WARNING / ATTENTION

IMPORTANT FITTING AND OPERATING INSTRUCTIONS

PLEASE START BY READING THESE IMPORTANT SAFETY RULES • SAVE THESE INSTRUCTIONS



This safety alert symbol means "Caution" - failure to comply with such an instruction involves risk of personal injury or damage to property. Please read these warnings carefully.

This gate drive mechanism is designed and tested to offer appropriately safe service provided it is installed and operated in strict accordance with the following safety rules.

Incorrect installation and/or failure to comply with the following instructions may result in serious personal injury or property damage.



When using tools and small parts to install or carry out repair work on a gate exercise caution and do not wear rings, watches or loose clothing.



Installation and wiring must be in compliance with your local building and electrical installation codes. Power cables must only be connected to a properly earthed supply.



Any entrapment possibility by the moving wing between wing & walls must be secured with safety edges or IR-sensors.

Please remove any locks fitted to the gate in order to prevent damage to the gate.

After the installation a final test of the full function of the system and the full function of the safety devices must be done.



This drive cannot be used with a gate incorporating a wicket door unless the drive cannot be operated with the wicket door open.



Frequently examine the installation for imbalance and signs of wear or damage to cables, hardware and mountings. Do not use if repair or adjustment is necessary. Gates which stick or jam must be repaired immediately. *Employ a qualified technician to repair the gate, never attempt to repair it yourself.*



Keep additional accessories away from children. Do not allow children to play with pushbuttons or remote controls. A gate can cause serious injuries as it closes.



Disconnect electric power to the system before making repairs or removing covers.

A disconnecting device must be provided in the permanently-wired installation to guarantee all-pole disconnection by means of a switch (at least 3mm contact gap) or by a separate fuse.



Make sure that people who install, maintain or operate the gate drive and/or the control board are qualified and follow these instructions.

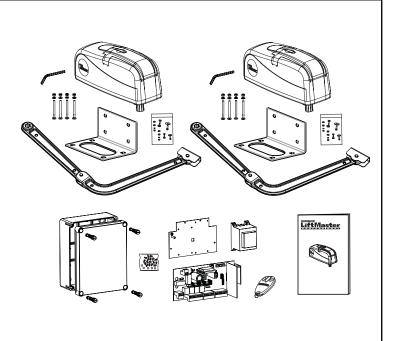
Keep these instructions in a safe place so that you can refer to them quickly when you need to.



The full protection against potential squeeze or entrapment must work direct when the drive arms are installed.

CARTON CONTENTS ART200K

Drive motors	2x
Release key	2x
Box for control	1x
Cover for box	1x
Hinges for box	4x
Control	1x
Transformer	1x
Baseplate For Transformer	1x
Remote control	1-2x*
Radio receiver	1
Radio module	1x
Hardwarebag For Box	1x
Pillar fittings	2x
Gate fittings	2x
Door arm	2x
Hardwarebag	1x
Instructions	1x
Flashing light	1x
Key switch	1x
Photocells	1x
* depending on model resp. available as option	al accessory



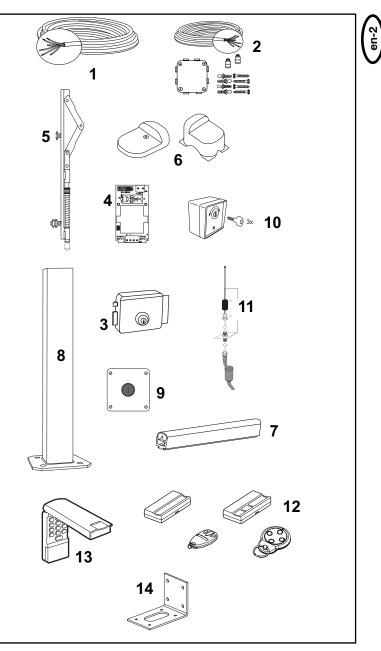
INSTALLATION CHECKLIST - PREPARATIONS

Check the carton contents and read the instructions carefully. Make sure your gate equipment operates perfectly. The gate must run evenly and smoothly and must not stick at any point. Remember that the ground level may be several centimeters higher in winter. The gate must be stable and as free of backlash in order to prevent any unwanted movement. The easier the gate movement the less power is needed by the motor.

Write down any materials you still need and obtain them before starting to install. Heavy-duty plugs, bolts, gate stops, cables, distribution boxes, tools, etc.

