



# Automations for swing gates





# Technology Versatility Low consumption



## Technological solutions for safe operation

All **V2** actuators for swing gates, driven by digital control units, allow:

- Precise and constant monitoring of the gate position via encoder
- Obstacle detection
- Self-learning of opening and closing times.

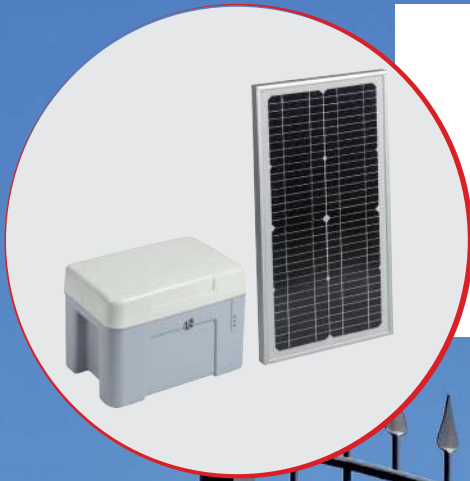
## Versatility of the range

**V2** offers a complete range of automation able to handle any swing gate, from residential use to intensive use, up to 6 meters in length (in this photo the **VULCAN** underground gearmotor is invisible from the outside to preserve the aesthetics of gate. Its water-tightness ensures perfect operation in any weather conditions).

## Particular regard to energy consumption

V2 research is geared towards the development of systems that **reduce consumption and the impact on the environment.**

With this objective, ECO-LOGIC has been created: a solar energy device to power the automation of the gate without connections to the electricity network.



### SHIELD-180

Adjustable and synchronisable  
armoured wall-mounted  
photocells



### SIRM DIGIT

Digital selector  
via radio or cable



**Simplicity, Speed, Safe**





## Comfort and simplicity

Aimed at technicians and installers, the *V2AppTool* is the app that allows you to program the parameters of the V2 control units that drive the actuators via smartphones and tablets. The *V2AppTool*, available for Android and iOS, requires only the installation of the BT-01 Bluetooth module.

What can you do with the *V2AppTool*? You can set all the parameters of the control panel, load the default data, read the current configuration, or load a previously saved one.

The *V2AppTool* also allows you to access the event log, quickly update the firmware of the control unit and place the previously saved configurations in cloud.



## Speed = shorter waiting times

Within the **V2** range, there are models of fast actuators (highlighted by the abbreviation “Fast”) that guarantee opening and closing with shorter waiting times.



## Operating safety

V2 offers a wide range of accessories and safety devices for the protection of end users against the danger of crushing.

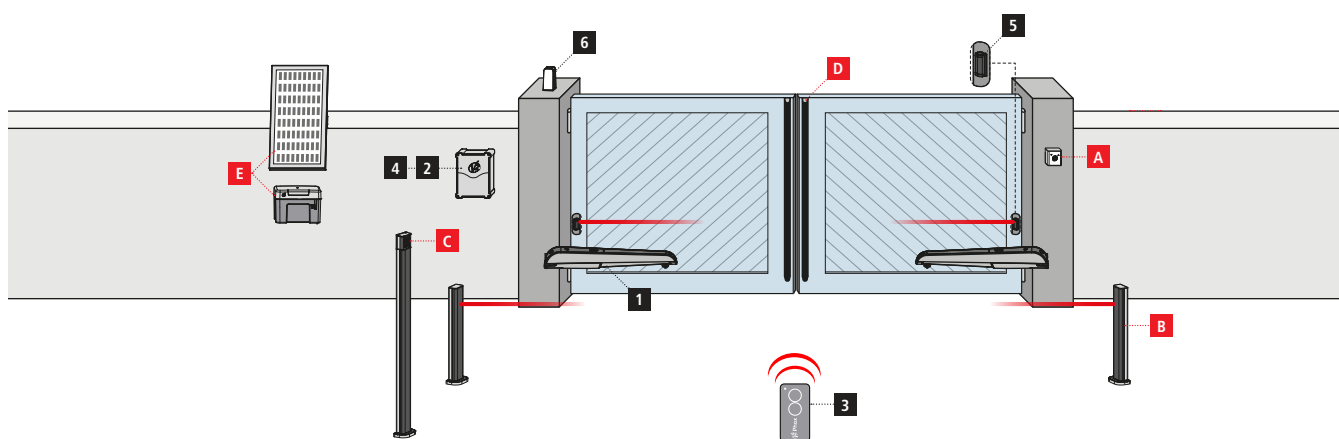


## Quality guarantee

**V2** products comply with the European Directives and the main internationally recognised standards.

In the **V2** laboratories, scrupulous tests are carried out on all products before being certified by qualified external bodies.

# EXAMPLE SYSTEM MOTORS FOR SWING GATES



## 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

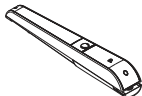
LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm <sup>2</sup>	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
230V motor power supply	4G x 1.5 mm <sup>2</sup>	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>
24V motor power supply	2G x 1.5 mm <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

