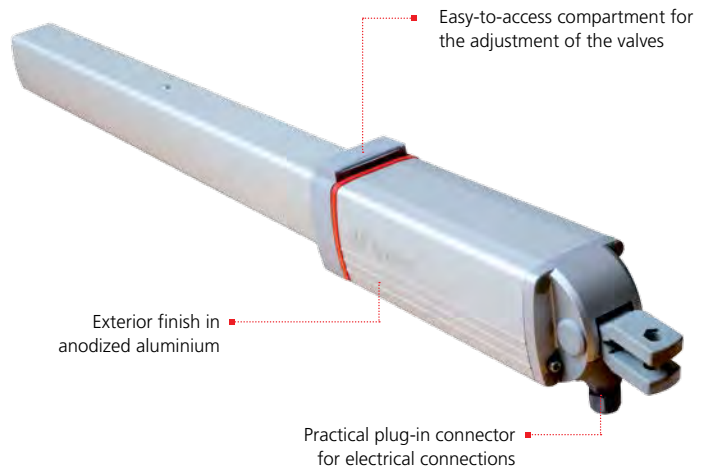


# lycos

## 230V hydraulic actuator

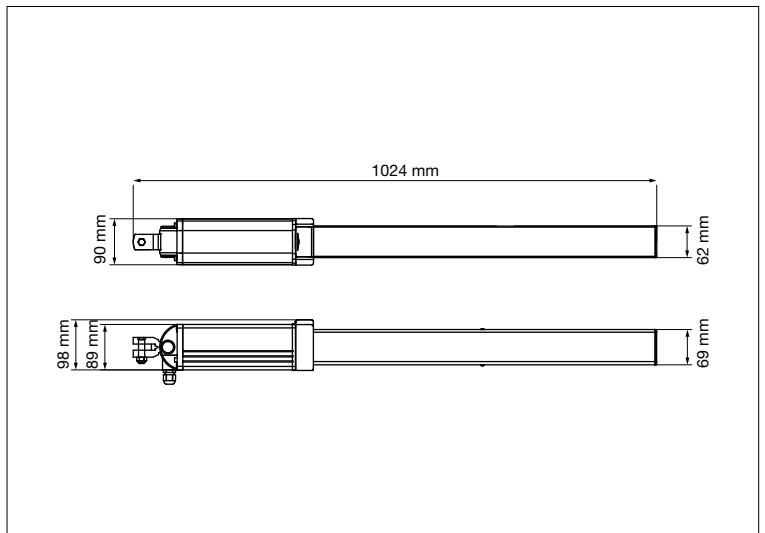
for swing gates with leaves **up to 2.5 m in length**

Available in two versions: **reversible** and **irreversible**



### PLUS

- Ideal for intensive use
- Single version for right and left leaf
- Reversible version and version with opening and closing lock
- Closure mechanic shock absorber
- Push and pull adjustment through adjustable valves



### TECHNICAL FEATURES

Description	230V reversible for leaves up to 2.5 m	230V irreversible for leaves up to 2.5 m
<b>MODEL</b>	<b>LYCOS-R</b>	<b>LYCOS-I</b>
<b>CODE</b>	<b>22D007</b>	<b>22D008</b>
Maximum leaf length (m)	2.5	2.5
Maximum leaf weight (Kg)	300	300
Power supply (Vac - Hz)	230 - 50	230 - 50
Full load current (A)	0.7	0.7
Maximum electric power (W)	160	160
Opening time of the leaf 0 ÷ 90° (s)	17	17
Maximum travel (mm)	265	265
Operating speed (m/s)	0.013	0.013
Maximum thrust (N)	3000	3000
Working temperature (°C)	-30 ÷ +60	-30 ÷ +60
Protection degree (IP)	54	54
Duty cycle (%)	75	75
Motor weight (Kg)	7.5	7.5

**CONTROL UNITS TO BE USED**



<b>CITY1-EVO</b>	<b>FLEXY2</b>	<b>CITY11</b>
Digital control unit for 230V motors	Analogue control unit for 230V motors	Analogue control unit for 230V motors Output for 12V electrolock

MOTORS FOR SWING GATES

**ACCESSORIES**



**ACC009**  
Warning sign

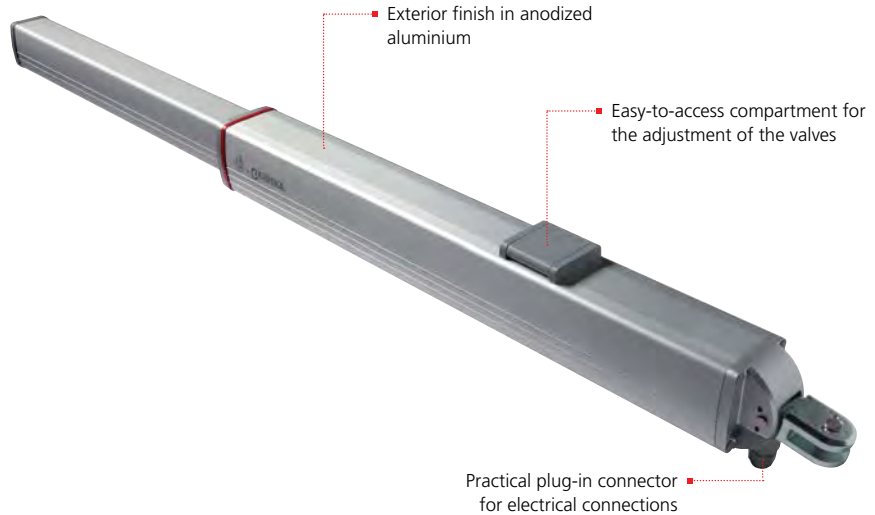


# ursus

## 230V hydraulic actuator

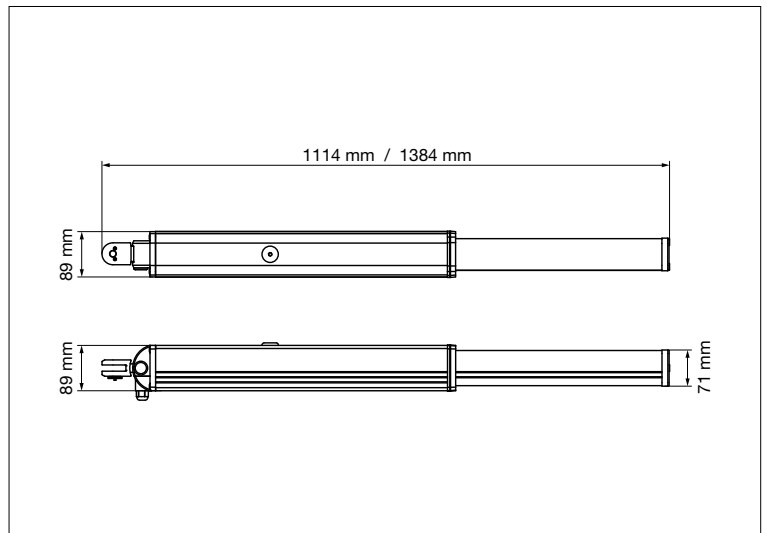
for swing gates with leaves up to 6 m in length

Available in two versions: reversible and irreversible



### PLUS

- Ideal for intensive use
- Single version for right and left leaf
- Reversible version and version with opening and closing lock
- Closure mechanic shock absorber
- Push and pull adjustment through adjustable valves



### TECHNICAL FEATURES

Description	230V reversible leaves up to 4 m	230V reversible leaves up to 4 m shock absorber in closing	230V irreversible leaves up to 4 m shock absorber in closing	230V reversible leaves up to 6 m shock absorber in closing	230V irreversible leaves up to 4 m shock absorber in closing
MODEL	URSUS-31	URSUS-A31	URSUS-A33	URSUS-A41	URSUS-A43
CODE	22D002	22D003	22D005	22D004	22D006
Maximum leaf length (m)	4	4	4	6	6
Maximum leaf weight (Kg)	700	700	700	700	700
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Full load current (A)	1	1	1	1	1
Maximum electric power (W)	230	230	230	230	230
Opening time of the leaf 0 ÷ 90° (s)	22	22	22	33	33
Maximum travel (mm)	265	265	265	400	400
Operating speed (m/s)	0.01	0.01	0.01	0.01	0.01
Maximum thrust (N)	7000	7000	7000	7000	7000
Working temperature (°C)	-30 ÷ +90	-30 ÷ +90	-30 ÷ +90	30 ÷ +90	-30 ÷ +90
Protection degree (IP)	65	65	65	65	65
Duty cycle (%)	100	100	100	100	100
Motor weight (Kg)	9.5	9.5	9.5	11	11

**CONTROL UNITS TO BE USED**



<b>CITY1-EVO</b>	<b>FLEXY2</b>	<b>CITY11</b>
Digital control unit for 230V motors	Analogue control unit for 230V motors	Analogue control unit for 230V motors Output for 12V electrolock

**ACCESSORIES**



**ACC009**  
Warning sign





# zariss

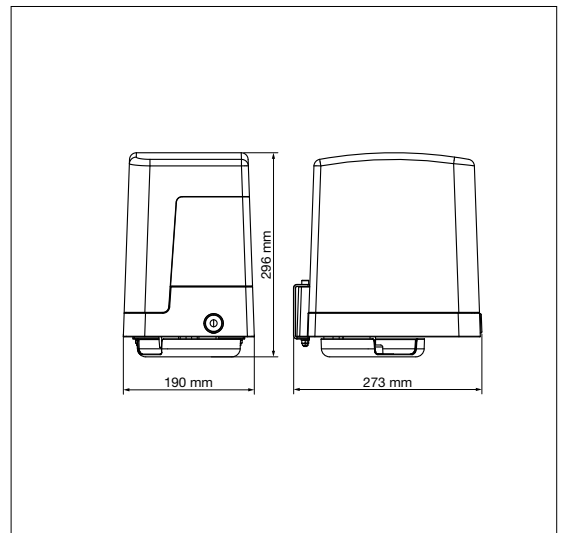
## 24V irreversible electromechanical pivoting arm actuator

for swing gates with leaves up to 2.2 m in length



### PLUS

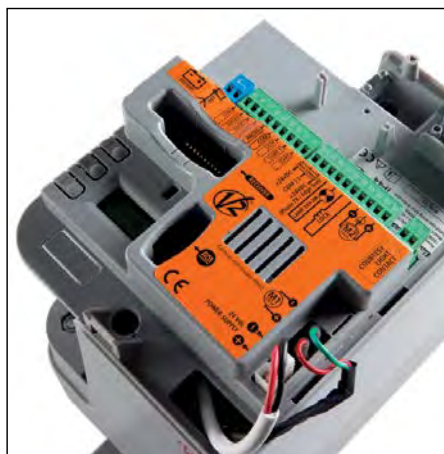
- Easy installation on pillars of medium / big dimensions
- Strong articulated anti-shearing arm in pressure die-cast aluminium
- Obstacle detection
- Programmable acceleration and deceleration
- Self-learning of opening and closing times
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system




### TECHNICAL FEATURES

Description	230V Pair of 24V motors (MASTER+SLAVE)	230V MASTER motor with control unit	24V SLAVE motor
<b>MODEL</b>	<b>ZARISS</b>	<b>ZARISS-M</b>	<b>ZARISS-S</b>
<b>CODE</b>	<b>22E005</b>	<b>22E006</b>	<b>22E007</b>
Maximum leaf length (m)	2.2	2.2	2.2
Maximum leaf weight (Kg)	250	250	250
Power supply (Vac - Hz)	230 - 50	230 - 50	24 Vdc
Maximum electric power (2 motors) (W)	180	-	-
Full load current (A)	-	0.4	3.5
Speed (Rpm)	1.1 ÷ 1.65	1.1 ÷ 1.65	1.1 ÷ 1.65
Torque (Nm)	180	180	180
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Working cycle (cycles/hour)	80	80	80
Motor weight (kg)	18	10	8
Protection degree (IP)	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	7

## CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 24V with or without intermittence
- Courtesy light output
- Energy Saving function to minimise consumption in stand-by mode
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slowing down in the limit switch area
- Soft start (programmable start-up rate)
- Monitoring of input status using the display
- ADI connector for connecting optional module

 Electrical connections of the control unit on page 128

## ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



### ACC009

Warning sign



# zariss kit

Installation kit for swing gates  
with leaves up to 2.2 m long

## COMPOSITION



**1** 24V irreversible electromechanical pivoting arm actuator



**2** PHOX2  
433.92MHz rolling code transmitter



**3** MR2  
Plug-in module receiver



**4** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

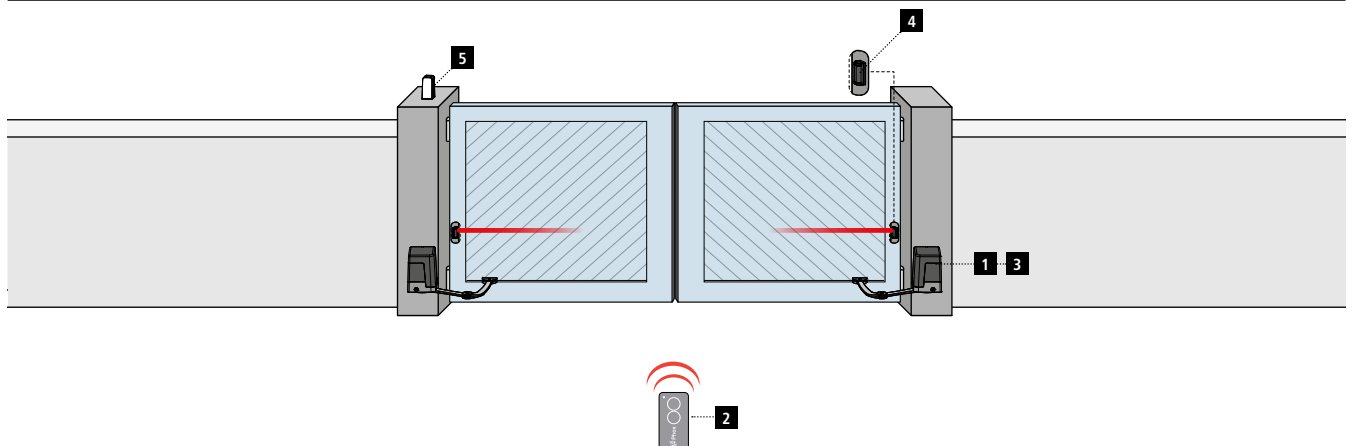


**5** LUMOS-M  
Led flashing light



**6** ACC009  
Warning sign

## ASSEMBLY DIAGRAM









To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	<b>230V</b> Pair of 24V motors (MASTER+SLAVE)
<b>MODEL</b>	<b>ZARISS</b>
<b>CODE</b>	<b>22E005</b>
Maximum leaf length (m)	2.2
Maximum leaf weight (Kg)	250
Power supply (Vac - Hz)	230 - 50
Maximum electric power (2 motors) (W)	180
Full load current (A)	-
Speed (Rpm)	1.1 ÷ 1.65
Torque (Nm)	180
Working temperature (°C)	-20 ÷ +55
Working cycle (cycles/hour)	80
Motor weight (kg)	18
Protection degree (IP)	44
Maximum load on 24 Vac accessories (W)	7

	<b>Kit MODEL</b> ▼	 <b>PHOX2</b>	 <b>MR2</b>	 <b>SENSIVA-XS</b>	 <b>LUMOS-M</b>	 <b>ACC009</b>	<b>Kit CODE</b> ▼
24V	<b>Kit Light</b> ZARISS-24V	■ ■	■				29E026
	<b>Kit Full</b> ZARISS-24V	■ ■	■	■	■	■	29E027



# ciclón

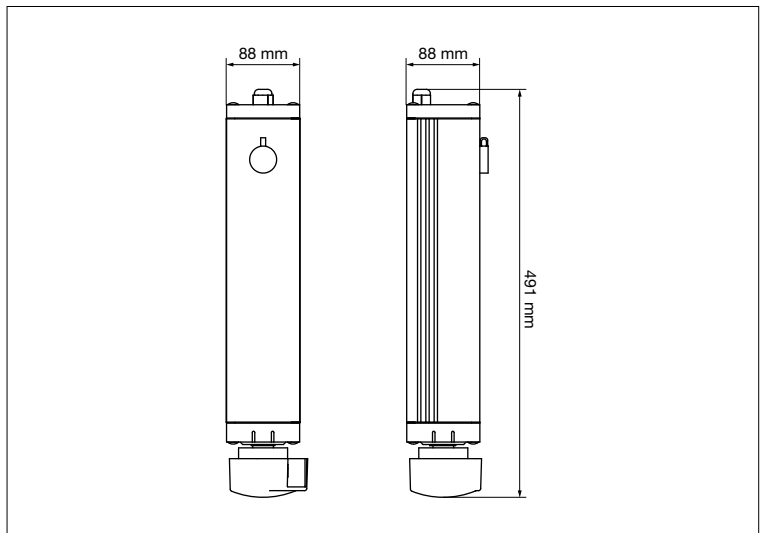
## 230V irreversible electromechanical pivoting arm

for swing gates with leaves up to 2.5 m in length



### PLUS

- Easy installation on small pillars
- Single version for both right and left leaves
- Built-in electro-brake
- Articulated anti-shearing arm in varnished steel
- Optional straight arm with sliding rail



### TECHNICAL FEATURES

Description	230V for leaves up to 2.5 m
<b>MODEL</b>	<b>CICLÓN</b>
<b>CODE</b>	<b>22E009</b>
Maximum leaf length (m)	2.5
Maximum leaf weight (Kg)	400
Power supply (Vac - Hz)	230 - 50
Nominal absorption (A)	1
Electrical nominal power (W)	230
Speed (Rpm)	1.3
Torque (Nm)	220
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54
Duty cycle (%)	20
Motor weight (Kg)	13

**CONTROL UNITS TO BE USED**



<b>CITY1-EVO</b>	<b>LUX2+</b>
Digital control unit for <b>230V motors</b>	ADI module for use with the CITY1-EVO unit to control the electro-brake

MOTORS FOR SWING GATES

**ACCESSORIES**



<b>162236</b>	<b>ACC009</b>
Straight arm with sliding rail	Warning sign



# blitz

## Irreversible electromechanical pivoting arm

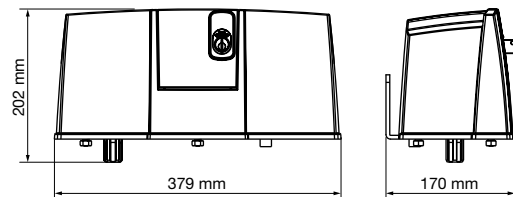
for swing gates with leaves up to 3 m in length

Available in two versions: **24V** and **230V**



### PLUS

- Single version for both right and left leaves
- 24V version for intensive use
- Internal release lever
- Integrated double electric limit switch
- Internal start capacitor
- Possibility of external release



### TECHNICAL FEATURES

Description	230V for leaves up to 3 m	24V for leaves up to 3 m
<b>MODEL</b>	<b>BLITZ-230V</b>	<b>BLITZ-24V</b>
<b>CODE</b>	<b>22E001</b>	<b>22E002</b>
Maximum leaf length (m)	3	3
Maximum leaf weight (Kg)	800	800
Power supply (Vac - Hz)	230 - 50	24 Vdc
Full load current (A)	2.5	7.5
Maximum electric power (W)	575	-
Speed (Rpm)	1.6	1.4 - 0.5
Torque (Nm)	340	320
Working temperature (°C)	-30 ÷ +60	-30 ÷ +60
Protection degree (IP)	44	44
Duty cycle (%)	20	80
Motor weight (Kg)	14.6	14.6

**CONTROL UNITS TO BE USED**

M  
230V



M  
230V



M  
230V



**CITY1-EVO**

Digital control unit for 230V motors

**FLEXY2**

Analogue control unit for 230V motors

**CITY11**

Analogue control unit for 230V motors.  
Output for 12V electrolock

M  
24V



**CITY2+L**

Digital control unit for 24V motors

**ACCESSORIES**



**162219**

External release kit with 4 m metallic wire

**ACC009**

Warning sign





# vulcan

## Irreversible electromechanical motor reducer for underground installation

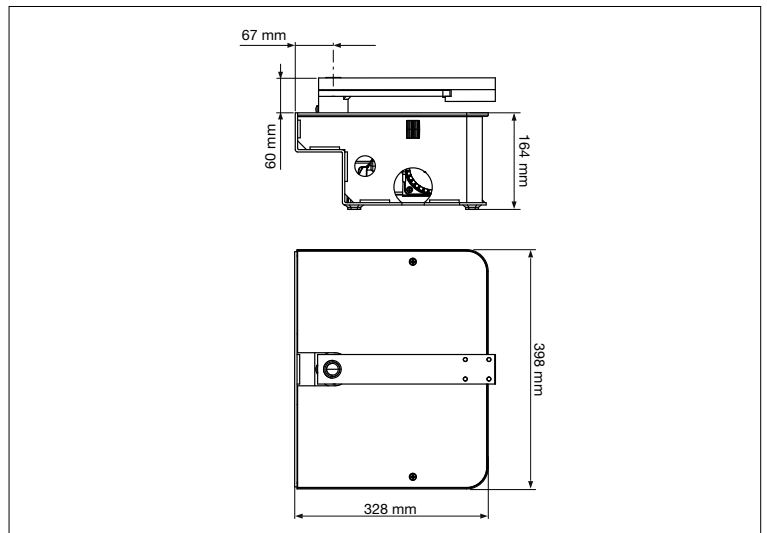
for swing gates with leaves up to 3.5 m in length

Available in two versions: 24V and 230V



### PLUS

- Sealed motor reducer
- Opening up to 110° with the levers supplied
- Opening up to 360° with the accessory lever (162218)
- 24V version with built-in encoder
- The special mounting holes allow Vulcan motors to be installed inside numerous existing models of foundation boxes
- Adjustable opening and closing mechanical stop



### TECHNICAL FEATURES

Description	230V for leaves up to 3.5 m (cable length 2 m)	230V for leaves up to 3.5 m (cable length 7 m)	24V for leaves up to 3.5 m (cable length 2 m)
<b>MODEL</b>	<b>VULCAN-230V</b>	<b>VULCAN-230V-7M</b>	<b>VULCAN-24V</b>
<b>CODE</b>	<b>22F003</b>	<b>22F008</b>	<b>22F005</b>
Maximum leaf length (m)	3,5	3,5	3,5
Maximum leaf weight (Kg)	800	800	600
Power supply (Vac - Hz)	230 - 50	230 - 50	24 Vdc
Full load current (A)	2,4	2,4	15
Maximum electric power (W)	550	550	-
Opening time of the leaf 0 ÷ 90° (s)	17	17	15 - 25
Maximum torque (Nm)	320	320	320
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Protection degree (IP)	67	67	67
Duty cycle (%)	30	30	80
Motor weight (Kg)	11	11	11,5

**CONTROL UNITS TO BE USED**

M  
230V



M  
230V



M  
230V



**CITY1-EVO**

**Digital** control unit for **230V** motors

**FLEXY2**

**Analogue** control unit for **230V** motors

**CITY11**

**Analogue** control unit for **230V** motors  
Output for **12V** electrolock

M  
24V



**CITY2+**

**Digital** control unit for **24V** motors

**ACCESSORIES**



**162233**

Cataphoresis-finished steel foundation box with 110° opening and release levers

**162243**

Stainless steel foundation box with 110° opening and release levers

**162218**

Lever unit for opening >110° + release lever

**162215**

Encoder

**ACC009**

Warning sign



# vulcan kit

Installation kit for swing gates  
with leaves up to 3.5 m long

Available with 24V and 230V motors

## COMPOSITION



**1** Irreversible electromechanical motor reducer + foundation box



**2** CITY1-EVO  
Digital control unit for 230V motors



**2** CITY2+  
Digital control unit for 24V motors



**3** PHOX2  
433.92MHz rolling code transmitter



**4** MR2  
Plug-in module receiver



**5** SENSIVA-XS  
Miniaturized wall-mounted and pillar-mounted photocells

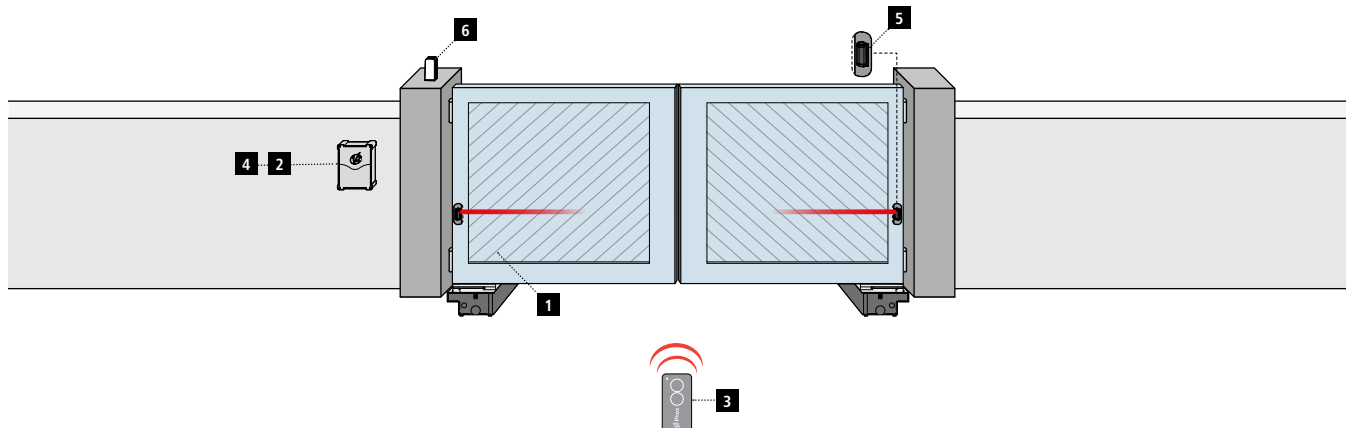


**6** LUMOS-M  
Led flashing light



**7** ACC009  
Warning sign

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	230V for leaves up to 3.5 m	24V for leaves up to 3.5 m
MODEL	VULCAN-230V	VULCAN-24V
CODE	22F003	22F005
Maximum leaf length (m)	3.5	3.5
Maximum leaf weight (Kg)	800	600
Power supply (Vac - Hz)	230 - 50	24 Vdc
Full load current (A)	2.4	15
Maximum electric power (W)	550	-
Opening time of the leaf 0 ÷ 90° (s)	17	15 - 25
Maximum torque (Nm)	320	320
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Protection degree (IP)	67	67
Duty cycle (%)	30	80
Motor weight (Kg)	11	11.5

MOTORS FOR SWING GATES

**vulcan kit**

Selection guide

	Kit MODEL ▼	 CONTROL UNIT	 PHOX2	 MR2	 SENSIVA-XS	 LUMOS-M	 ACC009	Kit CODE ▼
230V	<b>Kit Light-E</b> VULCAN-230V	CITY1-EVO	■ ■	■				29G015
	<b>Kit Full-E</b> VULCAN-230V	CITY1-EVO	■ ■	■	■	■	■	29G016
24V	<b>Kit Light</b> VULCAN-24V	CITY2+	■ ■	■				29G011
	<b>Kit Full</b> VULCAN-24V	CITY2+	■ ■	■	■	■	■	29G012

# Value to facility

Simplicity is made  
of small things

The safety and convenience of being able to directly access your garage without getting down of the car, the convenience of automatically operating a gate, without making any effort, are values that a V2 automation system adds to every day gestures.  
And you can no longer do without.

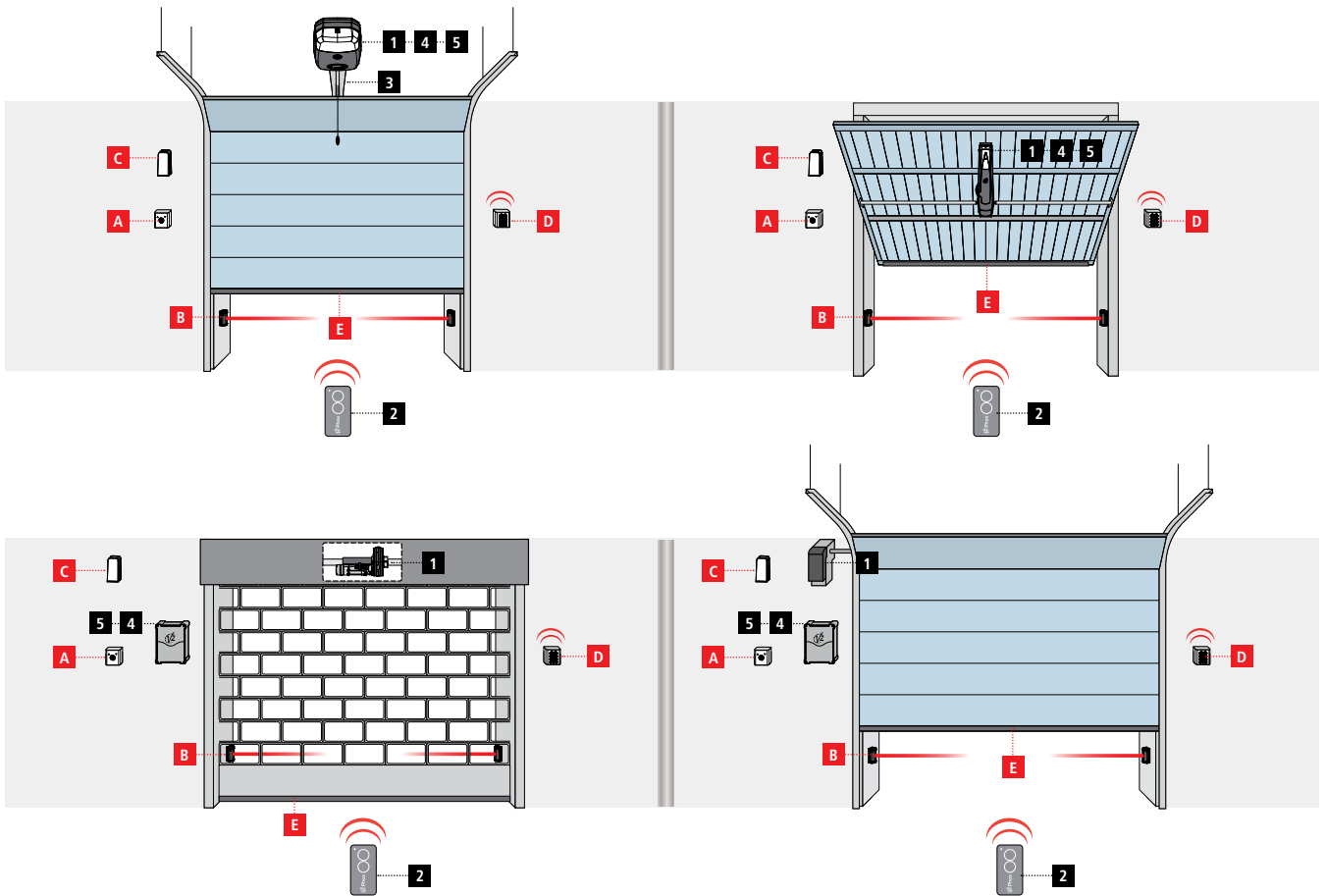
**MOTORS FOR GARAGE DOORS  
AND ROLLING SHUTTERS**



# EXAMPLE SYSTEM MOTORS FOR GARAGE DOORS AND ROLLING SHUTTERS



74|93



## COMPONENTS

- 1** Motor
- 2** Transmitter
- 3** Chain guide
- 4** Control unit
- 5** Receiving module

## ADDITIONAL ACCESSORIES

- A** Key switch
- B** Photocells
- C** Flashing light
- D** Digital radio switch
- E** Safety edges

## CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Power supply (400V)	4G x 1.5 mm <sup>2</sup>	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>
Photocells (TX)	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Photocells (RX)	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Key switch	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Safety edges	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Flashing light	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>
Antenna (integrated into the flashing light)	RG174	RG174	RG174

# INDEX OF PRODUCTS

## MOTORS FOR GARAGE DOORS AND ROLLING SHUTTERS



### Motors for RESIDENTIAL USE

74|75 **azimut**



76|77 **azimut kit**

78|79 **jedi**



80|81 **jedi kit**

82|83 **atris**



84|85 **atris kit**

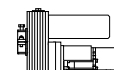
86|87 **vega**



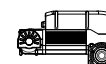
88|89 **vega kit**

### Motors for INDUSTRIAL USE

90|91 **argo**



92|93 **fm60**





# SELECTION GUIDE

## MOTORS FOR GARAGE DOORS AND ROLLING SHUTTERS



74|93

RESIDENTIAL USE

sectional and balanced doors — centre roof installation — 24V

balanced doors — centre door installation — 24V

230V

balanced rolling shutters — shaft Ø 60/48/42 - crown 200/220 mm — 230V

balanced rolling shutters — shaft Ø 101/76 - crown 240 mm — 230V

balanced rolling shutters — shaft Ø 101/76 - crown 240 mm — 230V

INDUSTRIAL USE

industrial sectional doors — shaft Ø 25,4 mm — 230V

400V

doors up to <b>8 m<sup>2</sup></b>	→	<b>azimut</b>	74 75
doors up to <b>10 m<sup>2</sup></b>	→	<b>jedi-700</b>	78 79
doors up to <b>10 m<sup>2</sup></b>	→	<b>atris-700</b>	82 83
doors up to <b>15 m<sup>2</sup></b>	→	<b>jedi-1000</b>	78 79
doors up to <b>15 m<sup>2</sup></b>	→	<b>atris-1000</b>	82 83
doors up to <b>9 m<sup>2</sup></b>	→	<b>vega-24V</b>	86 87
doors up to <b>14 m<sup>2</sup></b> (2-motor installation)	→	<b>vega-24V</b>	86 87
doors up to <b>9 m<sup>2</sup></b>	→	<b>vega-C 230V</b>	86 87
doors up to <b>14 m<sup>2</sup></b> (2-motor installation combined with VEGA-C 230V)	→	<b>vega -230V</b>	86 87
rolling shutters up to <b>160 Kg</b>	without electro-brake →	<b>argo 160</b>	90 91
	with electro-brake →	<b>argo 160-FR</b>	90 91
rolling shutters up to <b>170 Kg</b>	without electro-brake →	<b>argo 170</b>	90 91
	with electro-brake →	<b>argo 170-FR</b>	90 91
rolling shutters up to <b>300 Kg</b>	without electro-brake →	<b>argo 300</b>	90 91
	with electro-brake →	<b>argo 300-FR</b>	94 95
industrial doors up to <b>20 m<sup>2</sup></b>	→	<b>fm60 m</b>	92 93
industrial doors up to <b>20 m<sup>2</sup></b>	→	<b>fm60 t</b>	92 93



# azimut

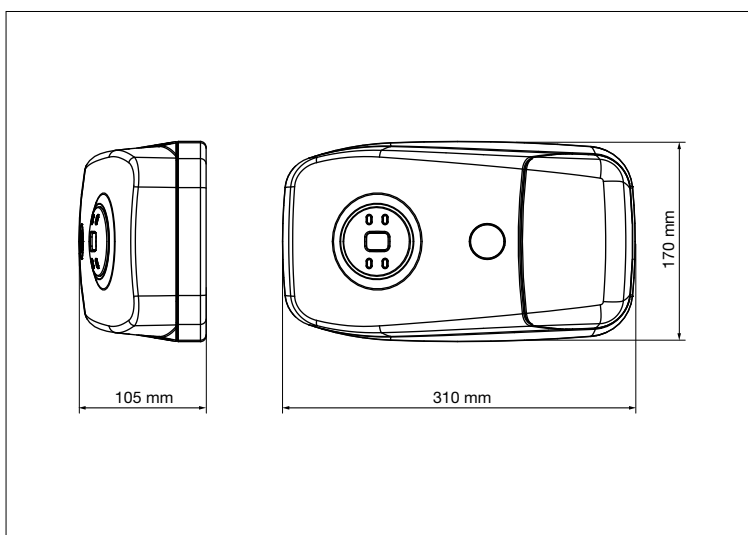
## 24V electromechanical irreversible actuator

for sectional and balanced doors  
**up to 8 m<sup>2</sup>**  
 Maximum force **500 N (50 Kg)**



### PLUS

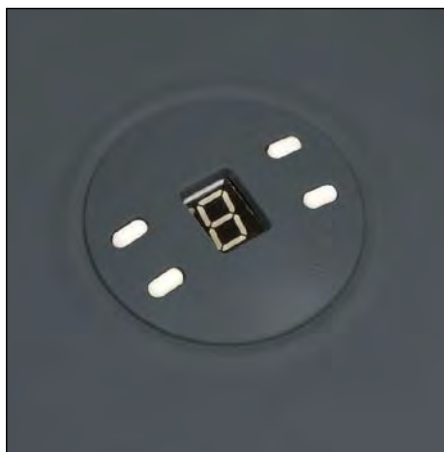
- Accurate and safe operation with encoder
- Sound signalling during automatic closing
- External control keypad and led display for easy changing of the control unit functions
- Silent operation: chain conveying system on galvanized steel rail