AVAILABLE INSTALLATION ACCESSORIES

AVAILABLE INSTALLATION ACCESSORIES			
1. 041ASWG-0482-50	50m roll of installation cable, 6-pole for outdoor use, Laying possible without cable duct with the identical wire colours as motor		
2. LA400-JB40E	Kit for cable extension of one installation unit. Consists of 12m of cable 6-pole with identical colours, distribution box IP65, cable screw joints and fastening material		
3. E-lock	203285 (12Volts)		
4. Transformer for E-lock	207399		
5. Floor locking	203339 (in combination with E-lock)		
6. Stops	for wings 203315 (standard) and 203322 (high)		
7. Safety edge	600046 2.5m set of safety edge (profile & rail) 600053 20m of rubber profile (small) 600077 20m of mounting rail 600077-1 2m of mounting rail 600060 Assembly pack is required for each safety edge		
8. IR Sensor stand	600008 single, height 530mm		
9. Emergency Stop switch	600084 plastic enclosure, IP65		
10. Keyswitch	100034 2-Function, flush-mount 100041 2-Function, surface-mount		
11. External Antenna	ANT4X-1LM		
12. Remote Controls	94330E 1-channel 94333E 3-channel 94334E 4-channel, mini 94335E 3-channel, mini		
13. Wireless keypad	9747E		
14. Base plate slim	ART-6		



BEFORE YOU BEGIN: The ART is suitable for use with wide pillars, up to about 30cm in width. Width of doorwing must comply with chart. The maximum recommended opening angle of the gate is 105 degrees. Ensure that ample space is available next to the drive for the arms and assembly. Gates exposed to a high wind load must be fixed with an electric lock for additional protection. Gate stops must be installed There are many important factors when deciding on the correct motor. Assuming a well functioning gate, the initial force is the most difficult moment. When the gate is moving it generally requires a considerably smaller amount of force.

Gate Size: Gate size is an important factor. Wind can slow down gate or distort it, leading to higher amount of required force. **Gate weight:** Specification of gate weight represents only a rough parameter, which can vary according to actual demand. Operation is important.

Influence of temperature: Low outdoor temperatures can impede or even prevent starting torque (ground deformation etc.). High outdoor temperatures can lead to premature initiation of temperature protection (approx. 135°)

Attention: Motors are not designed to run continuously (continuous operation). The motor warms up and can reach a temperature at which it shuts down until operating temperature is reached again. Outside temperature and gate represent important parameters for actual operating duration.

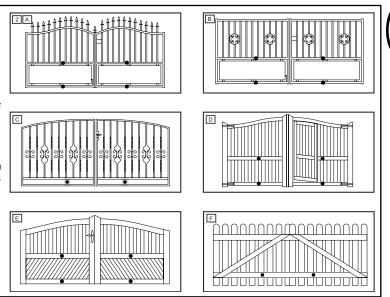
GATE TYPES

The location of the motor installation depends on the type of gate. If the gate stop is on the floor the motor should also be installed as low as possible in order for the gate not to be distorted. Only use frame elements for fastening.With steel gates the fittings should be fastened to the main frame. If you are not sure about the stability of the frame in question then reinforce it.

With wooden gates the frame has to be drilled through completelywhere the fittings are to be fastened. Attaching a plate from the outside is recommended in order to prevent fastening from becoming loose. Thin wooden gates must be reinforced additionally as they do not withstand the strain otherwise.

2,5m per wing / 150Kg
2,0m per wing / 200Kg
1,5m per wing / 250Kg
1,5m

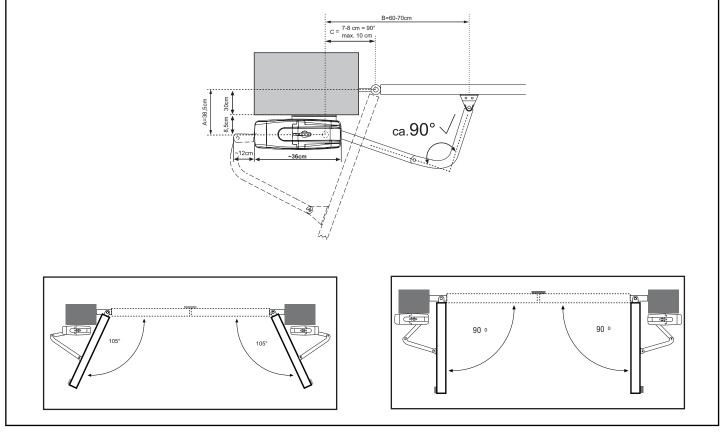
Specifications calculated without windload



e

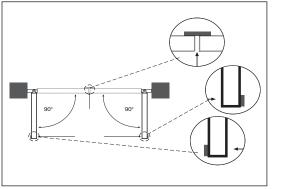
GATE CONFIGURATION

The ART is suitable for use with wide pillars, up to about 30cm in width. The amount of room around the pier affects the opening angle and the position of the arms.



GATE STOPS

A SWING GATE NEEDS A FIXED GATE STOP IN BOTH THE OPEN AND CLOSE POSITIONS. Gate stops save wear and tear on the motor, gate and fittings. Operating a gate without fixed limit stops results in poor performance. It is often dangerous, leads to premature wear and voids your warranty!

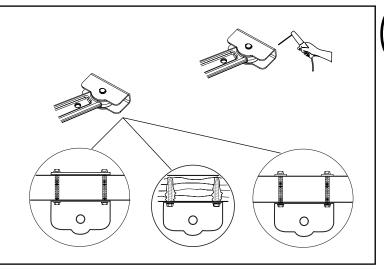


GATE FITTING

With steel gate the fastenings should either be welded on or drilled through completely. If drilling then attach large washers or a plate to the back of the frame.With wooden gates the gate frame has to be drilled through completely where the fittings are to be fastened. Attach reinforcement plate on the outside and inside of the gate in order to prevent wood from giving and the connection to become loose.

