

IMPORTANT REMARKS

ERREKA has the right to modify the product without previous notice; it also declines any responsibility to damage or injury to people or things caused by improper use or wrong installation.



Please read this instruction manual very carefully before installing and programming your control unit.

- This instruction manual is only for qualified technicians, who specialize in installations and automations.
- The contents of this instruction manual do not concern the end user.
- Every programming and/or every maintenance service should be done only by qualified technicians.

AUTOMATION MUST BE IMPLEMENTED IN COMPLIANCE WITH THE EUROPEAN REGULATIONS IN FORCE:

EN 60204-1 (Machinery safety electrical equipment of machines, part 1: general rules)

EN 12445 (Safe use of automated locking devices, test methods)

EN 12453 (Safe use of automated locking devices, requirements)

- The installer must provide for a device (es. magnetothermal switch) ensuring the omnipolar sectioning of the equipment from the power supply.
The standards require a separation of the contacts of at least 3 mm in each pole (EN 60335-1).
- The plastic case has an IP55 insulation; to connect flexible or rigid pipes, use pipefittings having the same insulation level.
- Installation requires mechanical and electrical skills, therefore it shall be carried out by qualified personnel only, who can issue the Compliance Certificate concerning the whole installation (Machine Directive 2006/42/CEE, Annex IIA).
- The automated vehicular gates shall comply with the following rules: EN 13241-1, EN 12453, EN 12445 as well as any local rule in force.
- Also the automation upstream electric system shall comply with the laws and rules in force and be carried out workmanlike.
- The door thrust force adjustment shall be measured by means of a proper tool and adjusted according to the max. limits, which EN 12453 allows.
- We recommend to make use of an emergency button, to be installed by the automation (connected to the control unit STOP input) so that the gate may be immediately stopped in case of danger.
- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised do not play with the appliance.

EC DECLARATION OF INCORPORATION FOR PARTLY COMPLETED MACHINERY

(Directive 2006/42/EC, Annex II-B)

The manufacturer (*) **Matz-Erreka,S.Coop.**, headquarters in **B° Ibarreta s/n, 20577 Antzuola (Gipuzkoa), España**

Under its sole responsibility hereby declares that:

the partly completed machinery model(s):
CA43 (*), CA53 (*), CA43M (*), CA53M (*)

Identification number and year of manufacturing: **typed on nameplate**

Description: **electromechanical operator for gates**

- is intended to be installed on **gates**, to create a machine according to the provisions of the Directive 2006/42/EC. The machinery must not be put into service until the final machinery into which it has to be incorporated has been declared in conformity with the provisions of the Directive 2006/42/EC (annex II-A).
- is compliant with the applicable essential safety requirements of the following Directives:
Machinery Directive 2006/42/EC (annex I, chapter 1)
Low Voltage Directive 2006/95/EC.
Electromagnetic Compatibility Directive 2004/108/EC.

The relevant technical documentation is available at the national authorities' request after justifiable request to:

Matz-Erreka,S.Coop.
B° Ibarreta s/n, 20577 Antzuola (Gipuzkoa), España

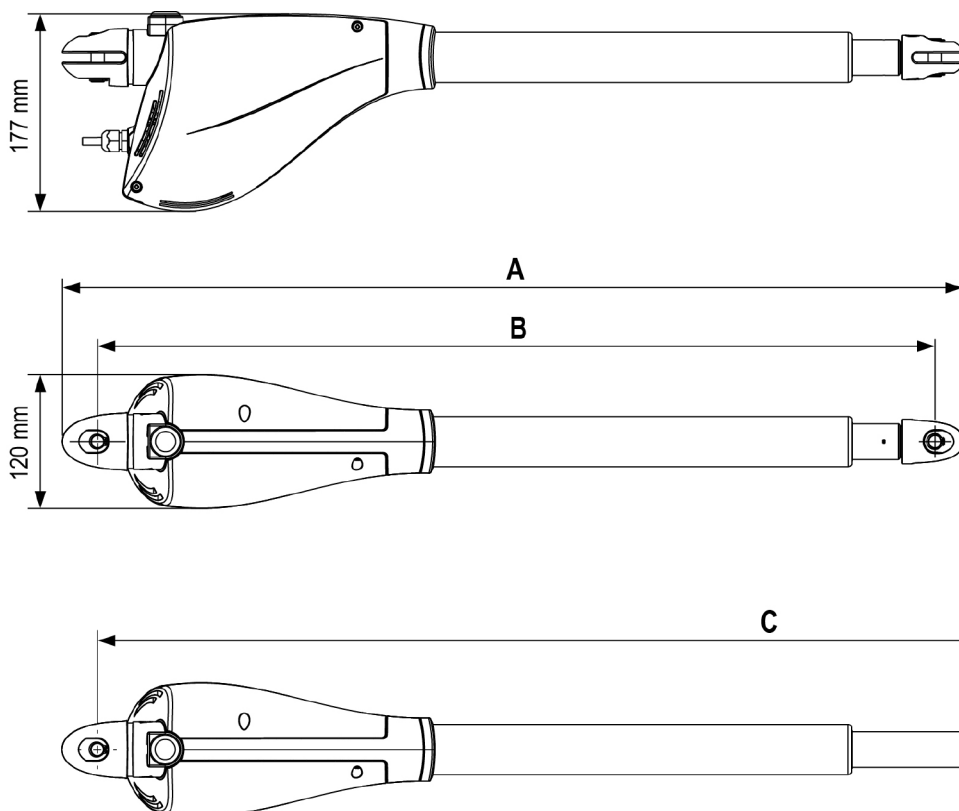
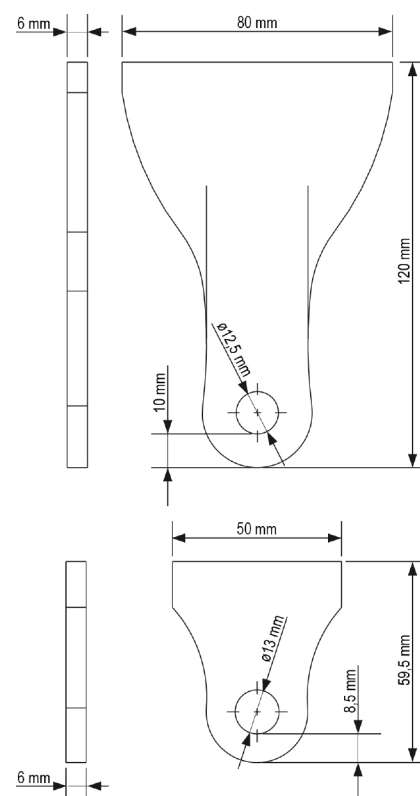
The person empowered to draw up the declaration and to provide the technical documentation:

Roberto Corera
Business Manager
Antzuola, 17/10/2011

(*) made in extra EU Countries on behalf of Matz-Erreka,S.Coop.