10|11 **axil** 

12|13 **axil kit**

14|15 **calypso** 

16|17 **calypso kit**

18|19 **bingo** 

20|21 **drys** 

22|23 **ursus** 

24|25 **zariss** 

26|27 **zariss kit**

28|29 **ciclón** 

30|31 **blitz** 

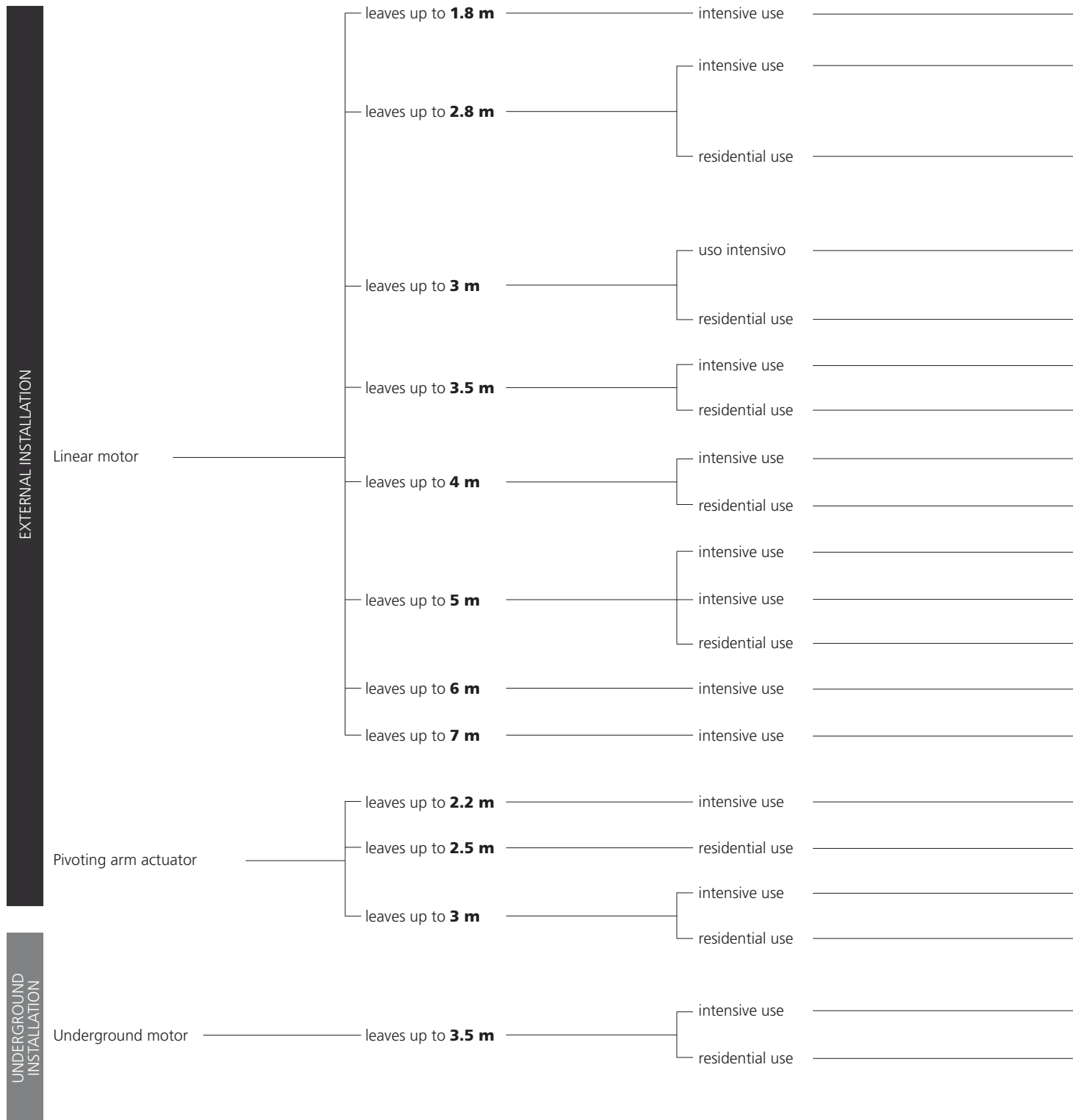
### Motors for UNDERGROUND INSTALLATION

32|33 **vulcan** 

34|35 **vulcan kit**

# SELECTION GUIDE

## MOTORS FOR SWING GATES





230V	hydraulic irreversible	→	<b>dry</b> s 270 I-230V	20 21
24V	electromechanical with encoder	→	<b>axil</b> -24V	10 11
230V	electromechanical	→	<b>axil</b>	10 11
	electromechanical with encoder	→	<b>axil</b> -ECD	10 11
	electromechanical with electrical limit switch	→	<b>axil</b> -FC	10 11
230V	hydraulic reversible	→	<b>dry</b> s 270 R-230V	20 21
230V	electromechanical	→	<b>calypso</b> 500-230V	14 15
24V	electromechanical	→	<b>bingo</b> 400-24V	18 19
230V	electromechanical	→	<b>bingo</b> 400	18 19
230V	hydraulic irreversible	→	<b>ursus</b> -A33	22 23
230V	electromechanical	→	<b>calypso</b> 600-230V	14 15
24V	hydraulic irreversible	→	<b>dry</b> s 390 I-230V	20 21
24V	electromechanical	→	<b>bingo</b> 500-24V	18 19
230V	electromechanical	→	<b>bingo</b> 500	18 19
230V	hydraulic irreversible	→	<b>ursus</b> -A43	22 23
230V	hydraulic reversible	→	<b>dry</b> s 390 R-230V	20 21
24V	electromechanical	→	<b>zariss</b>	24 25
230V	electromechanical	→	<b>ciclón</b>	28 29
24V	electromechanical	→	<b>blitz</b> -24V	30 31
230V	electromechanical	→	<b>blitz</b> -230V	30 31
24V	electromechanical	→	<b>vulcan</b> -24V	31 32
230V	electromechanical	→	<b>vulcan</b> -230V	31 32