Thin wooden gates without metal frame must be reinforced additionally, as they do not withstand the strain otherwise. Before installing the gate fitting, check if you measured the right position for it. Adjust if needed.

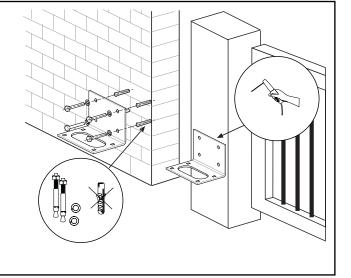
Attach gate fitting with a c-clamp or mark its designated position. To compare, open the gate to designated OPEN position. Now finally mont gate fitting.



BASE PLATE

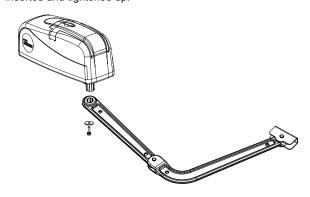
Select and mark the mounting height on the pier.

Finding the right mounting position. Mount the drive on the pier and attach it to the gate. The drive exerts a great amount of force on the pier. A steel pier will provide the most stability. Welding the supplied hinge plate directly on to the pier will generally provide enough room for mount. In the case of thick brick or concrete pillars, the hinge plate should be welded onto a support plate, that is mounted in such a way that the plugs cannot work loose. Adhesive shear connectors are better than steel or plastic wedge anchors for this purpose. A threaded rod is then mounted into the masonry with a stress free adhesive seal. A watertight distribution unit should be mounted on the pier next to the hinge plate. The feed cable for the wing gate opener is led into this unit from underneath.

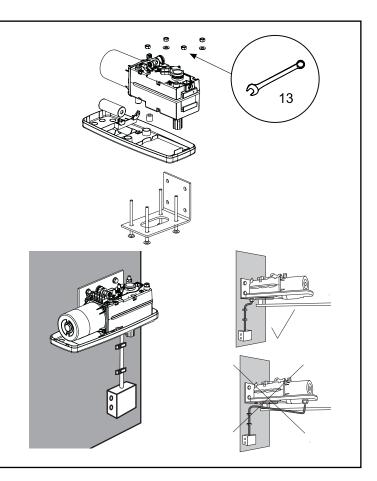


Mount operator and run cable the right way

Once the base plate has been mounted, the drive can then be fitted. The drives can be used left or right without requiring conversion. For the purposes of fitting the drive, the lock screws need to be reinserted and tightened up.



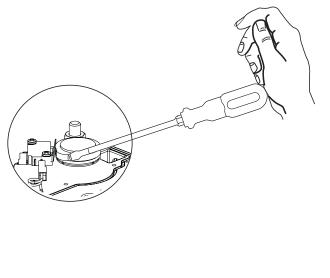
Several openings for the cable have been pre-punched in the base and need only be broken through, as required. The drive must be standing on a solid surface for the purposes of breaking the holes through to prevent the PVC base plate from breaking. A small, flat screwdriver should be used for breaking the holes through. For this purpose, tap on the screwdriver handle with the palm of the hand from the inside. Repeat this as necessary at several points on the pre-marked circle. The pre-punched area can then be easily removed and the strain relief supplied as standard fitted in its place.



SWITCHES, CAMS AND RIGHT ADJUSTMENT

There is a small switch operated by a cam under the operator's cover. The cam rotates simultaneously to the operator and pushes the switch temporarily. The cam can be adjusted (rotated). (Tight) Deinstallation is not required.

Use pliers or a big screwdriver to adjust (see picture).

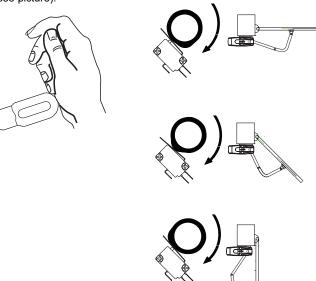


RIGHT ADJUSTMENT

Gate closed: Gate at approx. 45°: switch free switch fully pushed (cam operates

Gate open:

switch) switch free



90°

RELEASE/ MANUAL GATE OPERATION

The release lock for the casing is located under the rubber waterproof cover. Use the socket spanner supplied in the hardware bag to lift the cover up. The release key located beneath the hood should be inserted into the side openings and turned approx. 180 degrees until it cannot turn any further. The drive has now been released. To reengage it, the key should be turned back to its original position.

Take care when unlatching the drive for manual operation. The door leaf can move in an uncontrolled way, especially if it is defective and not properly balanced.

Before initial operation check if operator does not come in contact with the gate in the fully OPEN position.