### TECHNICAL FEATURES

Description	24V maximum force 500N
<b>MODEL</b>	<b>AZIMUT</b>
<b>CODE</b>	<b>25B005</b>
Power supply (Vac - Hz)	230 - 50
Maximum electric power (W)	100
Door area (m <sup>2</sup> )	< 8
Start force (N)	500
Nominal force (N)	350
Average speed (cm/s)	11
Lamp (W)	25
Working temperature (°C)	-20 ÷ +40
Duty cycle (%)	30
Protection degree (IP)	20
Motor weight (Kg)	10

## CONTROL UNIT



- Programming via 4 buttons and display
- Input for photocells
- Input for an external start button
- 433.92 MHz built-in receiver allowing the use of Personal Pass series transmitters
- Possibility to store up to 15 transmitters
- Self-learning of times, slow-downs and forces both in opening and closing phase
- Amperometric sensor obstacle detection function with programmable threshold

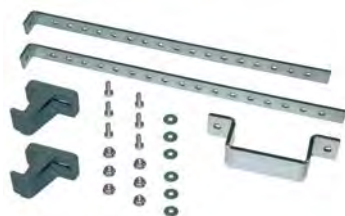
 Electrical connections of the control unit on page 128

## PRE-ASSEMBLED CHAIN GUIDE



CODE	LENGTH	MAXIMUM DOOR HEIGHT	
		Sectional or spring balanced door	Counterweight balanced door
<b>163202</b>	3 m (2 x 1.5 m)	2240 mm	2450 mm
<b>163204</b>	3.3 m (2 x 1.65 m)	2540 mm	2800 mm
<b>163205</b>	3.6 m (2 x 1.8 m)	2840 mm	3100 mm
<b>163201</b>	3 m (1 x 3 m)	2240 mm	2450 mm

## ACCESSORIES



<b>162504</b> Adaptor bracket for counterweight balanced doors	<b>163203</b> Additional fixing support	<b>162518</b> External release kit with key
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# azimut kit

Installation kit for sectional and balanced doors **up to 8 m<sup>2</sup>**

## COMPOSITION



**1**  
**Electromechnical irreversible actuator**

## **2** PRE-ASSEMBLED CHAIN GUIDE

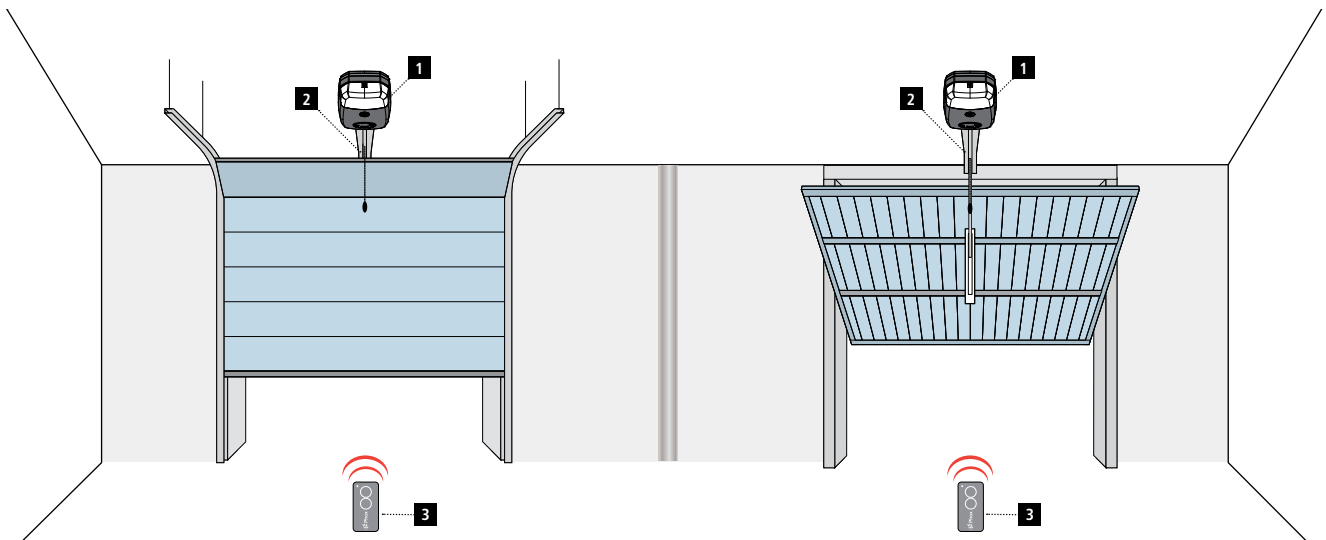


CODE	LENGTH	MAXIMUM DOOR HEIGHT	
		Sectional or spring balanced door	Counterweight balanced door
<b>163204</b>	3.3 m (2 x 1.65 m)	2540 mm	2800 mm
<b>163201</b>	3 m (1 x 3 m)	2240 mm	2450 mm



**3** **PHOX2**  
433.92MHz rolling code transmitter

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	<b>24V</b> maximum force <b>500N</b>
<b>MODEL</b>	<b>AZIMUT</b>
<b>CODE</b>	<b>25B005</b>
Power supply (Vac - Hz)	230 - 50
Maximum electric power (W)	100
Door area (m <sup>2</sup> )	< 8
Start force (N)	500
Nominal force (N)	350
Average speed (cm/s)	11
Lamp (W)	25
Working temperature (°C)	-20 ÷ +40
Duty cycle (%)	30
Protection degree (IP)	20
Motor weight (Kg)	10

**azimut kit**

Selection guide

	<b>Kit MODEL</b> ▼	 <b>163204 (2 x 1.65 m)</b>	 <b>163201 (1 x 3 m)</b>	 <b>PHOX2</b>	<b>Kit CODE</b> ▼
24V	<b>Kit AZIMUT 1</b>		■	■ ■	32B011
	<b>Kit AZIMUT 2</b>	■		■ ■	32B012



# jedi

## 24V electromechanical irreversible actuator

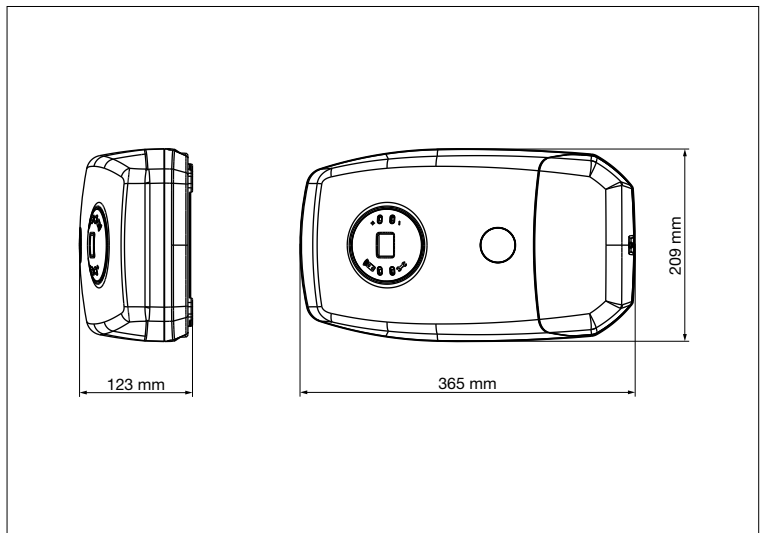
for sectional and balanced doors  
**up to 15 m<sup>2</sup>**  
 Maximum force **1000 N (100 Kg)**

Available in two versions:  
**700 N and 1000 N**



### PLUS

- Accurate and safe operation with encoder
- Sound signalling during automatic closing
- External control keypad and led display for easy changing of the control unit functions
- Silent operation: conveying system (chain or belt) on galvanized steel rail




### TECHNICAL FEATURES

Description	24V maximum force 700N	24V maximum force 1000N
MODEL	JEDI-700	JEDI-1000
CODE	25C011	25C012
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	100	160
Door area (m <sup>2</sup> )	< 10	< 15
Start force (N)	700	1000
Nominal force (N)	550	850
Average speed (cm/s)	11	11
Working temperature (°C)	-20 ÷ +40	-20 ÷ +40
Duty cycle (%)	30	30
Protection degree (IP)	20	20
Motor weight (Kg)	12	12

## CONTROL UNIT



- Programming via 4 buttons and display
- Input for photocells
- Input for an external start button
- Input for an external stop button
- Output for flashing light 24V with intermittence
- 433.92 MHz built-in receiver allowing the use of Personal Pass series transmitters
- Possibility to store up to 15 transmitters
- Self-learning of times, slow-downs and forces both in opening and closing phase
- Amperometric sensor obstacle detection function with programmable threshold

 Electrical connections of the control unit on page 128

## PRE-ASSEMBLED GUIDE



CODE	TYPE	LENGTH	MAXIMUM DOOR HEIGHT	
			Sectional or spring balanced door	Counterweight balanced door
<b>162519</b>	chain	3 m (1 x 3 m)	2200 mm	2500 mm
<b>162520</b>	chain	3.3 m (1 x 3.3 m)	2500 mm	2800 mm
<b>162528</b>	chain	3.3 m (2 x 1.65 m)	2500 mm	2800 mm
<b>162522</b>	chain	3.8 m (1 x 3.8 m)	3000 mm	3300 mm
<b>162531</b>	belt	3.3 m (1 x 3.3 m)	2500 mm	2800 mm

## ACCESSORIES



**162504**

Adaptor bracket for counterweight balanced doors



**162518**

External release kit with key





# jedi kit

Installation kit for sectional and balanced doors up to 15 m<sup>2</sup>

## COMPOSITION



**1**  
**Electromechanical irreversible actuator**

## **2** PRE-ASSEMBLED CHAIN GUIDE

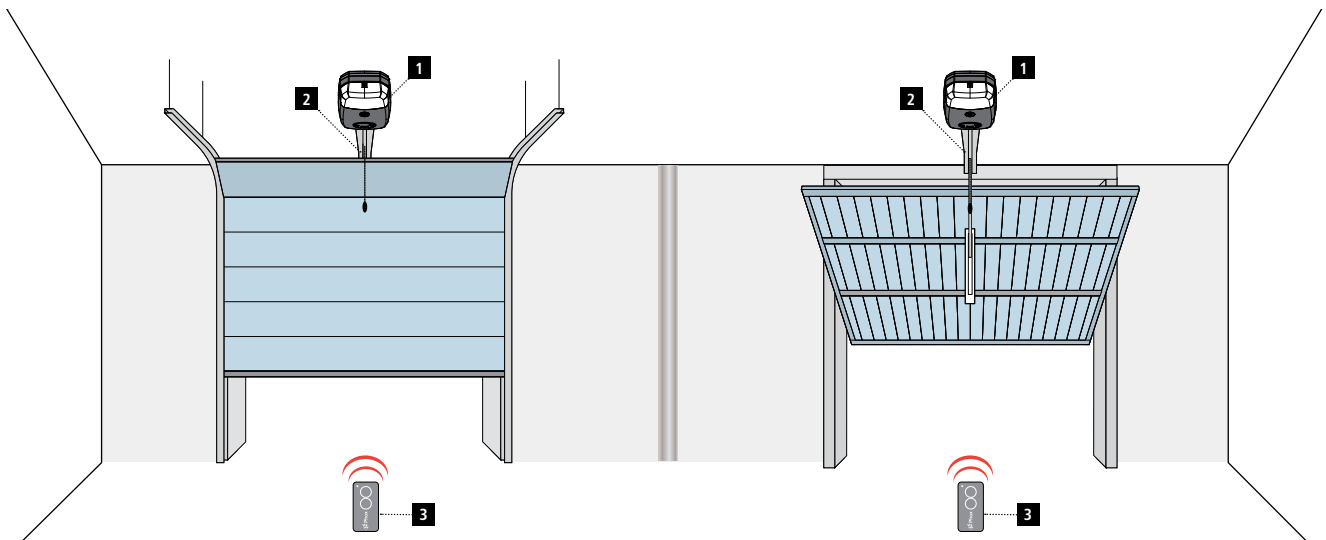


CODE	LENGTH	MAXIMUM DOOR HEIGHT	
		Sectional or spring balanced door	Counterweight balanced door
<b>162520</b>	3.3 m (1 x 3.3 m)	2500 mm	2800 mm
<b>162528</b>	3.3 m (2 x 1.65 m)	2500 mm	2800 mm



**3** **PHOX2**  
433.92MHz rolling code transmitter

## ASSEMBLY DIAGRAM







To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	24V maximum force 700N	24V maximum force 1000N
MODEL	JEDI-700	JEDI-1000
CODE	25C011	25C012
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	100	160
Door area (m <sup>2</sup> )	< 10	< 15
Start force (N)	700	1000
Nominal force (N)	550	850
Average speed (cm/s)	11	11
Working temperature (°C)	-20 ÷ +40	-20 ÷ +40
Duty cycle (%)	30	30
Protection degree (IP)	20	20
Motor weight (Kg)	12	12

	Kit MODEL ▼	 162520 (1 x 3.3 m)	 162528 (2 x 1.65 m)	 PHOX2	Kit CODE ▼
24V	Kit JEDI-700 1	■		■ ■	32B013
	Kit JEDI-700 2		■	■ ■	32B014
	Kit JEDI-1000 1	■		■ ■	32B015
	Kit JEDI-1000 2		■	■ ■	32B016



# atris

## 24V electromechanical irreversible actuator

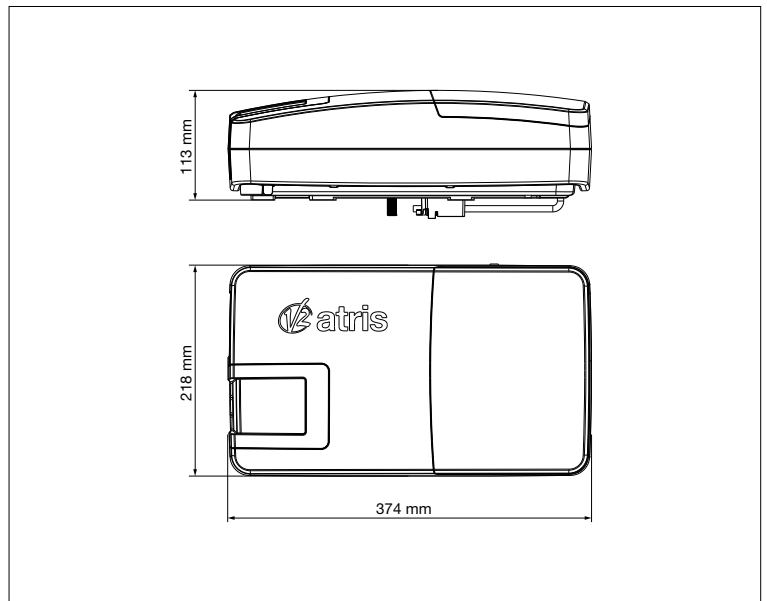
for sectional and balanced doors  
**up to 15 m<sup>2</sup>**  
 Maximum force **1000 N (100 Kg)**

Available in two versions:  
**700 N and 1000 N**



### PLUS

- Accurate and safe operation with encoder
- Sound signalling during automatic closing
- Control panel with keypad and LCD display
- Compartment of connections protected by a lid
- Integrated LED courtesy light (400 lm), expandable to 1200 lm with the accessory module 162532
- Minimum consumption in stand-by (<0.5 Wh)
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system (ATRIS-700-BC model)



### TECHNICAL FEATURES

Description	24V maximum force 700N	24V maximum force 700N compatible with ECO-LOGIC	24V maximum force 1000N
<b>MODEL</b>	<b>ATRIS-700</b>	<b>ATRIS-700-BC</b>	<b>ATRIS-1000</b>
<b>CODE</b>	<b>25C015</b>	<b>25C017</b>	<b>25C016</b>
Power supply (Vac - Hz)	230 - 50	24 Vdc	230 - 50
Maximum electric power (W)	100	100	160
Consumption in stand-by (Wh)	< 0,5	-	< 0,5
Door area (m <sup>2</sup> )	< 10	< 10	< 15
Start force (N)	700	700	1000
Nominal force (N)	550	550	850
Maximum speed (cm/s)	12	12	12
Working temperature (°C)	-20 ÷ +40	-20 ÷ +40	-20 ÷ +40
Duty cycle (%)	30	30	30
Protection degree (IP)	20	20	20
Motor weight (Kg)	12	12	12

## CONTROL UNIT



- Programming via 4 buttons and display
- Quick menu for easy programming of the device
- Plug-in adaptor for modular radio receiver MR2
- Input for photocells or safety edges
- Input for an external start button
- Input for an external stop button
- Output for flashing light 24V with intermittence
- Self-learning of times, slow-downs and forces both in opening and closing phase
- Obstacle detection function
- ADI connector for connecting optional modules









 Electrical connections of the control unit on page 129

## PRE-ASSEMBLED GUIDE



CODE	TYPE	LENGTH	MAXIMUM DOOR HEIGHT	
			Sectional or spring balanced door	Counterweight balanced door
162519	chain	3 m (1 x 3 m)	2200 mm	2500 mm
162520	chain	3.3 m (1 x 3.3 m)	2500 mm	2800 mm
162528	chain	3.3 m (2 x 1.65 m)	2500 mm	2800 mm
162522	chain	3.8 m (1 x 3.8 m)	3000 mm	3300 mm
162531	belt	3.3 m (1 x 3.3 m)	2500 mm	2800 mm

## ACCESSORIES

				
<b>11B047 ▪ MR2</b> 433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	<b>161213 ▪ CL1+</b> ADI module to block and copy the programming of the control unit	<b>161217 ▪ LUX2+</b> ADI module for the management of lights, traffic light or electro-brake	<b>161221 ▪ BT01</b> ADI module for managing the control unit via Bluetooth and V2app	<b>162532 ▪ L1200</b> Light module of 1200 lm
				
<b>161212 ▪ B-PACK</b> Backup battery with built-in charger	<b>162504</b> Adaptor bracket for counterweight balanced doors	<b>162518</b> External release kit with key		



# atris kit

Installation kit for sectional and balanced doors up to 15 m<sup>2</sup>

## COMPOSITION



**1** Electromechanical irreversible actuator

## 2 PRE-ASSEMBLED CHAIN GUIDE

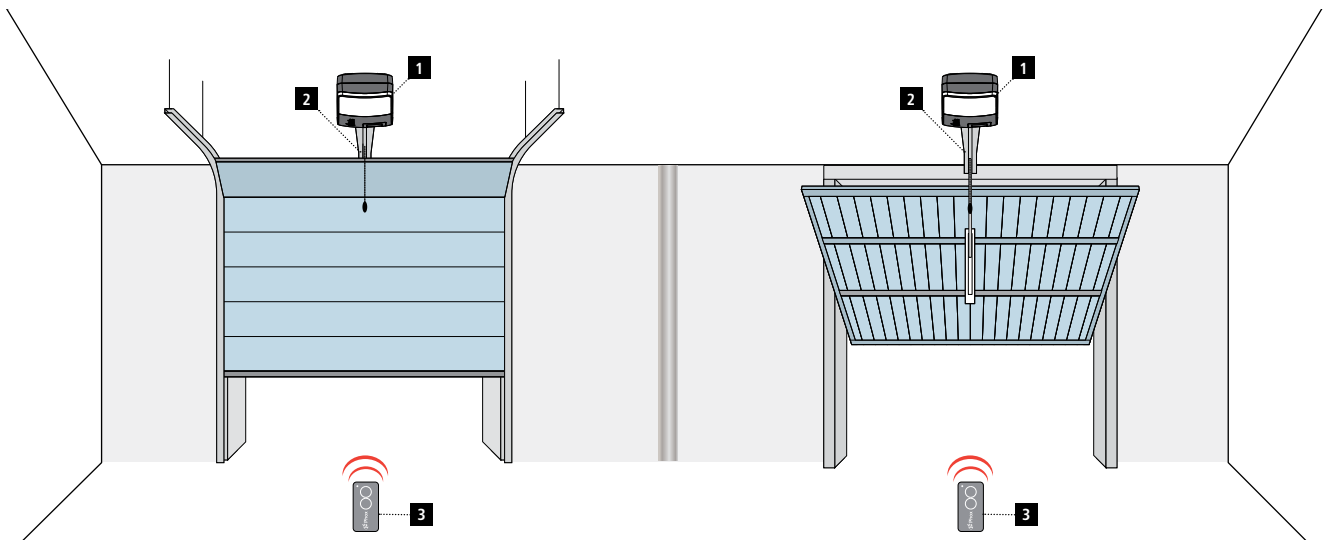


CODE	LENGTH	MAXIMUM DOOR HEIGHT	
		Sectional or spring balanced door	Counterweight balanced door
162520	3.3 m (1 x 3.3 m)	2500 mm	2800 mm
162528	3.3 m (2 x 1.65 m)	2500 mm	2800 mm



**3** PHOX2 433.92MHz rolling code transmitter

## ASSEMBLY DIAGRAM







To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	24V maximum force 700N	24V maximum force 1000N
<b>MODEL</b>	<b>ATRIS-700</b>	<b>ATRIS-1000</b>
<b>CODE</b>	<b>25C015</b>	<b>25C016</b>
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	100	160
Consumption in stand-by (Wh)	< 0,5	< 0,5
Door area (m <sup>2</sup> )	< 10	< 15
Start force (N)	700	1000
Nominal force (N)	550	850
Maximum speed (cm/s)	12	12
Working temperature (°C)	-20 ÷ +40	-20 ÷ +40
Duty cycle (%)	30	30
Protection degree (IP)	20	20
Motor weight (Kg)	12	12

	<b>Kit MODEL</b> ▼	 <b>162520 (1 x 3.3 m)</b>	 <b>162528 (2 x 1.65 m)</b>	 <b>PHOX2</b>	<b>Kit CODE</b> ▼
24V	<b>Kit</b> ATRIS-700 1	■		■ ■	32B028
	<b>Kit</b> ATRIS-700 2		■	■ ■	32B029
	<b>Kit</b> ATRIS-1000 1	■		■ ■	32B030
	<b>Kit</b> ATRIS-1000 2		■	■ ■	32B031



# vega

## Electromechanical irreversible actuator

for balanced doors up to 9 m<sup>2</sup>

Available in two versions:  
**24V** and **230V**

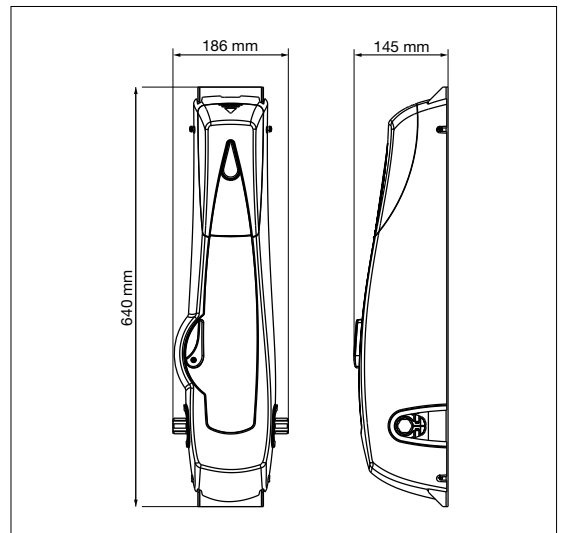


### PLUS

- Compact form and strong mechanics to guarantee optimal performance with all types of balanced doors
- Obstacle detection
- Self-learning of opening and closing times
- Built-in courtesy light (LED for 24V version)
- Adjustable cams to be set as a limit switch or slowing down start

#### 24V version

- Programmable acceleration and deceleration
- Synchronized operation of two motors using the specially provided cable



### TECHNICAL FEATURES

Description	230V digital control unit	230V without control unit	24V without control unit
<b>MODEL</b>	<b>VEGA-C 230V</b>	<b>VEGA-230V</b>	<b>VEGA-24V</b>
<b>CODE</b>	<b>24A005</b>	<b>24A002</b>	<b>24A009</b>
Power supply (Vac - Hz)	230 - 50	230 - 50	85-245 V / 50-60 Hz
Door area (m <sup>2</sup> )	9	14*	9 - 14**
Full load current (A)	2.5	2.5	1.25
Maximum electric power (W)	575	575	150
Nominal speed of the motor (Rpm)	1.6	1.6	1.6
Capacitor (µF)	8	8	-
Working temperature (°C)	-20 ÷ +50	-20 ÷ +50	-20 ÷ +50
Duty cycle (%)	30	30	30
Protection degree (IP)	20	20	20
Motor weight (Kg)	9	9	9
Maximum accessory load 24V (W)	3	-	15

\* Installation with 2 motors in combination with VEGA-C 230V  
 \*\* Installation with 2 motors connected by the accessory cable 162416

















CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 1 photocell input with self-test function
- 1 input for mechanical or resistive sensitive safety edges
- Output for 24V flashing light or warning light
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slowing down in the limit switch area
- Soft start during the opening phase (programmable time)
- ADI connector for connecting optional module CL1+

 Electrical connections of the control unit on page 129

ACCESSORIES

					
<b>162401</b>	<b>162407</b>	<b>162408</b>	<b>162409</b>	<b>162415</b>	<b>162410</b>
Straight telescopic arm with iron rod	Curved telescopic arm	Straight telescopic arm with sleeve	Pair of curved telescopic arms with sleeve	Pair of curved telescopic arms with iron rod	Pair of transmission shafts with sleeves, 1.5 m in length
					
<b>162411</b>	<b>162404</b>	<b>162405</b>	<b>162406</b>	<b>162414</b>	<b>162402</b>
Pair of transmission shafts with sleeves, 2 m in length	Pair of sleeves	Kit for anchoring to the structure	Pair of tube guide brackets with bushes	1.2 m long anchoring backstay	1.8 m long anchoring backstay
					
<b>162403</b>	<b>162416</b>	<b>11B047 • MR2</b>		<b>161213 • CL1+</b>	
External release kit with metal wire	Cable for 2-motor installation (VEGA-24V)	433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)		ADI module to block and copy the programming of the control unit	

MOTORS FOR GARAGE DOORS AND ROLLING SHUTTERS





# vega kit

Installation kit for balanced garage doors  
up to 9 m<sup>2</sup>

## COMPOSITION



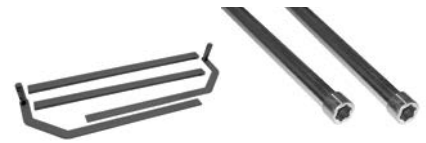
**1**  
**230V electromechanical irreversible actuator**



**2 PHOX2**  
433.92MHz rolling code transmitter



**3 MR2**  
Plug-in module receiver



**4 162415**  
Pair of curved telescopic arms with iron rod

**5 162411**  
Pair of transmission shafts with sleeves, 2 m in length



**6 162402**  
1.8 m long anchoring backstay

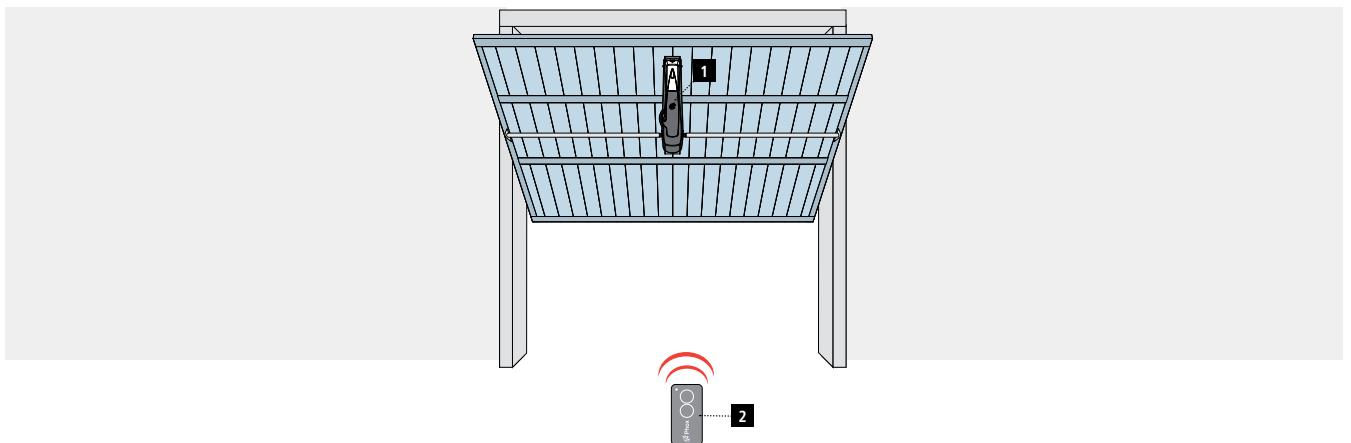


**7 162405**  
Kit for anchoring to the structure



**8 162406**  
Pair of tube guide brackets with bushes

## ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section



**TECHNICAL FEATURES**

Description	<b>230V</b> digital control unit
<b>MODEL</b>	<b>VEGA-C 230V</b>
<b>CODE</b>	<b>24A005</b>
Power supply (Vac - Hz)	230 - 50
Door area (m <sup>2</sup> )	9
Full load current (A)	2.5
Maximum electric power (W)	575
Nominal speed of the motor (Rpm)	1.6
Capacitor (µF)	8
Working temperature (°C)	-20 ÷ +50
Duty cycle (%)	30
Protection degree (IP)	20
Motor weight (Kg)	9
Maximum accessory load 24V (W)	3

Kit MODEL									Kit CODE
▼	VEGA-C 230V	PHOX2	MR2	162415	162411	162402	162405	162406	▼
<b>Kit</b> VEGA 1	■	■ ■	■						32C007
<b>Kit</b> AZIMUT 2				■	■	■	■	■	32C002

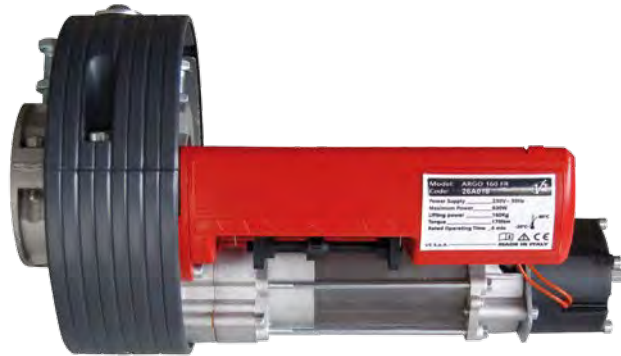


# argo

## 230V irreversible electromechanical actuator

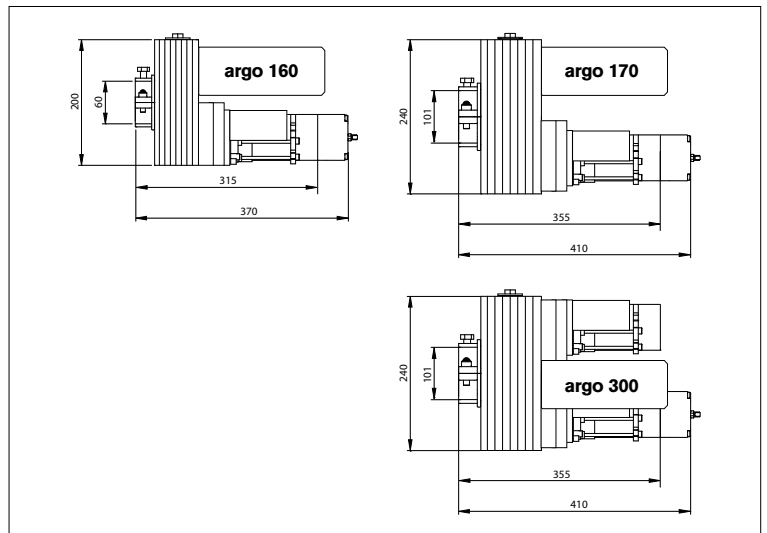
for shutters weighing  
**160 to 300 Kg**

Available in two versions  
**with or without electro-brake**



### PLUS

- Wires protected by special plastic container
- External limit switch unit easily accessible
- Pre-wired condenser
- Simple, intuitive limit switch adjustment
- Special models with built-in electro-brake



### TECHNICAL FEATURES

Description	160 Kg	160 Kg electro-brake	170 Kg	170 Kg electro-brake	300 Kg	300 Kg electro-brake
<b>MODEL</b>	<b>ARGO 160</b>	<b>ARGO 160 FR</b>	<b>ARGO 170</b>	<b>ARGO 170 FR</b>	<b>ARGO 300</b>	<b>ARGO 300 FR</b>
<b>CODE</b>	<b>26A017</b>	<b>26A018</b>	<b>26B020</b>	<b>26B021</b>	<b>26B022</b>	<b>26B023</b>
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Absorbed current (A)	2.2	2.2	2.5	2.5	2 x 2.5	2 x 2.5
Maximum electric power (W)	600	600	700	700	2 x 700	2 x 700
Lifting power (Kg)	160	160	170	170	300	300
Torque (Nm)	170	170	200	200	330	330
Motor crown speed (rpm)	9	9	9	9	9	9
Rolling shutter shaft Ø (B) (mm)	60/48	60/48	101/76	101/76	101/76	101/76
Motor crown Ø (A) (mm)	200/220	200/220	240	240	240	240
Motor weight (Kg)	7	8	9	10	13	14
Shutter maximum height (m)	-20 ÷ +80	-20 ÷ +80	-20 ÷ +80	-20 ÷ +80	-20 ÷ +80	-20 ÷ +80
Working temperature (°C)	7	7	7	7	7	7

**CONTROL UNITS TO BE USED**



**EASY-TOP**

Digital control unit for 230V motors

**EASY-BASIC**

Analogue control unit for 230V motors

**ACCESSORIES**



**162629**

Wall-mounting aluminium key switch with lock, push-button and lever for electro-brake release



**162630**

Recessed installation aluminium key switch with lock, push-button and electro-brake release



**20A012**

Wall-mounted aluminium key switch



**162632**

Electro-brake



**162631**

Shaft adapter Ø 42 (only for ARGO 160)

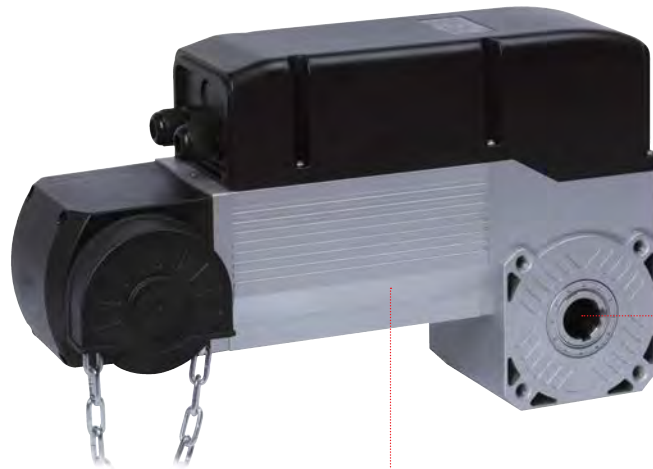


# fm60

## Electromechanic gearmotor

for industrial sectional doors  
up to 20 m<sup>2</sup>

Available in two versions  
**230V** and **400V**

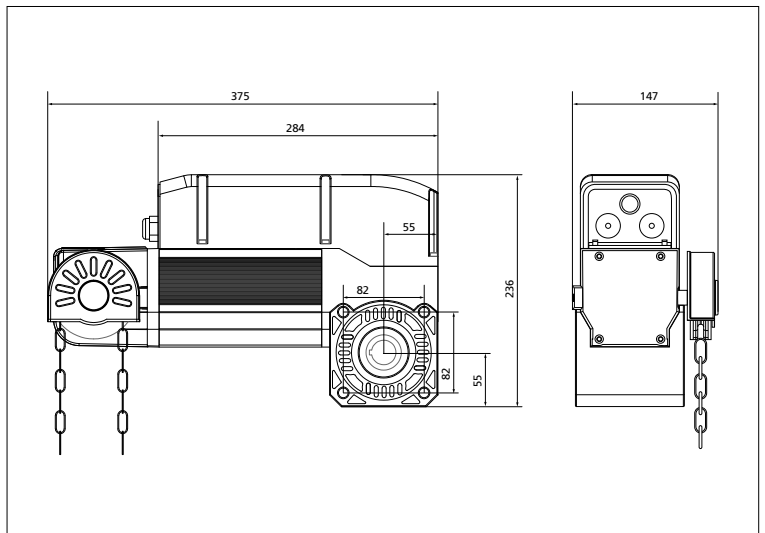


■ Ideal for shafts with  
Ø 25.4 mm

■ Strong painted  
aluminium casing

### PLUS

- Easy installation: to be directly installed on sectional door frame with reduced overall dimensions to make installation easier in any position
- Easy to use: thanks to the chain for door manual activation in case of black-out
- Reliable and precise: micrometric adjustment of opening and closing limit stops
- Aluminium reducer with oil-bath lubricated gears (bronze wheel)
- Motor in aluminium with cooling fins



## TECHNICAL FEATURES

Description	<b>230V</b> for sectional doors up to 20 m <sup>2</sup>	<b>400V</b> for sectional doors up to 20 m <sup>2</sup>
<b>MODEL</b>	<b>FM60M</b>	<b>FM60T</b>
<b>CODE</b>	<b>25C018</b>	<b>25C019</b>
Power supply (Vac - Hz)	230 - 50	400 - 50
Door area (m <sup>2</sup> )	< 20	< 20
Absorbed power (W)	500	350
Torque (Nm)	60	60
Shaft diameter (mm)	25,4	25,4
Average speed (rpm)	24	24
Duty cycle (%)	20%	20%
Working temperature (°C)	-20 ÷ +45	-20 ÷ +45
Protection degree (IP)	54	54

## CONTROL UNITS TO BE USED

---

M  
230V



M  
400V



---

### CITY4

Digital control unit for 230V motors

---

### HEAVY2

Digital control unit for THREEPHASE 400V motors

## ACCESSORIES

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### 162533

3 push button keypad

# Value to security

People change,  
safety remains

Thanks to V2 motors for barriers you can control the transit in highly frequented areas or public and private parkings. V2 motors are specially designed to withstand even an intensive use. You can rely on it.

