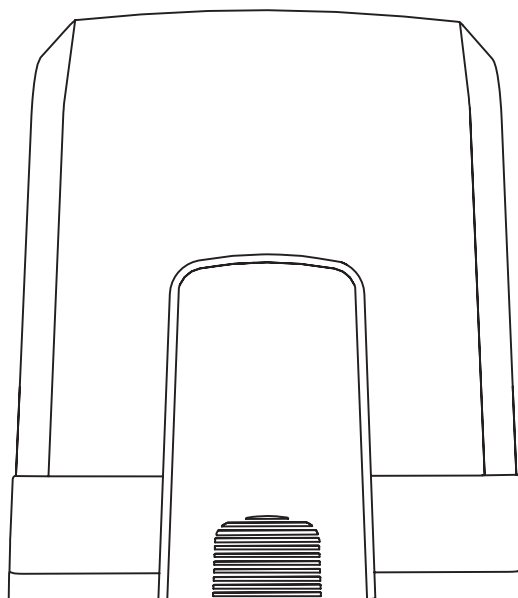


LiftMaster®

SL400EVK / SL600EVK / SL1000EVK



en

Sliding Gate Operator Installation Manual*

fr

Manuel d'installation de l'opérateur de portail coulissant

nl

Installatiehandleiding schuifhekaandrijving

de

Installationshandbuch für Schiebetorantriebe

pl

Instrukcja instalacji operatora bramy przesuwnej

cs

Návod k instalaci pohonu posuvné brány

sk

Návod na inštaláciu pohonu posuvnej brány

sl

Priročnik za namestitev upravljalnika drsnih vrat

hu

Csúszókapu kezelő telepítési kézikönyve

* For GB (UK, NI) specific information on national regulations and requirements see English part of the manual.

TABLE OF CONTENTS

NOTE: The original installation and operating instructions were compiled in English. Any other available language is a translation of the original English version.

1. SAFETY INSTRUCTIONS AND INTENDED USE.....	2
2. DELIVERY SCOPE.....	4
3. TOOLS NEEDED.....	4
4. OVERVIEW OF GATE OPERATOR.....	4
5. MECHANICAL INSTALLATION.....	5
5.1 Dimensions of Gate and Operator.....	5
5.2 Installing Base Plate.....	5
5.3 Emergency Release Mechanism.....	5
5.4 Installing Motor on the Base Plate.....	6
5.5 Gate Rack Mounting.....	6
5.6 Power Wiring.....	6
5.7 Limit Switch Position Set Up.....	6
5.8 Access to the control Board and Motor connection.....	7
6. WIRING DIAGRAM.....	8
7. PROGRAMMING.....	9
7.1 Display, Programming Buttons and Function Setting.....	9
7.2 General Programming Overview.....	9
7.3 Wing Movement Direction.....	10
7.4 Basic Settings.....	10
7.4.1 Application Settings.....	10
7.4.2 Direction Motor Settings.....	10
7.4.3 Limit Learning.....	10
7.5 Stand-by Mode.....	11
7.6 Programming and Erasing of Remote Controls, Radio Accessories and myQ Devices.....	12
7.7 Advanced Settings.....	13
7.7.1 Overview Advanced Settings.....	13
7.7.2 Transmitter Settings.....	13
7.7.3 Infrared Photocells Settings.....	13
7.7.4 Input Settings.....	13
7.7.5 Partial Opening.....	14
7.7.6 Timer To Close.....	14
7.7.7 Reversal Time after Impact.....	14
7.7.8 E-Lock / Mag-Lock Settings.....	14
7.7.9 Flashing Light Settings.....	14
7.7.9a Pre-Flashing.....	14
7.7.10 Special Contact Settings.....	14
7.7.11 Start Speed in Open and Close Directions.....	15
7.7.12 Maintenance Counter.....	15
7.7.13 Password Protected Functions and Setup.....	15
7.7.13a Password Setup.....	15
7.7.13b Password Use.....	15
7.7.13c Password Change.....	16
7.7.13d Force Motors Open and Close Directions.....	16
7.7.13e Speed Motors in Open and Close Directions.....	16
7.7.13f Soft-Stop Speed.....	16
7.8 Factory Default Settings.....	16
7.9 Finish and Exit.....	16
7.10 Double Gate Application.....	16
8. BATTERY BACKUP.....	17
9. ERROR CODES.....	17
10. TECHNICAL DATA.....	18
11. MAINTENANCE.....	19
12. DISPOSAL.....	19
13. WARRANTY.....	19
14. DECLARATION OF CONFORMITY.....	19