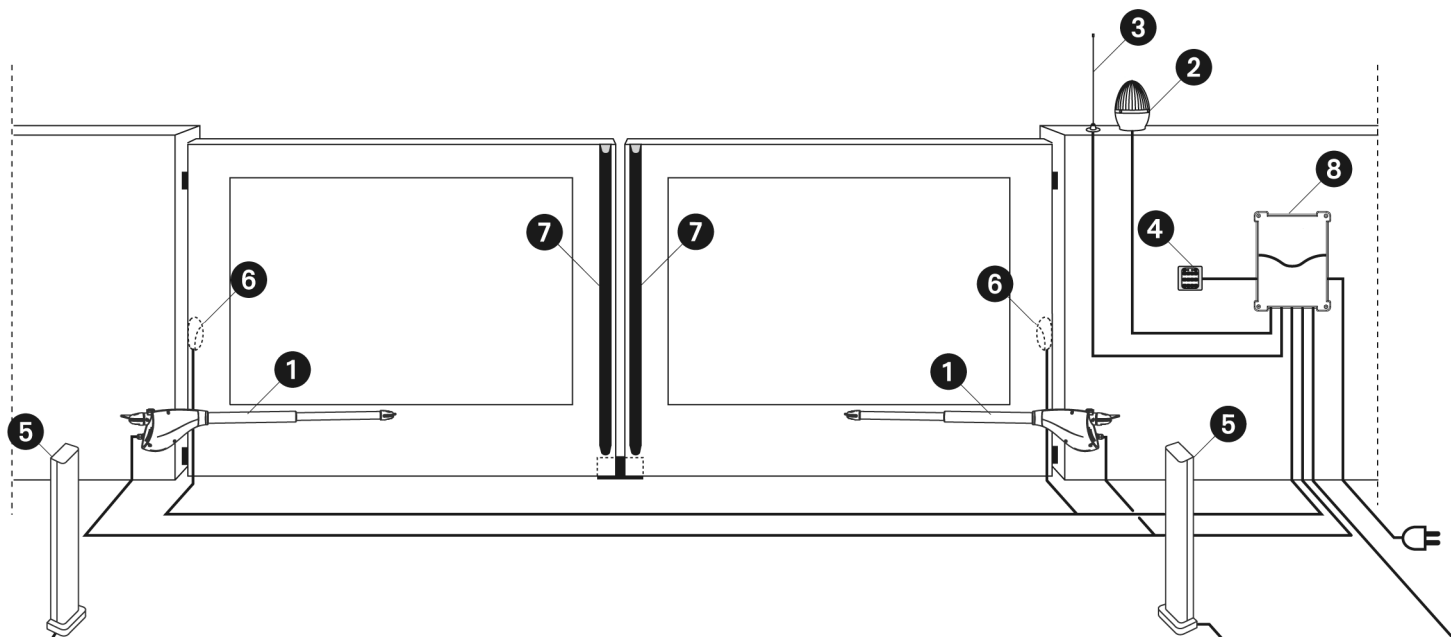
TECHNICAL DATA

		CA43	CA53	CA43M	CA53M
Max. leaf length	m	2,5	3	2,5	3
Max. leaf weight	Kg	400	500	400	500
Power supply	VAC - Hz	230 - 50	230 - 50	120 - 60	120 - 60
Idling current	A	0,8	0,8	2	2
Full load current	A	1	1	2,8	2,8
Maximum Power	W	200	200	300	300
Capacitor	μF	8	8	25	25
Max travel	mm	400	500	400	500
Operating speed	m/s	0,016	0,016	0,018	0,018
Maximum thrust	N	2300	2300	2300	2300