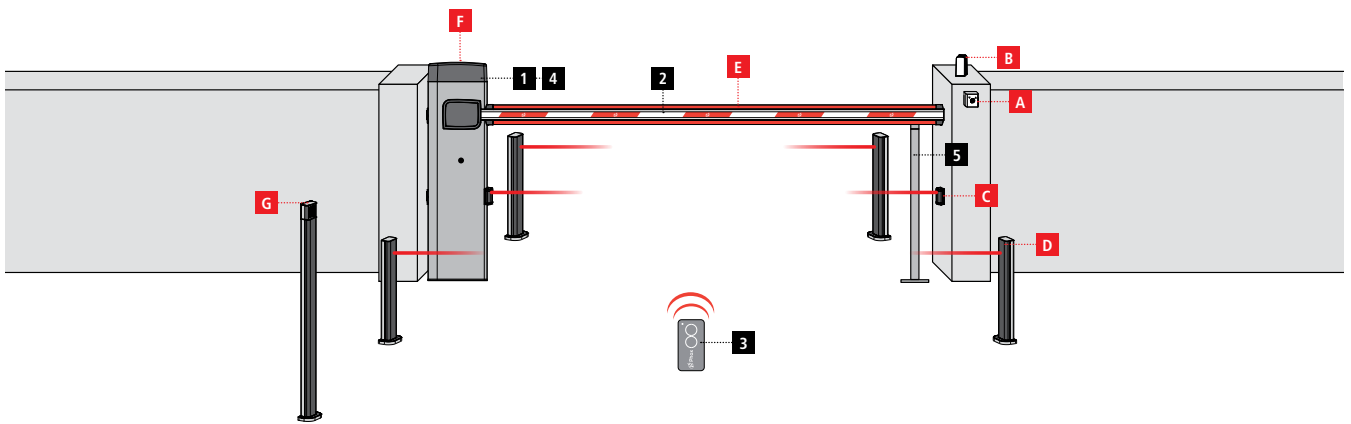
# MOTORS FOR **BARRIERS**





# EXAMPLE SYSTEM MOTORS FOR BARRIERS

98|101



## COMPONENTS

- 1** Motor
- 2** Boom
- 3** Transmitter
- 4** Receiving module
- 5** End support post

## ADDITIONAL ACCESSORIES

- A** Key switch
- B** Flashing light
- C** Photocells
- D** Pillar photocells
- E** Lights kit (boom)
- F** Lights kit (barrier)
- G** Pillar-mounted digital radio switch

## CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Photocells (TX)	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Photocells (RX)	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Key switch	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
Flashing light	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>

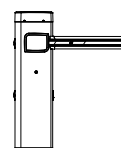
# INDEX OF PRODUCTS MOTORS FOR BARRIERS



**Motors for BARRIERS**

98|99

**niuba**



**Accessories**

100

**accessories for 4m barriers**

100

**accessories for 6m barriers**

101

**common accessories**



# niuba

## Rapid opening automatic raise arm barrier

for residential and multiple use installations **up to 6 m width**

Available in two versions:  
**24V** and **230V**



### PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two barriers using the SYNCRO module
- Balancing spring included
- Anodized aluminium boom (accessory)

#### 24V versions:

- Programmable acceleration and deceleration
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system



## TECHNICAL FEATURES

Description	24V for booms up to 4 m	24V for booms up to 6 m	230V for booms up to 4 m	230V for booms up to 6 m
<b>MODEL</b>	<b>NIUBA4-24V</b>	<b>NIUBA6-24V</b>	<b>NIUBA4-230V</b>	<b>NIUBA6-230V</b>
<b>CODE</b>	<b>36A022</b>	<b>36A023</b>	<b>36A024</b>	<b>36A025</b>
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Motor power supply (Vac - Hz)	24 Vdc	24 Vdc	230 - 50	230 - 50
Maximum electric power (W)	240	300	300	350
Opening time (s)	3 ÷ 4	5 ÷ 6	6	8
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Duty cycle % - (max. cycles/hour)	80 - (200)	80 - (150)	30 - (90)	30 - (90)
Protection degree (IP)	44	44	44	44
Motor weight (Kg)	44	52	44	52

CONTROL UNIT



- Programming achieved using 3 buttons and display
- Plug-in adaptor for modular radio receiver MR2
- Input for photocells with self-test function
- Input for mechanical safety edges
- Courtesy light output
- Self-learning of the limit switch points and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down in the limit switch area
- Monitoring of input status using the display
- ADI connector for connecting CL1+, SYNCRO and BT01 optional modules

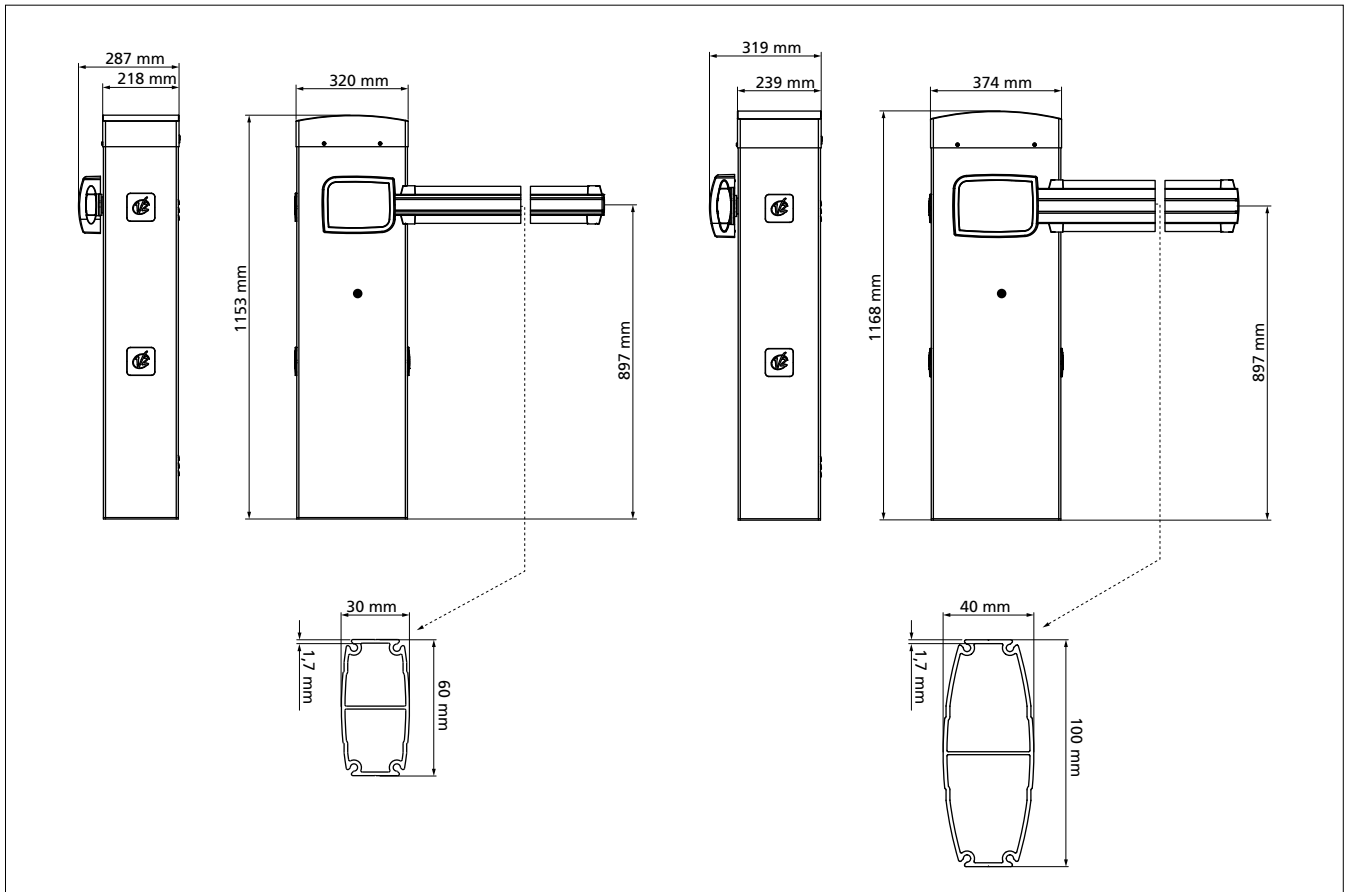
**24V versions**

- Holding magnet output
- 24V flashing light output
- Energy Saving function to minimise consumption in stand-by mode

**230V versions**

- Output for flashing light 230V with intermittence

 Electrical connections of the control unit on page 128



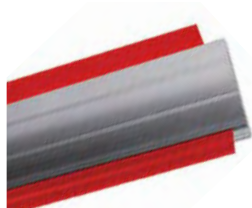


## ACCESSORIES FOR 4 m BARRIERS



**163614**

4.22 m square aluminium boom



**163628**

4.22 m square aluminium boom with pre-assembled protective rubber



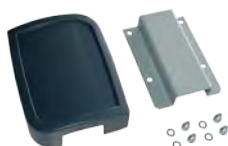
**163617**

4.22 m round (Ø 60) aluminium boom



**163619**

Fixing kit for Ø 60 round boom



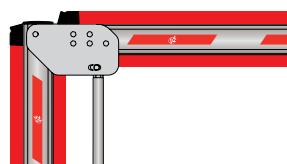
**173630**

Fixing kit for square boom



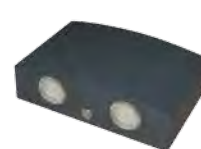
**173608**

Anchor plate



**163616**

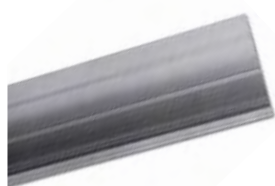
Joint for square boom



**163630**

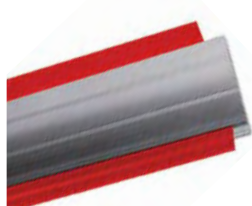
Cover with integrated flashing light

## ACCESSORIES FOR 6 m BARRIERS



**163613**

6.28 m square aluminium boom



**163627**

6.28 m square aluminium boom with pre-assembled protective rubber



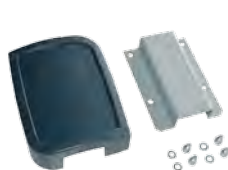
**163632**

6.28 m square aluminium boom divided into 2 sections with connecting elements



**163623**

6.28 m round (Ø 90) aluminium boom



**173629**

Fixing kit for square boom



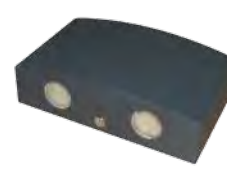
**163610**

Fixing kit for Ø 90 round boom



**173621**





Anchor plate



**163631**

Cover with integrated flashing light

## COMMON ACCESSORIES

			
<p><b>163629</b> Protective rubber kit (6m x 2)</p>	<p><b>163618</b> Aluminium shelf (2 m)</p>	<p><b>163604</b> Movable end support post</p>	<p><b>163605</b> End support post</p>

		
<p><b>163622</b> Reflective adhesive strips (24 pieces)</p>	<p><b>163615</b> Lights kit consisting of 6 modules and wirings</p>	<p><b>161212 • B-PACK</b> Backup battery with built-in charger</p>

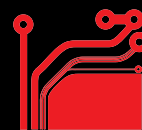
		
<p><b>11B047 • MR2</b> 433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)</p>	<p><b>161213 • CL1+</b> ADI module to block and copy the programming of the control unit</p>	<p><b>161221 • BT01</b> ADI module for managing the control unit via Bluetooth and <b>V2app</b></p>

# Value to control

A touch,  
and everything is under control

V2 control units are designed to manage swing gates and sliding gates, shutters, blinds and awnings. Innovation and research for the best technological solutions to ensure maximum safety of operation. Thus, after the installation, you don't need to worry about anything else.

## CONTROL UNITS

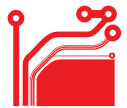






# INDEX OF PRODUCTS

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**easy-top**



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**easy-lux**



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**easy-basic**



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**easy1**



118

**easy2**



**Control units for TRAFFIC LIGHTS**

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**city5**



**Accessories for the control units**

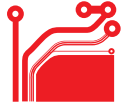
120|123

**Connections of the control units**

124|126

**Connections of the control units  
integrated in the motors**

127|129



**CONTROL UNITS**

# city1-evo

## Control unit

for swing and sliding gates

**230V digital**



### PLUS

- Programming achieved using 3 program buttons and display
- 230V power supply for 2 single-phase motors with encoder
- USB plug to connect the control unit to a PC and manage control unit programming, firmware updates and diagnostics via software
- Connector for LOW ENERGY module that enables achieving important energy savings (<0.5 Wh)
- Plug-in adaptor for modular radio receiver MR2
- Start, pedestrian start and stop controls from transmitter
- Safety device test before any opening
- 230V flashing light output (use flashing lights with intermittence)
- Self-learning operating time function
- Obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Soft start in fase di apertura e rallentamento in fase di chiusura (tempo programmabile)
- Monitoring of input status using the display
- Also available in CITY1-EVO-PB version, housed in an industrial box, equipped with safety disconnecting switch.

### TECHNICAL FEATURES

Description	230V for 230V motors	230V for 230V motors (industrial box)
<b>MODEL</b>	<b>CITY1-EVO</b>	<b>CITY1-EVO-PB</b>
<b>CODE</b>	<b>12G041</b>	<b>12G048</b>
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum motor load (W)	2 x 700	2 x 700
Maximum 24V accessories load (W)	10	10
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60
Dimensions (mm)	295 x 230 x 100	400 x 300 x 165
Weight (g)	1600	4000
Protection degree (IP)	55	55

### ACCESSORIES



11B047 • MR2	161213 • CL1+	35B026 • WES-ADI	161217 • LUX2+	161218	161221 • BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI module for the management of lights, traffic light or electro-brake	LOW ENERGY module for saving electricity	ADI module for managing the control unit via Bluetooth and V2app



# city2+

## Control unit

for swing and sliding gates equipped with 2 x 24V motors

230V digital



### PLUS

- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- Start, pedestrian start and stop controls from transmitter
- Auxiliary channel management from transmitter
- Emergency pack battery input
- Encoder input
- Low voltage output for warning light or 24V flashing light
- Safety device test before any opening
- Amperometric sensor obstacle detection function with programmable threshold
- Operational cycle counter, with programmable maintenance reminders
- Leaf slow-down function in limit switch area to prevent noisy closures and rebounds
- Monitoring of input status using the display
- Energy Saving function to minimise consumption in standby mode
- Version with switching power supply CITY2 + L
- Also available as CITY2+BC version configured to work with the ECO-LOGIC system (this version has no transformer or power supply card)

### TECHNICAL FEATURES

Description	230V for 24V motors (2 x 150W)	230V for 24V motors (2 x 100W)	24Vdc for 24V motors (2 x 150W)
<b>MODEL</b>	<b>CITY2+</b>	<b>CITY2+ L</b>	<b>CITY2+ BC</b>
<b>CODE</b>	<b>12A024</b>	<b>12A037</b>	<b>12A030</b>
Power supply (Vac - Hz)	230 - 50	230 - 50	24 Vdc
Maximum total load (W)	250	200	250
Maximum load for each motor (W)	150	100	150
Maximum 24V accessories load (W)	7	7	7
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Dimensions (mm)	295 x 230 x 100	295 x 230 x 100	295 x 230 x 100
Weight (g)	3000	1200	1000
Protection degree (IP)	55	55	55

### ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161217 ▪ LUX2+	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI module for the management of lights, traffic light or electro-brake	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



## CONTROL UNITS

# city4

### Control unit

for swing gates (single leaf) and sliding gates

**230V digital**



## PLUS

- Programming achieved using 3 program buttons and display
- 230V power supply for 1 single-phase motor
- Plug-in adaptor for modular radio receiver MR2
- Start, pedestrian start and stop controls from transmitter
- Auxiliary channel management from transmitter
- 230V flashing light output (use flashing lights with intermittence)
- Safety device test before any opening
- Self-learning operating time function
- Obstacle detection function
- Operational cycle counter, with programmable maintenance reminder
- Leaf slow-down function in limit switch area to prevent noisy closures and rebounds
- Slow start function during opening (programmable time)
- Monitoring of input status using the display

## TECHNICAL FEATURES

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>CITY4</b>
<b>CODE</b>	<b>12G021</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Maximum 24V accessories load (W)	10
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	295 x 230 x 100
Weight (g)	1600
Protection degree (IP)	55

## ACCESSORIES



<b>11B047</b> • <b>MR2</b>	<b>161213</b> • <b>CL1+</b>	<b>161217</b> • <b>LUX2+</b>	<b>161221</b> • <b>BT01</b>
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for the management of lights, traffic light or electro-brake	ADI module for managing the control unit via Bluetooth and <b>V2app</b>



# city9

## Control unit

for sliding gates

**230V analogue**



### PLUS

- Adjustment and programming by trimmer and dip-switch
- 230V power supply for 1 single-phase motor
- Plug-in adaptor for modular radio receiver MR2
- Start, pedestrian start and stop controls from transmitter
- Open/close limit switch inputs
- 230V flashing light output (use flashing lights with intermittence)
- Safety device test before any opening
- Courtesy light output (also controllable by transmitter)
- Slow-down function in limit switch area to prevent noisy closures and rebounds
- Monitoring of input status shown by LEDs

### TECHNICAL FEATURES

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>CITY9</b>
<b>CODE</b>	<b>12B021</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55

### ACCESSORIES



#### **11B047** • MR2

433.92 MHz plug-in receiver module  
Also available in 868.30 MHz version  
(code 11B048)



## CONTROL UNITS

# city11

### Control unit

for swing gates

**230V analogue**  
with **12V electrolock output**



### PLUS

- Adjustment and programming by trimmer and dip-switch
- 230V power supply for 2 single-phase motors
- Electrolock output 12V
- Plug-in adaptor for modular radio receiver MR2
- Start, pedestrian start and stop controls from transmitter
- 230V flashing light output (use flashing lights with intermittence)
- Courtesy light output (also controllable by transmitter)
- Safety device test before any opening
- Leaf slow-down function in limit switch area to prevent noisy closures and rebounds
- Monitoring of input status shown by LEDs

### TECHNICAL FEATURES

Description	230V for 230V motors
<b>MODEL</b>	<b>CITY11</b>
<b>CODE</b>	<b>12A033</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Maximum 24V accessories load (W)	10
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	1200
Protection degree (IP)	55

### ACCESSORIES



#### 11B047 • MR2

433.92 MHz plug-in receiver module  
Also available in 868.30 MHz version  
(code 11B048)



# flexy2

## Control unit

for swing and sliding gates

**230V analogue**  
with **built-in receiver**  
**(433.92 MHz)**



### PLUS

- Adjustment and programming by trimmer and dip-switch
- 230V power supply for 2 single-phase motors
- Built-in receiver (433,92 MHz)
- Possibility to store up to 240 Personal Pass transmitter
- RJ45 connector to connect the control unit to the programmer PROG2 via standard network cable (UTP)
- Start, pedestrian start and stop controls from transmitter
- Open/close limit switch inputs
- 230V flashing light output (use flashing lights with intermittence)
- Courtesy light output (also controllable by transmitter)
- Safety device test before any opening
- Leaf slow-down function in limit switch area to prevent noisy closures and rebounds
- Monitoring of input status shown by LEDs

### TECHNICAL FEATURES

Description	230V for 230V motors
<b>MODEL</b>	<b>FLEXY2</b>
<b>CODE</b>	<b>12G035</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55





## CONTROL UNITS

# heavy1

### Control unit

for 230V three-phase motors

230V digital with INVERTER



### PLUS

- Programming achieved using 3 program buttons and display
- Multilingual programming menu through 122x32 pixel graphic display
- Power supply for 1x230V three-phase motor (delta connection)
- Plug-in adaptor for modular radio receiver MR2
- Input for connection of an encoder
- Start control, pedal start, stop by transmitter
- Three relay outputs programmable as lights, electrolock, warning light, electrobrake or functioning test 12Vdc
- 230V flashing light output (use intermittent flashing light)
- Test of safety devices before each opening
- Precise adjustment of strength and speed during regular stroke and during slowdowns
- Self-learning function of the stroke
- Obstacle detection function through amperometric sensor
- Operational cycle counter with programmable maintenance reminder
- Monitoring of input status using the display
- Available in version with only board or housed in a container (made of plastic or metal) with safety disconnecting switch and OPEN, CLOSE and EMERGENCY STOP buttons

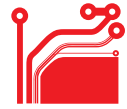
### TECHNICAL FEATURES

Description	230V with INVERTER electronic board only	230V with INVERTER plastic box	230V with INVERTER metal box
MODEL	HEAVY1	HEAVY1-PB	HEAVY1-MB
CODE	12B052	12B055	12B057
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Motor drive frequency (Hz)	5 ÷ 99	5 ÷ 99	5 ÷ 99
Maximum motor load (W)	1500	1500	1500
Maximum 24V accessories load (W)	20	20	20
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Dimensions (mm)	200 x 172 x 80	400 x 300 x 165	400 x 300 x 185
Weight (g)	1800	4500	8700
Protection degree (IP)	-	56	66

### ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161217 ▪ LUX2+	161216 ▪ SYNCHRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI module for the management of lights, traffic light or electro-brake	ADI modules for synchronized operation of two control units	ADI module for managing the control unit via Bluetooth and V2app



# heavy2

## Control unit

for 230V/400V three-phase motors

230V/400V digital



heavy2-pb



heavy2-mb



### PLUS

- Programming achieved using 3 program buttons and display
- Multilingual programming menu through 122x32 pixel graphic display
- Power supply for 1 x 230V/400V three-phase or 230V single-phase motor
- Plug-in adaptor for modular radio receiver MR2
- Input for connection of an encoder
- Start control, pedal start, stop by transmitter
- Two relay outputs programmable as lights, electrolock, warning light or functioning test 12Vdc
- 230V flashing light output (use intermittent flashing light)
- Test of safety devices before each opening
- Self-learning function of the stroke
- Obstacle detection function through amperometric sensor
- Operational cycle counter with programmable maintenance reminder
- Monitoring of input status using the display
- Available in version with only board or housed in a container (made of plastic or metal) with safety disconnecting switch and OPEN, CLOSE and EMERGENCY STOP buttons

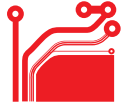
### TECHNICAL FEATURES

Description	230V / 400V electronic board only	230V / 400V plastic box	230V / 400V metal box
<b>MODEL</b>	<b>HEAVY2</b>	<b>HEAVY2-PB</b>	<b>HEAVY2-MB</b>
<b>CODE</b>	<b>12B053</b>	<b>12B056</b>	<b>12B058</b>
Power supply (Vac - Hz)	400V - 230V (three-phase)	400V - 230V (three-phase)	400V - 230V (three-phase)
Maximum motor load (W)	4	4	4
Maximum 24V accessories load (W)	20	20	20
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Dimensions (mm)	200 x 172 x 80	400 x 300 x 165	400 x 300 x 185
Weight (g)	1600	4300	8500
Protection degree (IP)	-	56	66

### ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161217 ▪ LUX2+	161216 ▪ SYNCRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI module for the management of lights, traffic light or electro-brake	ADI modules for synchronized operation of two control units	ADI module for managing the control unit via Bluetooth and V2app



## CONTROL UNITS

# easy-top

### Control unit

for rolling shutters

230V digital



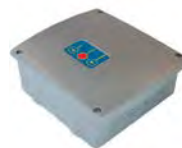
## PLUS

- Programming achieved using program buttons and display
- 230V power supply for 1 single-phase motor
- Plug-in adaptor for modular radio receiver MR2
- Up, stop, down inputs
- Up, stop, down and courtesy light controls from transmitter
- 1 photocell input with self-test function
- 1 mechanical, resistive or optical-type safety edge input with self-test function
- 1 emergency (fire alarm / alarm) input
- 24V accessory power supply output
- 230V flashing light/courtesy light output
- Optical-type safety edge power adjustment output
- Plug-in terminal boards
- Monitoring of input status shown by display
- Option to install the cover with keypad (code 171224), making it possible to control the control unit directly, when used in combination with module 171226

## TECHNICAL FEATURES

Description	230V for 1 230V motor
<b>MODEL</b>	<b>EASY-TOP</b>
<b>CODE</b>	<b>12C045</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	1100
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55

## ACCESSORIES



<b>11B047 • MR2</b>	<b>35B025 • WES-EASY</b>	<b>171224 • EASY-PULSE</b>	<b>171226 • EASY-PULSE</b>
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	Optional card for radio control of safety devices using WES sensors	3 push-button casing	Push-button adapter



# easy-lux

## Control unit

for rolling shutters

**230V digital**  
with **LED courtesy light** and **keypad**



### PLUS

- Programming achieved using program buttons and display
- 230V power supply for 1 single-phase motor
- LED courtesy light integrated into the container
- Control keypad located on the cover
- Plug-in adaptor for modular radio receiver MR2
- Up, stop, down inputs
- Up, stop, down and courtesy light controls from transmitter
- 1 photocell input with self-test function
- 1 mechanical, resistive or optical-type safety edge input with self-test function
- 1 emergency (fire alarm / alarm) input
- 24V accessory power supply output
- 230V flashing light/courtesy light output
- Optical-type safety edge power adjustment output
- Plug-in terminal boards
- Monitoring of input status shown by display

### TECHNICAL FEATURES

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>EASY-LUX</b>
<b>CODE</b>	<b>12C049</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	1100
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55

### ACCESSORIES



**11B047** ▪ **MR2**

433.92 MHz plug-in receiver module  
Also available in 868.30 MHz version  
(code 11B048)

**35B025** ▪ **WES-EASY**

Optional card for radio control of  
safety devices using WES sensors



**CONTROL UNITS**

# easy-basic

**Control unit**

for rolling shutters

**230V analogue**



**PLUS**

- Adjustment and programming by trimmer and dip-switch
- 230V power supply for 1 single-phase motor
- Built-in radio receiver (433,92 MHz)
- Operation with Personal Pass or Royal series transmitters
- Possibility of storing up to 30 different codes (Personal Pass)
- Start, stop / safety edge inputs
- 1 input for photocells
- Start and courtesy light from transmitter
- 230V output for flashing light or courtesy light
- Monitoring of input status shown by LEDs

**TECHNICAL FEATURES**

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>EASY-BASIC</b>
<b>CODE</b>	<b>12C044</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	1100
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55



# easy1

## Control unit

for rolling shutters  
and screens

**230V analogue**  
with **built-in receiver**  
**(433.92 MHz)**

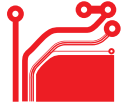


### PLUS

- 230V power supply for 1 single-phase motor
- Maximum available power for 1 motor: 700W
- Built-in radio receiver capable of memorising 32 Personal Pass transmitters
- Separated start inputs to control the UP/DOWN function by two push-buttons
- Possibility to control the rolling shutter with one single push-button configuring the STEP BY STEP logic
- Operating with one or two push-buttons also from transmitter

## TECHNICAL FEATURES

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>EASY1</b>
<b>CODE</b>	<b>12C029</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	41 x 127 x 24
Weight (g)	100
Protection degree (IP)	55



## CONTROL UNITS

# easy2

### Control unit

for rolling shutters

**230V analogue**  
with **courtesy light**  
and **automatic closure**



## PLUS

- Adjustment and programming by trimmer and dip-switch
- 230V power supply for 1 single-phase motor
- Plug-in adaptor for modular radio receiver MR2
- Up, stop, down inputs
- Up, stop, down and courtesy light controls from transmitter
- 1 photocell input with self-test function
- 1 mechanical, resistive or optical-type safety edge input with self-test function
- 230V flashing light output (use flashing lights with intermittence)
- Courtesy light output (also controllable by transmitter)
- Safety device test before any opening
- Monitoring of input status shown by LEDs

## TECHNICAL FEATURES

Description	<b>230V</b> for 1 <b>230V</b> motor
<b>MODEL</b>	<b>EASY2</b>
<b>CODE</b>	<b>12C030</b>
Power supply (Vac - Hz)	230 - 50
Maximum motor load (W)	700
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	170 x 185 x 70
Weight (g)	800
Protection degree (IP)	55

## ACCESSORIES



### 11B047 • MR2

433.92 MHz plug-in receiver module  
Also available in 868.30 MHz version  
(code 11B048)



# city5

## Control unit

for controlling a traffic light installed near an alternate-way traffic passageway

**230V digital**



### PLUS

- Programming achieved using 3 program buttons and display
- Management of 2 traffic light units
- Mains-independent lamps power supply
- Plug-in adaptor for modular radio receiver MR2
- 2 push-button inputs: entry, exit
- 1 control device input code
- 2 vehicle presence detection inputs (N.O. or N.C.)
- 1 emergency input, to guarantee green on exit
- Independent input and output control from transmitter
- 2 control outputs for the gate control unit (N.O. or N.C.) opening and closing
- 2 x 24V ac/dc outputs for supplying accessories
- On-card traffic-light status LEDs
- Vehicle transit counter, with restricted access upon reaching parking capacity
- Programming right-of-way criteria in both directions
- Monitoring of input status using the display

### TECHNICAL FEATURES

Description	230V for traffic light
<b>MODEL</b>	<b>CITY5</b>
<b>CODE</b>	<b>12G014</b>
Power supply (Vac - Hz)	230 - 50
Power supply for the lamps of the light (Vac)	Direct or alternate current, max 250V
Maximum charge of the lamps of the light (A)	5
Maximum 24V accessories load (W)	3
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	195 x 145 x 80
Weight (g)	800
Protection degree (IP)	55

### ACCESSORIES



#### 11B047 • MR2

433.92 MHz plug-in receiver module  
Also available in 868.30 MHz version  
(code 11B048)





## ACCESSORIES FOR THE CONTROL UNITS

TO CHECK THE COMPATIBILITY OF THE ACCESSORY MODULES SET FORTH IN THIS SECTION, REFER TO THE PAGES DESCRIBING THE CONTROL UNITS OR THE MOTORS WITH BUILT-IN CONTROL UNIT

# mr2

### Plug-in receiver module



- Operation with Personal Pass or Royal series transmitters
- Possibility of storing up to 1008 different codes (Personal Pass)
- Possibility to enable or disable the ROLLING CODE mode
- Self-learning of transmitters managed by radio
- 4 programmable channels with monostable, bistable or timer operating logics

MODEL	MR2-U-433	MR2-U-868
CODE	11B047	11B048
Frequency (MHz)	433,92	868,30

# low energy

### Optional module for low power operation of evo control units



- The optional LOW ENERGY module allows a reduction in power consumption of EVO control units.
- When the gate is stationary the LOW ENERGY module turns off the display, photocells and all devices fed by the terminal, thus making significant energy savings.
- Consumption < 0.5Wh

MODEL	LOW ENERGY
CODE	161218

# cl1+

**ADI module to block and copy the programming of the control unit**



- Possibility to block the programming of digital control units
- Possibility to copy the contents of the memory to be transferred to other control units of the same model (via ADI connector)
- Using CL1+ in conjunction with the software V2+ the installation data can be managed through a PC (via USB connection)

<b>MODEL</b>	<b>CL1+</b>
<b>CODE</b>	<b>161213</b>

# v2+

**Software for the management of control units**

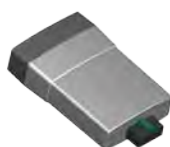


- By using the V2+ software in conjunction with the CL1+ module you can:
- create a database of installations data
  - create custom programming to be used during installation
  - change the configuration of the control unit connecting to the PC the CL1+ inserted on the control unit

<b>MODEL</b>	<b>V2+</b>
<b>CODE</b>	<b>21A003</b>

# bt01

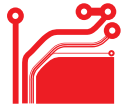
**Bluetooth module**



Bluetooth module for managing the control unit via **V2app**.

By inserting the module BT01 into the ADI plug of the control unit, the latter will connect to installer's device (smartphone, tablet or PC), thanks to the bluetooth connection.

<b>MODEL</b>	<b>BT01</b>
<b>CODE</b>	<b>162221</b>



## ACCESSORIES FOR THE CONTROL UNITS

# lux2+

**ADI module for the management of lights, traffic light or electro-brake**



LUX2+ is an optional module that allows you to increase the capabilities of the V2 control unit controlling two independent relay outputs.

The outputs are programmable with 5 different functions via the programming menu of the control unit.

The functions available are:

- auxiliary channel
- flashing or warning light for open gate
- courtesy light
- traffic light
- electro-brake

<b>MODEL</b>	<b>LUX2+</b>
<b>CODE</b>	<b>161217</b>

# wes-adi

**ADI module for radio control of the safety devices through WES sensors**



Optional card for radio control of safety devices using WES sensors (page 166).

The system consists of a WES-ADI base unit plugged on the control unit, and one or more sensors (up to 8) connected to the safety devices (edges or photocells).

The base unit constantly checks the status of the sensors connected to it; if a safety device connected to one of the sensors is activated, the WES-ADI base unit signals the anomaly to the control unit

<b>MODEL</b>	<b>WES-ADI</b>
<b>CODE</b>	<b>35B026</b>

# syncro

**ADI modules for synchronized operation of two devices**



Pair of optional modules enabling synchronized operation of 2 sliding motors or control units

<b>MODEL</b>	<b>SYNCRO</b>
<b>CODE</b>	<b>161216</b>

# wes-easy

**Optional card for radio control of safety devices using WES sensors**



Optional card dedicated to EASY-TOP control unit for radio control of safety devices using WES sensors (page 166).

The system consists of a WES-EASY base unit plugged on the control unit, and one or more sensors (up to 8) connected to the safety devices (edges or photocells).