TYPICAL CONFIGURATION OF A UNIT:

- 1. Motor
- 2. Control board
- 3. Photocell (active for closing), max. height 200 mm First photocell.
- 4. photocell (active for opening and closing), max. height 200 mm Second photocell (optional).
- 5. Flashing light (optional)
- Important visual information on the movement of the gate. 6. Key-operated switch or wireless keypad (optional)
- Is mounted on the outside. The gate is opened by key or by entering a number.
- 7. Contact strip (optional)

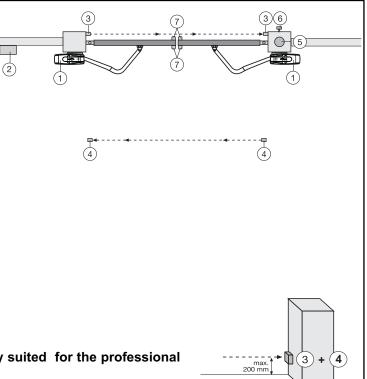
Safeguards the gate on being touched. Contact strips can be mounted on the gate or on the pillars. If required, contact strips must be mounted at a height of up to 2.5m.



The control board complies with the latest EU guidelines. One of these guidelines specifies that the

closing forces at the gate edge must not exceed 400 N (40 kg) for the last 500 mm before the door is CLOSED. Above 500 mm, the maximum force at the gate edge must not exceed 1400 N (140 kg). If this cannot be ensured, a contact strip must be mounted on the gate at a height up to 2.5 m or on the pillar on the opposite side (EN12453).

Note: The listed accessories on page 2 are especially suited for the professional installation of a gate system.



INSTALLATION OF CONTROL BOX

The control consists of several components which are fitted together and are screwed into the box. Precision is important. Complete the electrical installation (wiring, supply etc.) before turning your attention to this point.

1-2x*

1

1

1

1

1

1

5

17

Find the following parts in the control box:

- Remote control
- Exterior installation box
- Cover for box
- ControlTransformer
- Baseplate for transformer
- Radio receiver
- Radio module
- Cable bushing large
- Cable bushing small
- Flat washer
- Screws 3,5x 9,5 mm

* depending on model resp. available as optional accessory

PREPARING THE CONTROL BOX

Open the 4 pre-cut holes at the bottom of the casing with a screwdriver or a similar device.

Attach large cable bushing on the left then the rest as shown in picture.

Humidity and water destroy the control. All openings and cable bushings must be sealed against water (waterproof). The control box with the motor control is to be mounted with the cable bushings facing down.

RECOMMENDED PROCEDURE:

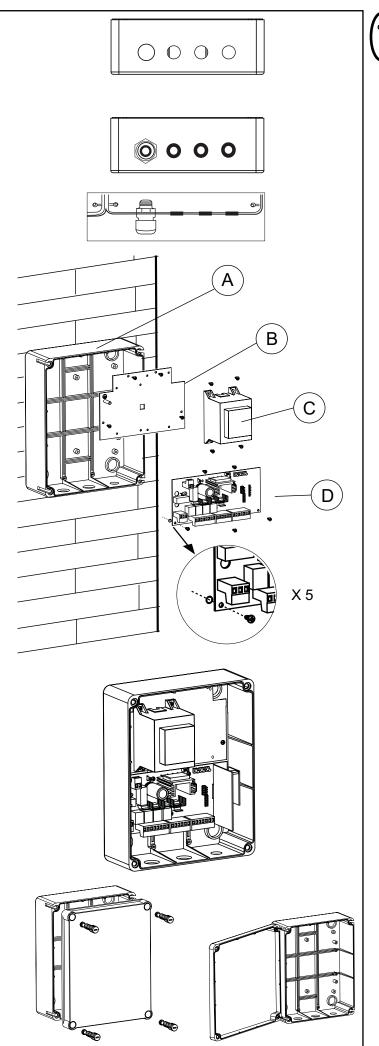
- A. Fasten control box of casing to wall, after previously measuring required distances and establishing correct position of drill-holes. (Hardware not included)
- B. Fasten baseplate for transformer in casing. (Screws 3.5 x 9.5mm)
- C. Fasten transformer on to baseplate; do this using 4 screws (Screws 3.5 x 9.5mm). On the right hand side of transformer there is sufficient space for a second transformer(Screws 3.5 x 9.5mm), which can control locking of a 12Volts E Lock. (accessories).

Attach short earthing cable (yellow/green) to the plate using a screw and a washer.

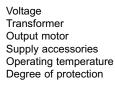
D. Attach logic board underneath baseplate; do this using 5 screws and fasten in the box at the marked positions. Before that pull all plug ins from their sockets. A small bag contains jumpers for the control. These might be needed later on individual settings in the controls' programming. (refer to JUMPERS)

Put the 4 large closure screws of the box through cover of the box. Fasten 2 of them (left or right) approx 2cm into the box. After that the cover may be opened to the side.

Close box on a trial basis turning the screws all the way in. If the lid does not close completely, then the box is not fitted to the wall evenly and is therefore distorted. This must be corrected. It is very important for the box to be waterproof once closed.