1. SAFETY INSTRUCTIONS AND INTENDED USE

About this Manual – Original Manual

These instructions are the original operating instructions according the machinery directive 2006/42 EC. The instruction manual must be read carefully to understand important product information. Pay attention to the safety and warning notices. Keep the manual in safe place for future reference and to make it available to all persons for inspection, service, maintenance and repair. After installation pass the complete documentation to the responsible person/owner.

Qualification of a competent installer

Only correct installation and maintenance by a competent installer (specialist) / competent company, in accordance with the instructions, must understand and ensure the safe and intended function of the installation. Specialist is, who on the basis of their technical training and experience, has sufficient knowledge in the field of powered gates and moreover is familiar with relevant state occupational safety regulations and generally accepted rules of technology in such an extent that he is also able to assess the safe working condition of powered gates according to EN 13241, 12604, 12453 (EN12635)

The installer must understand the following:

Before installing the drive, check that the driven part is in good mechanical condition, opens and closes properly and correctly balanced where applicable.




Before first use and at least annually a specialist must inspect powered gate regarding their safe condition. After installation, the installer must ensure that the mechanism is properly adjusted and that the protection system and any manual release function correctly (EU: EN 13241, EN12604, EN 12453, EN 12635; GB (UK, NI) BS EN 13241, BS EN12604, BS EN 12453, BS EN12635). A regular maintenance, inspection must be carried out according to the standards. The installer must instruct other users on the safe operation of the drive system.

After successful installation of the drive system, the responsible installer, in accordance with the EU: Machinery Directive 2006/42/EC; GB (UK, NI): Supply of Machinery (Safety) Regulations 2008 SI 2008 No. 1597, must issue the EU: CE / GB (UK,NI): UK declaration of conformity for the gate system. The EU: CE / GB (UK,NI): UKCA mark label must be attached to the gate system. This is also obligatory in the process of retrofitting on a manually operated gate. Further, a handover pack and an inspection book must be completed.

Please read the operating instructions and especially the precautions. The following symbols are placed in front of instructions to avoid personal injury or damage to property. Read these instructions carefully.

Warnings Symbols

The general warning symbol indicates a danger that can lead to injuries or death. In the text section, the general warning symbols are used as described below.

DANGER Symbol	WARNING Symbol	CAUTION Symbol	ATTENTION Symbol
 DANGER	 WARNING	 CAUTION	ATTENTION
Indicates a danger that leads directly to death or serious injuries.	Indicates a danger that can lead to death or serious injuries.	Indicates a danger that can lead to damage or destruction of the product.	Indicates a danger that can lead to damage or destruction of the product.

Intended use

The sliding gate operator is exclusively designed and tested for the operation of smooth-running sliding gates in the residential, non-commercial sector.

Specification for gates are defined under mechanical requirements according EU: EN12604 / GB (UK, NI): BS EN 12604.

The maximum permissible gate size and the maximum weight must not be exceeded. The gate must open and close smoothly by hand. Use the operator on gates which comply with the applicable standards and guidelines. Regional conditions of wind loads must be taken into account when using door or gate panels EU: EN13241 / GB (UK, NI): BS EN 13241. Observe the manufacturer's specifications regarding the combination of door and operator. Possible hazards within the meaning of EU: EN13241 / GB (UK, NI): BS EN 13241 are to be avoided by designing and installing the door/gate according to the relevant instructions. This gate mechanism must be installed and operated in accordance with the appropriate safety rules.