The base unit constantly checks the status of the sensors connected to it; if a safety device connected to one of the sensors is activated, the WES-EASY base unit signals the anomaly to the control unit

<b>MODEL</b>	<b>WES-EASY</b>
<b>CODE</b>	<b>35B025</b>

# easy-pulse

**Casing with keypad and adapter**



Casing with keypad and adapter to be inserted in the card for direct control of the control unit EASY-TOP

Description	3 push-button casing	push-button adapter
<b>MODEL</b>	<b>EASY-PULSE</b>	<b>EASY-PULSE</b>
<b>CODE</b>	<b>171224</b>	<b>171226</b>

# b-pack

**Backup battery**



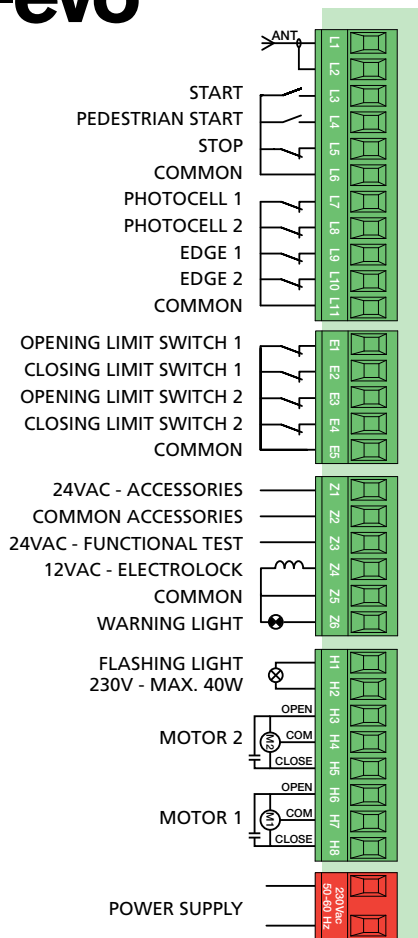
- Operation of the automation ensured in case of power failure
- 2 12V - 2,2Ah batteries
- Built-in charger
- LED indicating the charge level of the batteries

<b>MODEL</b>	<b>B-PACK</b>
<b>CODE</b>	<b>161212</b>

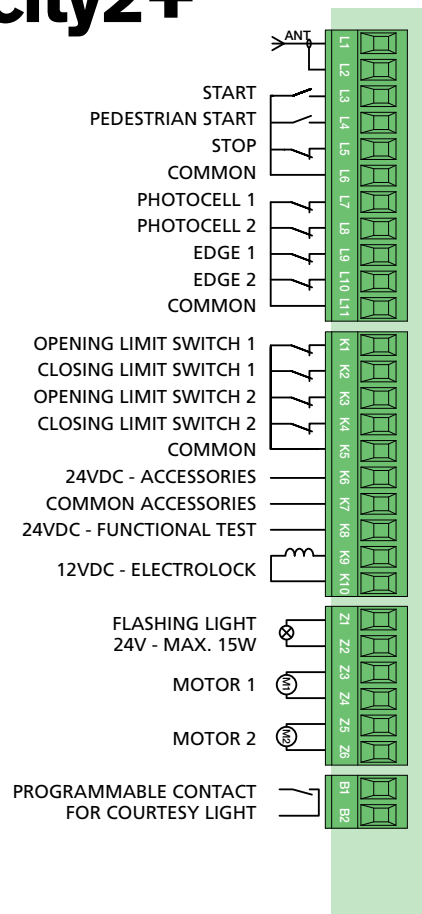


# CONNECTIONS OF THE CONTROL UNITS

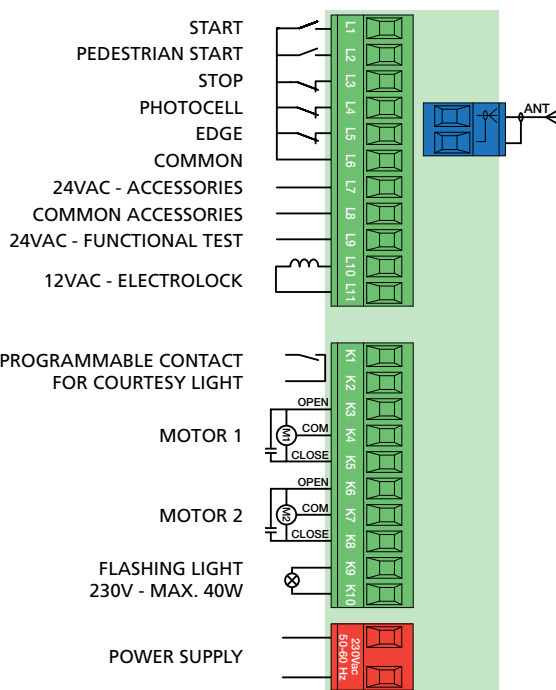
## city1-evo



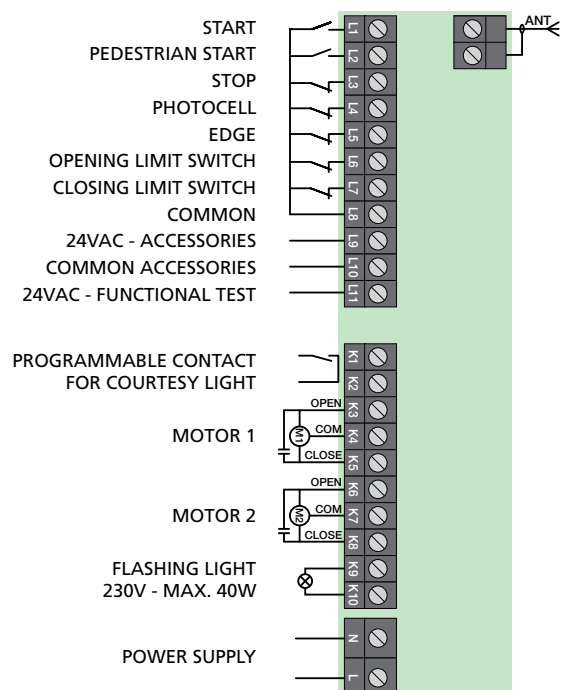
## city2+



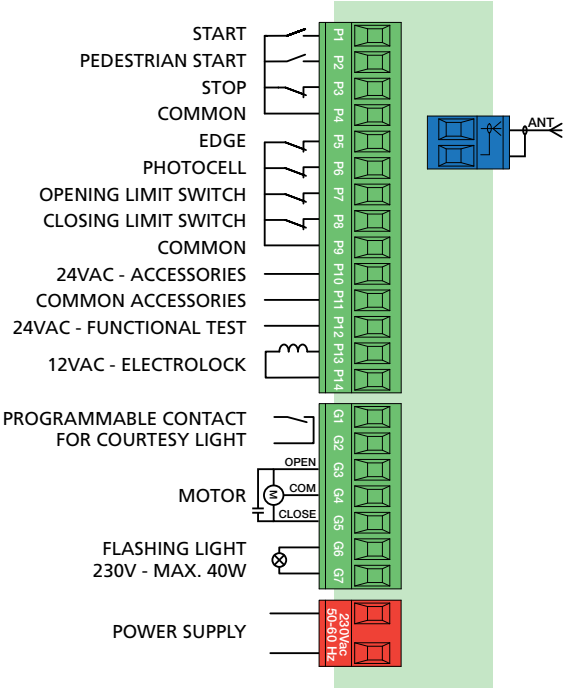
## city11



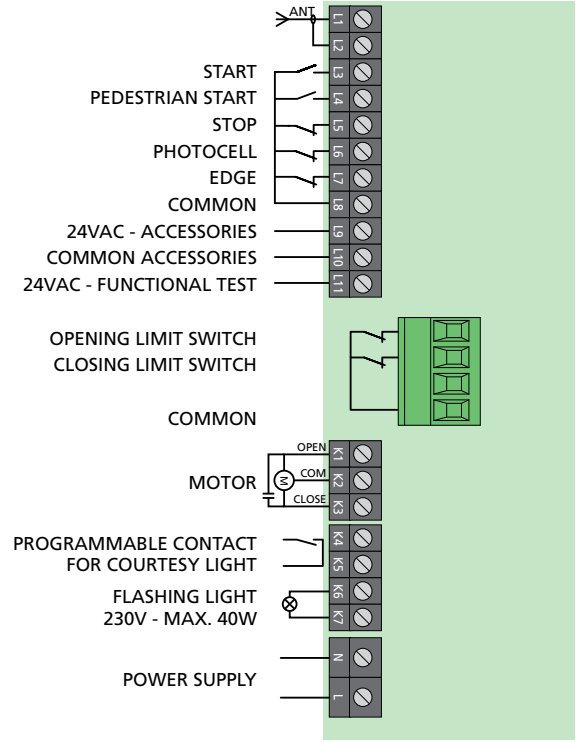
## flexy2



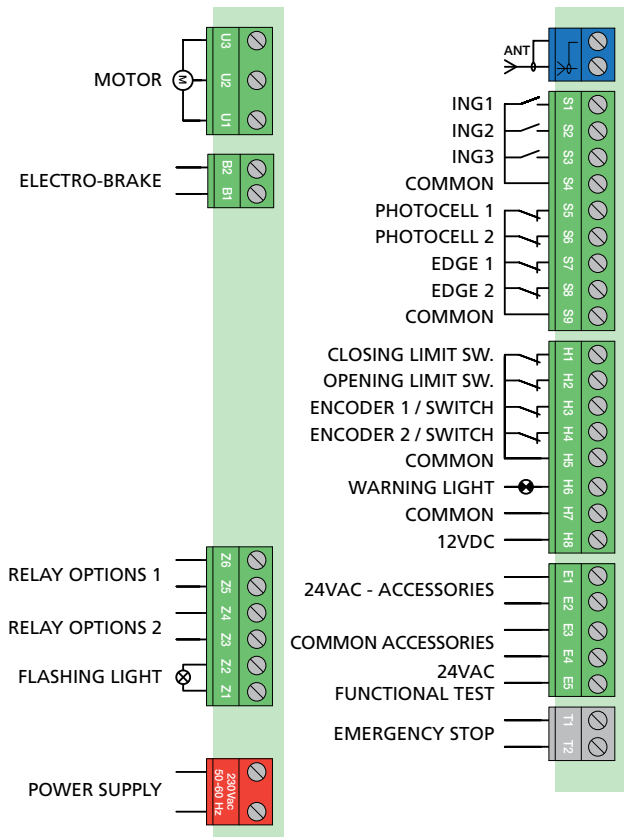
# city4



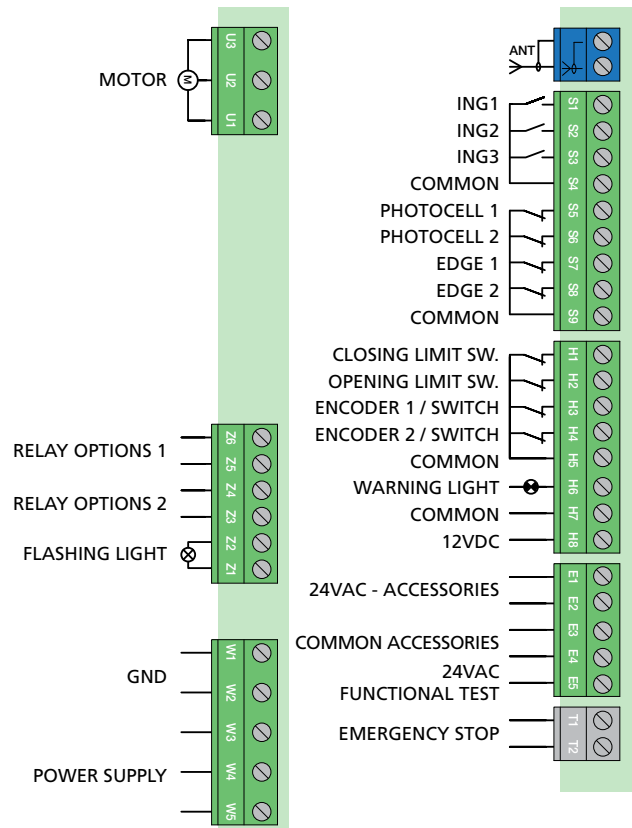
# city9



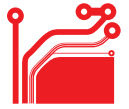
# heavy1



# heavy2

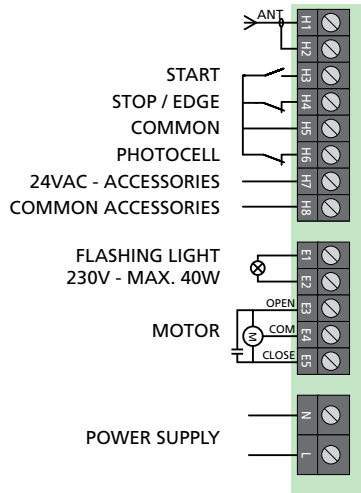


CONTROL UNITS

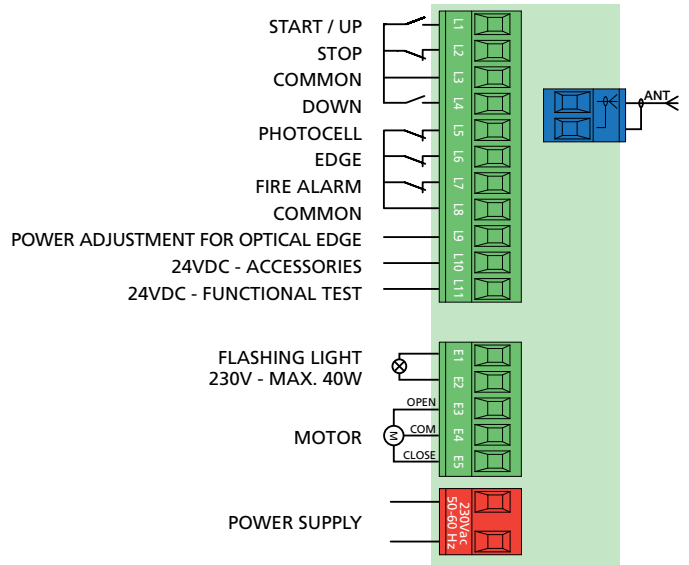


# CONNECTIONS OF THE CONTROL UNITS

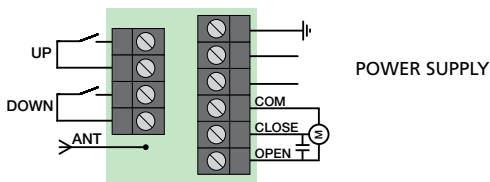
## easy-basic



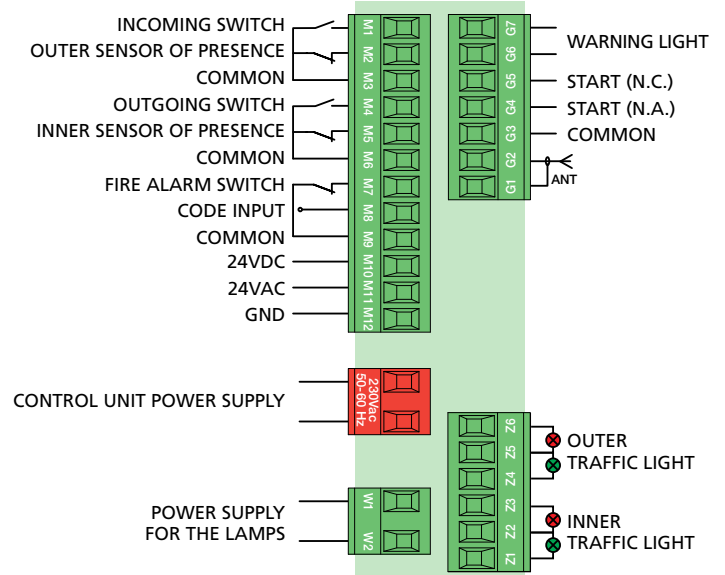
## easy-top - easy-lux



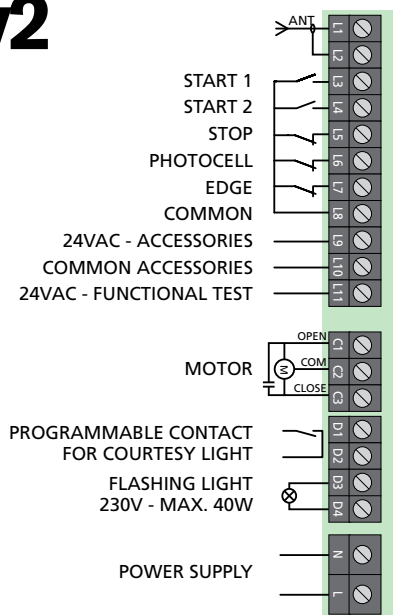
## easy1

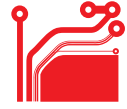


## city5



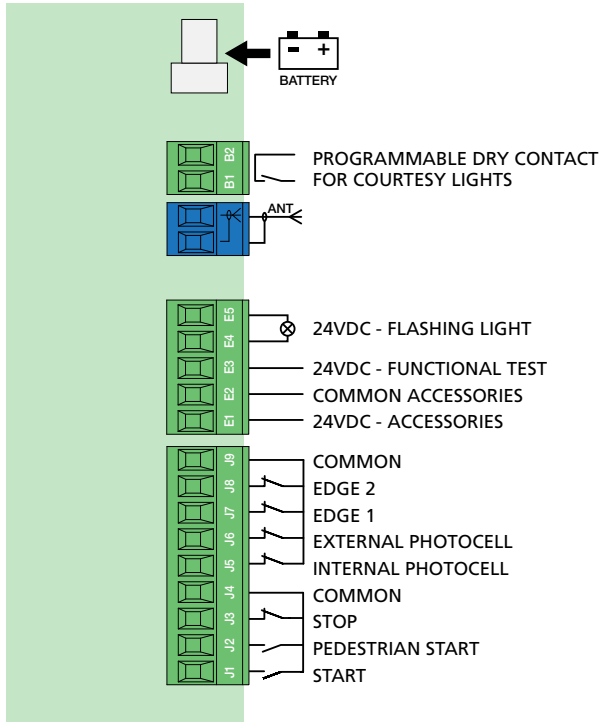
## easy2



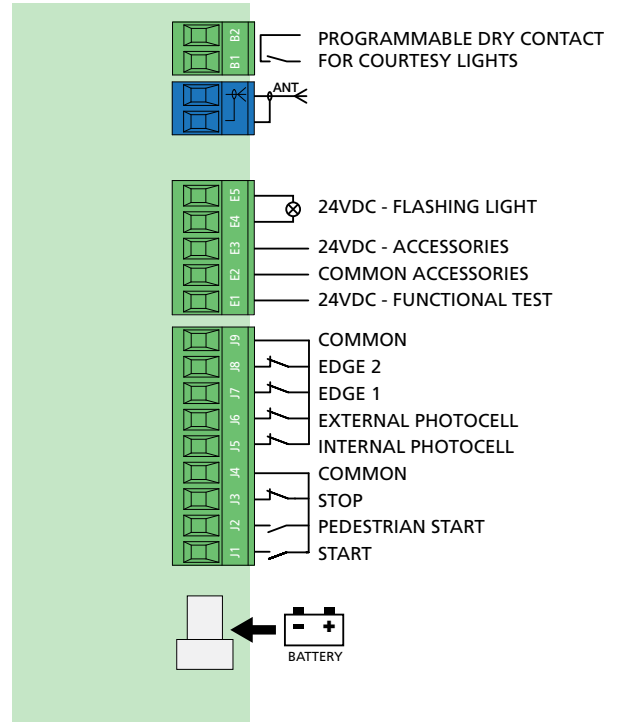


# CONNECTIONS OF THE CONTROL UNITS ON THE MOTORS

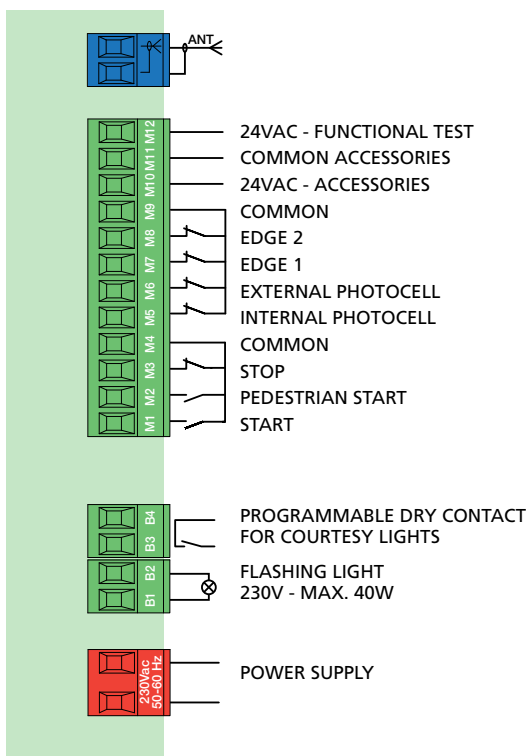
## alfariss



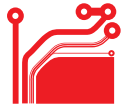
## ayros-24V



## ayros-230V - forteco

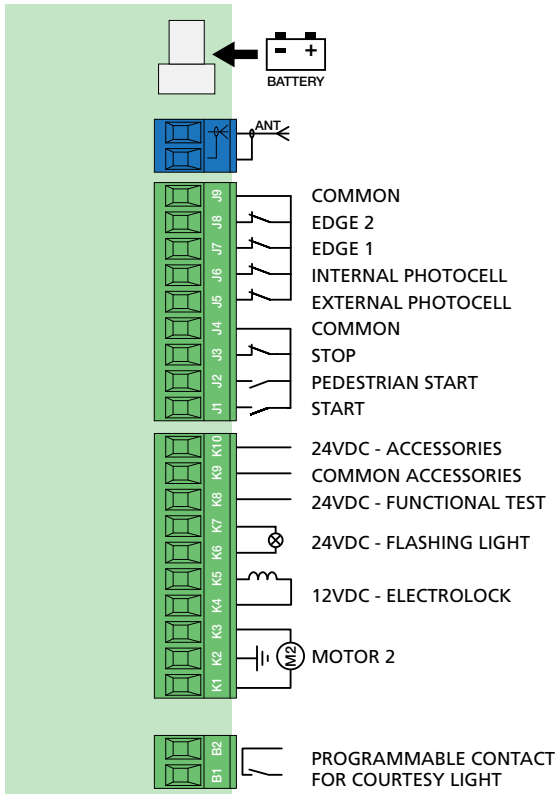




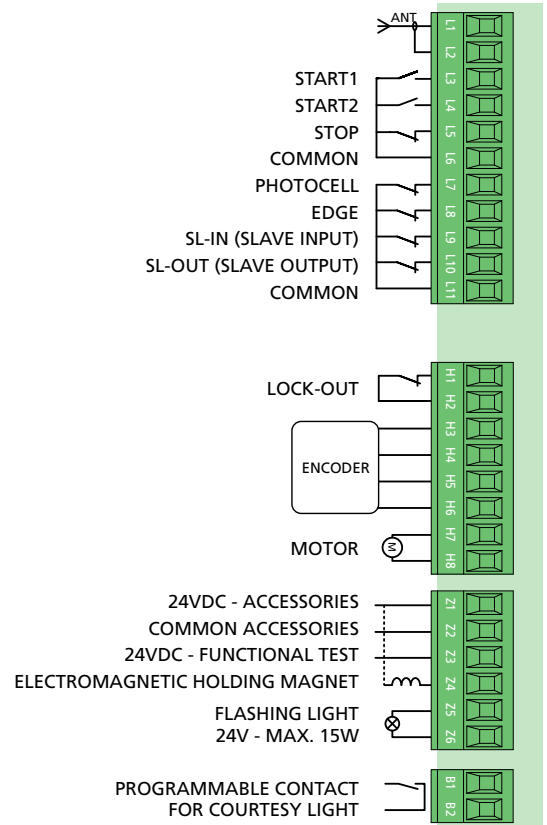


# CONNECTIONS OF THE CONTROL UNITS ON THE MOTORS

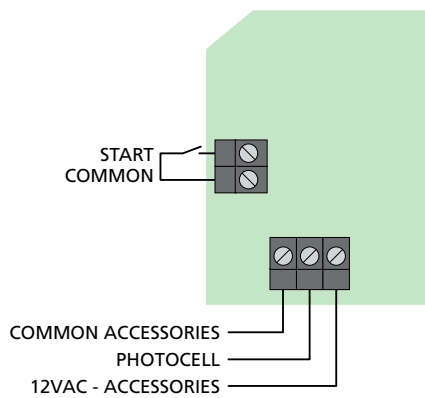
## zariss



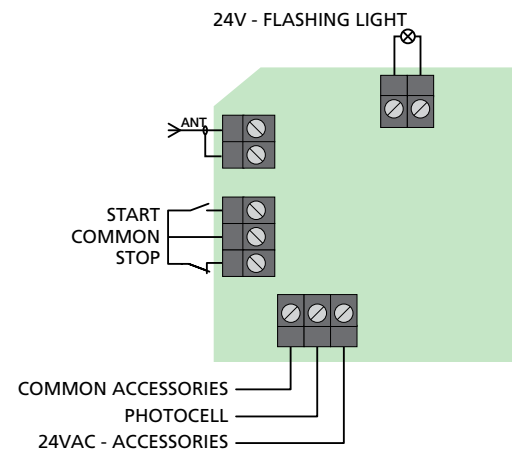
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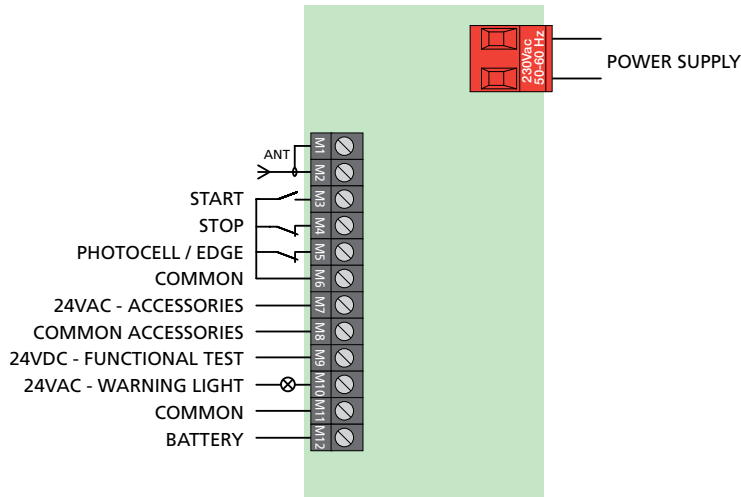
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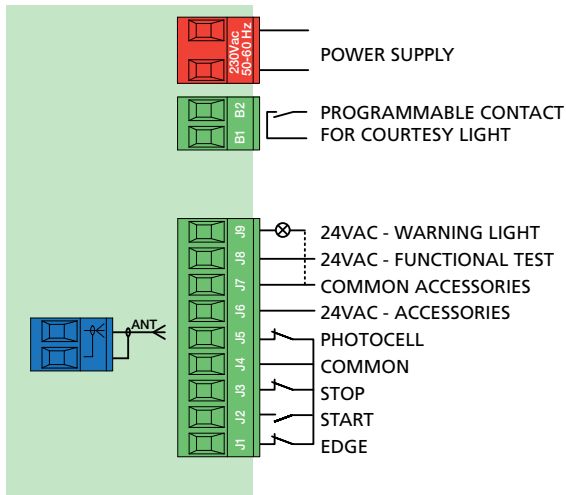
## jedi



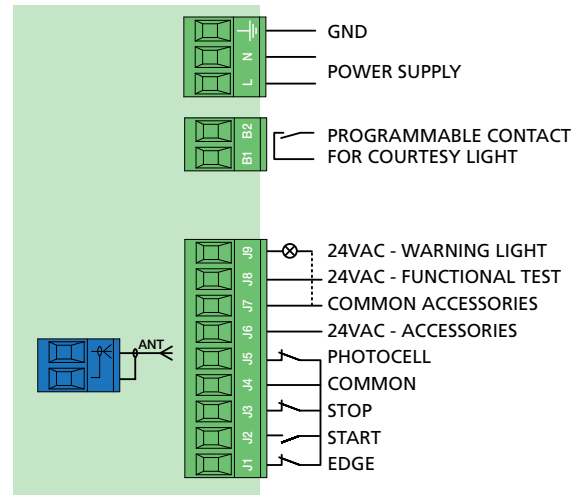
# atris



# vega-c 230V



# vega-24V



CONTROL UNITS

# Value to comfort

Solutions  
that communicate innovation

V2 transmitters and receivers interact with high technology, to simplify the control of each system.

Small in size and intelligent in performance, they offer practical and diversified solutions, to make remote control a more practical, easy and safe possibility.

This is true comfort.

# TRANSMITTERS AND RECEIVERS

















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# TRANSMITTERS AND RECEIVERS

# phox

## Personal Pass transmitter

433.92 - 868.30 MHz  
rolling code



433.92 MHz

868.30 MHz

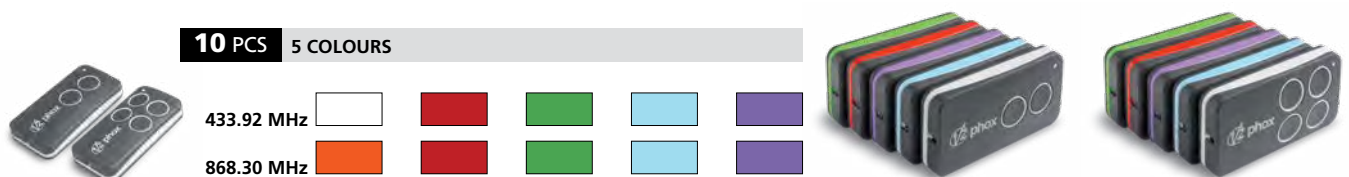
### PLUS

- Rolling code transmission
- 433.92 MHz and 868.30 MHz version
- 2-button and 4-button version, programmable or factory set
- Possibility to obtain up to 14 channels by combining the pressure of multiple buttons
- Programming via radio through Flash-prog and Winppcl without having to remove the transmitter from the single box
- Possibility of programming - using Winppcl - spare transmitters able to replace transmitters previously stored on the system
- Available in multi-colour packs: 10 transmitters in 5 different colours (2 transmitters per colour)

## TECHNICAL FEATURES

MODEL	PHOX2-433	PHOX2P-433	PHOX4-433	PHOX4P-433	PHOX2-868	PHOX2P-868	PHOX4-868	PHOX4P-868
CODE	10V001	10V002	10V003	10V004	10V005	10V006	10V007	10V008
Frequency (MHz)	433.92	433.92	433.92	433.92	868.30	868.30	868.30	868.30
Buttons	2	2	4	4	2	2	4	4
Factory set	•		•		•		•	
To serialize		•		•		•		•
Range in open field (m)	350				250			
Power supply (battery type)	Lithium 3V (CR2032)							
Max. absorption (mA)	< 10							
Dimensions (mm)	32.4 x 63.2 x 9.8							

## MULTI-COLOUR PACK



MODEL	PHOX2-433	PHOX2P-433	PHOX4-433	PHOX4P-433	PHOX2-868	PHOX2P-868	PHOX4-868	PHOX4P-868
CODE	10V501	10V502	10V503	10V504	10V505	10V506	10V507	10V508



# match

## Royal transmitter and copier for fixed codes

433.92 MHz  
Royal / 53200 code



### PLUS

- Ideal to copy all the fixed code transmitters transmitting at 433.92MHz
- Quick, easy programming
- Available in two different colours
- Each button operates independently, so a single MATCH transmitter can store the code of four different transmitters
- Every button is already configured with a ROYAL type code at 20 bit; therefore, MATCH can be used immediately like a regular transmitter
- Possibility to configure the transmission code as 53200 at 12 bit

### TECHNICAL FEATURES

MODEL	MATCH-W	MATCH-B
CODE	10R005	10R006
Frequency (MHz)	433.92	433.92
Colour	white	black
Range in open field (m)	300	
Power supply (battery type)	Lithium 3V (CR2032)	
Max. absorption (mA)	< 8	
Dimensions (mm)	38 x 73 x 10	





## TRANSMITTERS AND RECEIVERS

# tmu100

### 100-channel Personal Pass transmitter with display

433.92 MHz  
rolling code



## PLUS

- Rolling code transmission
- 100 available channels
- Each channel can transmit 2 different commands (OPEN or CLOSE)
- Display to select the channels and the programming steps
- Possibility to program the favourite channel
- Possibility to set the last channel, useful when not using all 100 channels
- Low battery warning
- Ongoing transmission signal

## TECHNICAL FEATURES

MODEL	TMU100
CODE	10M003
Frequency (MHz)	433.92
Range in open field (m)	300
Power supply (battery type)	2 x Lithium 3V (CR2032)
Max. absorption (mA)	< 10
Dimensions (mm)	52 x 124 x 20



# pmr

## Wall-mounted Personal Pass transmitter

433.92 MHz  
rolling code



### PLUS

- Rolling code transmission
- Working range of up to 20 m in closed environments, passing through even 2 main walls, and 200 m in the open
- Option to automatically prolong transmission for 3 seconds
- Automatic 3 time repetition of the last command executed

### TECHNICAL FEATURES

MODEL	PMR2	PMR4
CODE	10K001	10K004
Frequency (MHz)	433.92	433.92
Buttons	2	4
Range in open field (m)	200	
Power supply (battery type)	2 x Lithium 3V (CR1616)	
Max. absorption (mA)	< 11	
Dimensions (mm)	70 x 70 x 17	



## TRANSMITTERS AND RECEIVERS

# wally

### 12/24V outdoor receiver

433.92 - 868.30 MHz  
Personal Pass / Royal



## PLUS

- Operates with Royal or Personal Pass series transmitters: the first remote control to be memorised determines the mode of operation; Royal or Personal Pass
- 433.92 MHz and 868.30 MHz version
- 1, 2 and 4 channel version
- Monostable, bistable or timer operating logic
- Possibility to store up to 1008 different codes
- Sequential storage of transmitters
- Memory full warning
- Self-learning of transmitters managed by radio
- Management of the replacement transmitter
- It is possible to enable or disable the ROLLING CODE mode
- Basic programming using button P1 or advanced programming using the PROG2 programming device and WINPPCL software
- Plug-in terminal board

## TECHNICAL FEATURES

MODEL	WALLY1-U-433	WALLY2-U-433	WALLY4-U-433	WALLY1-U-868	WALLY2-U-868	WALLY4-U-868
CODE	11G050	11G051	11G052	11G053	11G054	11G055
Frequency (MHz)	433.92	433.92	433.92	868.30	868.30	868.30
Channels	1	2	4	1	2	4
Power supply	12 - 24 Vac / 12 - 36 Vdc					
Absorption in stand-by (mA)	16 @ 24 Vdc					
Relay contacts (A)	1 @ 30 Vdc					
Sensibility	≥ -103 dBm					
S/N	> 17dB @ 100dBm m=100%					
Working temperature (°C)	-20 ÷ +60°C					
Protection degree (IP)	55					
Dimensions (mm)	132 x 26 x 74					



# mr2

## Plug-in receiver module for V2 control units

433.92 - 868.30 MHz  
Personal Pass / Royal



### PLUS

- Operates with Royal or Personal Pass series transmitters: the first remote control to be memorised determines the mode of operation; Royal or Personal Pass
- 433.92 MHz and 868.30 MHz version
- 4 programmable channels with monostable, bistable or timer operating logics
- Possibility to store up to 1008 different codes
- Sequential storage of transmitters
- Memory full warning
- Self-learning of transmitters managed by radio
- Management of the replacement transmitter
- It is possible to enable or disable the ROLLING CODE mode
- Basic programming using button P1 or advanced programming using the PROG2 programming device and WINPPCL software

### TECHNICAL FEATURES

MODEL	MR2-U-433	MR2-U-868
CODE	11B047	11B048
Frequency (MHz)	433.92	868.30
Sensibility	≥ -103 dBm	
S/N	> 17dB @ 100dBm m=100%	
Working temperature (°C)	-20 ÷ +60°C	
Dimensions (mm)	52 x 35 x 15	



## TRANSMITTERS AND RECEIVERS

# wally2-230V

### 230V outdoor receiver

433.92 - 868.30 MHz  
Personal Pass / Royal



## PLUS

- Operates with Royal or Personal Pass series transmitters: the first remote control to be memorised determines the mode of operation; Royal or Personal Pass
- 433.92 MHz and 868.30 MHz version
- 2 programmable channels with monostable, bistable or timer operating logics
- Power relay for loads up to 1500W
- Possibility to store up to 240 different codes
- Sequential storage of transmitters
- Memory full warning
- Self-learning of transmitters managed by radio
- Management of the replacement transmitter
- It is possible to enable or disable the ROLLING CODE mode
- Basic programming using button P1 or advanced programming using the PROG2 programming device and WINPPCL software

## TECHNICAL FEATURES

MODEL	WALLY2-230V	WALLY2-230V-868
CODE	11D012	11D014
Frequency (MHz)	433.92	868.30
Power supply (V - Hz)	230 - 50	
Absorption in stand-by (mA)	20	
Relay contacts (A)	10 (@ 250Vac)	
Sensibility	≥ -103 dBm	
S/N	> 17dB @ 100dBm m=100%	
Working temperature (°C)	-20 ÷ +60	
Protection degree (IP)	55	
Dimensions (mm)	113 x 113 x 57	



# rxp4

## 24V outdoor receiver with display

433.92 - 868.30 MHz  
Personal Pass / Royal



### PLUS

- Programming achieved using 3 program buttons and display
- Operates with Royal or Personal Pass series transmitters: the first remote control to be memorised determines the mode of operation; Royal or Personal Pass
- 433.92 MHz and 868.30 MHz version
- 4 programmable channels with monostable, bistable or timer operating logics
- Relay outputs 2 - 3 - 4 with N.O. or N.C. contact that can be selected using the jumpers
- Possibility to store up to 1008 different codes
- Sequential storage of transmitters
- Memory full warning
- Self-learning of transmitters managed by radio
- Management of the replacement transmitter
- It is possible to enable or disable the ROLLING CODE mode
- Saving data on MR2 removable receiver module
- Data management via PROG2 and WINPPCL by inserting the removable module MR2 into connector TX of PROG2

### TECHNICAL FEATURES

MODEL	RXP4-433	RXP4-868
CODE	11D017	11D018
Frequency (MHz)	433.92	868.30
Power supply	12-24 Vac/dc / 12-36 Vdc	
Absorption in stand-by (mA)	16 @ 24 Vdc	
Relay contacts (A)	relè 1 = 5A - 230Vac / relè 2 = 1A - 30Vdc / relè 3 = 1A - 30Vdc / relè 4 = 1A - 30Vdc	
Sensibility	≥ -103 dBm	
S/N	> 17dB @ 100dBm m=100%	
Working temperature (°C)	-20 ÷ +60	
Protection degree (IP)	55	
Dimensions (mm)	170 x 185 x 70	



# prog2

Portable programming device



## PLUS

- Programming with random codes of blank transmitters
- Connector for memory modules and receivers of the series WALLY/MR2 to view, change, delete (partially or fully) the stored codes
- USB connector for PC connection and installation data management by means of the WINPPCL software

MODEL	PROG2-USB 433	PROG2-USB 868
CODE	161006	161007
Frequency (MHz)	433.92	868.30

# flash-prog

Quick programmer for phox transmitters



## PLUS

- Programming via radio of PHOX transmitters by simply placing the remote control on the programmer and proceeding with programming with Winppcl
- Dual frequency: enables programming 433.92 MHz and 868.30 MHz transmitters
- Direct connection to a PC via USB port
- Possibility to manage programming also via PROG2

MODEL	FLASH-PROG
CODE	161009



# winppcl

## Administration software



### PLUS

WINPPCL software is a program allowing the storage, consultation and updating of all the data and all the settings of the systems by using a Data Base.