TECHNICAL DATA OF MOTOR CONTROL:

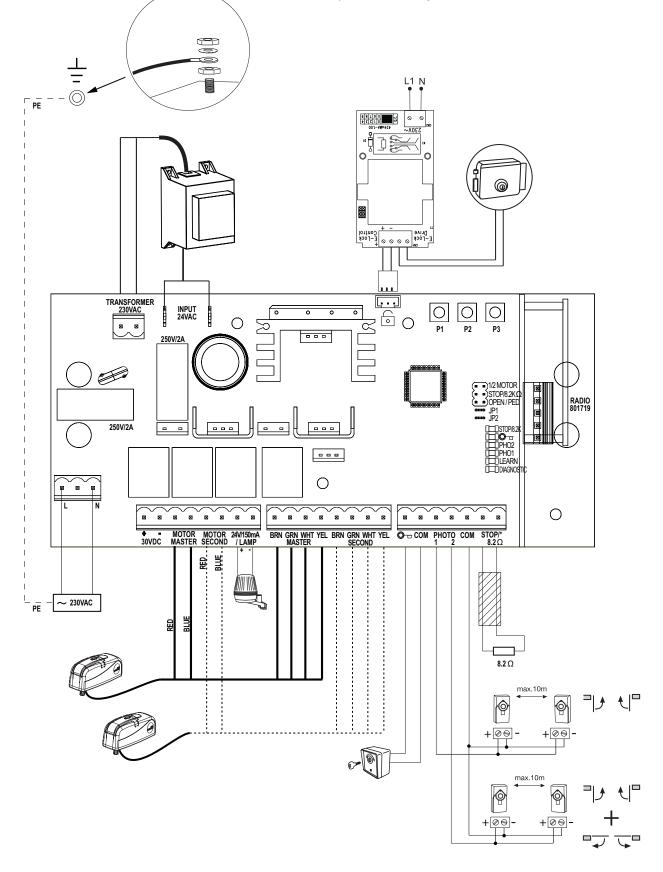


230VAC 230/24VAC minimum60VA 24VDC max. 24VDC - 100mA -20°C - +55°C IP54

WIRING OF CONTROL / SUMMARY

a) start with still dead 230Volts supply cable on the left side of the box.
b) Attach cable eye to ground wire. Then connect ground wire to base plate with washer and nut (exactly as shown in picture detail). Connect all other cables to control.

Attention:Check repeatedly that cable colours are connected correctly to motor. Otherwise motor might be damaged or will not operate properly. Pay special attention when using distribution boxes. We recommend the following accessories: LA400-JB40E Kit for cable extension of one installation unit. Consists of 12m of cable 6-pole with identical colours, distribution box IP65, cable screw joints and fastening material



	DESCRIPTION		FUNCTION		OF PUSH BU	ITTONS
	1		Connector L 230V supply			
	N		Connector N 230V supply	P1 button to prog	ram "simnle" mo	de
				P2 button to prog		
	Battery		Connector for a battery kit +/-	P3 button to prog		
	Бацегу		475E + 041ADBL-0115	P3 bullon to prog	ram rimer to ci	ose
			475E + 04 IADBL-0115			
				Description of L	ED's (light-emit	tting diode)
	Motor MASTER		motor 1 (master opens first)			
	Motor SECOND		motor 2 (Second opens second)	Description	Colour	Function
	24V/150mA		Flashing light (accessory)	STOP/8.2KOhms	green	monitors emergency switch
						or safety edge
	MASTER	Motor1				ON: blocks control board
	BRN		brown cable			OFF: OK
	GRN		green cable			
	WHT		white cable	"Key symbol"	red	key switch
	YEL		yellow cable			ON: key switch is operating
						OFF: key switch is not
	SECOND	Motor2				operating
	BRN		brown cable			1.1.1.5
	GRN		green cable	PHO2	red	Photocells 2
	WHT		white cable			ON: OK (active)
	YEL		vellow cable			OFF: no photocell fitted
						Of T. no photocell litted
	"Key symbol"		key switch	PHO1	red	Photocells 1
	COM		negative pole	FIIOT	ieu	
	00m		liegative pole			ON: OK (active)
	PHOTO1		Photocells 1			OFF: no photocell fitted
	PHOTO2		Photocells 2			
				LEARN	yellow	learn mode indication
	COM		negative pole			ON: learn mode active
						OFF: learn mode inactive
	STOP 8.2KOhms		connector for emergency switch or			
			safety edge with 8.2KOhms	DIAGNOSTIC	red	diagnosis mode
						Refer to FAQ's
	RADIO		connection for 801719 radio receiver			
	E-lock symbol		connection for E-lock control board			
	INPUT 24VAC		24V power input from transformer.			
			Can be connected with any polarity.			
	Transformer 230VA	AC	230V supply to transformer. Can be			ings when control bord
			connected with any polarity.	l lis disconne	cted. Othe	rwise modifications will
	250V/2A		Fuse 250V/2A (2x included)	not be acce	eptea!!!	
- 1						

en-8

PHOTOCELLS (OPTIONAL)

The photocells are for safeguarding the gate and must be used. The fitting location depends on the gate's design. EN12453 specifies that a pair of photocells must be installed at a height of 200 mm and activated to "Close". The photocells consist of a transmitter and a receiver and must be opposite each other. The photocell is mounted on the wall using small screws and wall plugs. To enable the "Automatic Closing" function, the Chamberlain failsafe photocell must be installed. The Chamberlain failsafe system (2-cable system) has small LEDs (light) that can be seen from the outside on both sides to indicate the status of the photocell.