Working temperature	°C	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50	-30 ÷ +50
Protection	IP	44	44	44	44
Working cycle	%	30	30	30	30
Motor weight	Kg	6,5	6,8	6,5	6,8



	CALYPSO 400 CA43, CA43M	CALYPSO 500 CA53, CA53M
A	819	944
B	762	887
C	1162	1387

INSTALLATION LAYOUT



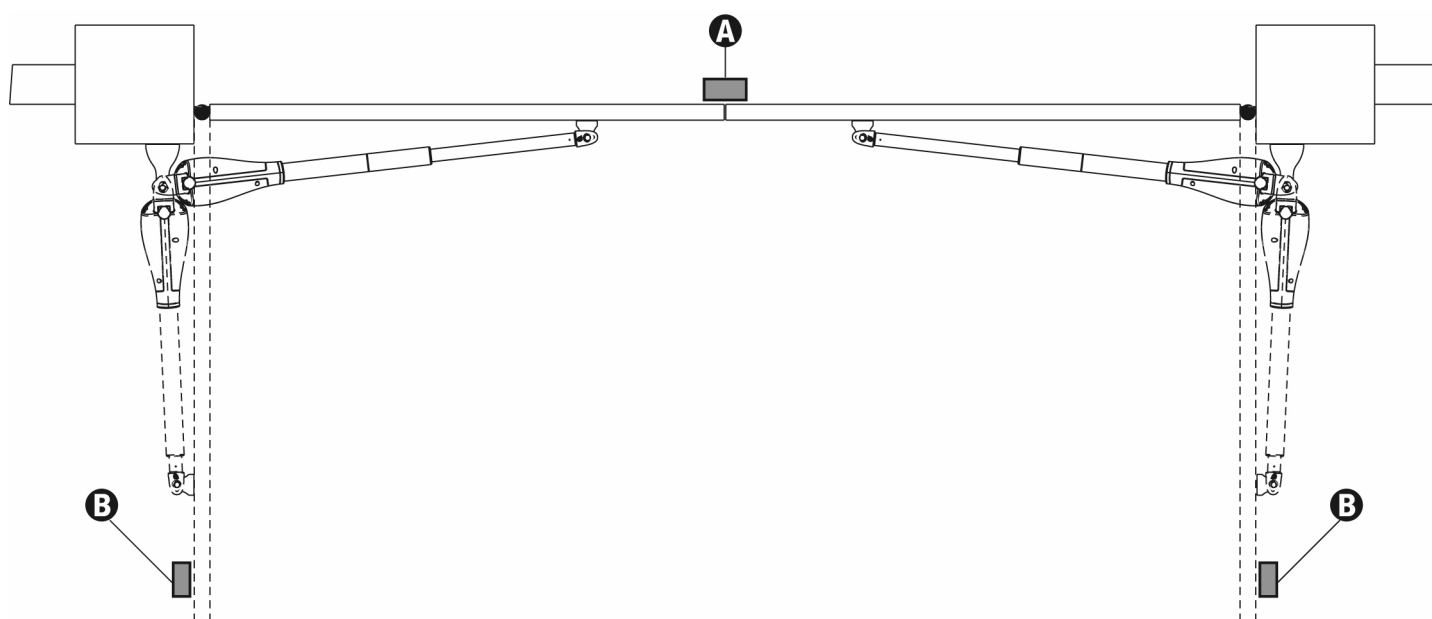
1 CALYPSO operator	cable 4 x 1 mm ²
2 Blinker	cable 2 x 1,5 mm ²
3 Aerial	cable RG-58
4 Key or digital selector	cable 2 x 1 mm ²