# axil

## Irreversible electromechanical actuator

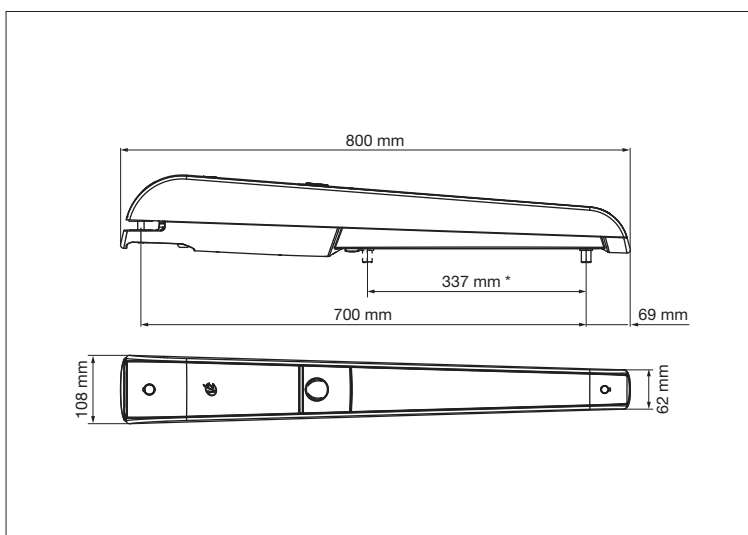
for swing gates with leaves up to 2.8 m in length

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

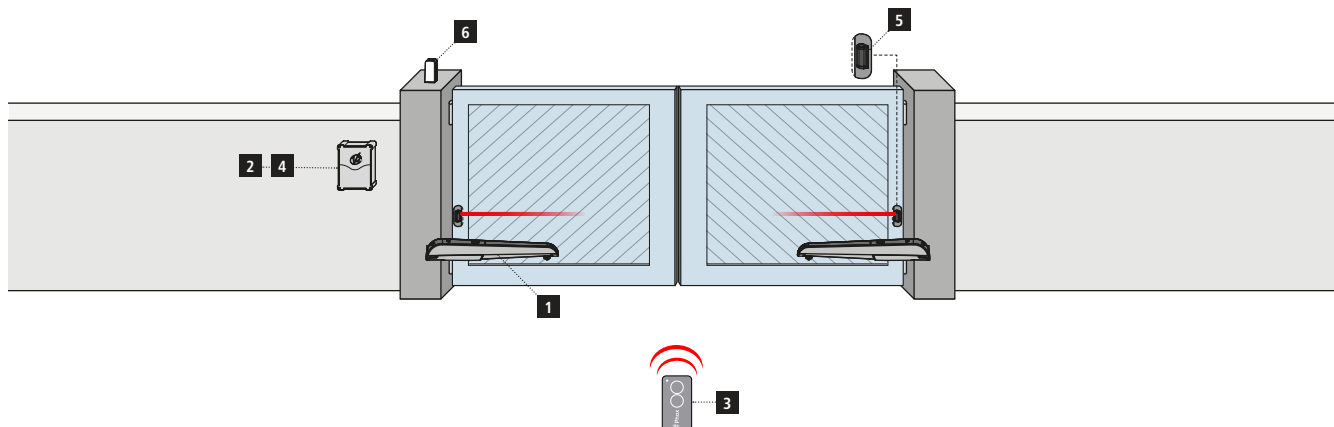


**6** LUMOS-M  
Led flashing light



**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

	<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

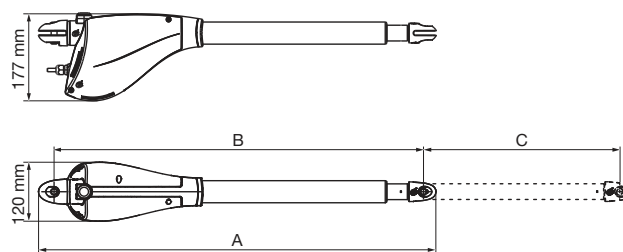
for swing gates with leaves **up to 4 m in length**

Available in three versions: **400. 500 and 600 mm**



### PLUS

- Single version for both right and left leaves
- Practical release system
- 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
MODEL	CALYPSO 400	CALYPSO 500	CALYPSO 600
CODE	22G001	22G003	22G016
Maximum leaf length (m)	2.5	3	4
Maximum leaf weight (Kg)	400	500	500
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Idling current (A)	0.8	0.8	0.8
Full load current (A)	1.2	1.2	1.2
Maximum electric power (W)	250	250	250
Opening time of the leaf 0 ÷ 90° (s)	22	25	30
Maximum travel (mm)	400	500	600
Operating speed (m/s)	0.016	0.016	0.016
Maximum thrust (N)	2300	2300	2300
Working temperature (°C)	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50
Protection degree (IP)	44	44	44
Duty cycle (%)	30	30	30
Motor weight (Kg)	6.5	6.8	7.1

**CONTROL UNITS TO BE USED**



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



<b>162237</b> Kit of brackets to be screwed	<b>ACC009</b> Warning sign
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# calypso kit