WINPPCL can be used both by itself and also when connected to the PROG2 portable programming device. In the former case, it is only possible to work with the Data Base, while in the latter case, all the V2 device read/write operations can be performed.

In order to be able to use WINPPCL, it is necessary to obtain a contract activation code from V2 which will allow the devices to be customized with their own client codes.

It allows the installers to optimise their time by programming all the V2 transmitters and receivers directly in their own workshop.

The configuration settings are then simply transferred to the receivers or the memory devices using the PROG2 device and installed on the system on site.

It allows rapid activation of a new user thanks to the option to automatically generate a series of random codes and then downloading them onto the receiver.

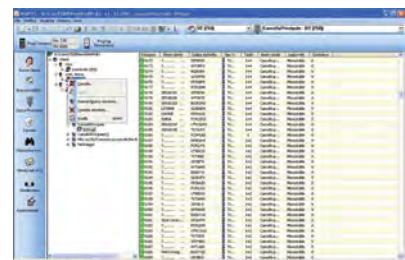
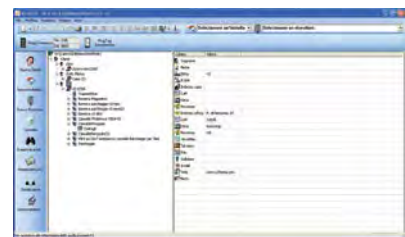
To activate a new user, simply program a blank transmitter with one of the codes already present in the memory.

WINPPCL also automatically checks the random codes generated in order to prevent preexisting codes from being created.

It allows printing and exporting of all information regarding users, transmitters, receivers and installations.

It allows tracing a transmitter within the database by displaying the receivers in which it is present.

It allows the generation of transmitters, capable of substituting a transmitter previously memorised in a WALLY/MR2 series receiver, via radio.



<b>MODEL</b>	<b>WINPPCL</b>
<b>CODE</b>	<b>21A001</b>





## TRANSMITTERS AND RECEIVERS

# dev-r1

### Miniaturized receiver to control a single phase asynchronous motor

433.92 - 868.30 MHz  
Personal Pass



#### PLUS

- Power supply with extended range
- Very low power consumption in stand-by
- 433.92 MHz and 868.30 MHz version
- Compatible with Personal Pass transmitters
- Possibility to store up to 30 different codes
- Two wired inputs: up and down
- Integrated button for programming operations
- Sequential storage of transmitters
- Self-learning of transmitters managed by radio

# dev-r2

### Miniaturized receiver to control a load up to 500W

433.92 - 868.30 MHz  
Personal Pass



#### PLUS

- Power supply with extended range
- Very low power consumption in stand-by
- 433.92 MHz and 868.30 MHz version
- Compatible with Personal Pass transmitters
- Possibility to store up to 30 different codes
- Two wired inputs: up and down
- Relay output with no-voltage contacts for loads of up to 500W
- Integrated button for programming operations
- Sequential storage of transmitters
- Self-learning of transmitters managed by radio



# dev-t1

## Personal Pass miniaturized transmitter

433.92 - 868.30 MHz  
rolling code

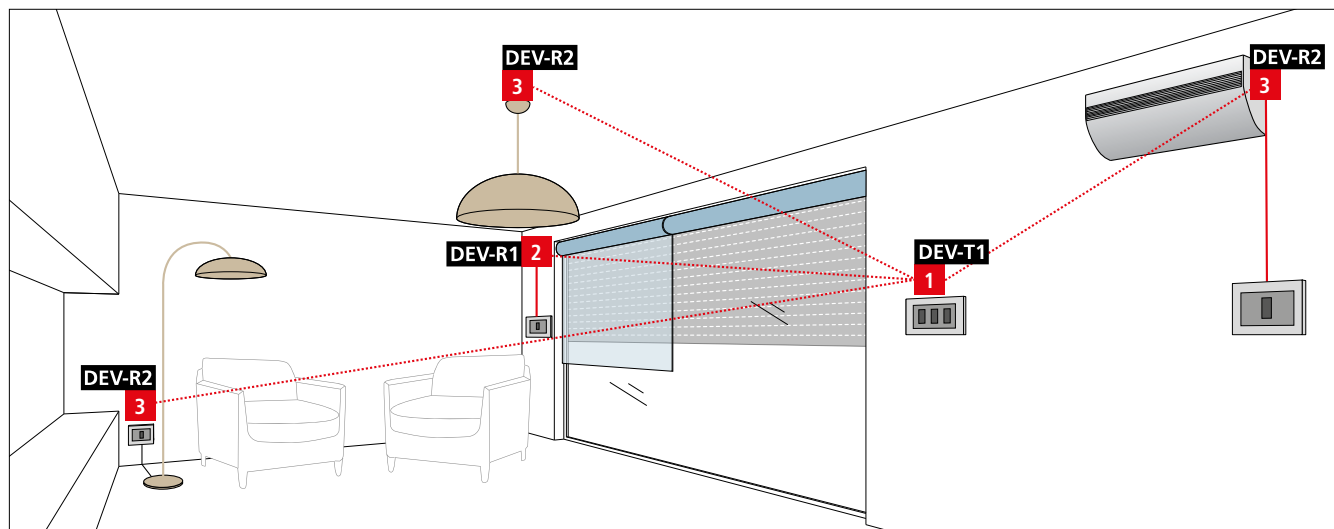


### PLUS

- Power supply with extended range
- Very low power consumption in stand-by
- 4 wired inputs for N.O. buttons
- 433.92 MHz and 868.30 MHz version

### TECHNICAL FEATURES

MODEL	DEV-R1-433	DEV-R2-433	DEV-T1-433	DEV-R1-868	DEV-R2-868	DEV-T1-868
CODE	12E105	11D021	10K022	12E106	11D022	10K023
Power supply (Vac - Hz)	85 ÷ 260 - 50/60	85 ÷ 260 - 50/60	85 ÷ 260 - 50/60	85 ÷ 260 - 50/60	85 ÷ 260 - 50/60	85 ÷ 260 - 50/60
Frequency (MHz)	433.92	433.92	433.92	868.30	868.30	868.30
Absorption in stand-by (mA)	0.25	0.25	0.15	0.25	0.25	0.15
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Maximum operating time (s)	120	-	120	120	-	120
Dimensions (mm)	20.3 x 34.4 x 41	20.3 x 34.4 x 41	20.3 x 34.4 x 41	20.3 x 34.4 x 41	20.3 x 34.4 x 41	20.3 x 34.4 x 41



# Value to safety

Your desire of protection  
is safe with us

Since V2 offers a full range of useful suggestions to complete a perfect security system, designed for any environment, public or private: photocells, proximity system and every type of accessories. In addition, the professional advice by V2, to find a customized solution. Protect what you care about most.

## SECURITY DEVICES AND ACCESSORIES










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# eco-logic

## Solar energy kit



### PLUS

- ECO-LOGIC is the new V2 system to power the 24V automations with just solar energy
- This system allows the automation of installations, very far from the mains, without excavation works
- The panel converts the solar light into electric energy, stored in the battery box
- The battery box provides full autonomy to V2 24V systems, day and night and even after long periods of bad weather
- In the event of batteries being fully discharged, a quick charge is available via the additional 230V power adaptor
- Possibility to install an additional panel for intensive use or installed in the shade automations

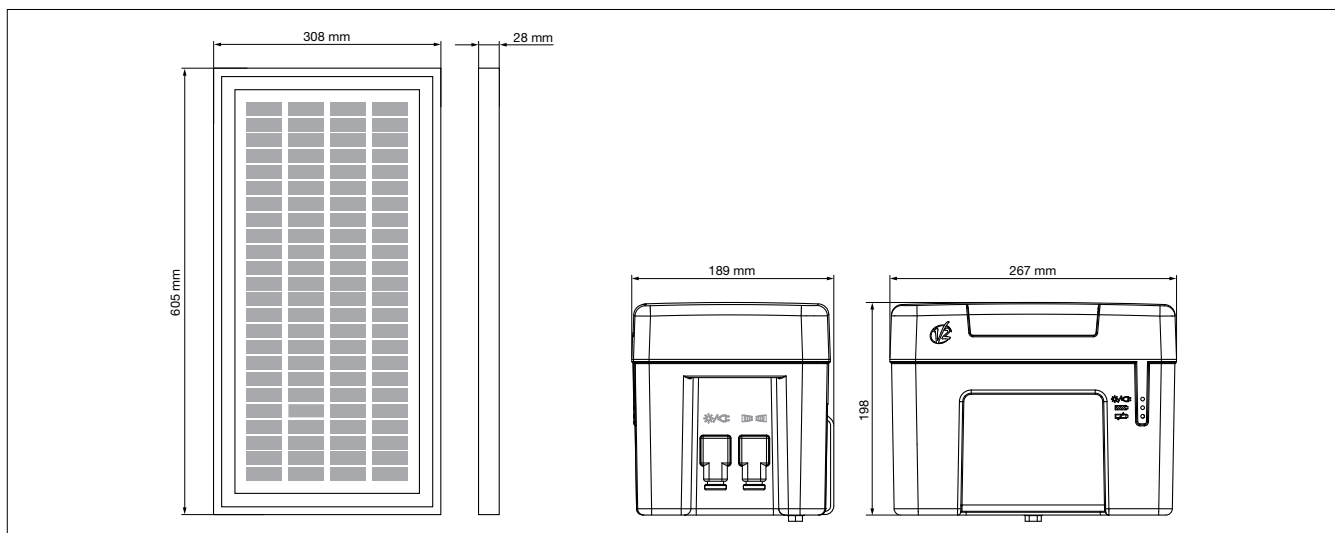
## TECHNICAL FEATURES

Description	ECO-LOGIC accumulator unit	ECO-LOGIC solar panel	ECO-LOGIC mains power supply
<b>MODEL</b>	<b>ECO-LOGIC</b>		-
<b>CODE</b>	<b>28A034</b>		<b>172802</b>
Voltage output towards the control unit (Vdc)	24 - 28	-	-
Maximum voltage without load (Vdc)	-	42	-
Voltage at maximum power point (Vdc)	-	33.6	-
Power supply (Vac - Hz)	-	-	230 - 50
Maximum current (A)	16	-	-
Peak nominal power (W)	-	20	-
Nominal power (W)	-	-	36
Battery capacity (Ah)	18	-	-
Mains recharge time (h)	~15	-	-
Protection degree (IP)	44	-	-
Working temperature (°C)	0 ÷ +40 (charging) -20 ÷ +50 (in use)	-20 ÷ +80	0 ÷ +30
Weight (Kg)	12	2.2	1.7

**BATTERY BOX**



- Three led on the front of the unit indicate the charge level of the batteries
- Two simple plug in connectors at the side of the unit provide quick and easy connection of both the control unit and solar panel
- The connector used for solar panel can also be connected to the auxiliary power supply



SECURITY DEVICES AND ACCESSORIES

**ACCESSORIES**



<b>172802</b>	<b>172801</b>
Auxiliary power supply for mains charging	Additional solar panel





# sirmo

## Key switch with European cylinder



### PLUS

- Die-cast aluminium frame
- Burglar-proof
- Inner seal to ensure maximum tightness of the container
- Electrical contacts and levers protected by a plastic casing
- Available in recessed, wall-mounted and pillar version
- Pillar version compatible with GARDO pillars (in the same colour of the front cover of the pillar)
- Possibility to manage multiple switches with the same lock, replacing the key knob supplied with the accessory one. 8 sets of knobs are available with the following codes:  
172003 - 172004 - 172005 - 172006  
172007 - 172008 - 172009 - 172010

### TECHNICAL FEATURES

Description	key switch recessed-mounted	key switch wall-mounted	key switch pillar-mounted
<b>MODEL</b>	<b>SIRMO-I</b>	<b>SIRMO-E</b>	<b>SIRMO-G</b>
<b>CODE</b>	<b>20A008</b>	<b>20A006</b>	<b>20A007</b>
Dimensions (mm)	82 x 77 x 62	82 x 77 x 52	82 x 77 x 52
Working temperature (°C)	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C
Protection degree (IP)	44	44	44



# sirmo-digit

Digital radio or wired switch



## PLUS

- Die-cast aluminium frame
- Inner seal to ensure maximum tightness of the container
- Safe enabling by typing a custom combination from 1 to 8 digits
- Possibility to program up to 9 different channels
- Wall-mounted and pillar version
- Pillar version compatible with GARDO pillars (in the same colour of the front cover of the pillar)
- Rolling code radio version (works like a normal Personal Pass transmitter)
- Wired version that can be interfaced with the DEC4 and RXP4-C decoders
- Backlit keyboard

## TECHNICAL FEATURES

Description	digital switch radio, wall-mounted	digital switch radio, wall-mounted	digital switch radio, pillar-mounted	digital switch radio, pillar-mounted	digital switch wired, wall-mounted	digital switch wired, pillar-mounted
<b>MODEL</b>	<b>SIRMO-DE</b>	<b>SIRMO-DE 868</b>	<b>SIRMO-DG</b>	<b>SIRMO-DG 868</b>	<b>SIRMO-DEC</b>	<b>SIRMO-DGC</b>
<b>CODE</b>	<b>10L009</b>	<b>10L012</b>	<b>10L010</b>	<b>10L013</b>	<b>20A009</b>	<b>20A011</b>
Frequency (MHz)	433.92	868.30	433.92	868.30	-	-
Power supply (Vac)	2 x 1.5V alkaline 1100 mA	2 x 1.5V alkaline 1100 mA	2 x 1.5V alkaline 1100 mA	2 x 1.5V alkaline 1100 mA	12-24 Vac/dc	12-24 Vac/dc
Max. absorption (mA)	25	40	25	40	35	35
Range in open field (m)	150	100	150	100	-	-
Working temperature (°C)	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C
Protection degree (IP)	55	55	55	55	55	55
Dimensions (mm)	82 x 77 x 32	82 x 77 x 32	82 x 77 x 52	82 x 77 x 52	82 x 77 x 32	82 x 77 x 52



# next

## Radio proximity system (READ ONLY keys)



next-tag



next-card



master

### PLUS

- The digital radio switch NEXT does not need any electrical wiring and sends a code compatible with Personal Pass transmitters (433.92 MHz)
- NEXT must be initialized with a MASTER card (supplied with the reader) that can be serialized with PROGTAG-USB and WINPPCL
- The READ ONLY access keys (NEXT-TAG and NEXT-CARD models) are factory set and have to be stored in the proximity reader (up to 400 keys)
- The stored keys enable the radio transmission of the code with active Rolling code
- Visual signalling through LED and acoustic through internal buzzer
- Low battery warning
- Wall-mounted and pillar version
- Pillar version compatible with GARDO pillars (in the same colour of the front cover of the pillar)
- Die-cast aluminium frame
- Inner seal to ensure maximum tightness of the container

### TECHNICAL FEATURES

Description	proximity reader wall-mounted	proximity reader pillar-mounted	proximity key	proximity card
<b>MODEL</b>	<b>NEXT-RSE</b>	<b>NEXT-RSG</b>	<b>NEXT-TAG</b>	<b>NEXT-CARD</b>
<b>CODE</b>	<b>15G001</b>	<b>15G002</b>	<b>15F001</b>	<b>15E001</b>
Frequency (MHz)	433.92	433.92	125 KHz	125 KHz
Power supply (Vac)	2 x 1.5V alkaline 1100 mA	2 x 1.5V alkaline 1100 mA	-	-
Max. absorption (mA)	60	60	-	-
Range in open field (m)	150	150	0.04	0.04
Working temperature (°C)	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C
Protection degree (IP)	55	55	55	55
Dimensions (mm)	82 x 77 x 32	82 x 77 x 52	30 x 36 x 6	85 x 54



# proksima

**Proximity system  
(READ & WRITE keys)**



vtr



vcr



prog-tag

## PLUS

- Proximity systems are used with automation systems where it is necessary to use customized keys or passes to control access
- The proximity reader must be interfaced with a DEC4 or RXP4-C decoder
- The keys and proximity cards are stored in the decoder
- Just move a key or a card near a Proksima reader to execute the command set in the decoder
- Proximity keys and passes can be factory serialised by V2 or programmed by the installer using the Protag terminal running WINPPCL interface software
- The keys and proximity cards are "read & write" devices that can be reprogrammed countless times. The access device programming code is unique and extremely safe
- Visual signalling through LED and acoustic through internal buzzer
- Wall-mounted and pillar version
- Pillar version compatible with GARDO pillars (in the same colour of the front cover of the pillar)
- Die-cast aluminium frame
- Inner seal to ensure maximum tightness of the container

## TECHNICAL FEATURES

Description	proximity reader wall-mounted	proximity reader pillar-mounted	serialised proximity key*	serialised proximity card**	device for programming proximity cards and passes
MODEL	PROKSIMA-EC	PROKSIMA-GC	VTR	VCR	PROGTAG-USB
CODE	15C003	15C004	15B001	15A002	161502
Frequency (KHz)	-	-	125	125	-
Power supply (Vac)	12-24 Vac/dc	12-24 Vac/dc	-	-	USB
Absorption (mW)	700	700	-	-	-
Working temperature (°C)	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C	- 20 ÷ + 55 °C
Protection degree (IP)	55	55	55	55	55
Dimensions (mm)	82 x 77 x 32	82 x 77 x 52	22 x 30 x 5	85 x 54	100 x 195 x 40

\* the code 15B003 is the proximity key to serialize  
\*\* the code 15A003 is the proximity card to serialize



# dec4-plus

## Remote decoder



### PLUS

- Programming via button and LED
- 4 normally open output relays
- Option to select the output type: monostable, step or timer
- Sequential storing of access devices
- Possibility to store up to 1008 different codes
- Memory full warning
- Basic programming using button or advanced programming using the PROG2 programming device and WINPPCL software
- Plug-in terminal board

## TECHNICAL FEATURES

Description	remote decoder
<b>MODEL</b>	<b>DEC4-PLUS</b>
<b>CODE</b>	<b>15D003</b>
Power supply (Vac/dc)	12-24
Absorption in stand-by (mA)	17
Relay contact (A)	1 @ 30 Vdc
Maximum data wire length (m)	100
Working temperature (°C)	- 20 ÷ + 60
Protection degree (IP)	55
Dimensions (mm)	74 x 132 x 26



# rxp4-c

## Remote decoder with display



### PLUS

- Programming achieved using 3 program buttons and display
- 4 programmable channels with monostable, bistable or timer operating logics
- Relay outputs 2 - 3 - 4 with N.O. or N.C. contact that can be selected using the jumpers
- Possibility to store up to 1008 different codes
- Sequential storing of access devices
- Memory full warning
- Saving data on MR2 removable receiver module
- Data management via PROG2 and WINPPCL by inserting the removable module MR2 into connector TX of PROG2

### TECHNICAL FEATURES

Description	remote decoder with display
<b>MODEL</b>	<b>RXP4-C</b>
<b>CODE</b>	<b>15D004</b>
Power supply (Vac/dc)	12-24 Vac/dc / 12-36 Vdc
Absorption in stand-by (mA)	16 @ 24 Vdc
Relay contact (A)	relay 1 = 5A - 230Vac / relay 2 = 1A - 30Vdc / relay 3 = 1A - 30Vdc / relay 4 = 1A - 30Vdc
Maximum data wire length (m)	100
Working temperature (°C)	- 20 ÷ + 60
Protection degree (IP)	55
Dimensions (mm)	170 x 185 x 70



# gardo

## Aluminium pillars for photocells and accessories



### PLUS

- Photocells can be easily mounted on Gardo pillars at the desired height, granting them total protection
- Gardo pillars do not need accessories for the mounting of key and digital switches on the upper side
- Aluminium frame
- Polycarbonate front cover
- 3 point ground anchoring

### TECHNICAL FEATURES

Description	pair of pillars	single pillar
<b>MODEL</b>	<b>GARDO50</b>	<b>GARDO100</b>
<b>CODE</b>	<b>161303</b>	<b>161302</b>
Height (cm)	50	100



# lumos

## Led flashing light

### PLUS

- Led device that does not need any maintenance
- Multivoltage technology enabling operation of the flashing light with a wide range of power supplies (24 to 230V)
- Automatic built-in intermittence circuit
- Can be installed on a flat surface or on wall using the bracket supplied with the product
- Built-in antenna



### TECHNICAL FEATURES

MODEL	LUMOS-M
<b>CODE</b>	<b>14C003</b>
Power supply (Vac/dc)	24 ÷ 300Vdc / 24 ÷ 230Vac - 50Hz
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54
Dimensions (mm)	136 x 82 x 35

# blinko

## Led flashing light

### PLUS

- Led device that does not need any maintenance
- Multivoltage technology enabling operation of the flashing light with a wide range of power supplies (24 to 230V)
- Automatic built-in intermittence circuit



### TECHNICAL FEATURES

MODEL	BLINKO-M
<b>CODE</b>	<b>14D005</b>
Power supply (Vac/dc)	24 ÷ 300Vdc / 24 ÷ 230Vac - 50Hz
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54
Dimensions (mm)	90 x 43 x 36





# ml6

## Multivoltage led module

### PLUS

- Led device that does not need any maintenance
- It replaces normal filament bulbs inside the already-installed flashing lights
- It is suitable for all types of flashing lights thanks to multi-voltage technology
- Easy installation thanks to a screw connector for using ML6 on common couplings of E14 bulbs
- Its extractable terminal board prevents cable twisting during installation



### TECHNICAL FEATURES

MODEL	ML6
CODE	14A005
Power supply (Vac/dc)	24 ÷ 300Vdc / 24 ÷ 230Vac - 50Hz
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	74 x 32 x 30

# fza

## Traffic light

### PLUS

- 24V traffic light with two lamps: green and red
- Body in painted aluminium with nylon parts
- 3W LED bulbs
- Adjustable up to 200° in horizontal plane
- Screen for bulb Ø 120 mm in polymethacrylate



### TECHNICAL FEATURES

MODEL	FZA-24V
CODE	161220
Power supply (Vac/dc)	24
Working temperature (°C)	-30 ÷ +80
Protection degree (IP)	65
Dimensions (mm)	180 x 410 x 290



# ans433

Outdoor antenna  
with protective  
covering for  
receivers provided  
with 2.5 m RG-58  
cable



## TECHNICAL FEATURES

MODEL	ANS433
CODE	19A001
Frequency (MHz)	433 ÷ 868
Impedence (Ohm)	50
Gain (db)	2,5



# sensiva-xs

**Miniaturized wall- and pillar-mounted photocells, synchronised and self-aligning**

## PLUS

- Very small size (84x29x24 mm)
- They can be installed inside the GARDO pillars
- Synchronised: the synchronism circuit allows the installation of two pairs of very close photocells, without them interfering with one another
- Secure: immune to interference from sunlight



## TECHNICAL FEATURES

MODEL	SENSIVA-XS
CODE	13C002
Optical range (m)	20
Dimensions (mm)	29 x 84 x 24
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54

# sensiva-180

**Wall-mounted photocells, adjustable (180°) and synchronised**

## PLUS

- Adjustable up to 180° on the horizontal axis and 30° on the vertical axis
- Synchronised: the synchronism circuit allows the installation of two pairs of very close photocells, without them interfering with one another
- Secure: immune to interference from sunlight



## TECHNICAL FEATURES

MODEL	SENSIVA-180
CODE	13C003
Optical range (m)	20
Dimensions (mm)	41 x 115 x 38
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54



# sensiva-plus

Wall-mounted photocells, synchronized (up to 8 pairs of devices) and adjustable (180°)

## PLUS

- Synchronized: ability to set 8 different transmission codes to simultaneously use 8 pairs of photocells without mutual interference
- Adjustable up to 180° on the horizontal axis and 30° on the vertical axis
- Automatic slow down of the detection signal in the event of snow to avoid undesired activations caused by the fall of the flakes



### TECHNICAL FEATURES

MODEL	SENSIVA-PLUS
CODE	13C004
Optical range (m)	20
Dimensions (mm)	41 x 115 x 38
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54

# sensiva-wl

Synchronized, adjustable (180°), wall mounted photocells with battery powered transmitter

## PLUS

- Possibility to connect a resistive or traditional safety edge on the transmitter
- Synchronised: ability to set two different transmission codes to simultaneously use two pairs of photocells without mutual interference
- Adjustable up to 180° on the horizontal axis and 30° on the vertical axis
- Automatic slow down of the detection signal in the event of snow to avoid undesired activations caused by the fall of the flakes



### TECHNICAL FEATURES

MODEL	SENSIVA-WL
CODE	13C005
Optical range (m)	20
Dimensions (mm)	41 x 115 x 38
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54



# sensiva

## Synchronised, adjustable wall- and pillar-mounted photocells

### PLUS

- They can be installed inside the GARDO pillars
- Adjustable by 30°
- Synchronised: the synchronism circuit allows the installation of two pairs of very close photocells, without them interfering with one another
- Secure: immune to interference from sunlight



### TECHNICAL FEATURES

MODEL	SENSIVA
CODE	13C001
Optical range (m)	25
Dimensions (mm)	42 x 90 x 36
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54

# dfn

## Synchronised, self-aligning wall- and recessed-mounted photocells

### PLUS

- Synchronised: the synchronism circuit allows the installation of two pairs of very close photocells, without them interfering with one another
- Secure: immune to interference from sunlight



### TECHNICAL FEATURES

MODEL	DFN
CODE	13A001
Optical range (m)	25
Dimensions (mm)	66 x 76 x 30
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	54



# shield-180

Armoured wall-mounted photocells adjustable (180°) and synchronised



## PLUS

- Shockproof aluminium cover
- Adjustable up to 180° on the horizontal axis and 30° on the vertical axis
- Synchronised: the synchronism circuit allows the installation of two pairs of very close photocells, without them interfering with one another
- Secure: immune to interference from sunlight

## TECHNICAL FEATURES

MODEL	SHIELD-180
CODE	13C007
Optical range (m)	20
Dimensions (mm)	74 x 141 x 55
Power supply	12÷24 Vac / 12÷36 Vdc
Relay contact (A)	1 (max 30 Vdc)
Working temperature (°C)	-20 ÷ +60
Protection degree (IP)	55

# reflex

Reflective photocells

pmp12



pc50



## PLUS

- **pmp12**: equipped with cable glands with gaskets and mounting bracket
- **pc50**: equipped with 4 m pre-wired cable and mounting bracket

## TECHNICAL FEATURES

MODEL	PMP12	PC50
CODE	13D007	13D006
Optical range (m)	10	6
Dimensions (mm)	65 x 25 x 81	50 x 17 x 50
Power supply	24 Vac/dc	12-240 Vdc / 24-240 Vac
Relay contact (A)	3	1
Working temperature (°C)	-10 ÷ +55	-20 ÷ +60



161304

Reflector Ø 80 mm

161305

Reflector 40 x 60 mm

161306

Reflector 84 x 84 mm

161307

White metal container for PMP12

161308

White cover for metal reflector



# WES

## Radio control system for safety edges



### PLUS

WES (Wireless Edge System) is the new V2 system allowing safety edges to be controlled by radio.

The system consists of a base unit connected directly to the control unit and one or more sensors connected to the safety edges.

The base unit is powered from the control unit and constantly monitors the status of the sensors connected.

Up to a maximum of 8 sensors can be connected to each base unit.

Each sensor is able to control up to 2 traditional safety edges with N.C. contact or resistive safety edges (8,2kohm).

The system is compatible with any control unit.

As an alternative to the WES base, you can use the additional modules of the control units WES-ADI (p. 122) and WES-EASY (p. 123).

## TECHNICAL FEATURES

Description	base	sensor
<b>MODEL</b>	<b>WES-BASE</b>	<b>WES-SENSOR</b>
<b>CODE</b>	<b>35B022</b>	<b>35B021</b>
Power supply (Vac/dc)	12 / 24	2 x LR6/AA (1.5V-2600mAh)
Absorbed power (W)	0.75	-
Stand-by time	-	> 2 years
Outputs (relay switch)	2 safety edge alarms - 1 low battery warning 1 global signal	-
Number of sensors	up to 8	-
Number of radio channels	16	-
Inputs	-	2 mechanical or resistive safety edges
Maximum range (m)	-	10
Working temperature (°C)	- 20 ÷ + 60	- 15 ÷ + 50
Protection degree (IP)	55	54
Dimensions (mm)	125 x 56 x 23	170.5 x 45 x 19.5



**Inductive loop detectors**



**PLUS**

- Detection system controlled by a microprocessor which enables achieving a remarkable accuracy and user notification by means of LED messages
- 4 adjustable sensitivity levels (for two-channels: can be set separately for each sensor)
- The modular container can be fitted into the DIN rail

**SINGLE-CHANNEL DETECTOR**

- 2 output relays: 1 permanent, 1 pulse
- The permanent output relay can be set normally open or normally closed

**TWO-CHANNEL DETECTOR**

- Presence detection function: reports the presence of a vehicle through relay 1 and relay 2 pulse when the vehicle leaves the sensor
- Transit direction detection function (output that can be set either to fixed or pulse): activation of relay 1 for a transit direction and the other relay for the other direction

**TECHNICAL FEATURES**

Description	single-channel detector	two-channel detector
<b>MODEL</b>	<b>VEK1</b>	<b>VEK2</b>
<b>CODE</b>	<b>162241</b>	<b>162242</b>
Power supply (Vac/dc)	24 (+/- 10%)	24 (+/- 10%)
Absorbed power (W)	1,5	2
Outputs (relay switch)	1 permanent relay 1 pulse relay	2 permanent relays
Frequency (KHz)	30 ÷ 130	30 ÷ 130
Dimensions (mm)	79 x 22,5 x 90	79 x 22,5 x 90

**ACCESSORIES**



CAB105	CAB106	CAB107
Perimeter wire (6 m)	Perimeter wire (9 m)	Perimeter wire (12 m)





# touch-cmm

## Mechanical safety edges



### PLUS

They use a rigid metal wire as the sensitive element inside a rubber body.

The device is activated by exerting pressure on the edge.

The signal, once detected and intercepted by the control unit, is transduced into the motion block.

The mechanical safety edges are pre-assembled on aluminium strips and are available in various lengths: 1.5 m, 1.7 m, 2.0 m.

## TECHNICAL FEATURES

Description	mechanical safety edge length 1.5 m	mechanical safety edge length 1.7 m	mechanical safety edge length 2 m
<b>MODEL</b>	<b>TOUCH-CMM150</b>	<b>TOUCH-CMM170</b>	<b>TOUCH-CMM200</b>
<b>CODE</b>	<b>162301</b>	<b>162302</b>	<b>162303</b>



# touch-r

## Resistive safety edges

### PLUS

Constant monitoring is achieved using the closed-circuit principle.

The last safety contact edge in a possible serial connection is fitted with a terminal resistor, which is continuously monitored by an electronic evaluation unit.

Thus allowing the entire circuit to be monitored for shorts and wire breaks.



## TECHNICAL FEATURES

	aluminium strip length 2 m	aluminium strip length 3 m	rubber strip length 25 m	Kit: end plugs + cable inserts and resistance
<b>MODEL</b> <b>CODE</b>	<b>TOUCH-RLA02</b> <b>35B003</b>	<b>TOUCH-RLA03</b> <b>35B004</b>	<b>TOUCH-RLG25</b> <b>35B005</b>	<b>KIT TOUCH-RL</b> <b>35B017</b>

	aluminium strip length 2 m	aluminium strip length 3 m	rubber strip length 25 m	Kit: end plugs + cable inserts and resistance
<b>MODEL</b> <b>CODE</b>	<b>TOUCH-RHA02</b> <b>35B011</b>	<b>TOUCH-RHA03</b> <b>35B012</b>	<b>TOUCH-RHG25</b> <b>35B013</b>	<b>KIT TOUCH-RH</b> <b>35B018</b>

	glue (20 g)	reagent (10 ml)
<b>MODEL</b> <b>CODE</b>	<b>TOUCH-COLLA</b> <b>35B019</b>	<b>TOUCH-REAG</b> <b>35B020</b>



# feel

## Optical safety edges

### PLUS

The optical safety edges are made of EPDM rubber (resistant to temperatures ranging from -50° to +150°) and a system of watertight reception/transmission photocells, very small, used in industrial applications and already tested in very hostile environments such as tunnel washing systems.

The operation is very simple: when the rubber is deformed by an external body, the cell radius is interrupted. Then, information is transmitted to a card with active safety system with input for automatic operation control.

The edge can be compressed by more than 1 cm (FEEL-HG20) along its entire length (including photocells) without detection. This enables safe use on shutters or sectional doors.

The IP68 resin, the infrared technology (emission through fluids) and the absence of electricity in the rubber ensure operation under any conditions, even in case of water infiltration into the profile.

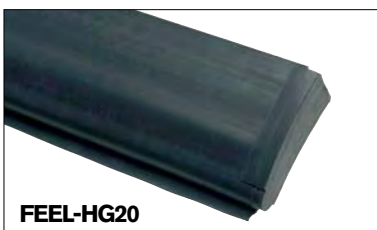
The safety edge works even when bent thanks to the powerful infrared beam (through fluids) and reflection within the profile.

The interlocking rubber profile enables quick installation, while the cable of the photocell can pass through quick and easy: no screws, glue or silicone. The photocells are inserted into the profile and connected to the amplifier. In just a few steps, the safety edge is ready to stand the test of time.

The profile FEEL-LG20 can be placed either horizontally (doors) or vertically (gates). The plastic cover can be removed to maintain the appearance of the gate unaltered.



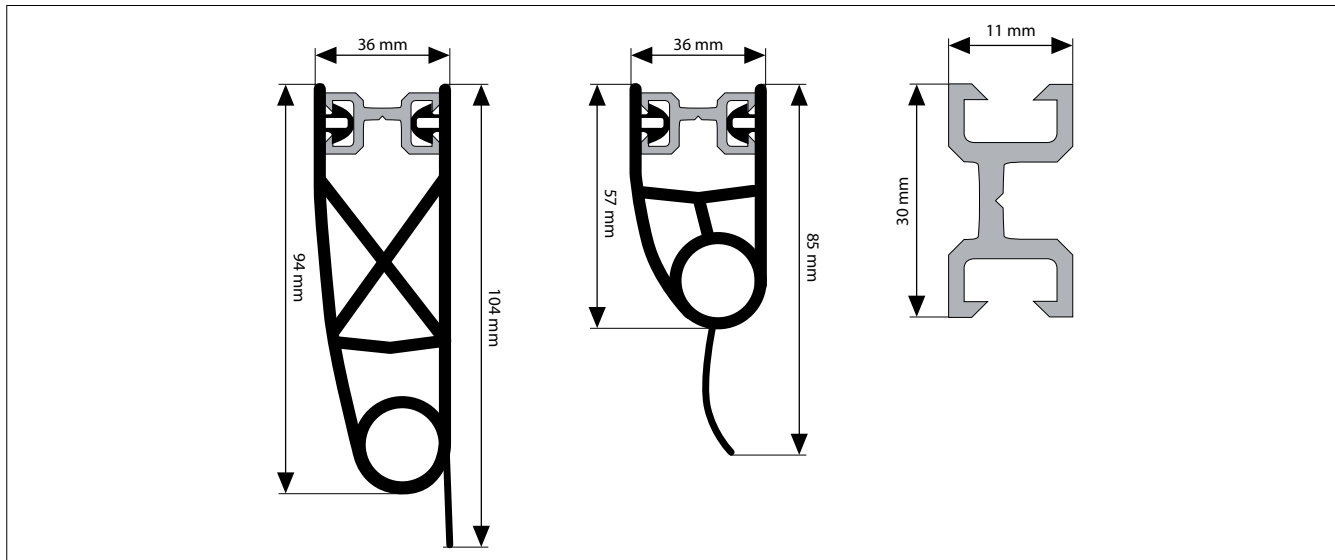
Description	Rubber profile L (h 57 mm - 20 m roll)	Right end cap for L rubber profile	Left end cap for L rubber profile
<b>MODEL</b>	<b>FEEL-LG20</b>	<b>FEEL-LTD</b>	<b>FEEL-LTS</b>
<b>CODE</b>	<b>35A003</b>	<b>35A004</b>	<b>35A005</b>



Description	Rubber profile H (h 94 mm - 20 m roll)	Right end cap for H rubber profile	Left end cap for H rubber profile
<b>MODEL</b>	<b>FEEL-HG20</b>	<b>FEEL-HTD</b>	<b>FEEL-HTS</b>
<b>CODE</b>	<b>35A006</b>	<b>35A007</b>	<b>35A008</b>



Description	Photocell (transmitter unit ø 18 mm)	Photocell (receiver unit ø 18 mm)
<b>MODEL</b>	<b>FEEL-TX18</b>	<b>FEEL-RX18</b>
<b>CODE</b>	<b>35A001</b>	<b>35A002</b>
Optical range (m)	10	
Power supply	12÷24 Vac/dc	
Signal	modulated infrared 833 Hz	
Working temperature (°C)	-20 ÷ +80	



ACCESSORIES



**35A009**  
Aluminium profile length 2 m  
(for rubber profiles L/H)



**35A010**  
Aluminium profile length 3 m  
(for rubber profiles L/H)



**35A012**  
Extendable cable length 3 m  
(4 x 0,75 mm<sup>2</sup>)



**35A013**  
Extendable cable length 3 m  
(7 x 0,25 mm<sup>2</sup>)



**35A024**  
Interface for optical-type safety  
edges (1 NPN output)



**35A025**  
Glue (tube of 2 g)

# Value to synthesis

All the technology you need  
in a kit

V2 offers complete systems to automate swing gates, sliding gates, shutters and blinds.  
Control unit, transmitters, and, when necessary, flashing light, all in one kit: technology to make any automation even simpler and more practical.