5 Internal photocells	cable 4 x 1 mm ² (RX) cable 2 x 1 mm ² (TX)
6 External photocells	cable 4 x 1 mm ² (RX) cable 2 x 1 mm ² (TX)
7 Safety edge (EN 12978)	-
8 Control unit	cable 3 x 1,5 mm ²

PREPARATORY STEPS

The new series of operators CALYPSO, has been devised to serve gates up to 500 Kg with leaf up to 3 meters wide (look at the table technical data). Before proceeding with the installation, please make sure that your gate opens and closes freely, and that:

- Hinges and pins are in optimum condition and properly greased.
- No obstacles are within the moving area.
- There is no friction with the ground or between the leaves.
- Your gate shall be equipped with central **A** and side **B** stops, which are fundamental for the good system operation.

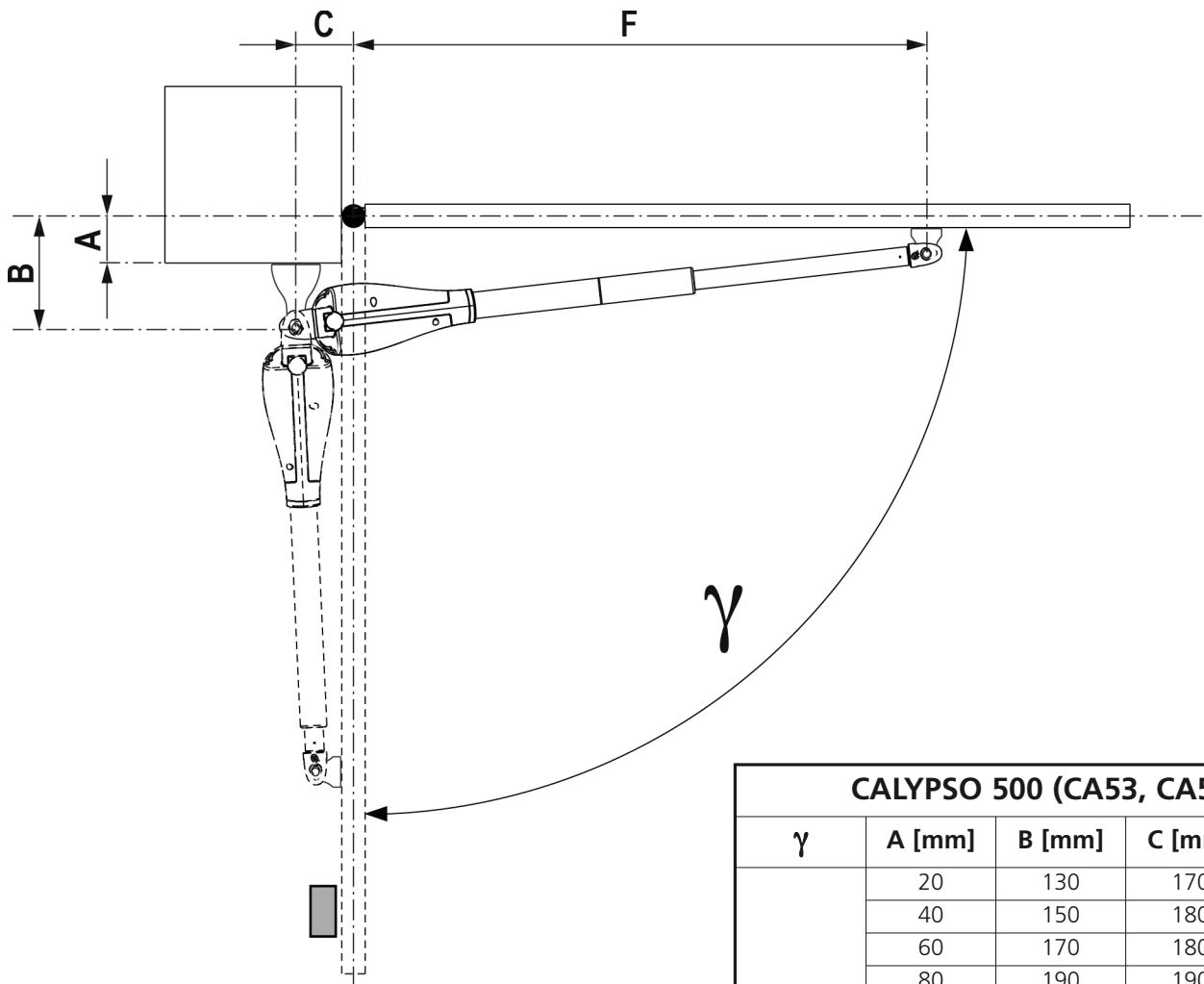


INSTALLATION MEASURES

To carry out a proper installation of the operator parts as well as to ensure the best automation performance, the measurement levels shown in the following table shall be complied with. Change the gate structure to adapt it to one of the cases in the table, if necessary.

⚠ WARNING: In the case of leaf longer than 2 metres, an electric lock must be fitted to ensure an efficient closing.