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

## COMPOSITION



**1**  
**Attuatore elettromeccanico irreversibile**



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



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



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



**4 MR2**  
**Plug-in module receiver**



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

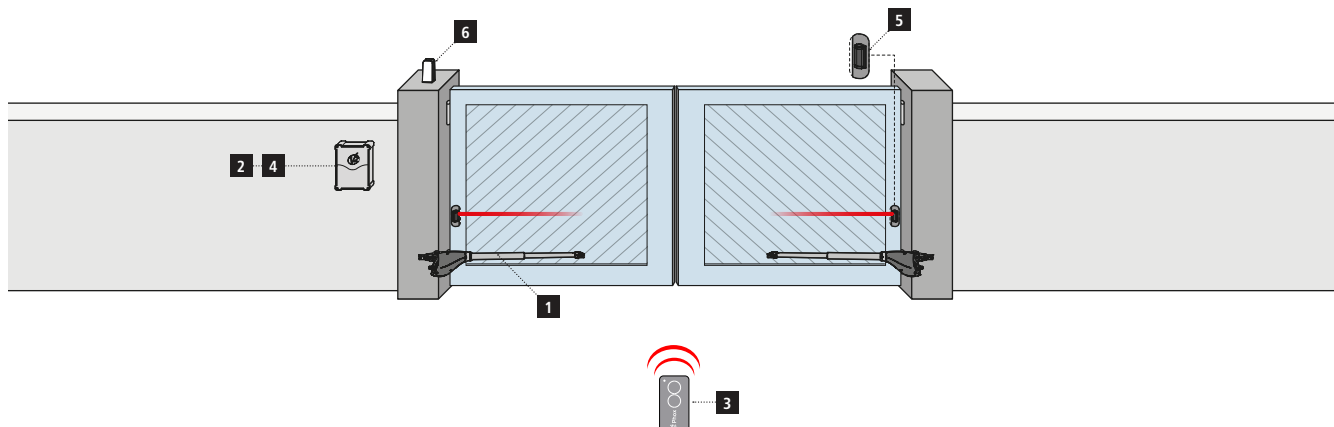


**6 LUMOS-M**  
**Led flashing light**



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

**calypso kit**

Selection guide

	<b>Kit MODEL</b> ▼	 <b>CENTRALE DI COMANDO</b>	 <b>PHOX2</b>	 <b>MR2</b>	 <b>SENSIVA-XS</b>	 <b>LUMOS-M</b>	 <b>ACC009</b>	<b>Kit CODE</b> ▼
<b>230V</b>	<b>Kit Light-E</b> CALYPSO-230V	<b>CITY1-EVO</b>	■ ■	■				29D044
	<b>Kit Full-E</b> CALYPSO-230V	<b>CITY1-EVO</b>	■ ■	■	■	■	■	29D045
	<b>Kit Light-A</b> CALYPSO-230V	<b>FLEXY2</b>	■ ■					29D029
	<b>Kit Full-A</b> CALYPSO-230V	<b>FLEXY2</b>	■ ■		■	■	■	29D030



# bingo

## Irreversible electromechanical actuator

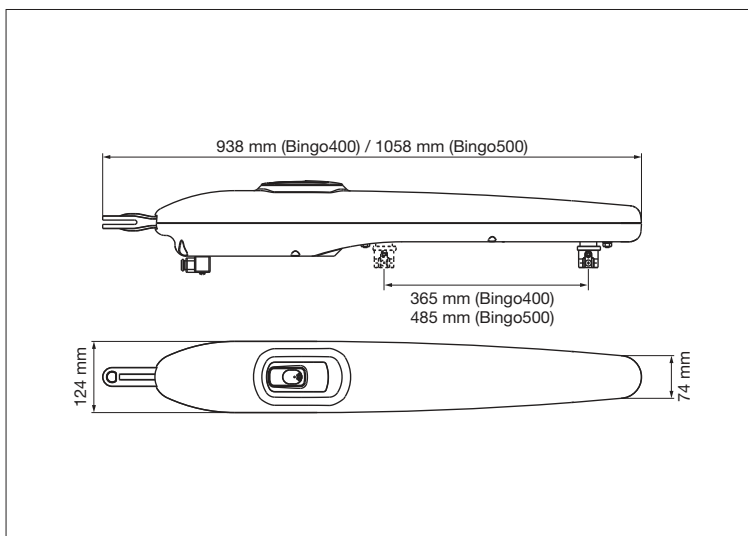
for swing gates with leaves up to 5 m in length

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



# dryS

## 230V hydraulic actuator

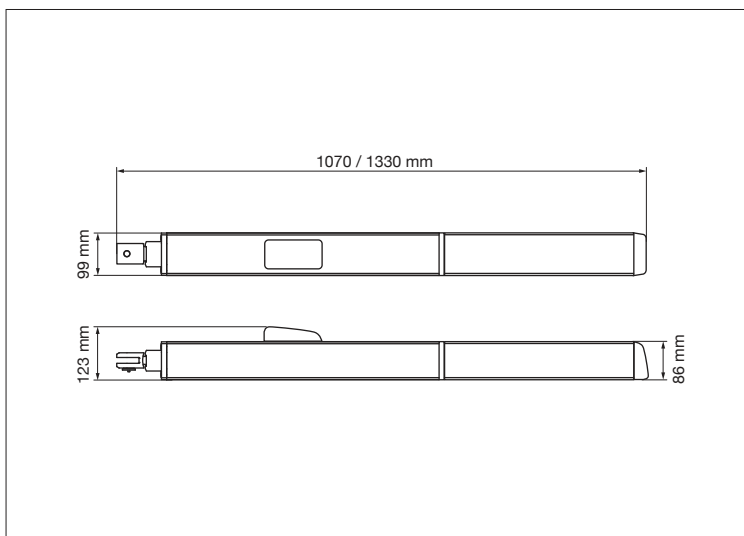
for swing gates with leaves up to 7 m in length

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 (390 models)
- Push and pull adjustment through adjustable valves