Improper use

It is not intended for continuous operation and use in a commercial application.

The construction of the drive system is not designed for the operation of gates outside of manufacturers specification.

It is not permitted on gates that travel with incline/decline.

Any improper use of the drive system could increase the risk of accidents. The manufacturer assumes no liability for such usage. With this drive, automated gates must comply with the current, valid international and country-specific/local standards, guidelines and regulations (EU: EN 13241, EN12604, EN 12453; GB (UK, NI) BS EN 13241, BS EN12604, BS EN 12453).

Only LiftMaster and approved accessories may be connected to the drive. Incorrect installation and/or failure to comply with the following instructions may result in serious personal injury or damage to property.

Gate systems located in public areas and have only force limitation, can only be operated under full supervision.

Additional safety devices should be considered in accordance with EU: EN 12453; GB (UK, NI) BS EN 12453.

1. SAFETY INSTRUCTIONS AND INTENDED USE

During operation, the gate should not under any circumstances obstruct public path ways and roads (public area).

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.

To avoid serious personal injury due to entrapments, remove any locking device fitted to the gate in order to prevent damage to the gate.

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

Disconnect electric power to the system before installation, maintenance, repairs or removing covers. A disconnecting device must be provided to the mains power supply (permanently-wired installation) to guarantee all-pole disconnection (isolating switch or by a separate fuse). The repairs and electrical installations may be performed only by an authorised electrician. Emergency Stop Button must be installed for emergency case based on the risk assessment.

Ensure that entrapment between the driven part and the surrounding fixed parts due to the opening movement of the driven part is avoided by respecting the given safety distances in accordance with the EU: EN 13241, EN12604, EN 12453, EN 12635; GB (UK, NI) BS EN 13241, BS EN12604, BS EN 12453, BS EN12635 and/or with safety devices (e.g. safety edge).

Testing of the safety function of the drive system is recommended to be carried out at least once a month. Refer also to manufacturers instruction of the gate system components.

After the installation a final test of the full function of the system and the of the safety devices must be made and all users must be instructed in the function and operation of the sliding gate operator.

Gate systems must meet the force limitation according EU: EN 12453, EN 60335-2-103; GB (UK, NI) BS EN 12453, BS EN 60335-2-103.

Additional safety device (safety edge,.) must be considered in accordance to the standard by changes to the system.

It is important to make sure that the gate always runs smoothly. Gates which stick or jam must be repaired immediately. Employ a qualified technician to repair the gate, never attempt to repair it yourself. This device is not intended for use by persons (including children) with restricted physical, sensory or mental abilities or lack of experience or knowledge, unless they are supervised by a person responsible for their safety or have received instruction in how to use the device. If necessary, control equipment MUST be mounted within sight of the gate and out of reach of children. Children should be supervised to ensure that they do not play with the device. Do not allow children to operate push button(s) or remote(s). Misuse of the gate operator system can result in serious injury.

The warning signs should be placed in clearly visible locations.

The gate opener should ONLY be used if the user can see the entire gate area and is assured that it is free of obstacles and the gate operator is set correctly. No one may pass through the gate area while it is moving. Children must not be allowed to play in the vicinity of the gate.

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

There may be existing hazards on mechanical, electrical installation or the closing edges of the gate by crushing, impact points:

- Structural failure, leaf, hinges, fixings, travel stops, wind load
- Crush, hinge area, under the gate, safety distance on fixed object
- Electrical failure (Control – faults in safety systems)
- Impact, swept area, hold to run, force limitation, presence detection

Appropriate measures must be taken to ensure safe operation of the gate system according the standards.

Never start up a damaged drive.

Use the manual release only to disengage the drive and – if possible – ONLY when is gate closed. Operation of the emergency manual release can lead to uncontrolled movements of the gate. The Timer-to-Close (TTC) feature, the myQ Smartphone Control app, are examples of unattended operation of the gate.

Any device or feature that allows the gate to close without being in the line of sight of the gate is considered as unattended open/close.