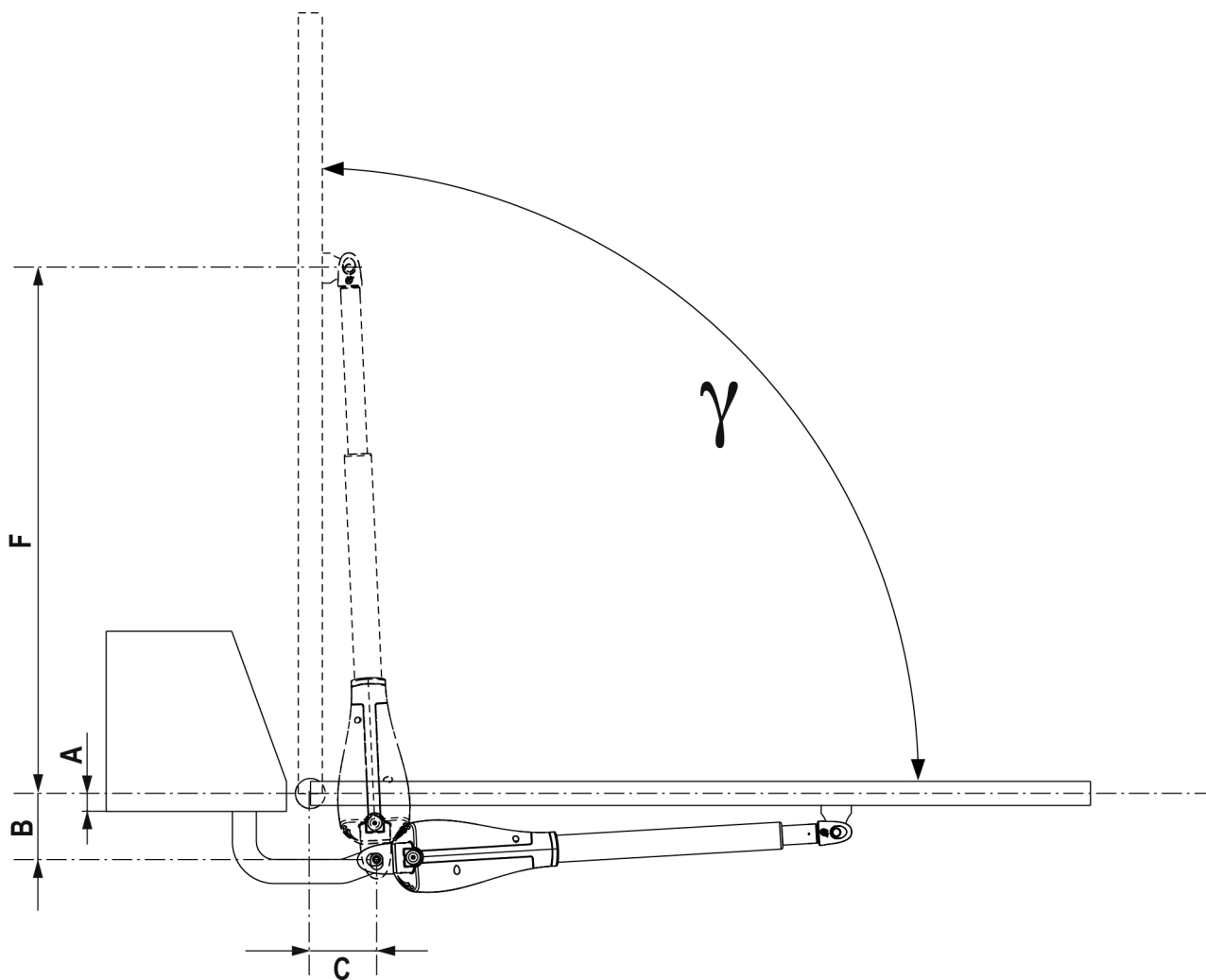
INWARD OPENING



CALYPSO 400 (CA43, CA43M)				
γ	A [mm]	B [mm]	C [mm]	F [mm]
90°	20	130	130	1010
	40	150	140	1000
	60	170	150	990
	80	190	150	980
	100	200	150	980
	120	210	140	980
	140	250	120	1010
100°	20	130	170	970
	40	150	180	960
	60	170	180	960
	80	190	170	970
	100	210	140	990
110°	20	130	190	950
	40	150	180	960
	50	160	170	970

CALYPSO 500 (CA53, CA53M)				
γ	A [mm]	B [mm]	C [mm]	F [mm]
90°	20	130	170	1200
	40	150	180	1190
	60	170	180	1190
	80	190	190	1180
	100	210	190	1170
	120	230	190	1170
	140	250	180	1170
	160	270	190	1170
100°	20	130	160	1210
	40	150	170	1200
	60	170	170	1200
	80	200	180	1190
	100	210	170	1190
	120	230	190	1170
	140	250	180	1180
	170	280	160	1200
110°	20	130	170	1200
	40	150	180	1190
	60	170	180	1190
	80	190	190	1180
	110	220	200	1170