### TECHNICAL FEATURES

Description	230V reversible for leaves up to 3 m	230V irreversible for leaves up to 1.8 m	230V reversible for leaves up to 7 m	230V irreversible for leaves up to 5 m
<b>MODEL</b>	<b>DRYS270-R</b>	<b>DRYS270-I</b>	<b>DRYS390-R</b>	<b>DRYS390-I</b>
<b>CODE</b>	<b>22D011</b>	<b>22D012</b>	<b>22D013</b>	<b>22D014</b>
Maximum leaf length (m)	3	1.8	7	5
Maximum leaf weight (Kg)	350	350	700	700
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Full load current (A)	1	1	1.9	1.9
Maximum electric power (W)	250	250	350	350
Opening time of the leaf 0 ÷ 90° (s)	20	20	30	30
Maximum travel (mm)	270	270	390	390
Operating speed (m/s)	0.013	0.013	0.013	0.013
Maximum thrust (N)	5500	5500	7800	7800
Working temperature (°C)	-25 ÷ +70	-25 ÷ +70	-25 ÷ +70	-25 ÷ +70
Protection degree (IP)	54	54	54	54
Duty cycle (%)	75	75	75	75
Motor weight (Kg)	8	8	10	10

**CONTROL UNITS TO BE USED**

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

**ACCESSORIES**

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**ACC009**

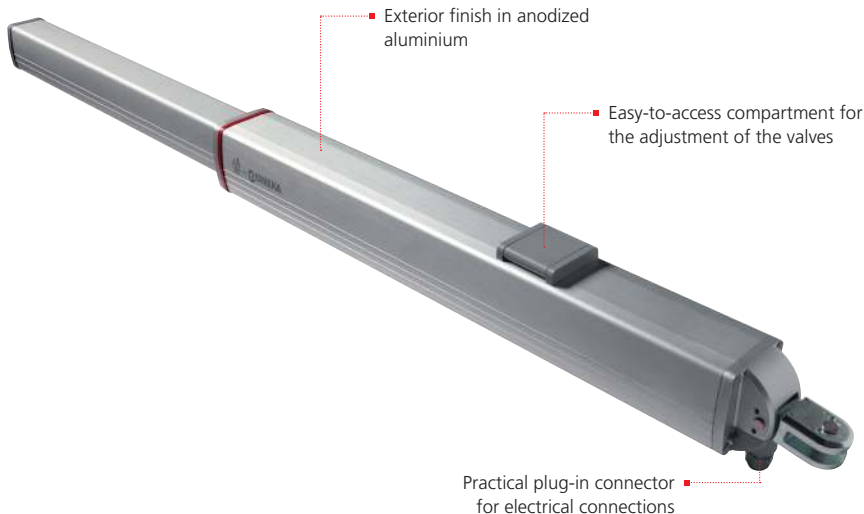
Warning sign



# ursus

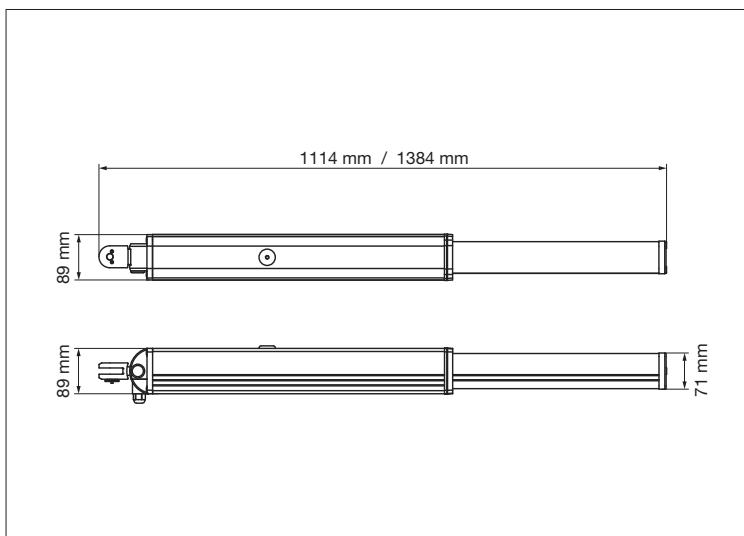
## 230V hydraulic actuator

for swing gates with leaves **up to 6 m in length**



### PLUS

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



### TECHNICAL FEATURES

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

**CONTROL UNITS TO BE USED**

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<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**

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**ACC009**  
Warning sign



# zariss

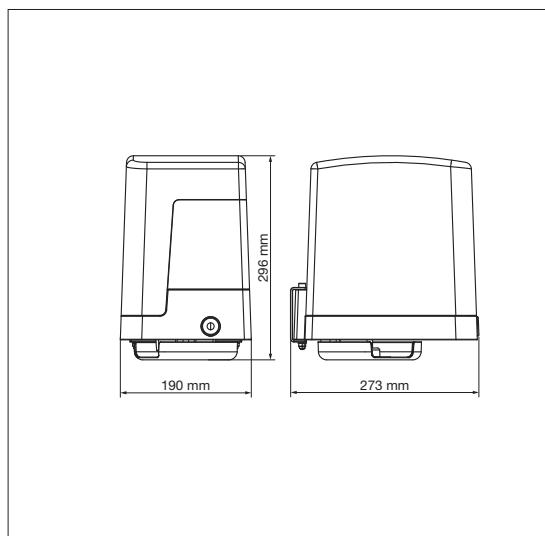
## 24V irreversible electromechanical pivoting arm actuator

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

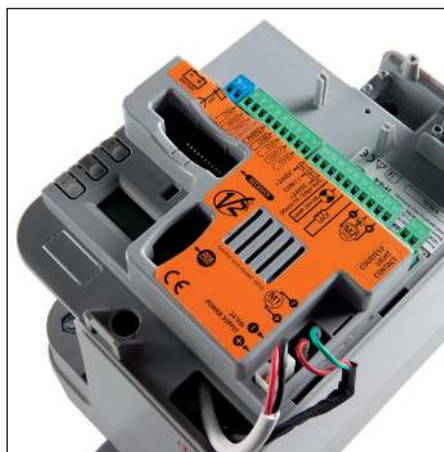


### TECHNICAL FEATURES

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

ACCESSORIES



<p><b>11B047 ▪ MR2</b></p> <p>433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)</p>	<p><b>161221 ▪ BT01</b></p> <p>ADI module for managing the control unit via Bluetooth and <b>V2app</b></p>	<p><b>161212 ▪ B-PACK</b></p> <p>Backup battery with built-in charger</p>	<p><b>ACC009</b></p> <p>Warning sign</p>
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# 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