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**kit garden lux-R**





**ELECTRONIC KITS**

# kit universal 1

Electronic kit to complete the installation of swing and sliding gate 230V motors

**COMPOSITION**



**CITY1-EVO**  
DIGITAL control unit for 230V motors



**PHOX2**  
433.92MHz rolling code transmitter





**MR2**  
Plug-in module receiver



**LUMOS-M**  
Led flashing light



**SENSIVA-XS**  
Miniaturized wall-mounted and pillar-mounted photocells

<b>Kit MODEL</b> ▼	 <b>CITY1-EVO</b>	 <b>PHOX2</b>	 <b>MR2</b>	 <b>SENSIVA-XS</b>	 <b>LUMOS-M</b>	<b>Kit CODE</b> ▼
<b>Kit UNIVERSAL 1E</b>	<b>CITY1-EVO</b>	■ ■	■	■	■	28A087



# kit universal 2

Electronic kit to complete the installation of swing and sliding gate 230V motors

## COMPOSITION



**FLEXY2**  
ANALOGUE control unit for 230V motors.  
Built-in receiver







**PHOX2**  
433.92MHz rolling code transmitter



**SENSIVA-XS**  
Miniaturized wall-mounted and pillar-mounted photocells



**LUMOS-M**  
Led flashing light

Kit MODEL ▼	 FLEXY2	 PHOX2	 SENSIVA-XS	 LUMOS-M	Kit CODE ▼
Kit UNIVERSAL 2	■	■■	■	■	28A061



# kit easy2

Electronic kit to complete the installation of 230V motors for rolling shutters

## COMPOSITION






**EASY2**  
ANALOGUE control unit for 230V motors



**PHOX2**  
433.92MHz rolling code transmitter



**MR2**  
Plug-in module receiver

<b>Kit MODEL</b> ▼	 <b>EASY2</b>	 <b>PHOX2</b>	 <b>MR2</b>	<b>Kit CODE</b> ▼
<b>Kit EASY2</b>	■	■■	■	28A064



# kit easy-basic

Electronic kit to complete the installation of 230V motors for rolling shutters

## COMPOSITION





### EASY-BASIC

**ANALOGUE control unit for 230V motors.**  
Built-in receiver



### PHOX2

433.92MHz rolling code transmitter

<b>Kit MODEL</b> ▼	 <b>EASY-BASIC</b>	 <b>PHOX2</b>	<b>Kit CODE</b> ▼
<b>Kit</b> EASY-BASIC	■	■■	28A065



# kit garden lux

Electronic kit for radio control of loads up to 1500W

## COMPOSITION





### WALLY2-230V

230V dual channel receiver, capable to control loads up to 1500W



### PHOX2

433.92MHz rolling code transmitter

<b>Kit MODEL</b> ▼	 <b>WALLY2-230V</b>	 <b>PHOX2</b>	<b>Kit CODE</b> ▼
<b>Kit</b> GARDEN-LUX	■	■	28A066



# kit garden lux-R

Electronic kit for radio control of loads up to 1500W

## COMPOSITION





### WALLY2-230V

230V dual channel receiver, capable to control loads up to 1500W



### MATCH

433.92MHz Royal code transmitter (20 bit)

<b>Kit MODEL</b> ▼	 <b>WALLY2-230V</b>	 <b>MATCH</b>	<b>Kit CODE</b> ▼
<b>Kit</b> GARDEN-LUX-R	■	■	28A067

# value to movement

Slight motions,  
bright e-motions

V2 has designed a complete range of cutting-edge tubular systems. Maximum control of the motor, to adjust lifting and lowering of rolling shutters, awnings and insect screens, with precision and safety.

Just one gesture and the world around you moves. Discover all our products.

# TUBULAR MOTORS







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212|213 **lex-hrm**



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## Ø59 tubular motors

220|221 **roll**

222|223 **hand-roll**





# SELECTION GUIDE TUBULAR MOTORS

192|227



## TUBULAR MOTORS WITH MECHANICAL LIMIT SWITCH



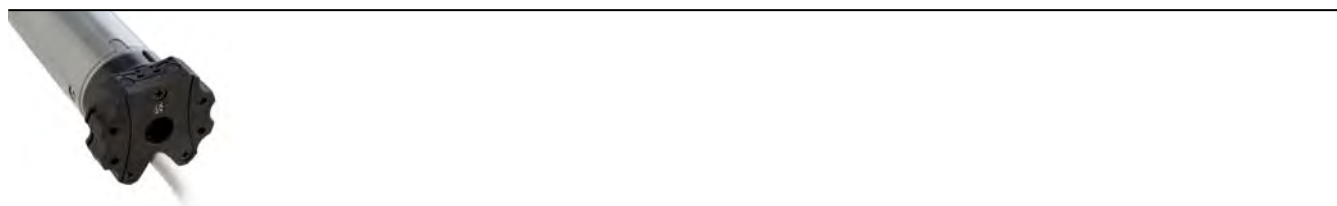
VEO	LEX	LEX-H	ROLL	HANDROLL
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## TUBULAR MOTORS WITH MECHANICAL LIMIT SWITCH AND BUILT-IN RADIO RECEIVER



LEX-RM	LEX-HRM
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## TUBULAR MOTORS WITH ELECTRONIC LIMIT SWITCH AND ENCODER



LEX-FE
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## TUBULAR MOTORS WITH ELECTRONIC LIMIT SWITCH, ENCODER AND BUILT-IN RADIO RECEIVER



VEO-RFE	LEX-RFE	LEX-RFE-TC	LEX-RFO
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# SELECTION GUIDE TUBULAR MOTORS

192|227

## APPROX. WEIGHT OF THE ROLLING SHUTTERS

MATERIAL	KG/M <sup>2</sup>
Extruded aluminium with expanded polyurethane	07 - 09
Extruded aluminium	08 - 10
PVC	06 - 08
Extruded aluminium	10 - 12
Wood	10 - 12

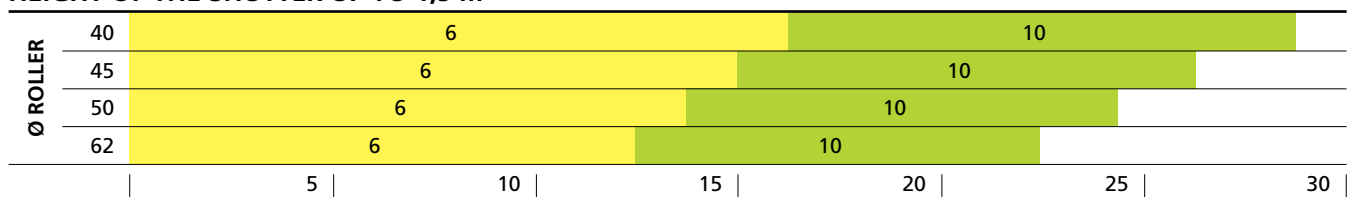
**NOTE:** the values in the table can even double depending on the thickness of the material used. Moreover, the presence of strong frictions can impact the actual weight that the motor will have to lift.

### VERTICAL AWNINGS OR MOSQUITO NETS

In order to automate vertical awnings or mosquito nets it is necessary to take into account only the weight of the bar used to keep the screen stretched.

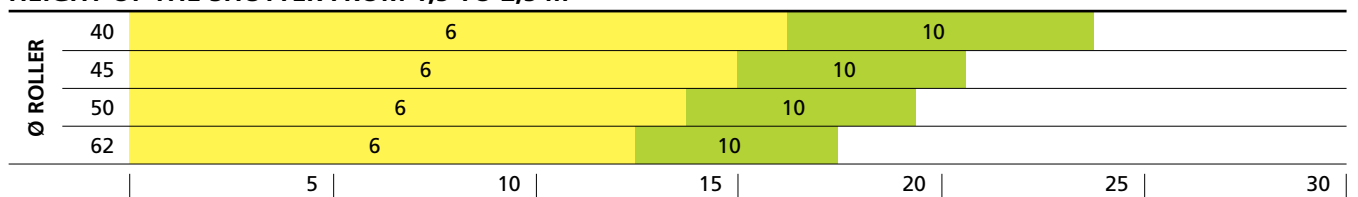
## Ø 35 mm TUBULAR MOTORS FOR ROLLING SHUTTERS ROLLING SHUTTER WITH LOUVER-BOARD MAX 40 mm HIGH AND 9 mm THICK

### HEIGHT OF THE SHUTTER UP TO 1,5 m



SHUTTER WEIGHT (Kg)

### HEIGHT OF THE SHUTTER FROM 1,5 TO 2,5 m



SHUTTER WEIGHT (Kg)

### HEIGHT OF THE SHUTTER FROM 2,5 TO 3,5 m



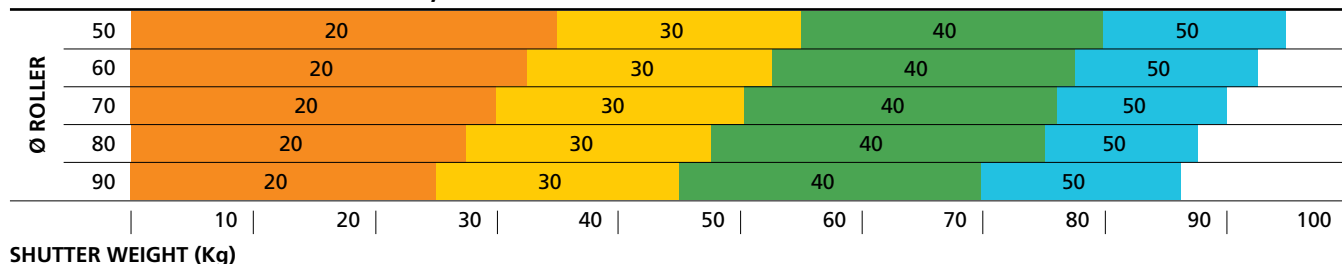
SHUTTER WEIGHT (Kg)

### Ø 35 mm

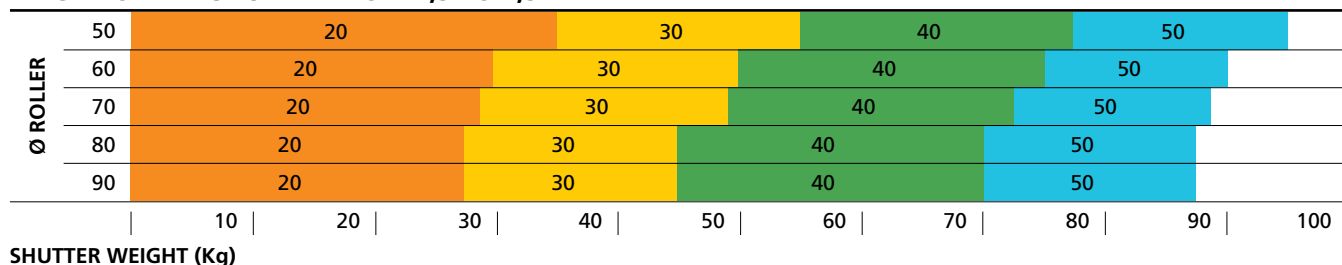
Mechanical limit switch	VEO6	VEO10
Electronic limit switch, encoder and built-in radio receiver	VEO6-RFE	VEO10-RFE

## Ø 45 mm TUBULAR MOTORS FOR ROLLING SHUTTERS ROLLING SHUTTER WITH LOUVER-BOARD MAX 55 mm HIGH AND 14 mm THICK

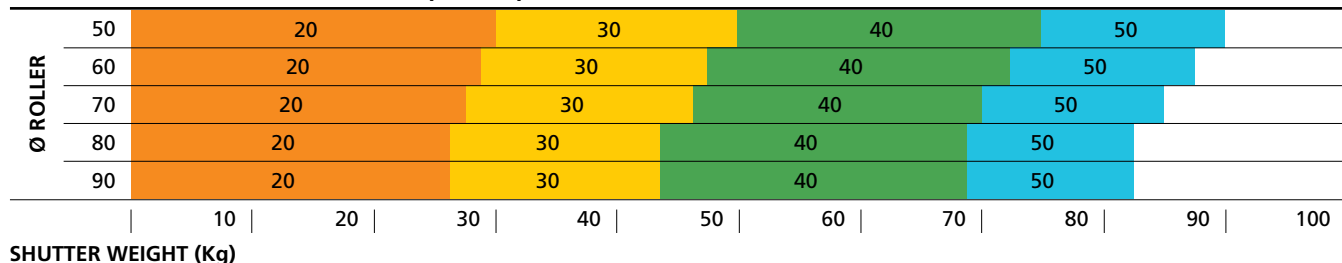
### HEIGHT OF THE SHUTTER UP TO 1,5 m



### HEIGHT OF THE SHUTTER FROM 1,5 TO 2,5 m



### HEIGHT OF THE SHUTTER FROM 2,5 TO 3,5 m



### Ø 45 mm

Mechanical limit switch	Basic model	LEX20	LEX30	LEX40	LEX50
	Built-in radio receiver	LEX-RM20	LEX-RM30	LEX-RM40	LEX-RM50
	Manual override	LEX-H20	LEX-H30	LEX-H40	LEX-H50
	Manual override and radio receiver	-	LEX-HRM30	LEX-HRM40	LEX-HRM50
Electronic limit switch and encoder	Basic model	LEX-FE20	LEX-FE30	LEX-FE40	LEX-FE50
	Built-in radio receiver	LEX-RFE20	LEX-RFE30	LEX-RFE40	LEX-RFE50

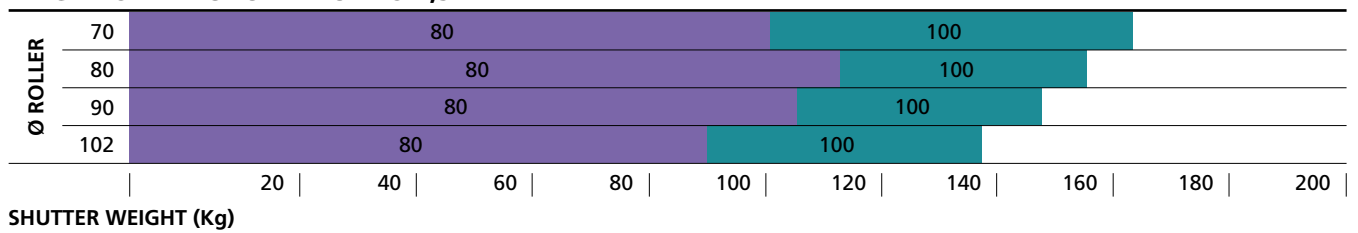


# SELECTION GUIDE TUBULAR MOTORS

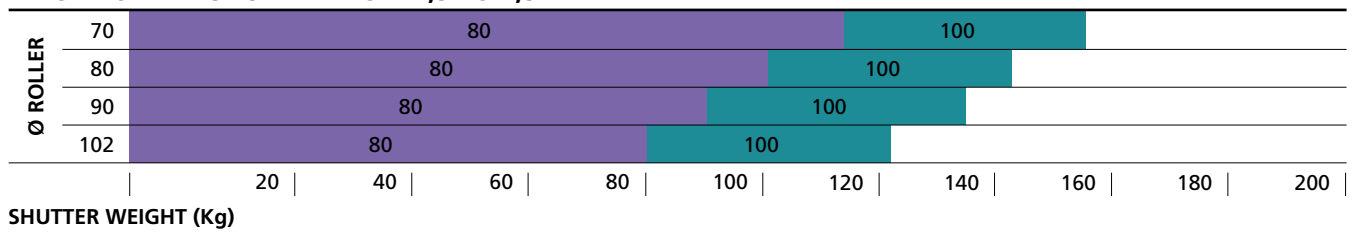
192|227

## Ø 59 mm TUBULAR MOTORS FOR ROLLING SHUTTERS ROLLING SHUTTER WITH LOUVER-BOARD MAX 55 mm HIGH AND 14 mm THICK

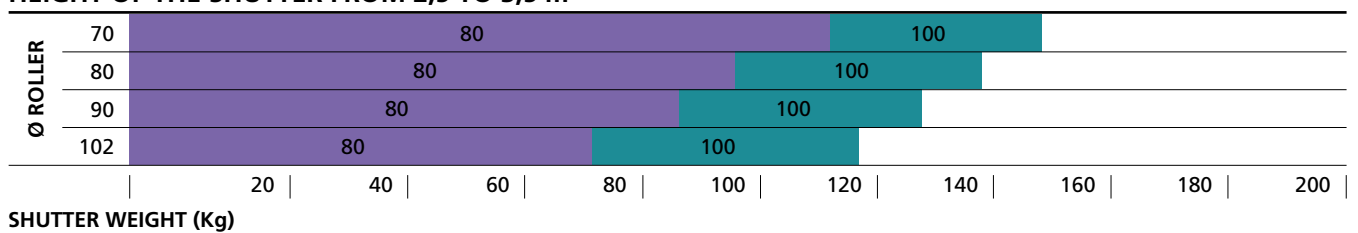
### HEIGHT OF THE SHUTTER UP TO 1,5 m



### HEIGHT OF THE SHUTTER FROM 1,5 TO 2,5 m



### HEIGHT OF THE SHUTTER FROM 2,5 TO 3,5 m



### Ø 59 mm

Mechanical limit switch	Basic model	ROLL80	ROLL100
	Manual override	HANDROLL80	HANDROLL100

## TUBULAR MOTORS FOR AWNINGS

### ROLLER Ø 50 mm

NUMBER OF ARMS →		2	4	6	8
ARM PROJECTION	1,5 m	20 Nm	20 Nm	30 Nm	40 Nm
	2,0 m	30 Nm	30 Nm	40 Nm	50 Nm
	2,5 m	30 Nm	30 Nm	40 Nm	-
	3,0 m	30 Nm	40 Nm	50 Nm	-
	4,0 m	40 Nm	50 Nm	-	-
	5,0 m	50 Nm	-	-	-

### ROLLER Ø 60/70 mm

NUMBER OF ARMS →		2	4	6	8
ARM PROJECTION	1,5 m	20 Nm	30 Nm	30 Nm	50 Nm
	2,0 m	30 Nm	30 Nm	40 Nm	50 Nm
	2,5 m	30 Nm	30 Nm	40 Nm	80 Nm
	3,0 m	30 Nm	40 Nm	50 Nm	80 Nm
	4,0 m	40 Nm	50 Nm	80 Nm	100 Nm
	5,0 m	50 Nm	80 Nm	100 Nm	-

### ROLLER Ø 78 mm

NUMBER OF ARMS →		2	4	6	8
ARM PROJECTION	1,5 m	20 Nm	30 Nm	30 Nm	50 Nm
	2,0 m	30 Nm	40 Nm	40 Nm	80 Nm
	2,5 m	30 Nm	40 Nm	50 Nm	80 Nm
	3,0 m	40 Nm	50 Nm	80 Nm	100 Nm
	4,0 m	50 Nm	50 Nm	100 Nm	-
	5,0 m	80 Nm	80 Nm	100 Nm	-

### ROLLER Ø 85 mm

NUMBER OF ARMS →		2	4	6	8
ARM PROJECTION	1,5 m	40 Nm	50 Nm	50 Nm	80 Nm
	2,0 m	50 Nm	50 Nm	80 Nm	100 Nm
	2,5 m	80 Nm	80 Nm	100 Nm	-
	3,0 m	80 Nm	80 Nm	100 Nm	-
	4,0 m	80 Nm	100 Nm	-	-
	5,0 m	100 Nm	-	-	-



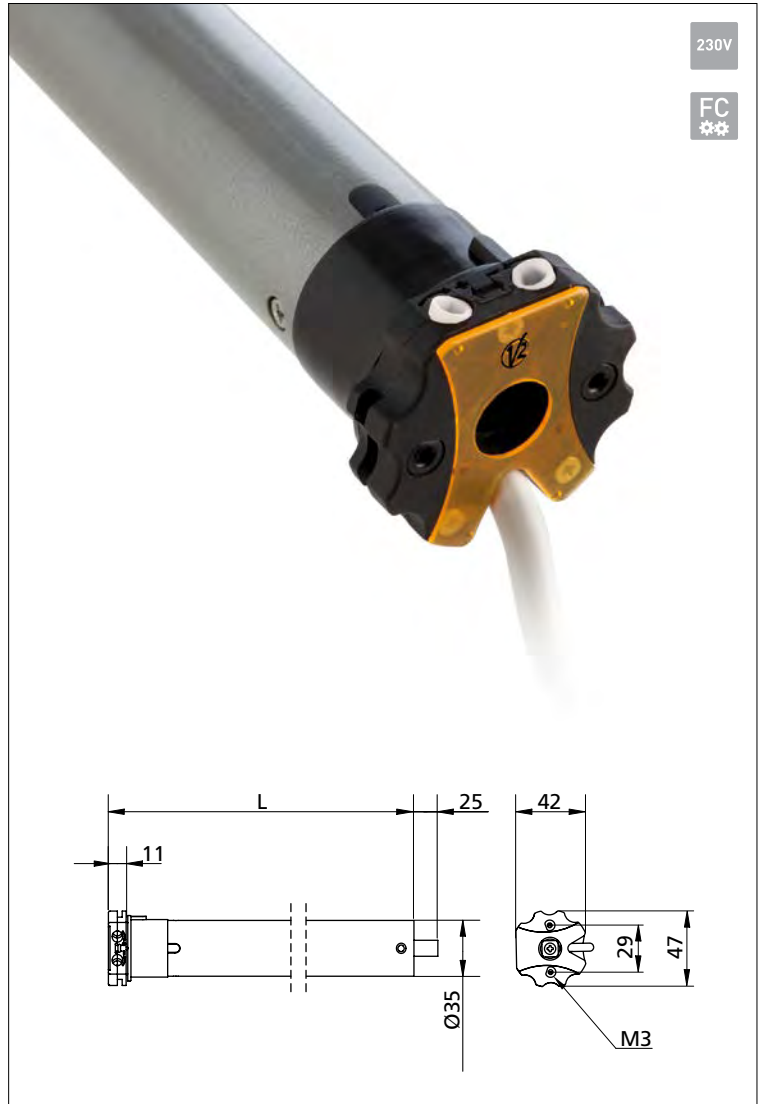
TUBULAR MOTORS

# veo

## Tubular motor Ø 35 mm with mechanical limit switch

### PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Compact and noiseless, ideal for indoor installations
- Extremely small size, particularly suitable for installations in narrow spaces
- 2 meters of cable wired to the motor



### TECHNICAL FEATURES

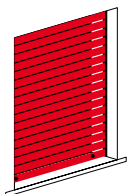
MODEL	VEO6-230V	VEO10-230V
CODE	27A022	27A023
Maximum load* (Kg)	17	27
Torque (Nm)	6	10
Speed (rpm)	28	17
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	121	121
Rated current (A)	0.53	0.53
Working time (min)	4	4
Limit switch range (n.)	36	36
Length - L - (mm)	447	447
Protection degree (IP)	44	44

\* Value calculated with roller Ø 40 mm

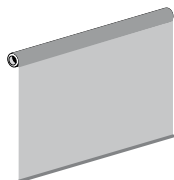
#### CABLE LENGTH 2 m



APPLICATIONS

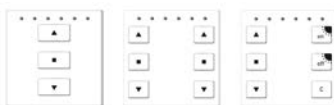


Rolling shutters



Screen awnings

CONTROL ELECTRONIC SYSTEMS



PROTEO	ADLER	DEV-T1
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains



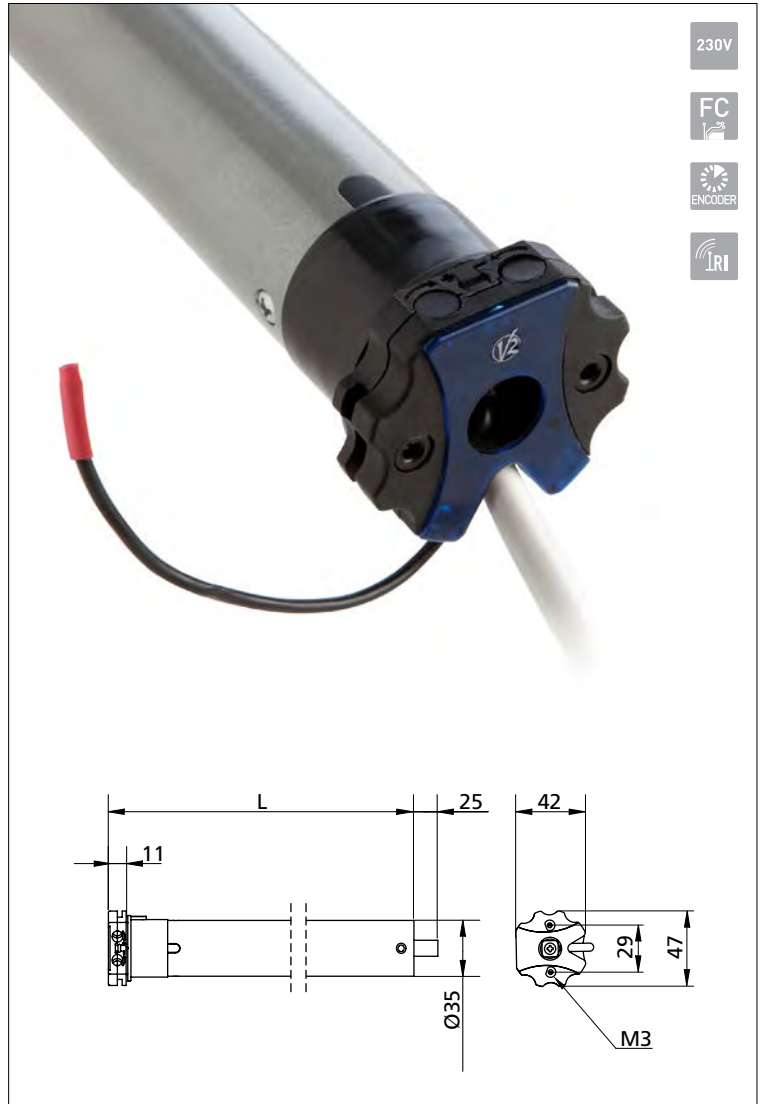
CU1 - CU3 - CU4 - CU5 - DEV-R1

Control units

TUBULAR MOTORS

# veo-rfe

**Tubular motor Ø 35 mm with electronic limit switch, encoder and built-in radio receiver (434.15 MHz)**



## PLUS

- Maximum control of the motor movement thanks to the use of encoder and electronic limit switch
- Automation control, limit switch setting and storage of new transmitters are radio controlled
- Setting of limit switch intermediate position
- Possibility to connect an external button to control the automation
- 2 meters of cable wired to the motor

## TECHNICAL FEATURES

MODEL	VEO-RFE6-230V	VEO-RFE10-230V
CODE	27A024	27A025
Maximum load* (Kg)	17	27
Torque (Nm)	6	10
Speed (rpm)	28	17
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	120	120
Rated current (A)	0.53	0.53
Working time (min)	5	5
Frequency (MHz)	434.15	434.15
Length - L - (mm)	505	505
Protection degree (IP)	44	44

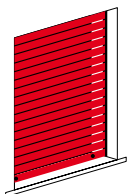
\* Value calculated with roller Ø 40 mm

### CABLE LENGTH 2 m

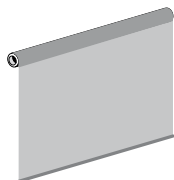


APPLICATIONS

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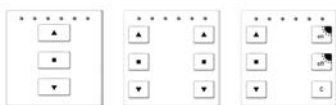
Rolling shutters



Screen awnings

CONTROL ELECTRONIC SYSTEMS

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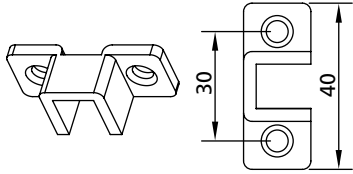
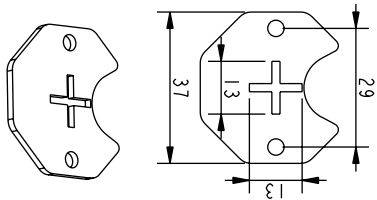
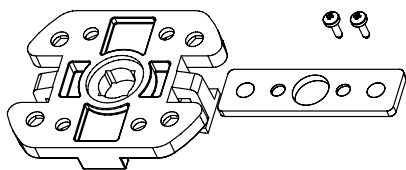




PROTEO	ADLER	DEV-T1
<p>434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display</p>	<p>434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels</p>	<p>434.15 MHz built-in transmitter module powered from the mains</p>

**ACCESSORIES**

TUBE	PULLEY	CROWN
<p>OCTAGONAL Ø 40</p>	<p><b>COD. 162710</b> <b>PL</b></p>	<p><b>COD. 162711</b> <b>PL</b></p>
<p>ROUND Ø 40</p>	<p><b>COD. 162712</b> <b>PL</b></p>	<p><b>COD. 163423</b> <b>PL</b></p>
<p>ROUND Ø 44</p>	<p><b>COD. 162713</b> <b>PL</b></p>	
<p>ROUND Ø 50</p>	<p><b>COD. 162757</b> <b>PL</b></p>	<p><b>COD. 162709</b> <b>PL</b></p>
<p>CORRUGATED NOTCH Ø 60</p>	<p><b>COD. 162782</b> <b>PL</b></p>	<p><b>COD. 162783</b> <b>PL</b></p>

## ACCESSORIES

ACCESSORIES	DESCRIPTION	CODE
	<p>Wall bearing 10 x 10 mm (max. 10 Nm)</p> <p><b>PL</b></p>	<p><b>162729</b></p>
	<p>Wall bearing (max. 10Nm)</p> <p><b>MT</b></p>	<p><b>163412</b></p>
	<p>Snap-in bearing (max. 10Nm)</p> <p><b>PL</b></p>	<p><b>162849</b></p>
	<p>Box with double self-locking push button</p>	<p><b>162886</b></p>
	<p>Box with double spring release push button</p>	<p><b>162887</b></p>

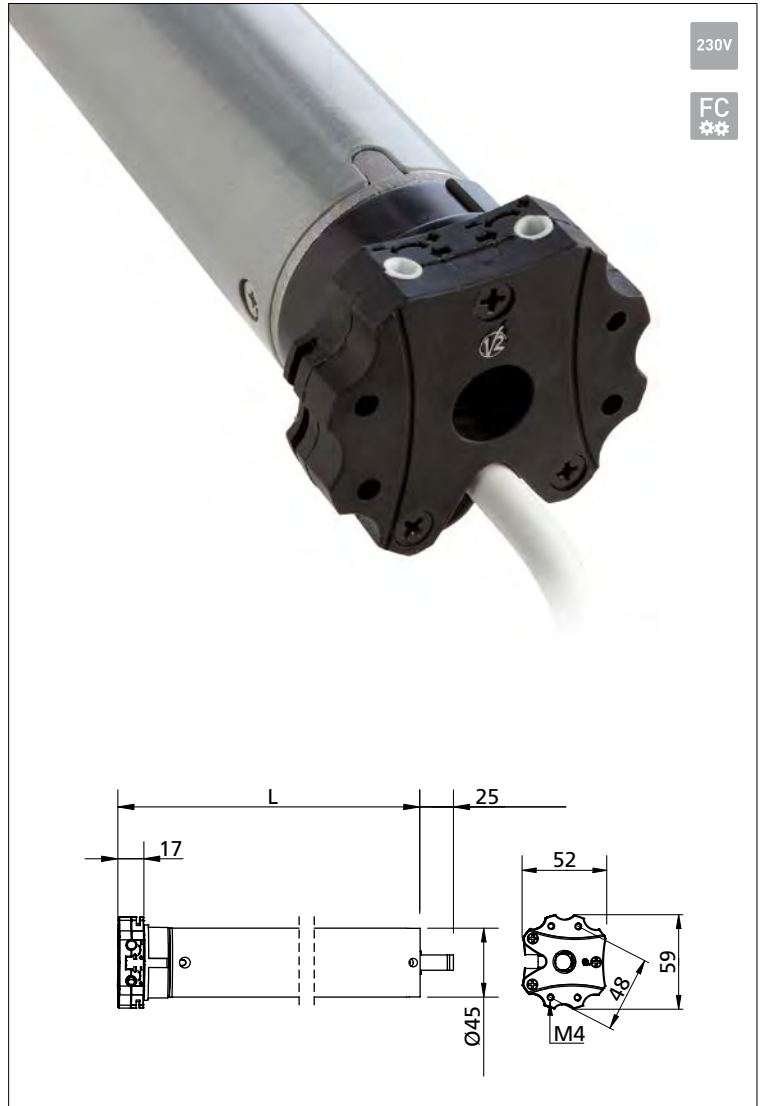
TUBULAR MOTORS

lex

Tubular motor Ø 45 mm with mechanical limit switch

PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Compact head for easy installation
- Rapid fixing bracket for easy assembly of the motor (accessory)
- 2 meters of cable wired to the motor



TECHNICAL FEATURES

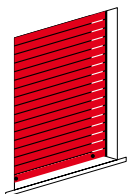
MODEL	LEX20-230V	LEX30-230V	LEX40-230V	LEX50-230V
CODE	27B222	27B223	27B224	27B225
Maximum load* (Kg)	35	55	80	95
Torque (Nm)	20	30	40	50
Speed (rpm)	15	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	145	191	198	205
Rated current (A)	0.64	0.83	0.86	0.89
Working time (min)	4	4	4	4
Limit switch range (n.)	22	22	22	22
Length - L - (mm)	450	480	500	500
Protection degree (IP)	44	44	44	44

\* Value calculated with roller Ø 50 mm

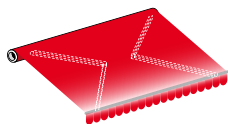
CABLE LENGTH 2 m



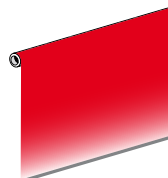
APPLICATIONS



Rolling shutters

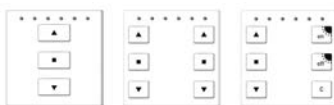


Drop-arm awnings



Roller blinds

CONTROL ELECTRONIC SYSTEMS



PROTEO	ADLER	DEV-T1
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains



<b>CU1 - CU3 - CU4 - CU5 - DEV-R1</b>	<b>MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON</b>
Control units	Anemometers