OUTWARD OPENING

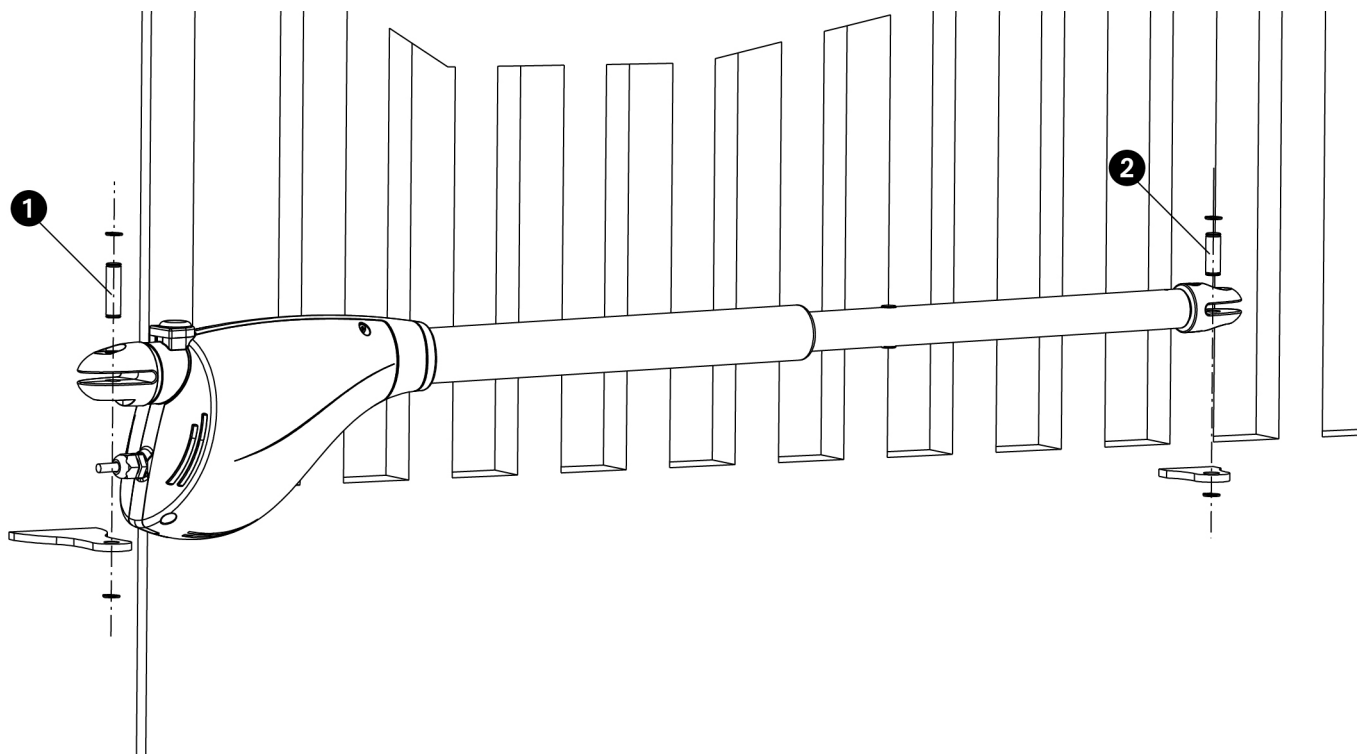


CALYPSO 400 (CA43, CA43M)

γ	A [mm]	B [mm]	C [mm]	F [mm]
80°	30	110 ÷ 130	90	949
85°	30	110 ÷ 130	100	967
90°	30	110 ÷ 130	110	986
95°	30	110 ÷ 130	120	1006
100°	30	110 ÷ 130	130	1027
110°	30	110 ÷ 130	140	1057

CALYPSO 500 (CA53, CA53M)

γ	A [mm]	B [mm]	C [mm]	F [mm]
80°	30	130	100	995
85°	30	130	110	1005
90°	30	130	120	1015
95°	30	130	130	1025
100°	30	130	140	1035
110°	30	130	150	1045



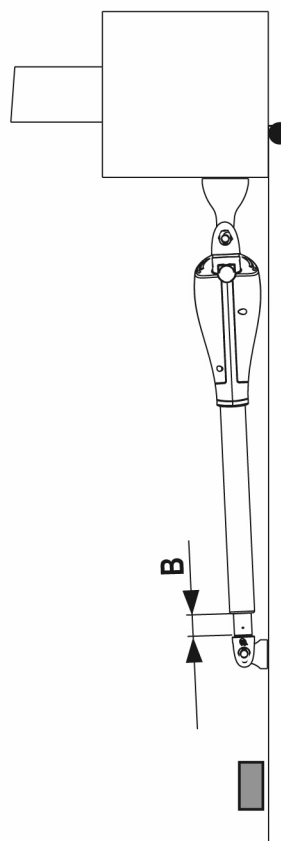
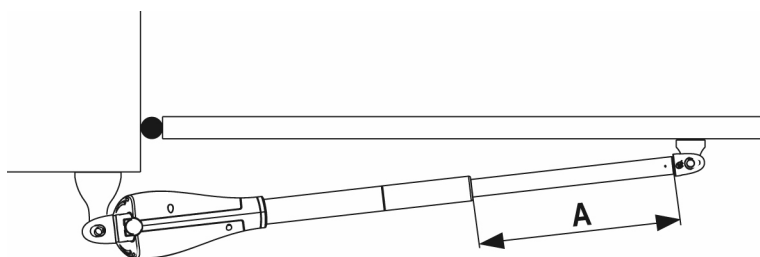
OPERATOR FIXING