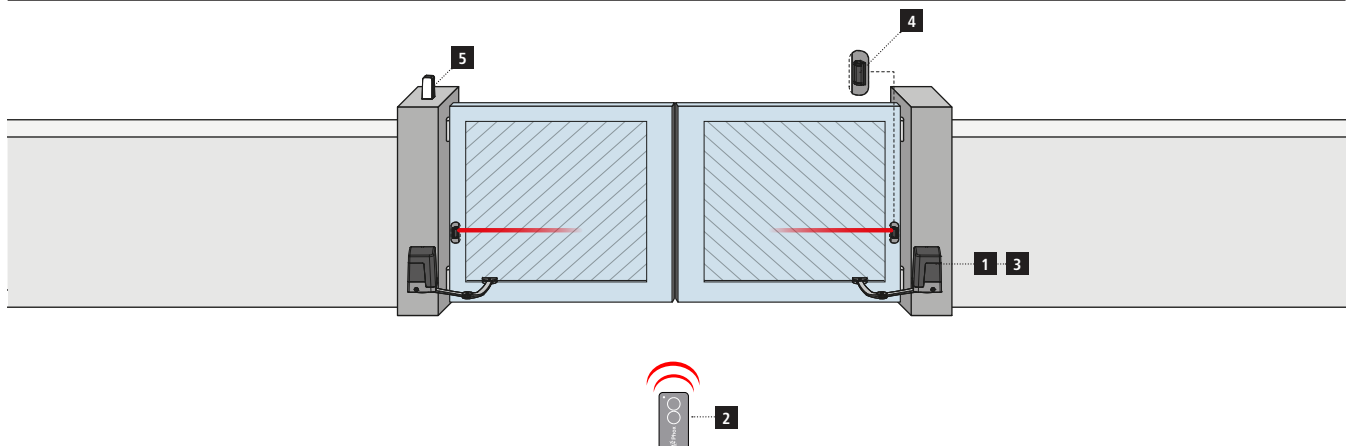


**5** **LUMOS-M**  
Led flashing light



**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

**zariss 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>Kit Light</b> ZARISS-24V	■ ■	■				29E026
	<b>Kit Full</b> ZARISS-24V	■ ■	■	■	■	■	29E027



# ciclón

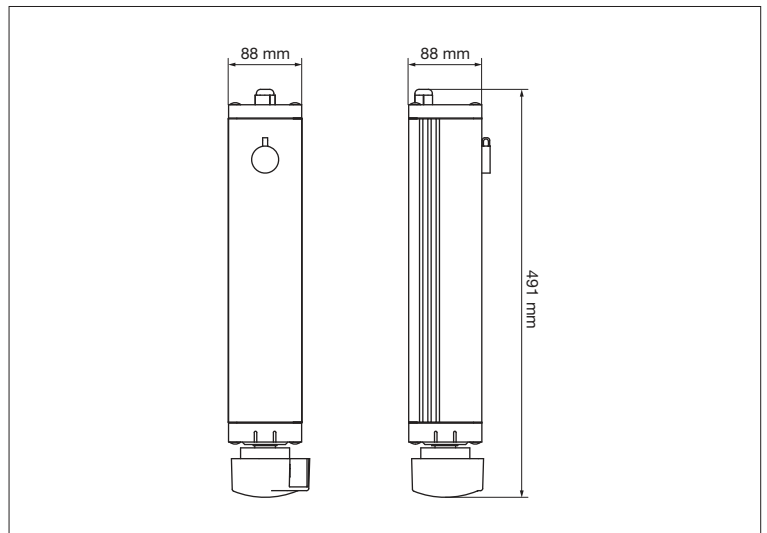
## 230V irreversible electromechanical pivoting arm

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**

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<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

**ACCESSORIES**

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



# blitz

## Irreversible electromechanical pivoting arm

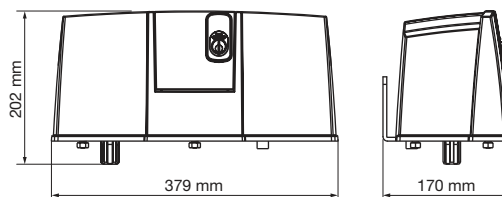
for swing gates with leaves up to 3 m in length

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

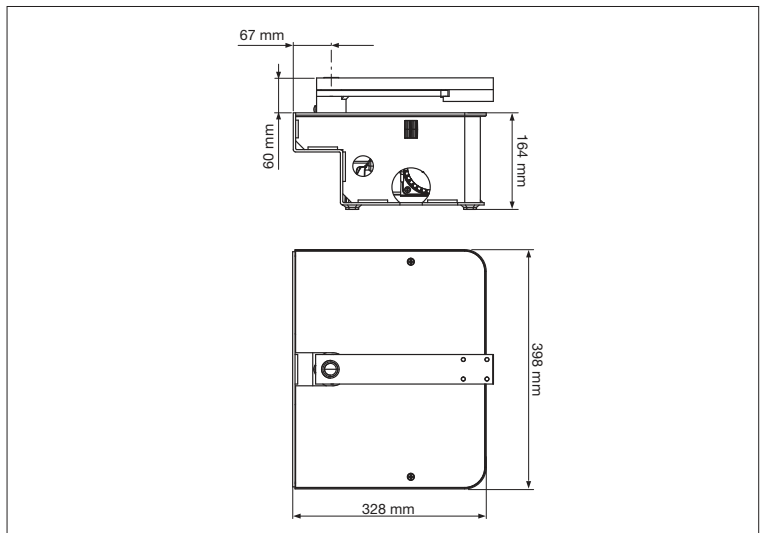
for swing gates with leaves up to 3.5 m in length