The Timer-to-Close (TTC) feature, the myQ Smartphone Control, and any other myQ devices can ONLY be activated when Liftmasters photo cells are installed (TTC works only in close direction). The gate shall only be operated in the direct sight line to the gate.

IMPORTANT INFORMATION!

- This procedure is also required on private installations (new or retrofitted to a manually operated gate).
This installation and operating manual must be retained by the user.
- The manufacturer accepts no liability/warranty claims resulting from use other than intended use and after the warranty expires.
- The legal remedy is the sole responsibility for all associated rights.

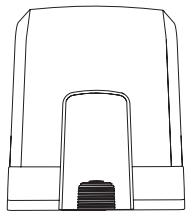
NOTE: Observe the installation and operating manual.

- Always monitor the function of the system and rectify the cause immediately in the event of a malfunction.
- Carry out an annual inspection of the system. Call a specialist.
- Safety distances must be respected between the gate leaf and the environment in accordance with related standards.
- The operator can be installed Only on stable and rigid gate leaves. Gate leaves must not bend or twist when opening and closing.
- Assure that the hinges of the gate leaf are installed and working correctly and not creating any obstacles.
- Installation of two operators on same door leaf is strictly prohibited.
- Observe the corresponding requirements of the local, national regulations for compliance with the measures to protect human health, which must be observed when contacting other people, including employees, suppliers and customers (e.g. safety distance, mask requirement, etc).
- Precise information can be requested from the local authorities.

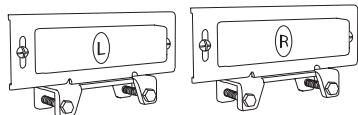
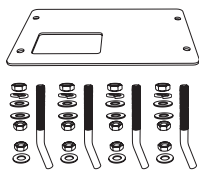


2. DELIVERY SCOPE

SL400EVK / SL600EVK / SL1000EVK



Motor unit with control board



Remote Control (2x)

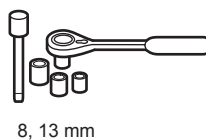
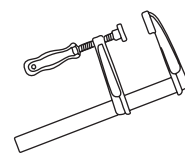
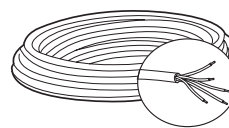
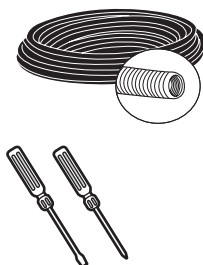
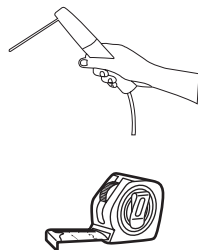
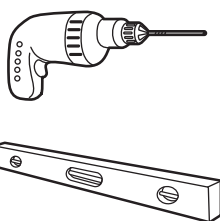
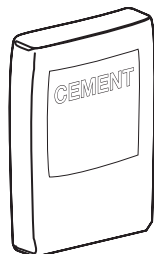


Release Key (2x)