Diagnosis at the Chamberlain failsafe photocell LED constant = OK

LED flashes = photocell disables control board LED off = no current, incorrect connection or polarity

Diagnosis on the control board

LED off = OK no photocell connected LED on constantly = OK

LED flashes = photocell disables control board

Connection between 1 & COM will give:

ignored when gate is opening, when closing if beam is blocked gate stops then reopens (does not matter when beam is unblocked).

Connection between 2 & COM will give:

when gate is opening block beam gate stops when you un-block beam gate caries on opening. When gate is closing block beam gate stops un-block beam gate reopens.

KEY SWITCH (OPTIONAL)

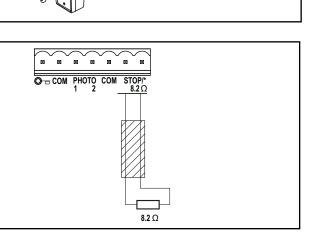
SAFETY EDGE (OPTIONAL)

Cable cross-section: 0.5 mm² or more.

The system can be operated by key switch. It is possible to operate only 1 wing or two wings. This depends on how the JUMPERS are used (connectors: key symbol and COM)

A safety edge working according to the 8.2 kilo ohm principle can be

connected to the control board, i.e. a 8.2 kilo ohm test resistor is attached to the end of the safety edge. It ensures that the electric circuit is monitored permanently. The control board is supplied with an 8.2 kilo ohm resistor installed. Several safety edges are



××

O- COM PHOTO COM

STOP/

00

+⊘⊖

O - COM PHOTO COM

E-LOCK (OPTIONAL)

connected in series.

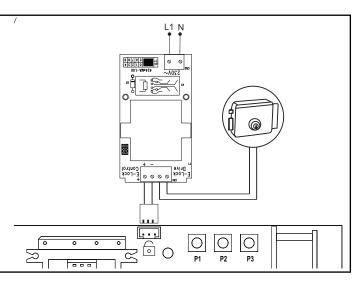
The control board allows the use of a 12V E-lock. (instructions included with E-lock).

A support board must be connected for the E-lock on the main board.

Attach support board next to the transformer on to the baseplate using screws.

Open its casing and make all necessary electrical wiring.

Plug support board in to where the E-lock symbol is depicted.



FLASHING LAMP (OPTIONAL)

A flashing lamp can be connected to the control board. It warns when the gate is being moved. The flashing light should be fitted as high as possible and in good clear view. The control board emits a constant signal that the lamp converts to a flashing signal. Cable cross-section: 0.5 mm² or more. Voltage: 24 V DC



There are two small cartons. One of the cartons contains the receiver, which stores remote control codes. The other one contains the radio module, which receives the radio signal.

- 1. connect the smaller radio module with the receiver Make sure all pins are properly engaged
- connect the receiver with the control board Antenna: The receiver includes a short antenna. It should not come in contact with any cable and should not be rolled up. It is possible to install an external antenna which enlarges the operating distance of the remote control (optional accessory).

PROGRAM / DELETE REMOTE CONTROLS

The receiver has two channels CH1 and CH2. Using the different channels enables the opening of one wing resp. both wings. For example, if CH1 receives the code from the remote control only one wing will open. Choosing a different button on the remote control in combination with CH2 will cause both wings to open.

In order to store a code press a previously selected button on the remote control while simultaneously pressing the learn-buttons CH1 or CH2 of the receiver. Repeat for all remote controls.

A maximum of 12 remote controls can be programmed to each channel.

Note: Make sure not to pogramm the same remote button to CH1 and CH2, otherwise the gate may work improperly. Redo programming if required.

DELETE

Press learn-buttons (CH1 or CH2) for approx. 10 seconds until LED goes out. All codes programmed to this channel are deleted.



1 / 2 Motor

1 or 2 motors are connected to the control board. FREE: both motors connected LINKED: only one motor connected

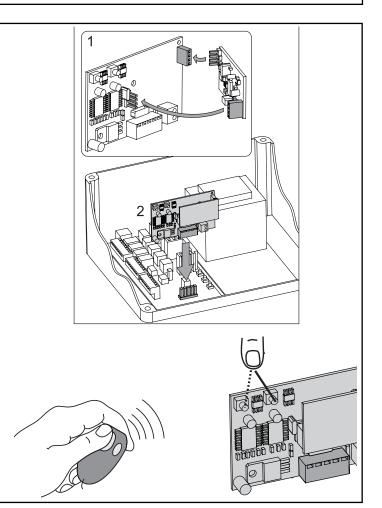
STOP / 8.2 KOhms

Defines if connector STOP / 8.2 KOhms is used for an emergency stop switch or for a safety edge. The emergency stop switch stops any movement of the system immediately. The safety edge causes the wings to reverse for one second.

- FREE: Factory setting is for 8.2 KOhms. In this case safety edge must be installed or a 8.2 KOhms resistor must be connected.
- LINKED: used for emergency stop switch, in this case the preinstalled resistor has to be removed from terminals and replaced by a suitable switch or terminals have to be bridged.