TUBULAR MOTORS



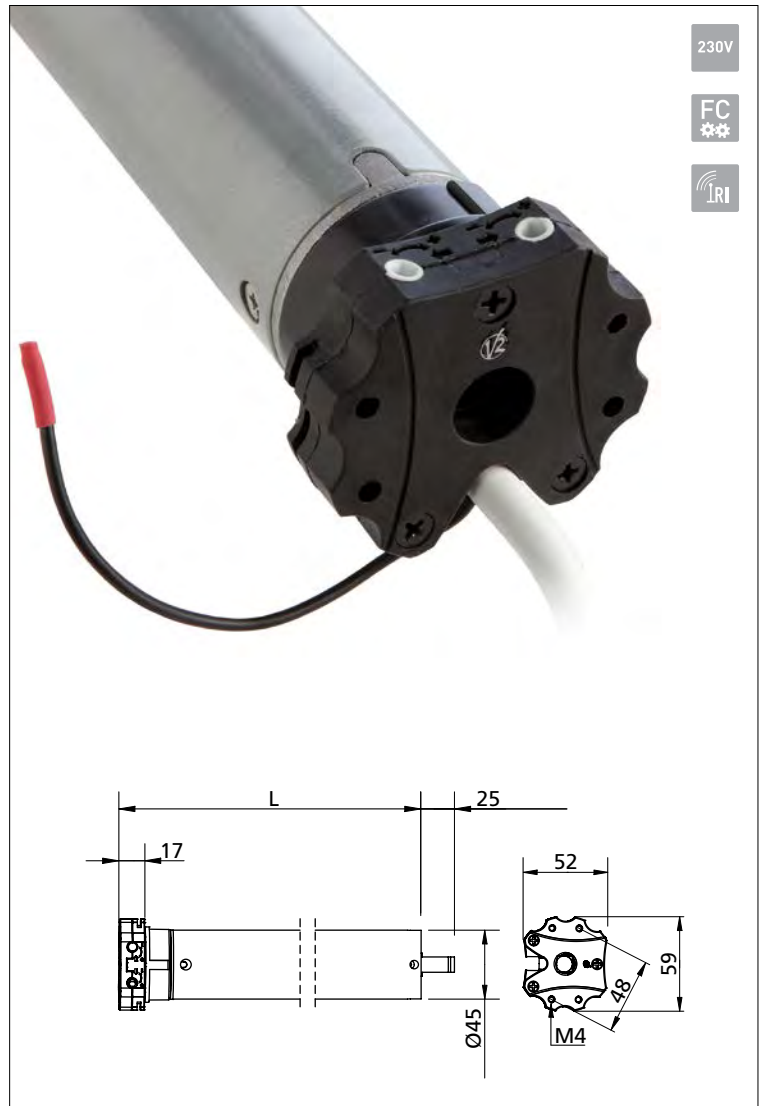
TUBULAR MOTORS

# lex-rm

**Tubular motor Ø 45 mm with mechanical limit switch and built-in radio receiver (434.15 MHz)**

## PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Automation, storage of new transmitters, and sensor threshold are radio controlled
- Possibility to connect an external button to control the automation
- Rapid fixing bracket for easy assembly of the motor (accessory)
- 2 meters of cable wired to the motor



## TECHNICAL FEATURES

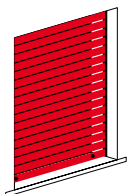
MODEL	LEX-RM20-230V	LEX-RM30-230V	LEX-RM40-230V	LEX-RM50-230V
CODE	27B226	27B227	27B228	27B229
Maximum load* (Kg)	35	55	80	95
Torque (Nm)	20	30	40	50
Speed (rpm)	15	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	150	180	240	240
Rated current (A)	0.64	0.83	0.86	0.89
Working time (min)	4	4	4	4
Limit switch range (n.)	22	22	22	22
Frequency (MHz)	434.15	434.15	434.15	434.15
Length - L - (mm)	660	660	660	660
Protection degree (IP)	44	44	44	44

\* Value calculated with roller Ø 50 mm

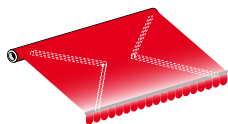
### CABLE LENGTH 2 m



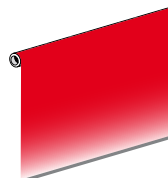
APPLICATIONS



Rolling shutters

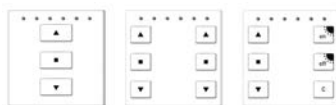


Drop-arm awnings



Roller blinds

CONTROL ELECTRONIC SYSTEMS



PROTEO	ADLER	DEV-T1
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains



MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON

Anemometers

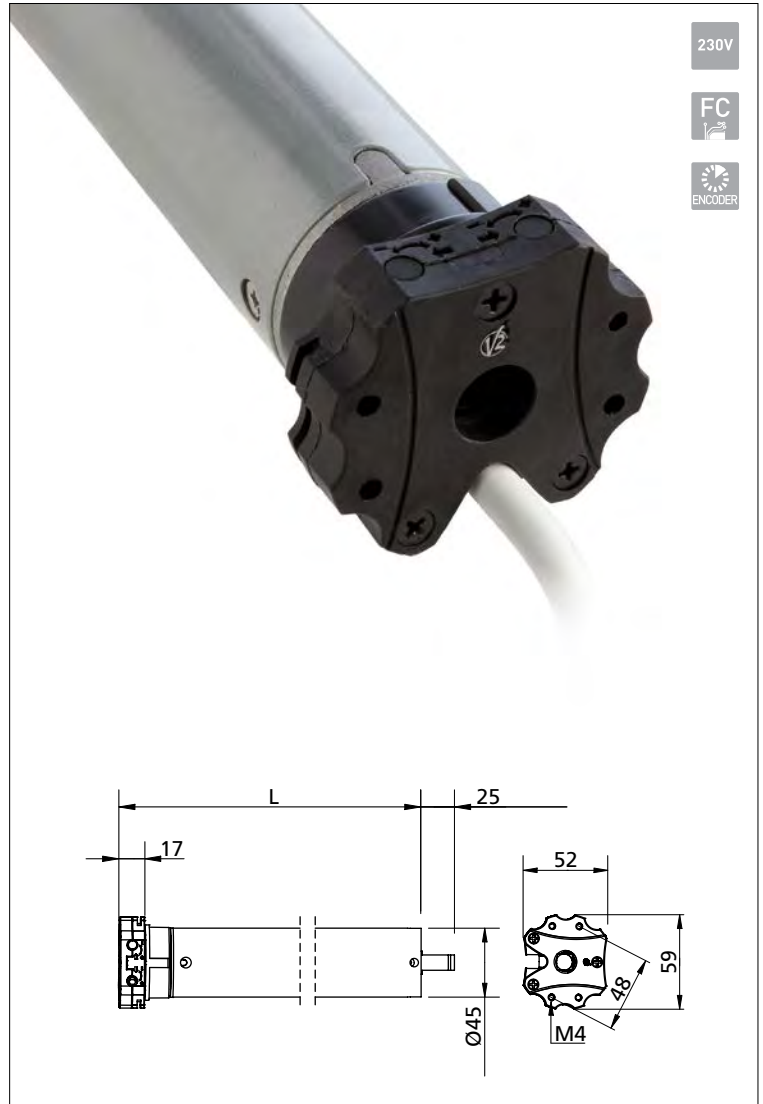
TUBULAR MOTORS

# lex-fe

**Tubular motor Ø 45 mm with electronic limit switch and encoder**

## PLUS

- Maximum control of the motor movement thanks to the use of encoder and electronic limit switch
- Obstacle detection (only with shutters equipped with SICUR BLOCK)
- Quick programming of the limit switches by using the accessory device fast-prog
- Automation control via 2 external buttons (OPEN and CLOSE)
- Rapid fixing bracket for easy assembly of the motor (accessory)



## TECHNICAL FEATURES

MODEL	LEX-FE20-230V	LEX-FE30-230V	LEX-FE40-230V	LEX-FE50-230V
CODE	27B230	27B231	27B232	27B233
Maximum load* (Kg)	35	55	80	95
Torque (Nm)	20	30	40	50
Speed (rpm)	15	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	150	180	240	240
Rated current (A)	0.64	0.83	0.86	0.89
Working time (min)	5	5	5	5
Length - L - (mm)	550	660	660	660
Protection degree (IP)	44	44	44	44

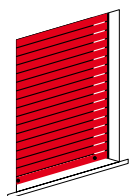
\* Value calculated with roller Ø 50 mm

### CABLE LENGTH 2 m

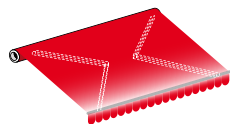


## APPLICATIONS

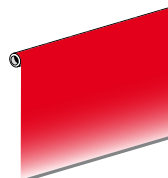
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Rolling shutters



Drop-arm awnings



Roller blinds

## ACCESSORIES

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**162810**

Limit switch programmer

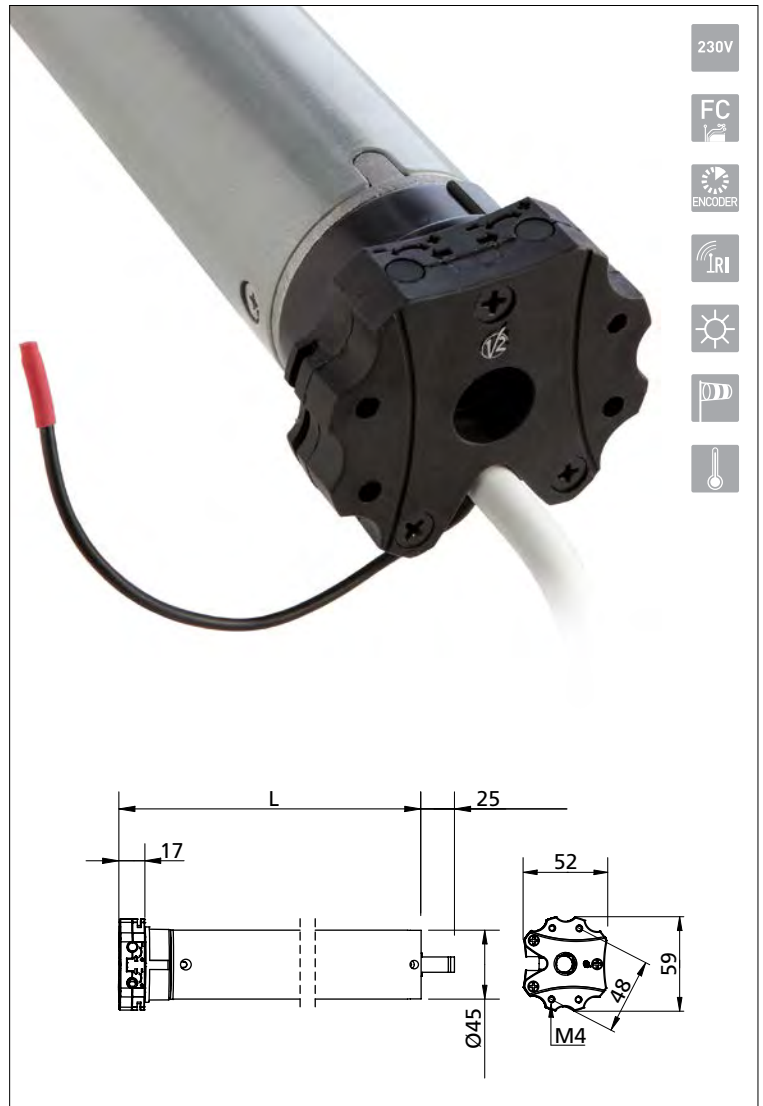
TUBULAR MOTORS

# lex-rfe

**Tubular motor Ø 45 mm with electronic limit switch, encoder and built-in radio receiver (434.15 MHz)**

## PLUS

- Maximum control of the motor movement thanks to the use of encoder and electronic limit switch
- Obstacle detection (only with shutters equipped with SICUR BLOCK)
- Setting of limit switch intermediate position
- Automation control, storage of new transmitters, limit switch setting, and sensor threshold are radio controlled
- Rapid fixing bracket for easy assembly of the motor (accessory)
- Possibility to connect an external button to control the automation



## TECHNICAL FEATURES

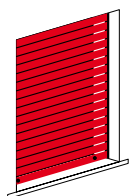
MODEL	LEX-RFE20-230V	LEX-RFE30-230V	LEX-RFE40-230V	LEX-RFE50-230V
CODE	27B234	27B235	27B236	27B237
Maximum load* (Kg)	35	55	80	95
Torque (Nm)	20	30	40	50
Speed (rpm)	15	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	150	180	240	240
Rated current (A)	0.64	0.83	0.86	0.89
Working time (min)	5	5	5	5
Frequency (MHz)	434.15	434.15	434.15	434.15
Length - L - (mm)	550	660	660	660
Protection degree (IP)	44	44	44	44

\* Value calculated with roller Ø 50 mm

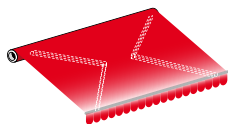
### CABLE LENGTH 2 m



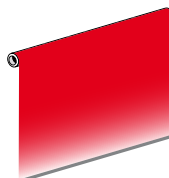
APPLICATIONS



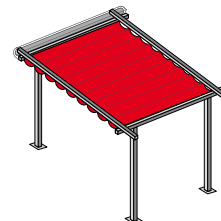
Rolling shutters



Drop-arm awnings

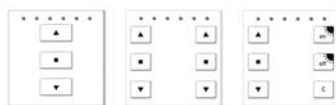


Roller blinds



Pergola

CONTROL ELECTRONIC SYSTEMS



**PROTEO**

434.15 MHz transmitter.  
Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display

**ADLER**

434.15 MHz wall-mounted transmitter.  
Available in versions 1-2-6 channels

**DEV-T1**

434.15 MHz built-in transmitter module powered from the mains



**MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON**

Anemometers

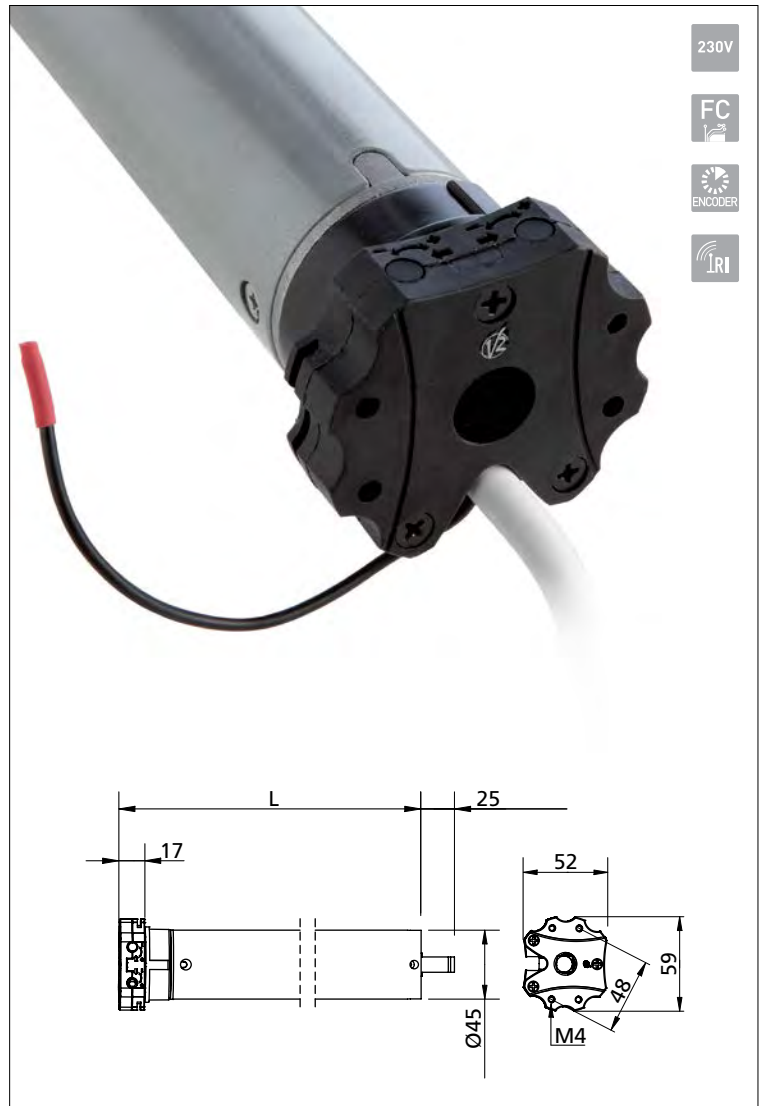
TUBULAR MOTORS

# lex-rfe-tc

**Tubular motor Ø 45 mm for drop awnings. Electronic limit switch, encoder and built-in radio receiver (434.15 MHz)**

## PLUS

- Maximum control of the motor movement thanks to the use of encoder and electronic limit switch
- Automation control, storage of new transmitters, limit switch setting, and sensor threshold are radio controlled
- Rapid fixing bracket for easy assembly of the motor (accessory)
- Possibility to connect an external button to control the automation
- Possibility to control the fastening of retainers automatically or manually



## TECHNICAL FEATURES

MODEL	LEX-RFE-TC 30-230V	LEX-RFE-TC 50-230V
CODE	27B288	27B289
Maximum load* (Kg)	55	95
Torque (Nm)	30	50
Speed (rpm)	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	180	240
Rated current (A)	0.83	0.89
Working time (min)	5	5
Frequency (MHz)	434.15	434.15
Length - L - (mm)	660	660
Protection degree (IP)	44	44

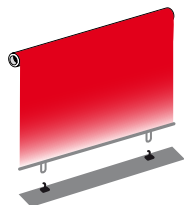
\* Value calculated with roller Ø 50 mm

### CABLE LENGTH 2 m



## APPLICATIONS

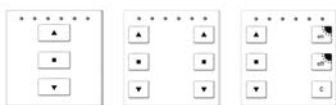
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**Drop awnings**

## CONTROL ELECTRONIC SYSTEMS

---



<b>PROTEO</b>	<b>ADLER</b>	<b>DEV-T1</b>
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains



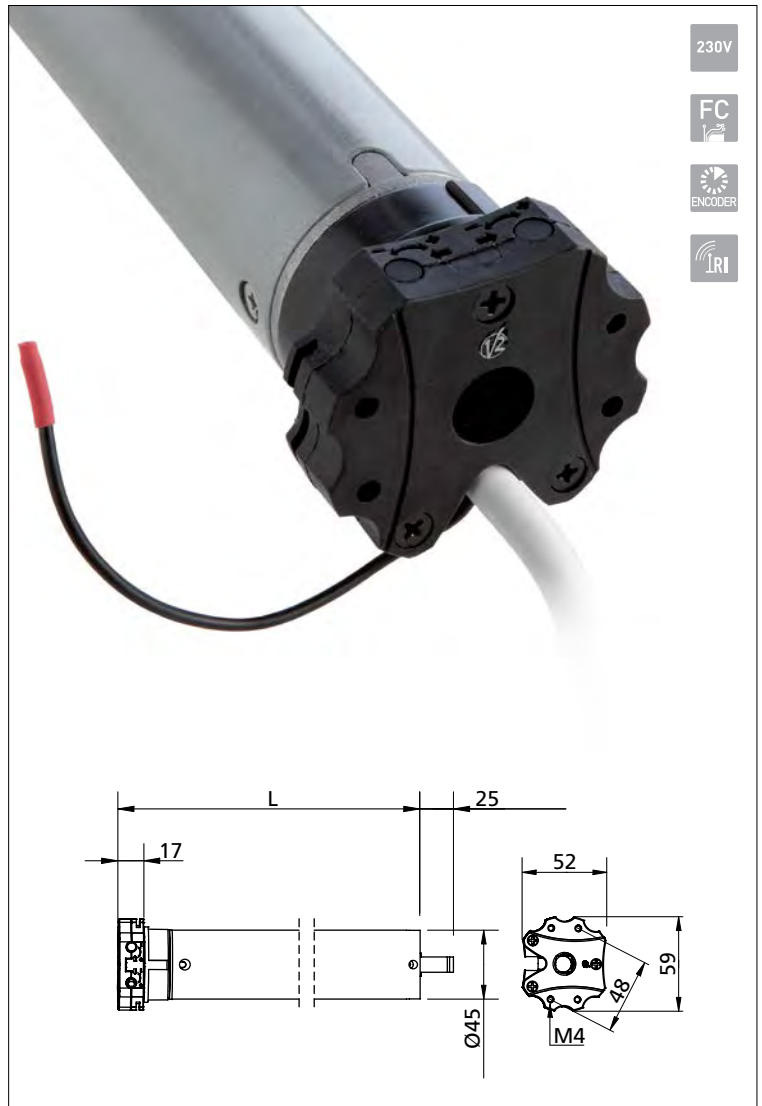
TUBULAR MOTORS

# lex-rfo

**Tubular motor Ø 45 mm for shutters with adjustable louvers. Electronic limit switch, encoder and built-in radio receiver (434.15 MHz)**

## PLUS

- Maximum control of the motor movement thanks to the use of encoder and electronic limit switch
- Automation control, limit switch setting and storage of new transmitters are radio controlled
- Adjustment of louvers opening position.
- Rapid fixing bracket for easy assembly of the motor (accessory)
- Possibility to connect an external button to control the automation



## TECHNICAL FEATURES

MODEL	LEX-RFO40-230V	LEX-RFO50-230V
CODE	27B277	27B278
Maximum load* (Kg)	80	95
Torque (Nm)	40	50
Speed (rpm)	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	240	240
Rated current (A)	0.86	0.89
Working time (min)	5	5
Frequency (MHz)	434.15	434.15
Length - L - (mm)	660	660
Protection degree (IP)	44	44

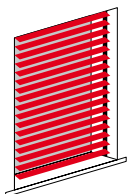
\* Value calculated with roller Ø 50 mm

### CABLE LENGTH 2 m



APPLICATIONS

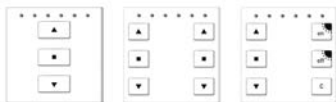
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Adjustable shutters

CONTROL ELECTRONIC SYSTEMS

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PROTEO	ADLER	DEV-T1
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains

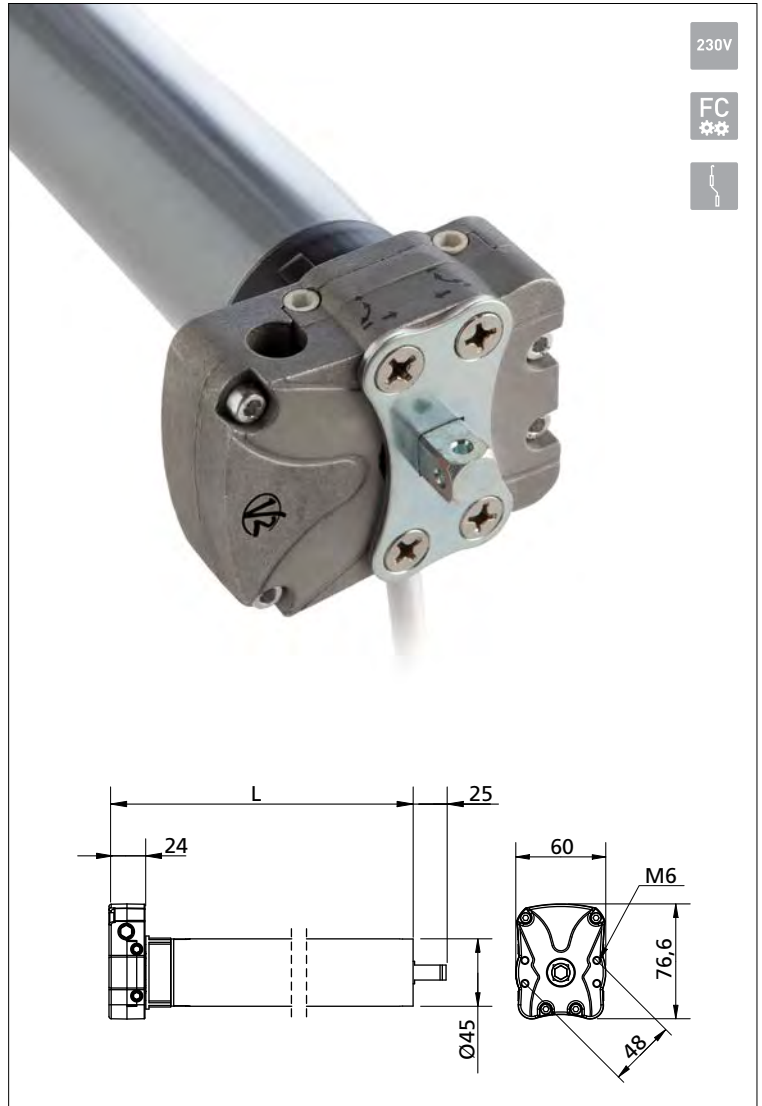
TUBULAR MOTORS

# lex-h

**Tubular motor Ø 45 mm with mechanical limit switch and manual override**

## PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Manual override for manual operation of awnings and rolling shutters in case of power outage
- 2 meters of cable wired to the motor



## TECHNICAL FEATURES

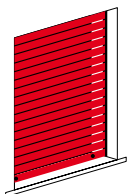
MODEL	LEX-H20-230V	LEX-H30-230V	LEX-H40-230V	LEX-H50-230V
CODE	27B304	27B305	27B306	27B307
Maximum load* (Kg)	35	55	80	95
Torque (Nm)	20	30	40	50
Speed (rpm)	15	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	145	191	198	205
Rated current (A)	0.64	0.83	0.86	0.89
Working time (min)	4	4	4	4
Limit switch range (n.)	22	22	22	22
Length - L - (mm)	520	590	590	590
Protection degree (IP)	44	44	44	44

\* Value calculated with roller Ø 50 mm

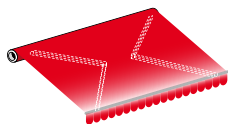
### CABLE LENGTH 2 m



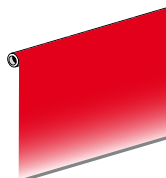
APPLICATIONS



Rolling shutters

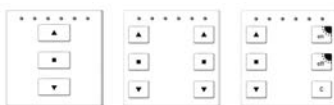


Drop-arm awnings



Roller blinds

CONTROL ELECTRONIC SYSTEMS



PROTEO	ADLER	DEV-T1
<p>434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display</p>	<p>434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels</p>	<p>434.15 MHz built-in transmitter module powered from the mains</p>

**CU1 - CU3 - CU4 - CU5 - DEV-R1**  
Control units

**MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON**  
Anemometers

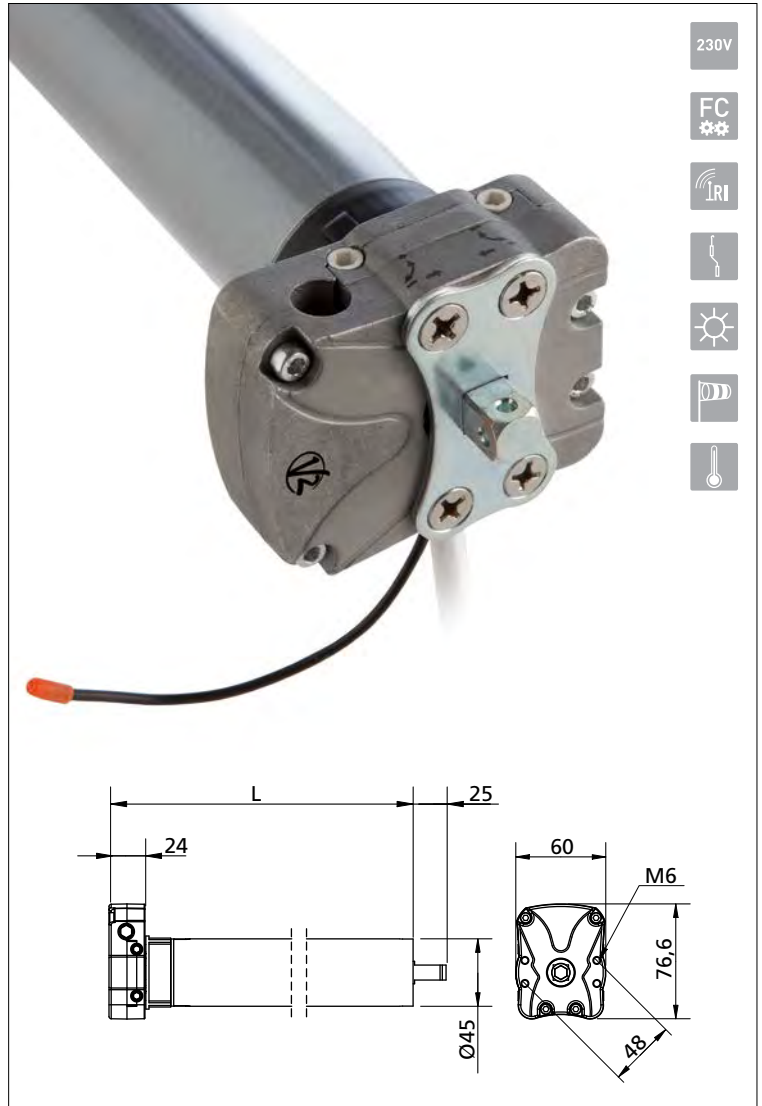
TUBULAR MOTORS

# lex-hrm

**Tubular motor Ø 45 mm with mechanical limit switch, built-in radio receiver (434.15 MHz) and manual override**

## PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Manual override for manual operation of awnings and rolling shutters in case of power outage
- Automation control, storage of new transmitters, limit switch setting, and sensor threshold are radio controlled
- Possibility to connect an external button to control the automation



## TECHNICAL FEATURES

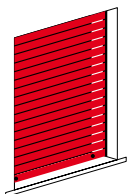
MODEL	LEX-HRM30-230V	LEX-HRM40-230V	LEX-HRM50-230V
CODE	27B308	27B309	27B310
Maximum load* (Kg)	55	80	95
Torque (Nm)	30	40	50
Speed (rpm)	15	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	191	198	205
Rated current (A)	0.83	0.86	0.89
Working time (min)	4	4	4
Limit switch range (n.)	22	22	22
Frequency (MHz)	434.15	434.15	434.15
Length - L - (mm)	769	769	769
Protection degree (IP)	44	44	44

\* Value calculated with roller Ø 50 mm

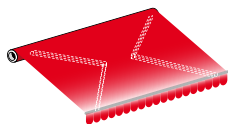
### CABLE LENGTH 2 m



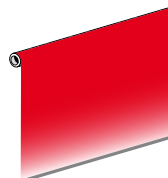
APPLICATIONS



Rolling shutters

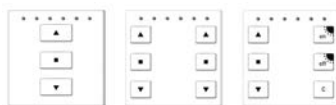


Drop-arm awnings



Roller blinds

CONTROL ELECTRONIC SYSTEMS



PROTEO	ADLER	DEV-T1
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains



MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON

Anemometers

TUBULAR MOTORS

**ACCESSORIES**

TUBE	PULLEY	CROWN
<p>OCTAGONAL Ø 52</p>	<p>COD. 162751</p> <p>PL</p>	<p>COD. 162752</p> <p>PL</p>
<p>OCTAGONAL Ø 57</p>	<p>COD. 162866</p> <p>PL</p>	<p>COD. 162867</p> <p>PL</p>
<p>OCTAGONAL Ø 60 x 0,5</p>	<p>COD. 163401</p> <p>PL</p>	<p>COD. 163402</p> <p>PL</p>
<p>OCTAGONAL Ø 60</p>	<p>COD. 162801</p> <p>PL</p>	<p>COD. 162802</p> <p>PL</p>
<p>OCTAGONAL Ø 70</p>	<p>COD. 162718</p> <p>MT</p>	<p>COD. 162719</p> <p>PL</p>
<p>STAR Ø 60</p>	<p>COD. 162716</p> <p>MT</p>	<p>COD. 162715</p> <p>PL</p>

**ACCESSORIES**

TUBE	PULLEY	CROWN
<p>ZF54</p>	<p><b>COD. 162808</b></p> <p>PL</p>	<p><b>COD. 162809</b></p> <p>PL</p>
<p>ZF64</p>	<p><b>COD. 163424</b></p> <p>PL</p>	<p><b>COD. 162891</b></p> <p>PL</p>
<p>ZF80</p>	<p><b>COD. 162898</b></p> <p>PL</p>	<p><b>COD. 162899</b></p> <p>PL</p>
<p>ROUND Ø 60 x 1,5</p>	<p><b>COD. 162762</b></p> <p>PL</p>	<p><b>COD. 162763</b></p> <p>PL</p>
<p>ROUND Ø 70 x 1,5</p>	<p><b>COD. 162798</b></p> <p>PL</p>	<p><b>COD. 162799</b></p> <p>PL</p>
<p>DEPRAT Ø 62</p>	<p><b>COD. 162767</b></p> <p>PL</p>	<p><b>COD. 162862</b></p> <p>PL</p>

TUBULAR MOTORS



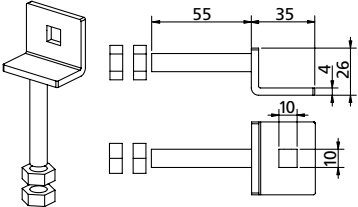
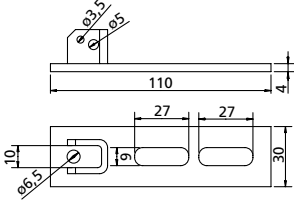
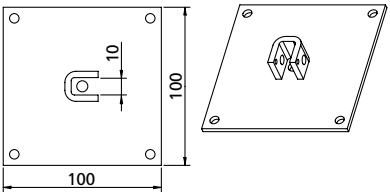
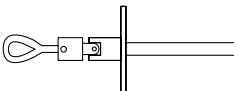
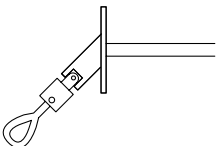
**ACCESSORIES**

TUBE	PULLEY	CROWN
<p>DEPRAT Ø 89</p>	<p>COD. 162806</p> <p>MT</p>	<p>COD. 162807</p> <p>PL</p>
<p>ROLLERBAT NOTCH Ø 63</p>	<p>COD. 163413</p> <p>MT</p>	<p>COD. 163414</p> <p>PL</p>
<p>ROLLERBAT NOTCH Ø 70</p>	<p>COD. 163415</p> <p>MT</p>	<p>COD. 163416</p> <p>PL</p>
<p>NOTCH Ø 70</p>	<p>COD. 163404</p> <p>MT</p>	<p>COD. 162721</p> <p>PL</p>
<p>ROLLERBAT NOTCH Ø 78</p>	<p>COD. 163405</p> <p>MT</p>	<p>COD. 163406</p> <p>PL</p>
<p>FLAT NOTCH Ø 78</p>	<p>COD. 162758</p> <p>PL</p>	<p>COD. 162759</p> <p>PL</p>

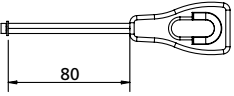
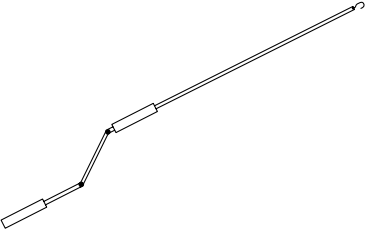


# ACCESSORIES

ACCESSORIES	DESCRIPTION	CODE
	<p>Rapid fixing bracket (max. 20 Nm) (for motor LEX, LEX-RM, LEX-FE, LEX-RFE)</p> <p>PL</p>	<p><b>163418</b></p>
	<p>Rapid fixing bracket (max. 50 Nm) (for motor LEX, LEX-RM, LEX-FE, LEX-RFE)</p> <p>MT</p>	<p><b>163419</b></p>
	<p>Square pin bracket (for motor LEX, LEX-RM, LEX-FE, LEX-RFE)</p> <p>MT</p>	<p><b>163417</b></p>
	<p>Wall bearing 10 x 10 mm (max. 30 Nm)</p> <p>MT</p>	<p><b>162728</b></p>
	<p>Wall bearing 10 x 10 mm (max. 30 Nm)</p> <p>MT</p>	<p><b>162847</b></p>
	<p>Wall bearing 10 x 10 mm (max. 50 Nm)</p> <p>MT</p>	<p><b>162829</b></p>

**ACCESSORIES**

ACCESSORIES	DESCRIPTION	CODE
	<p>Vertical adjustable bearing 10 x 10 mm</p> <p><b>163433</b></p> <p>MT</p>	
	<p>Vertical adjustable bearing with slot 10 x 10 mm</p> <p><b>162822</b></p> <p>MT</p>	
	<p>Square plate bearing 10 x 10 mm</p> <p><b>162764</b></p> <p>MT</p>	
	<p>45° joint hexagon 7</p> <p><b>162823</b></p> <p>MT</p>	
	<p>90° joint hexagon 7</p> <p><b>162824</b></p> <p>MT</p>	

## ACCESSORIES

ACCESSORIES	DESCRIPTION	CODE
	<p>Eyelet 80 mm hexagon 7</p> <p><b>MT</b></p>	<p><b>162825</b></p>
	<p>Jointed bar (1800 mm)</p> <p><b>MT</b></p>	<p><b>162736</b></p>
	<p>Box with double self-locking push button</p>	<p><b>162886</b></p>
	<p>Box with double spring release push button</p>	<p><b>162887</b></p>

TUBULAR MOTORS

roll

Tubular motor Ø 59 mm with mechanical limit switch

PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Compact head for easy installation
- 2 meters of cable wired to the motor



230V

FC

TECHNICAL FEATURES

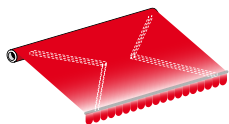
MODEL	ROLL80-230V	ROLL100-230V
CODE	27C035	27C036
Maximum load* (Kg)	125	165
Torque (Nm)	80	100
Speed (rpm)	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	330	345
Rated current (A)	1.43	1.54
Working time (min)	4	4
Limit switch range (n.)	22	22
Length - L - (mm)	600	600
Protection degree (IP)	44	44

\* Value calculated with roller Ø 70 mm

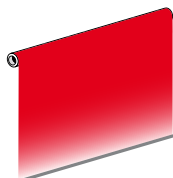
CABLE LENGTH 2 m



APPLICATIONS

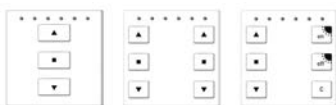


Drop-arm awnings



Roller blinds

CONTROL ELECTRONIC SYSTEMS



<b>PROTEO</b>	<b>ADLER</b>	<b>DEV-T1</b>
<p>434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display</p>	<p>434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels</p>	<p>434.15 MHz built-in transmitter module powered from the mains</p>