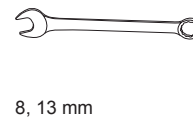


Installation Manual

3. TOOLS NEEDED

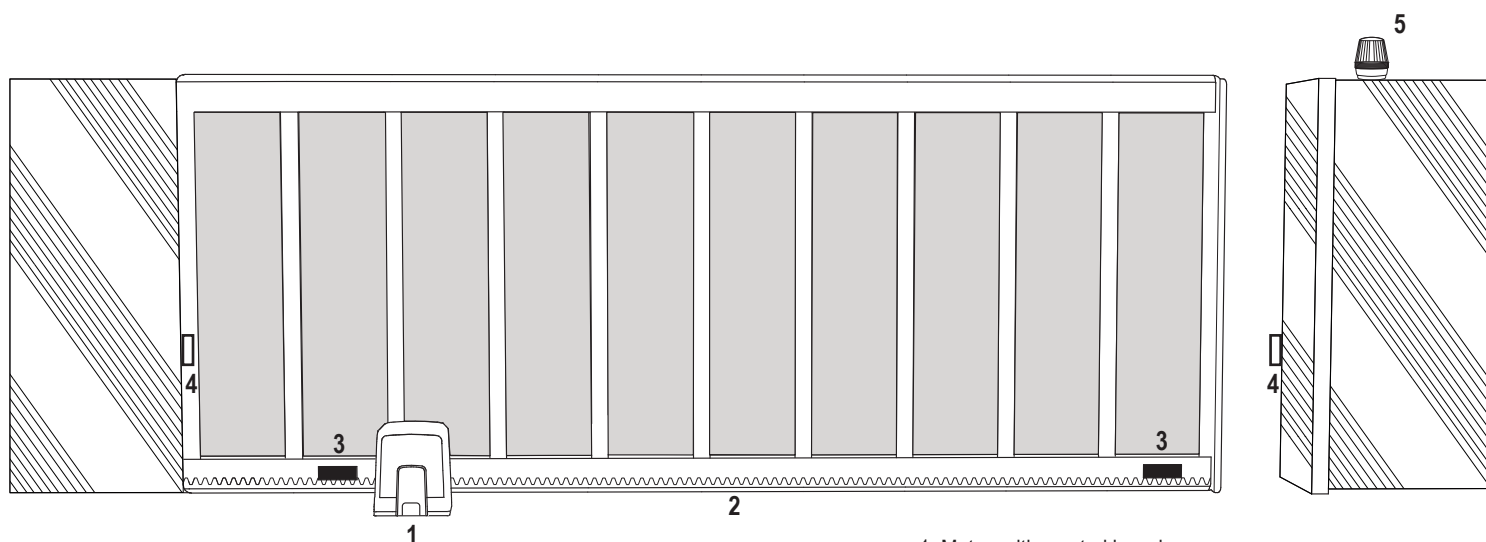


8, 13 mm



8, 13 mm

4. OVERVIEW OF GATE OPERATOR



1. Motor with control board
2. Rack
3. Magnet brackets
4. Infrared photocells
5. Flashing lamp

5. MECHANICAL INSTALLATION

Herewith you start mechanical installation of the gate operator.

5.1 Dimensions of Gate and Operator

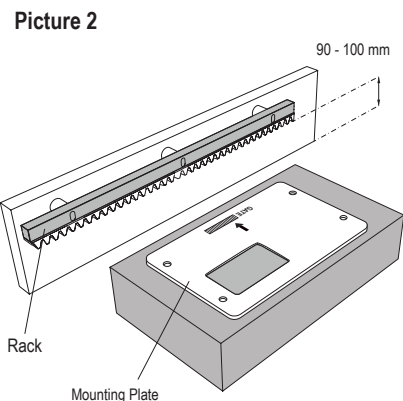
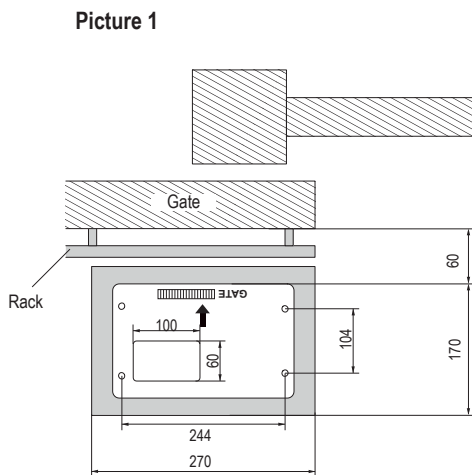
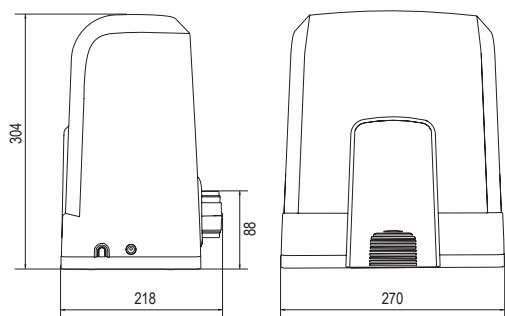
SL400EVK, SL600EVK, SL1000EVK

General information and conditions for set-up.