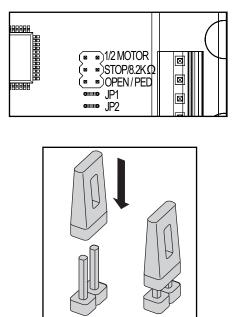
Open / Ped

Defines if key switch operates only one wing (Master) or both wings FREE: only one wing (Master) LINKED: both wings



8 8

MOTOR MOTOR MASTER SECOND



en-10

INITIAL OPERATION BASIC SETTING

Proceed step by step. If you are not sure, start again at the beginning. Take sufficient time to make these settings.

- 1. Are all components required for operation connected? Motors, photocells, safety contact strip, stop switch.
- 2. Make sure that nobody is present in the range of the gates.
- 3. Check/Adjustment/Correction of cams on both motors Gate closed: switch free Gate at approx. 45°: switch fully pushed (cam operates switch) Gate open: switch free (for adjustment refer to mechanical installation)

BASIC SETTING:

- 1. Press buttons P1, P2 and P3 simultaneously for approx. 2-3 seconds until yellow LED flashes.
- Monitor the gate. Press and hold P1 for 1-2 seconds. The wing with motor 1 opens. If motor 1 closes, it is wired incorrectly and the red and blue wires of the motor cable must be inverted. (Caution: Disconnect Power!) Repeat steps 1 and 2. Leave gate/s in partially open position.
- **NOTE:** General operation if you release the button, the gate will immediately stop. By pressing the button again the gate will move in the opposite direction until you release the button, and so on.

 Press and hold P2 for 1-2 seconds. The wing with motor 2 must open. (Do not open gate completely, only short distances.) If motor 2 closes, it is wired incorrectly and the red and blue wires of the motor cable must be inverted. (Caution: Disconnect Power!) Repeat steps 1 and 2. Leave gate/s in partially open position.

NOTE: The control board is active for this manual setting mode for approx. 20 seconds. If necessary, start again by pressing P1, P2 and P3 simultaneously.

Now check the following:

- 1. If both operators connected open both wings completely.
- 2. Both wings must open completely. Do not open the wings too far! A gate stop in OPEN position is required.

Caution: Gate must not come in contact with operator (i.e. when operator has been released for manual operation) Wait until learn-LED goes out (20 seconds after a button was pressed).

PROGRAMMING TRAVEL DISTANCES "SIMPLE I"

NOTE: only with stops in OPEN and CLOSE position

- 1. Wings must be closed
- Press P1 until wing / motor 1 starts opening (learn-LED flashes resp. glows) Automatic programming starts (slow travel) Wing 1 moves to the stop in OPEN position Wing 2 moves to the stop in OPEN position Then wing 2 moves to the stop in CLOSE position. Then wing 1 moves to the stop in CLOSE position. When the learn-LED goes out the programming has finished.

PROGRAMMING TRAVEL DISTANCES "ADVANCED"

NOTE: In this mode P1 must be pressed 9 times. With every time the button is pressed a position (time) is stored. (This allows programming of SOFT-STOP (slow travel) in order to adjust to application. Long or short phases of SOFT-STOP are possible.

- 1. Both wings must be closed.
- 2. Press P1 and P2 for approx.5-6 seconds until wing / motor 1 starts opening.Release buttons!!!
- 3. Press P1 again. SOFT-STOP for wing / motor 1 in OPEN direction starts at this point.
- 4. Press P1 again when OPEN position is reached.Now wing / motor 2 starts automatically to open.
- 5. Press P1 again. SOFT-STOP for wing / motor 2 in OPEN direction begins at this point.
- 6. Press P1 again when OPEN position is reached. Now wing / motor 2 starts closing automatically.
- 7. Press P1 again. SOFT-STOP for wing / motor 2 in CLOSE direction begins at this point.
- 8. Press P1 again when CLOSE position is reached. Now wing / motor 1 starts automatically to close.
- 9. Press P1 again. SOFT-STOP for wing / motor 1 in CLOSE direction begins at this point.
- 10. Press P1 again when CLOSE position is reached.
 - Done!

NOTE: If one wing reaches a stop and button P1 is not pressed, then the motor moves towards the stop and stores this position automatically.

COMPLETION OF INSTALLATION / PROGRAMMING

Once the travel distances are programmed, the remote controls can be programmed as well. (Refer to PROGRAMM / DELETE REMOTE CONTROLS).

- 1. Operate the gate with a remote control or with a connected switch and monitor the direction. Close the gate again WITHOUT any interuptions.
- 2. If all adjustments are done, check operation of photocells, switch, flashing light, remotes, accessories, etc.
- 3. Advise people using the gate with regard to gate operation, safety functions and how to release the gate in order to operate it manually.

TIMER TO CLOSE

NOTE: Only possible with connected photocells (1 + COM). Time frames from 2 seconds up to 120 seconds are possible.

Activate:

- 1. Press and hold P2 until yellow LED starts flashing
- 2. Now count the time you wish to program
- 3. Press P2 again. Done!

Deactivate:

- 1. Press and hold P2 until yellow LED starts flashing.
- 2. Press P3. Yellow LED goes out. Done!