**CU1 - CU3 - CU4 - CU5 - DEV-R1**  
Control units

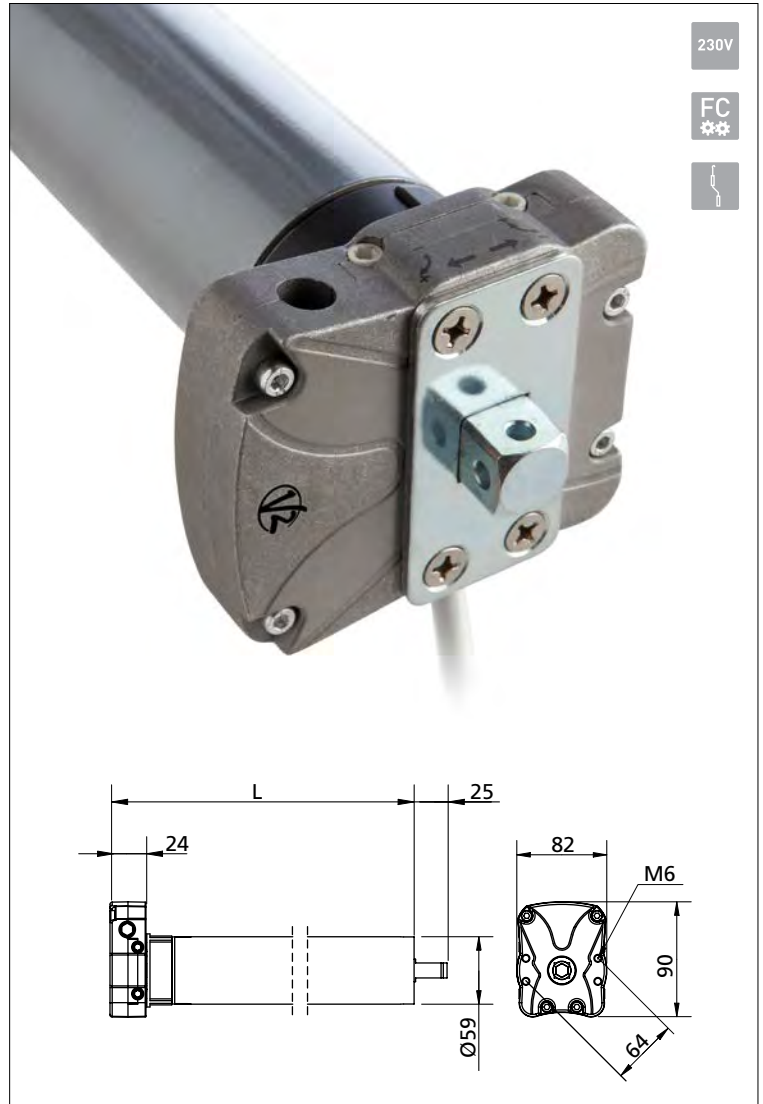
**MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON**  
Anemometers

TUBULAR MOTORS

TUBULAR MOTORS

# hand-roll

**Tubular motor Ø 59 mm with mechanical limit switch and manual override**



## PLUS

- Mechanical limit switch easy to adjust and reliable over time
- Manual override for manual operation of awnings and rolling shutters in case of power outage
- 2 meters of cable wired to the motor

## TECHNICAL FEATURES

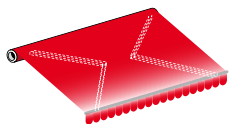
MODEL	HAND-ROLL80-230V	HAND-ROLL100-230V
CODE	27C037	27C038
Maximum load* (Kg)	125	165
Torque (Nm)	80	100
Speed (rpm)	15	12
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	330	345
Rated current (A)	1.43	1.54
Working time (min)	4	4
Limit switch range (n.)	22	22
Length - L - (mm)	680	680
Protection degree (IP)	44	44

\* Value calculated with roller Ø 70 mm

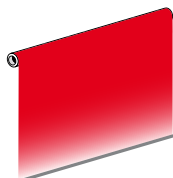
### CABLE LENGTH 2 m



## APPLICATIONS

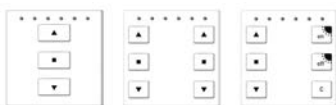




Drop-arm awnings



Roller blinds

## CONTROL ELECTRONIC SYSTEMS



<b>PROTEO</b>	<b>ADLER</b>	<b>DEV-T1</b>
434.15 MHz transmitter. Available in versions 1-4-6-12 channels with LED display. 12-channel version available also with LCD display	434.15 MHz wall-mounted transmitter. Available in versions 1-2-6 channels	434.15 MHz built-in transmitter module powered from the mains
		
<b>CU1 - CU3 - CU4 - CU5 - DEV-R1</b> Control units		<b>MISTRAL - HURRICANE - HURRICANE-RS - TYPHOON</b> Anemometers



**ACCESSORIES**

TUBE	PULLEY	CROWN
<p>OCTAGONAL Ø 70</p>	<p>COD. 162726</p> <p>MT</p>	<p>COD. 162727</p> <p>PL</p>
<p>ROUND Ø 70</p>	<p>COD. 162864</p> <p>PL</p>	<p>COD. 162865</p> <p>PL</p>
<p>ROUND Ø 80</p>	<p>COD. 162746</p> <p>PL</p>	<p>COD. 162747</p> <p>PL</p>
<p>ROUND Ø 100 x 3,5</p>	<p>COD. 162859</p> <p>MT</p>	<p>COD. 162858</p> <p>PL</p>
<p>ROUND Ø 103</p>	<p>COD. 162775</p> <p>MT</p>	<p>COD. 162774</p> <p>PL</p>

# ACCESSORIES

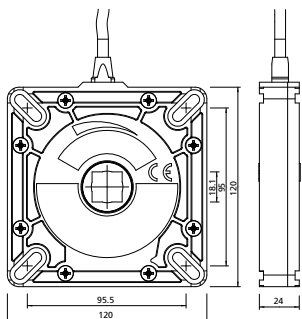
TUBE	PULLEY	CROWN
<p>FLAT NOTCH Ø 78</p>	<p><b>COD. 162861</b></p> <p>MT</p>	<p><b>COD. 162860</b></p> <p>PL</p>
<p>NOTCH Ø 78 BAT</p>	<p><b>COD. 162784</b></p> <p>PL</p>	<p><b>COD. 162785</b></p> <p>PL</p>
<p>NOTCH Ø 85</p>	<p><b>COD. 162894</b></p> <p>MT</p>	<p><b>COD. 162893</b></p> <p>PL</p>
<p>DEPRAT Ø 89</p>	<p><b>COD. 163407</b></p> <p>PL</p>	<p><b>COD. 163408</b></p> <p>PL</p>

**ACCESSORIES**

ACCESSORIES	DESCRIPTION	CODE
	<p>Wall bearing 16 x 16 mm</p> <p><b>MT</b></p>	<p><b>162731</b></p>
	<p>Wall bearing 16 x 16 mm</p> <p><b>MT</b></p>	<p><b>162819</b></p>
	<p>Square plate bearing 16 x 16 mm</p> <p><b>MT</b></p>	<p><b>162734</b></p>
	<p>Jointed bar (1800 mm)</p> <p><b>MT</b></p>	<p><b>162736</b></p>
	<p>Box with double self-locking push button</p>	<p><b>162886</b></p>
	<p>Box with double spring release push button</p>	<p><b>162887</b></p>

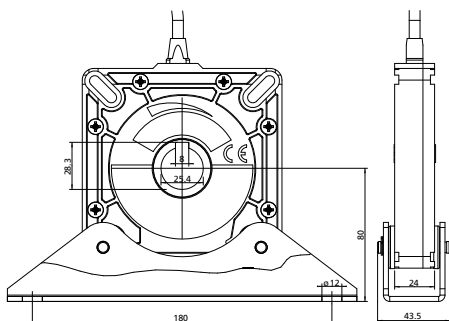
# ACCESSORIES

ACCESSORIES	DESCRIPTION	CODE
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Parachute 70 Nm with 7 metres of cable **163439**

Parachute 140 Nm with 7 metres of cable **163440**



Parachute 140 Nm with 7 metres of cable Support included **163441**

CODE	HEIGHT	TUBE DIAMETER														
		Ø60 x 2,6			Ø70 x 2,9			Ø76,1 x 2,9			Ø82,5 x 3,2			Ø89,9 x 3,2		
		WIDTH														
		1,5	2	2,5	1,5	2	2,5	1,5	2	2,5	1,5	2	2,5	1,5	2	2,5
163439	1,5	151	107	95	141	137	136	129	129	129	120	120	120			
	2	134	107	95	125	125	125	119	119	118	112	112	112			
	2,5	127	107	95	120	120	118	119	119	118	112	112	112			
163440	1,5										286	222	222	264	263	263
	2										286	222	222	252	252	252
	2,5										286	222	222	252	252	252
163441	1,5										260	170		250	205	
	2										220	170		211	205	
	2,5										190	170		182	182	

CODE	HEIGHT	TUBE DIAMETER														
		Ø101,6 x 3,6			Ø108 x 306			Ø114,3 x 3,6			Ø121 x 4			Ø127 x 4		
		WIDTH														
		2,5	4	6	2,5	4	6	2,5	4	6	2,5	4	6	2,5	4	6
163439	1,5															
	2															
	2,5															
163440	1,5	207			214			202			189					
	2	207			214			202			189					
	2,5	207			214			201			189					
163441	1,5	223	218	140	210	208	160	198	195	181	186	183	182	176	171	170
	2	199	198	140	189	188	160	184	184	180	175	172	170	167	165	162
	2,5	175	174	140	169	168	160	166	166	163	160	157	157	153	151	148

TUBULAR MOTORS

# value to technology

Technology is a human  
science

The research of people working in the electronic laboratories of V2 gives life to devices and transmitters for the control of automations devised for everyday life, to improve the small gestures, and plan actions in time and space. To transmit value to the future. To today's people. And to those of tomorrow.

# ELECTRONICS FOR TUBULAR MOTORS





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## ELECTRONICS FOR TUBULAR MOTORS

232|243



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# proteo

**434.15 MHz transmitter for awnings and shutters**



**proteo1**  
1 channel transmitter, ON/OFF sun button, button for the management of a courtesy light



**proteo4**  
4-channel transmitter, ON/OFF sun button and courtesy light



**proteo6**  
6-channel transmitter, ON/OFF sun function, group function



**proteo12**  
12-channel transmitter, ON/OFF sun function, group function



**proteo12-d**  
12-channel transmitter with display, event programming and automatic operation

## PLUS

- Available in models with 1, 4, 6, 12 channels to control one or more automated systems simultaneously
- Multiple group function to program up to 8 automation groups
- Possibility to activate/deactivate the sun sensor on remote control units and motors with built-in control unit
- Button dedicated to controlling a courtesy light via the control unit CU5 or DEV-R2 module (only for PROTEO1 and PROTEO4 models)
- Built-in dip-switch to program the functions of SCREEN control units and tubular motors with built-in control unit
- Convenient wall mount supplied
- Model with display (PROTEO12-D) with advanced features:
  - possibility of programming up to 5 events per day
  - automatic or manual operating mode



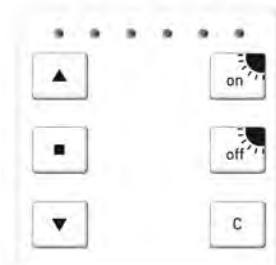
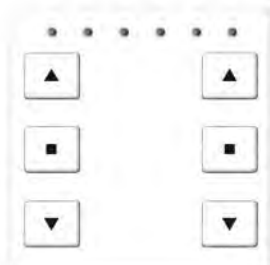
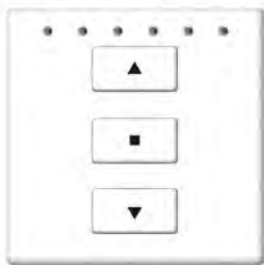
## TECHNICAL FEATURES

MODEL	PROTEO1	PROTEO4	PROTEO6	PROTEO12	PROTEO12-D
CODE	10T040	10T041	10T042	10T043	10T044
Channels	1	4	6	12	12
Frequency (MHz)	434.15				
Range in open field (m)	300				
Power supply (battery type)	1 x Lithium 3V (CR2032)				
Max. absorption (mA)	< 15				
Dimensions (mm)	160 x 45 x 14				



# adler

Wall-mounted 434.15 MHz transmitter for awnings and shutters



**adler1:** 1-channel wall-mounted transmitter



**adler2:** 2-channel wall-mounted transmitter






**adler6:** 6-channel wall-mounted transmitter, ON/OFF sun button

## PLUS

- ADLER series transmitters can be mounted with the V2 plate or with common BTICINO and VIMAR plates, using adapters. Select the adapters according to the tables below.
- Available in models with 1, 2, 6 channels to control one or more automated systems simultaneously
- Built-in keypad to program the functions of SCREEN control units and tubular motors with built-in control unit
- Possibility to activate/deactivate the sun sensor on remote control units and motors with built-in control unit (ADLER6)

## ACCESSORIES

V2 PLATE WITH ADAPTER	CODE
	163429
	

ADAPTERS	CODE	VIMAR IDEA	VIMAR EIKON VIMAR PLANA	BTICINO LIVING
	162878	•		
	162879		•	
	162880			•
	162881	•		
	162882	•	•	•

## TECHNICAL FEATURES

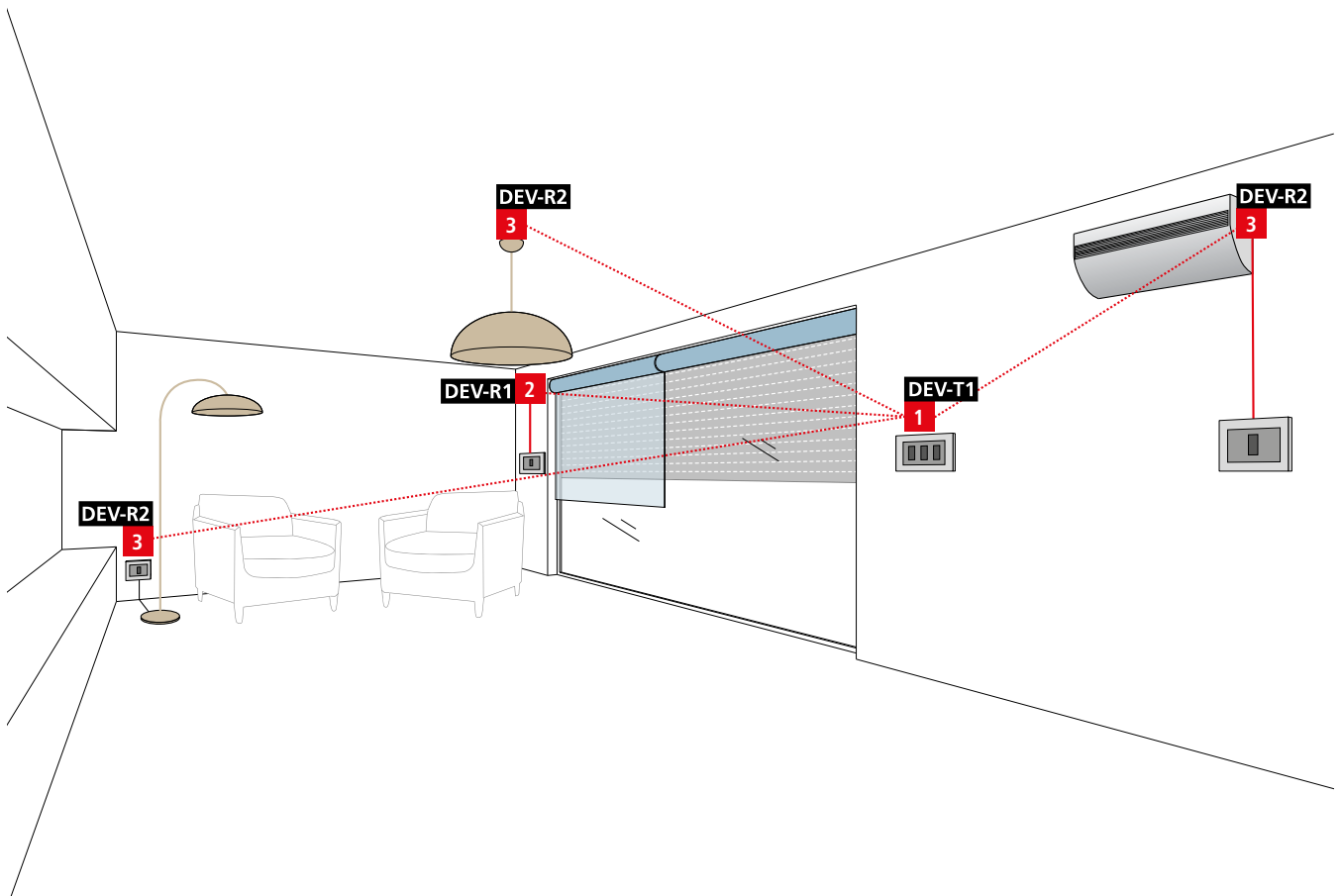
MODEL	ADLER1	ADLER2	ADLER6
CODE	10K017	10K018	10K019
Channels	1	2	6
Frequency (MHz)	434.15		
Range in open field (m)	300		
Power supply (battery type)	1 x Lithium 3V (CR2032)		
Max. absorption (mA)	< 25		
Dimensions (mm)	43 x 43 x 13		



# ELECTRONICS FOR TUBULAR MOTORS

# dev

**Built-in miniature control modules**



230V  
on/off



230V  
IRI  
Sun  
Flag  
Thermometer



230V  
IRI

**dev-t1:** built-in miniature transmitter powered from the mains

**dev-r1:** built-in miniature receiver for controlling a single-phase asynchronous motor

**dev-r2:** built-in miniature receiver for controlling a load up to 500W

## PLUS

- Ideal for controlling devices not directly accessible via cable
- Built-in installation inside of regular electrical boxes
- Power supply with extended range (85 ÷ 260 Vac - 50/60 Hz)
- Very low power consumption in stand-by

### dev-t1

- 4 wired inputs for N.O. buttons
- 4 channels for separate management of 4 devices

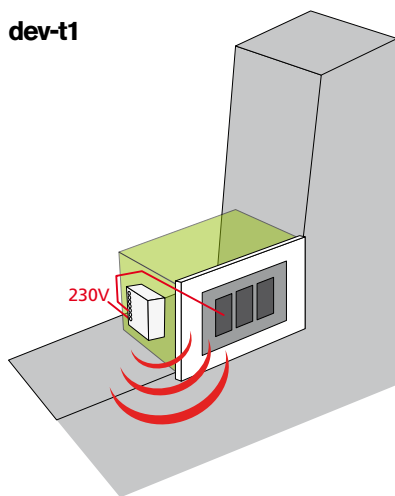
### dev-r1

- 434.15 MHz radio receiver with integrated antenna
- Compatible with PROTEO, ADLER and DEV-T1 series transmitters
- Memory able to handle up to 30 radio channels
- Two wired inputs: up and down
- Integrated button for programming operations
- Wireless programming via a stored remote control
- Wireless management of HURRICANE-RS and TYPHOON series weather sensors

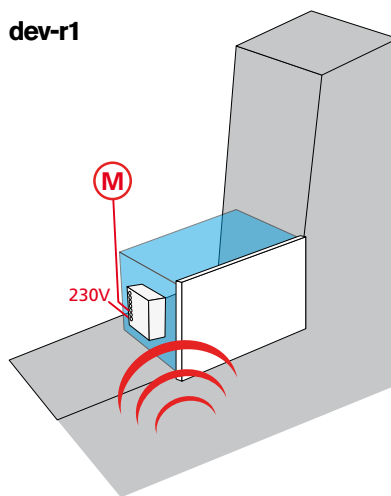
### dev-r2

- 434.15 MHz radio receiver with integrated antenna
- Compatible with PROTEO, ADLER and DEV-T1 series transmitters
- Memory able to handle up to 30 radio channels
- Two wired inputs
- Programming via integrated push button or PROTEO transmitters
- Wireless programming via a stored remote control
- Relay output with no-voltage contacts for loads of up to 500W

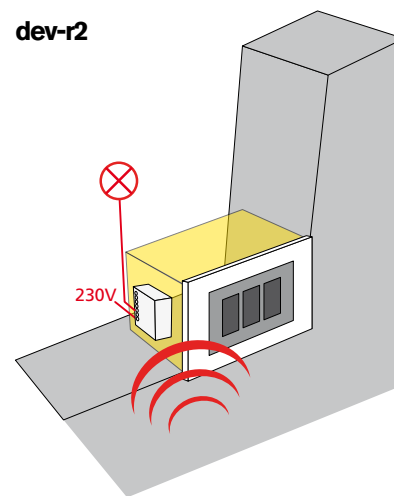
dev-t1



dev-r1



dev-r2



## TECHNICAL FEATURES

MODEL	DEV-T1	DEV-R1	DEV-R2
CODE	10K024	12E107	11D023
Power supply (Vac - Hz)	85 - 260 / 50 - 60	85 - 260 / 50 - 60	85 - 260 / 50 - 60
Frequency (MHz)	434.15	434.15	434.15
Absorption in stand-by (mA)	0,15	0,25	0,25
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Maximum operating time (s)	120	120	-
Dimensions (mm)	20 x 34 x 41	20 x 34 x 41	20 x 34 x 41



# cu3 - cu4 - cu5

**External control unit for the automation of awnings or rolling shutters**



230V



## PLUS

- Independent inputs for UP/DOWN push buttons or OPEN/STOP/CLOSE/STOP push button
  - Input for MISTRAL/HURRICANE sensors
  - WIND, SUN, TEMPERATURE sensor levels adjustable by transmitter or directly on the control unit
  - Management of closure input with control arriving from burglar alarm control unit
  - Plug-in radio receiver (optional) at the frequency of 434.15 MHz
  - Possibility to store up to 30 transmitters
- cu3:** Output for 1 motor
- cu4:** Output for 2 motors, independent or synchronized on the same axis
- cu5:** Output for 1 motor  
Output for light control, with power up to 500 W

## TECHNICAL FEATURES

MODEL	CU3	CU4	CU5
CODE	12E058	12E059	12E060
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Maximum load (W)	500	2 x 500	500 + 500 (motor + light)
Protection degree (IP)	55	55	55
Working temperature (°C)	-20 ÷ +60	-20 ÷ +60	-20 ÷ +60
Dimensions (mm)	142 x 120 x 42	142 x 120 x 42	142 x 120 x 42



### 11B037

434.15 MHz plug-in receiver



# cu1

**External control unit for the automation of awnings or rolling shutters. Built-in receiver (434.15 MHz)**



230V



## PLUS

- OPEN/STOP/CLOSE/STOP button input
- Input for MISTRAL/HURRICANE sensors
- WIND, SUN, TEMPERATURE sensors adjustable by transmitter
- Built-in 434.15 MHz receiver
- Possibility to store up to 30 transmitters

## TECHNICAL FEATURES

MODEL	CU1
CODE	12E033
Power supply (Vac - Hz)	230 - 50
Maximum load (W)	700
Protection degree (IP)	55
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	127 x 41 x 24





**ELECTRONICS FOR TUBULAR MOTORS**

# prg1

230V

**Module for centralized control of multiple motors in parallel. Additional input for single control**



**TECHNICAL FEATURES**

MODEL	PRG1
<b>CODE</b>	<b>12G026</b>
Power supply (Vac - Hz)	230 - 50
Maximum load (W)	1500
Protection degree (IP)	20
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	88 x 42 x 26

# prg2

230V

**Expansion board for 2 motors (single control)**



**TECHNICAL FEATURES**

MODEL	PRG2
<b>CODE</b>	<b>12G013</b>
Power supply (Vac - Hz)	230 - 50
Maximum load (W)	2 x 1500
Protection degree (IP)	55
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	127 x 41 x 24



# prg3

**Expansion board for 3  
motors (multiple control)**



230V

## TECHNICAL FEATURES

MODEL	PRG3
CODE	12G008
Power supply (Vac - Hz)	230 - 50
Maximum load (W)	3 x 1000
Protection degree (IP)	55
Working temperature (°C)	-20 ÷ +60
Dimensions (mm)	113 x 113 x 57



# mistral

**Anemometer  
(cable signal)**



230V

## TECHNICAL FEATURES

MODEL	MISTRAL
CODE	18A009
Power supply (Vac - Hz)	230 - 50
Protection degree (IP)	44
Working temperature (°C)	-20 ÷ +60

# hurricane

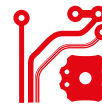
**Anemometer with sun and  
temperature sensor  
(cable signal)**



230V

## TECHNICAL FEATURES

MODEL	HURRICANE
CODE	18A010
Power supply (Vac - Hz)	230 - 50
Absorbed power (W)	3,5
Protection degree (IP)	44
Working temperature (°C)	-20 ÷ +60



# hurricane-rs

**Anemometer with sun and temperature sensor (WIRELESS)**



230V

## TECHNICAL FEATURES

MODEL	HURRICANE-RS
CODE	18A011
Power supply (Vac - Hz)	230 - 50
Absorbed power (W)	3,5
Frequency (MHz)	434.15
Protection degree (IP)	44
Working temperature (°C)	-20 ÷ +60

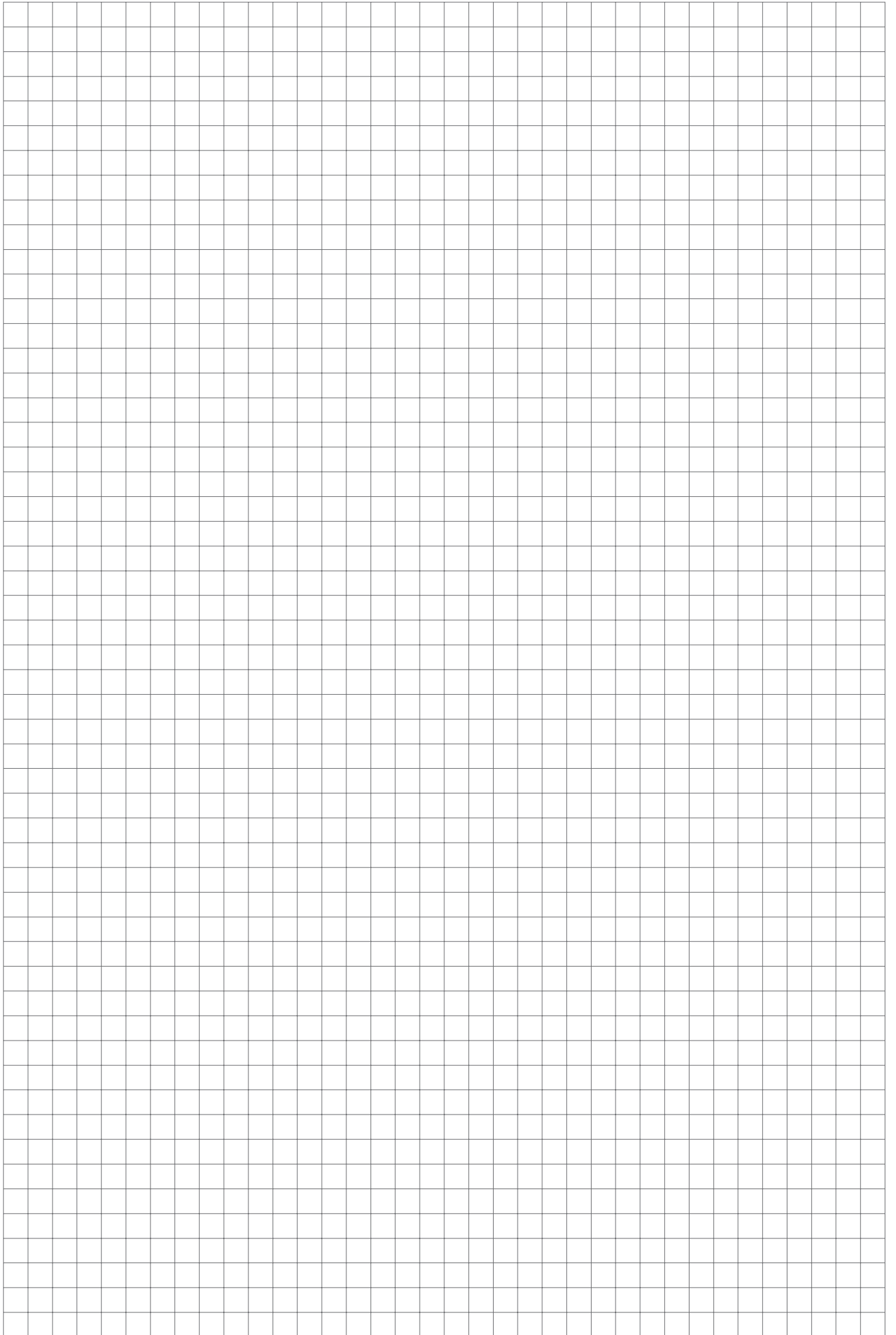
# typhoon

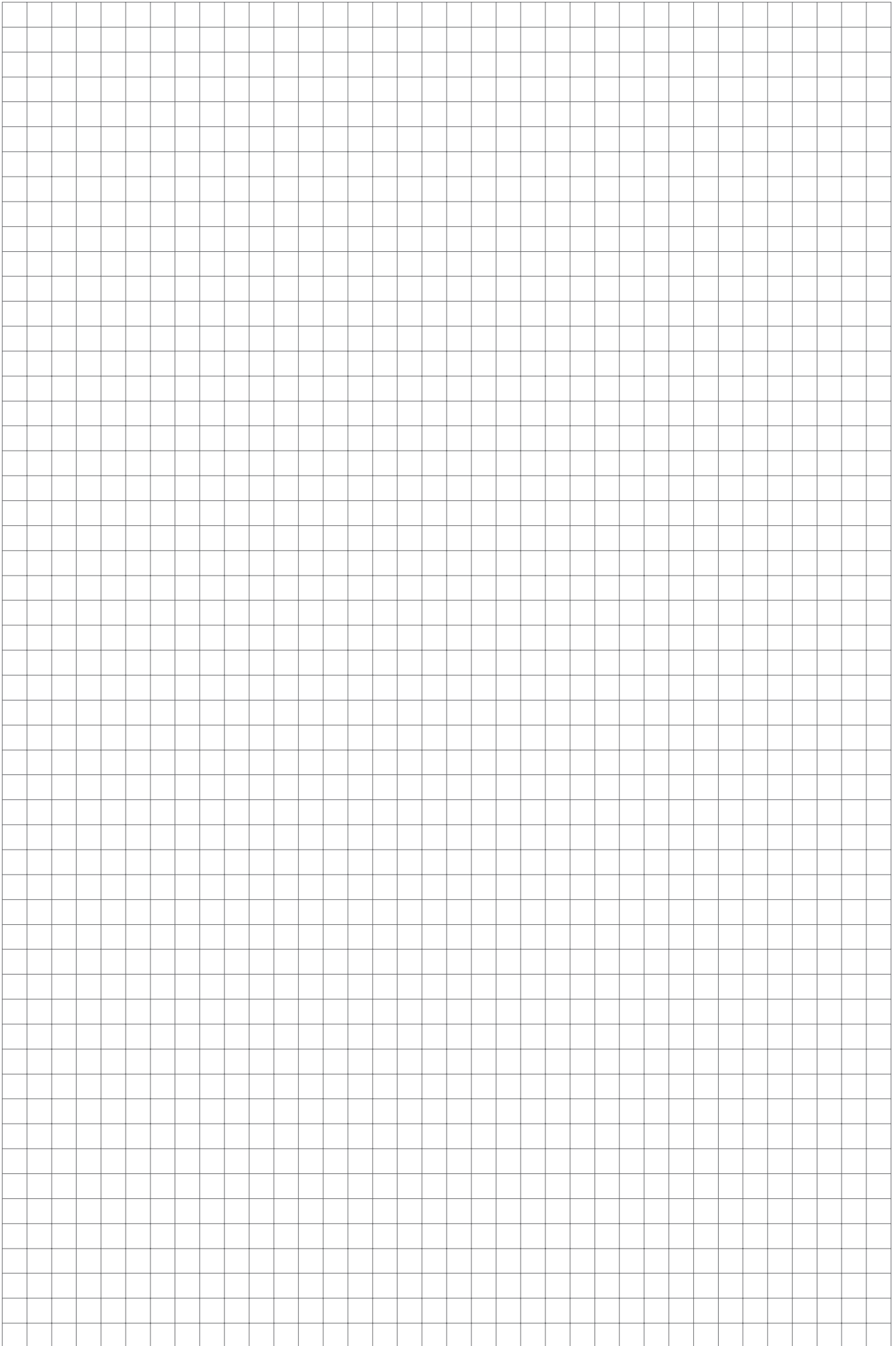
**Anemometer with sun and temperature sensor (WIRELESS and power supply by solar cells)**



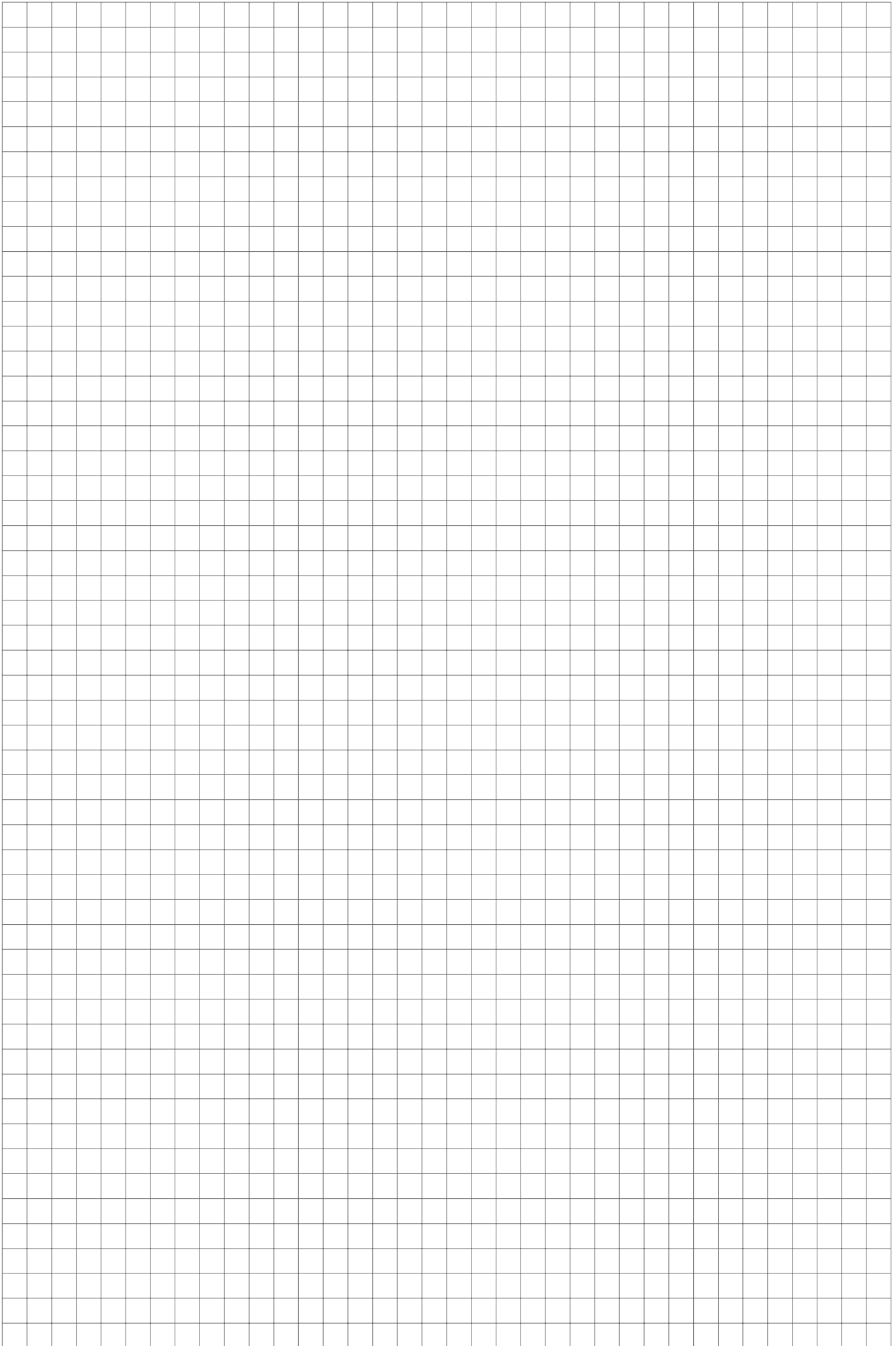
## TECHNICAL FEATURES

MODEL	TYPHOON
CODE	18A015
Frequency (MHz)	434.15
Protection degree (IP)	44
Working temperature (°C)	-20 ÷ +60















[www.v2home.com](http://www.v2home.com)