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)	230V for leaves up to 3.5 m (slow model)	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-230V-S</b>	<b>VULCAN-24V</b>
<b>CODE</b>	<b>22F003</b>	<b>22F008</b>	<b>22F010</b>	<b>22F005</b>
Maximum leaf length (m)	3.5	3.5	3.5	3.5
Maximum leaf weight (Kg)	800	800	800	600
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	24 Vdc
Full load current (A)	2.4	2.4	2	15
Maximum electric power (W)	550	550	460	-
Opening time of the leaf 0 ÷ 90° (s)	17	17	26	15 - 25
Maximum torque (Nm)	320	320	300	320
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Protection degree (IP)	67	67	67	67
Duty cycle (%)	30	30	30	80
Motor weight (Kg)	11	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



### 162249

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

### 162251

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

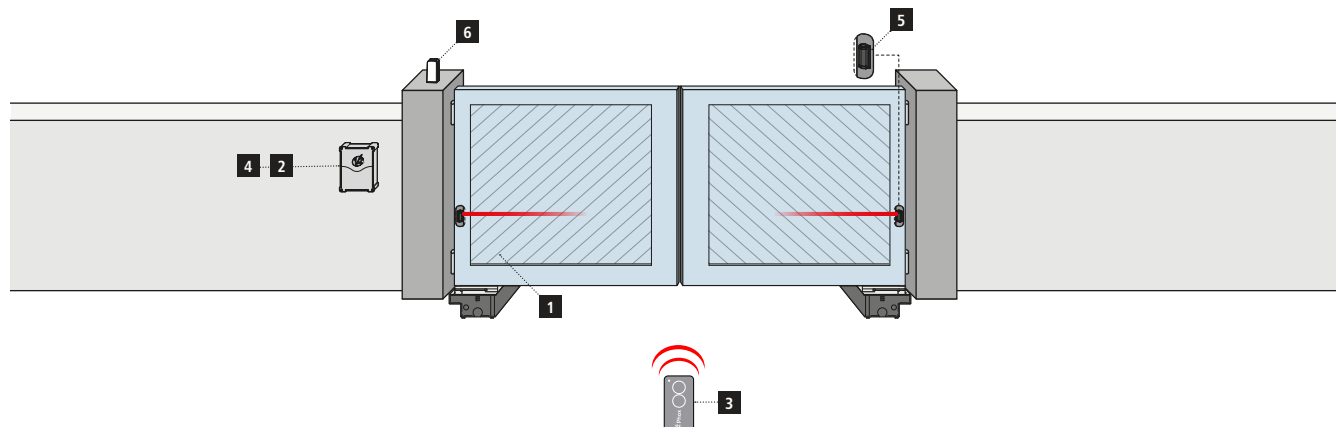


**6 LUMOS-M**  
Led flashing light



**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

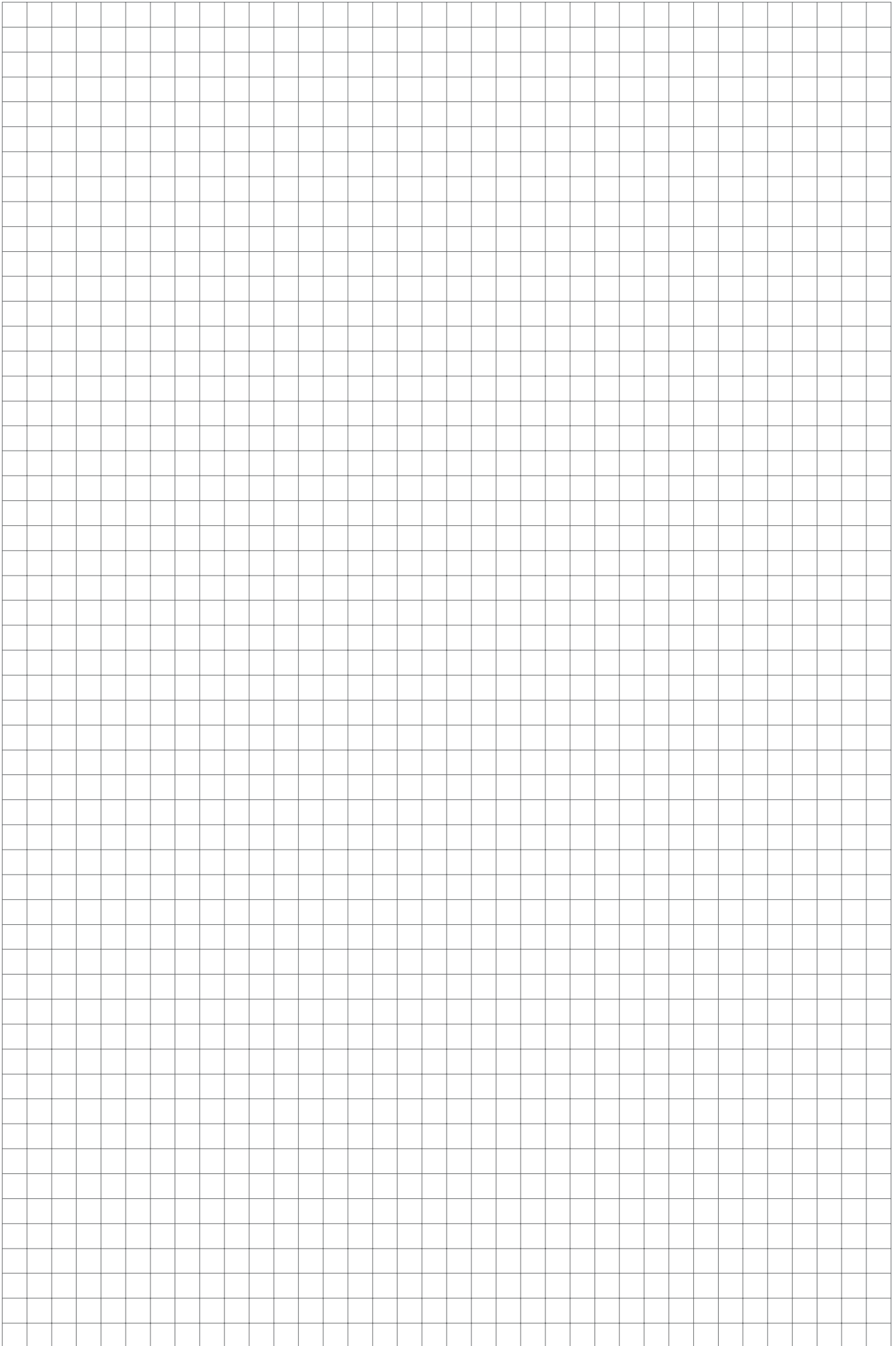
**vulcan kit**

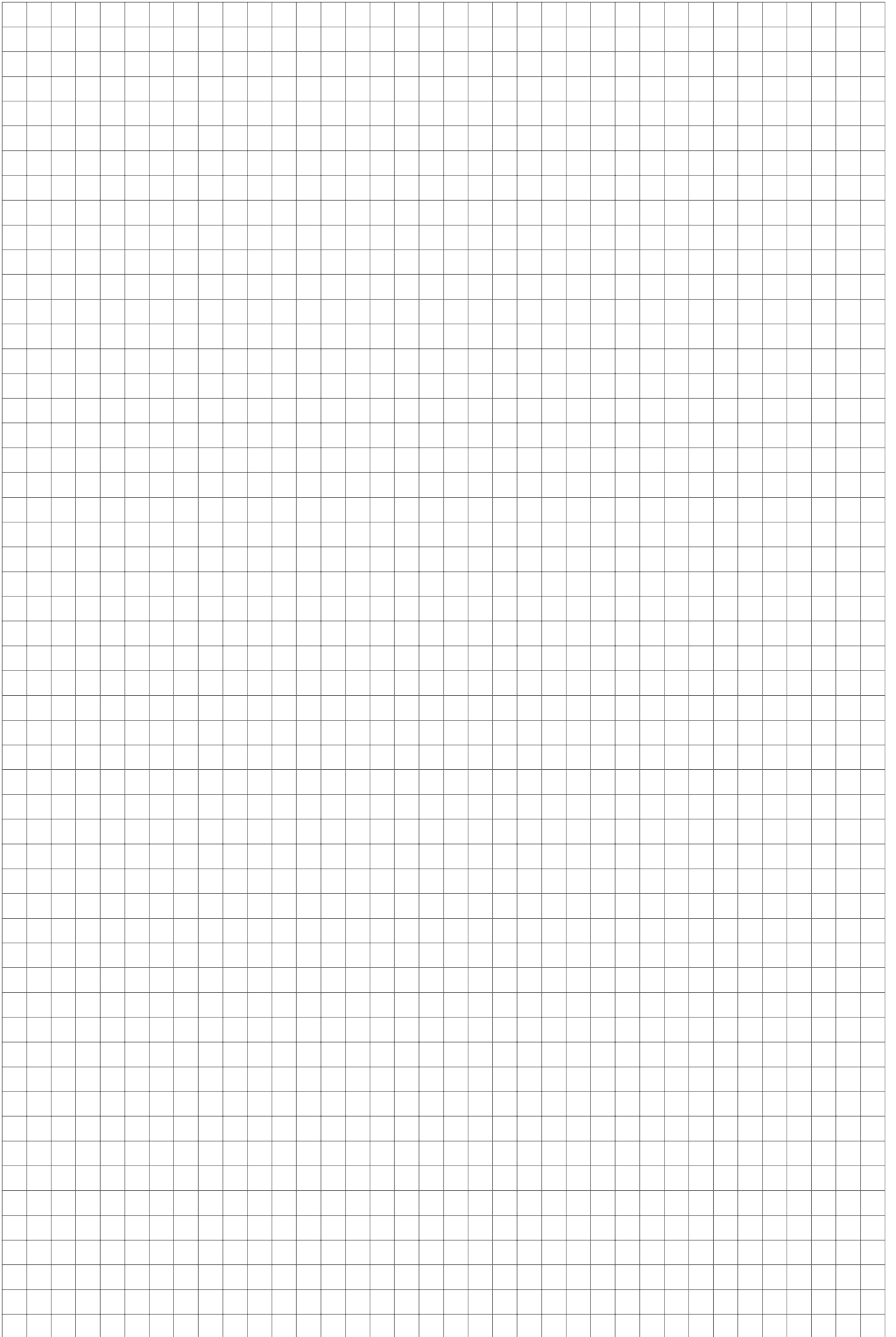
Selection guide

	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

## ICONS

	Control unit power supply voltage
	Motor power supply
	Connector for modular receiver
	Output for flashing light without intermittence
	Output for flashing light with intermittence
	Interface for connecting ADI modules
	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>







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