TORQUE OF MOTOR

Thrust of the motor is set automatically while programming the travel distance. Thrust can only be modified by programming the travel distance again. If gate movement is impeded by weather or changes to the installation (rust or inappropriate lubrication) it may have to be repaired. The control board complies with the latest EU guidelines. One of these guidelines specifies that the closing forces at the gate edge must not exceed 400 N (40 kg) for the last 500 mm before the door is CLOSED. Above 500 mm, the maximum force at the gate edge must not exceed 1400 N (140 kg). If this cannot be ensured, a contact strip must be mounted on the gate at a height up to 2.5 m or on the pillar on the opposite side (EN12453).

INDICATION OF THE DIAGNOSIS LED

Indication	Description	Remedy
1x blinking	Motor 1 has insufficient connection to control board	Green or white cable not wired or badly connected Check terminals precisely. Consider wire lengths
2x blinking	Motor 2 has insufficient connection to control board	Refer to 1x blinking
3x blinking	Limits for motor 2 have not been accepted A: After or during first travel: operator did not open open wide enough to meet not meet passpoint (cam did not operate switch)	A: Open gate wide enough when programming the travel. Make sure cam passes all 3 states (switch free, pushed, free) B: Check terminals precisely. Consider wire lengths
B: Motorcables h	ave insufficient connection to contol board Yellow or white cable not wired or badly connected	
4x blinking	Limits for motor 1 have not been accepted	Refer to 3x blinking
5x blinking	Travel has not been programmed The process of programming has been interrupted	Repeat programming travel
6x blinking	Force to operate the gate is too high A: Gate is out of order B: Gate is rough-running C: Gate stopped through windload	A: Repair gate B: Check if gate can be easily moved C: Do not operate gate by windstorm D: Reprogram travel to achieve sufficient level of fo
7x blinking	Photocells 1 block installation A: Object blocks photocells B: Alignment of the lenses is incorrect C: Power supply to photocells is insufficient	A: Remove object B: Check alignment C: Check cable widths and contacts
8x blinking	Photocells 2 block installation	Refer to 7x blinking
9x blinking	Emergency stop switch blocks installation	A: Check wiring B: Check basic setting of control board (Jumpers)
10xblinking	Safety edge blocks installation A: Object obstructs safety edge B: Defective safety edge C: Power too low or broken wire in supply	A: Remove object B: Check wiring. Check resistor 8.2KOhms C: Check basic setting of control board (Jumpers)
11xblinking	Power supply to control board is too low A: Defective supply 230V or malfunctioning contact B: Broken wire in supply cable (copper cable) C: The battery (accessory) to operate the gate whilst power failure is dead.	A: Check electric contact B: Check by electrician C: Allow battery to charge 24 hours
12xblinking	EEPROM Fault Power up failed	Replace contol board

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FAQs

The gate opener doesn't respond at all; no LED is on.	Possibly power failure.	 Check conductor and zero conductor. Check house fusing. 	
Immediately after the gate has started moving, it stops and reverses.	Obstacle in area of gate.	Check area of gate for objects If there is no obstacle, make another initial operation to ensure the force will be learned again.	
The gate opener does not open the gate fully.	 Are the post dimensions A+B correct? Has the travel of the controller been set correctly? 	 Check A+B dimensions. Reprogram if required 	
Gate can only be opened	1.photocell blocks	1.Function and connection must be checked	
"Timer to close" doesn't work.		 Only works if the 2-cable photocell 770E(ML) or 771E(ML) has been installed. 	
The control board does not work any more using the transmitter, only with the switch and even then only as long as a button is pressed and kept pressed.	A safety photocell, a contact strip or the stop disables the control board Only one photocell was connected for OPEN	At least one photocell must be connected and activated for CLOSED or OPEN.	
The gate opener doesn't respond at all, although the controller has been connected (LEDs are on).	 Remote control has not been programmed. LEDs indicate a fault. Photocell connected incorrectly. Motor terminal possibly not connected properly. 	 Programming remote control. Find and rectify fault(s) (see description of LEDs). Check photocell connection / programming. Check terminals and connections. 	
Control board does not work with transmitter	1.transmitter not programmed 2.An photocell blocks	1.Program transmitter 2.Check photocells	
The control board is not running	No travel has been learned	Learn travel. See Initial operation	
The wings do not open completely.	1.Insufficient force in the event of high wind loads (entire gates) 2.Gate sluggish/heavy	1.Reset force (increase) 2.Improve ease of movement 3.Program control board again	
The remote control's range is too short.	The installation of an external aerial is recommended as the controller with the short cable aerial is located either behind the post or near ground level in most cases. The optimum location of the aerial is as high as possible in all cases. An appropriate aerial with installation kit can be obtained from Chamberlain as an accessory with the product ref. no. ANT4X-1LM.		
The gate must follow a slope.	Not recommended! Change gate! The gate can move in an uncontrolled (dangerous) manner if the gate opener has been released. A stronger force is needed in the upwards direction of the slope and then, in the opposite direction, the gate opener's force is too strong.		
The gate post is so thick that I am unable to	Reduce post thickness or shift gate location.		

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comply with the requisite A+B dimensions.