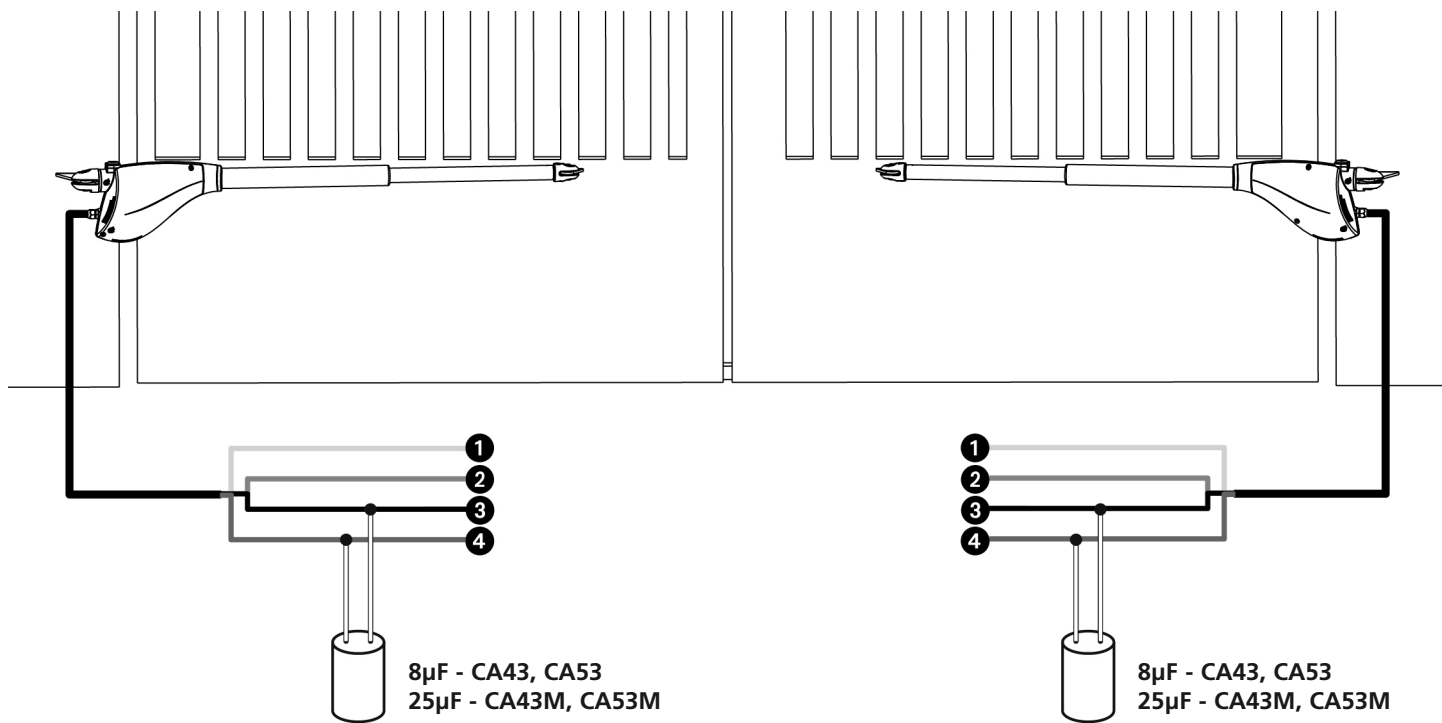
Choose measures referring to the table you can find in the previous page, mark them on the pillars and continue as follows:

- Fix the clamps to the pillar and to the gate soldering directly; if the material does not allow it, it is necessary to solder the clamps to plates to be fixed to the gate and the pillars by screws.
- Close the swing.
- Unlock the operators.
- Position CALYPSO on the brackets and fix the pins no. 1 and no. 2 with seeger (see the picture).
- Open and close the swings repeatedly manually to verify the absence of frictions between gate and ground.

⚠ WARNING: in order to avoid damage to the operator, please adhere to the following conditions:

- The brackets must be installed at the same height.
- The maximum stroke of arm A should not exceed 456 mm for CALYPSO400 (CA43, CA43M) and 556 mm for CALYPSO500 (CA53, CA53M) (in case of gate completely closed).
- The minimum stroke of arm B must be more than 56 mm (in case of gate completely open).





TO CONNECT CALYPSO WITH CONTROL UNIT

	CA43, CA53	CA43M, CA53M	FUNCIÓN
①	YELLOW - GREEN	GREEN	GND
②	GREY	WHITE	COMMON
③	BLACK	BLACK	CLOSING
④	BROWN	RED	OPENING

⚠ WARNING: always remember to connect the earth according to current standards (EN 60335-1, EN 60204-1).

Avoid tension in the cable during open and close operations.

EMERGENCY RELEASE

In case of a blackout, the gate can be operated directly from the motor. Insert the key supplied in the lock, perform 1/2 of a turn. To restore the automation, simply rotate the key in closed position and insert the provided plastic cover onto the lock.