Before installing the gate operator ensure that the gate is running smoothly. The weight of the door is not allowed to be completely placed on the motor shaft. Ensure that all the required cables (power cable, accessory cables etc) are prepared and laid correctly before the base plate is installed in the concrete.

NOTE:

All crushing points must be secured by an entrapment protection according to EU: EN 12453, EN 60335-2-103; GB (UK, NI): BS EN 12453, BS EN 60335-2-103.



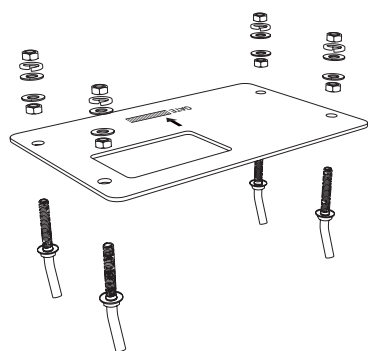
SL400EVK	5 m	400 kg
SL600EVK	8 m	600 kg
SL1000EVK	12 m	1000 kg

5.2 Installing Base Plate

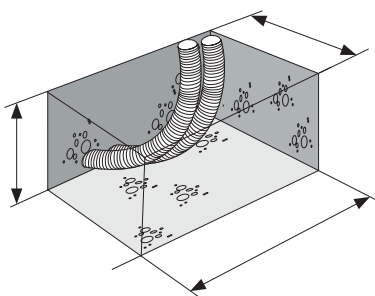
1. Take the anchor screw and put one nut until the bottom of the tread. Add a washer and insert it from the bottom into base plate. Secure from top with a second nut.
2. Repeat for remaining 3 anchor screws (see picture 3).
3. Get the prepared cables (see picture 4) through the hole in the base plate.
4. Set the base plate into prepared concrete work. Ensure the plate is positioned correctly to the gate respecting the required space to gate and rack (see picture 1). The arrow on the base plate needs to show towards gate. Align the base plate and finalise the concrete work.
5. Let the concrete base dry for at least 24h before proceeding (see picture 5).

NOTE: When installing a base plate ensure that later operator mounting and position adjustment with the setting screws is still possible at later stages if required.

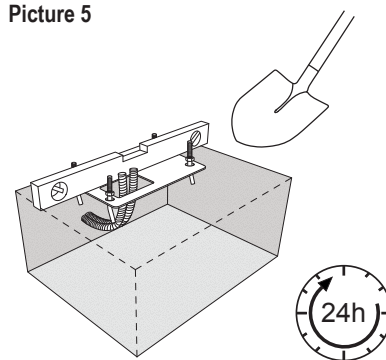
Picture 3



Picture 4



Picture 5

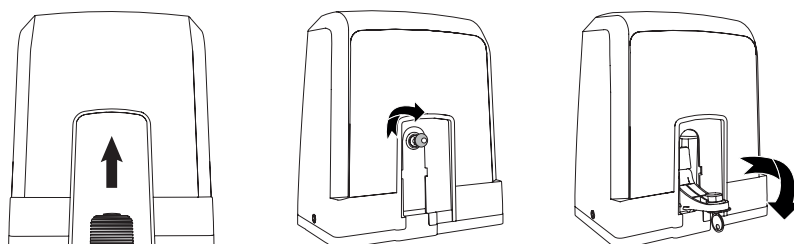


5.3 Emergency Release Mechanism

- Remove the small front plastic cover from the operator.
- Put the key into keyhole and turn it right 90°.
- Pull the lever down.

To re-engage the operator follow the procedure backwards.

Picture 6

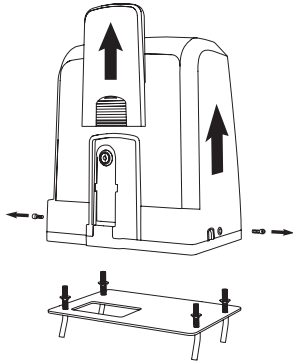


5. MECHANICAL INSTALLATION

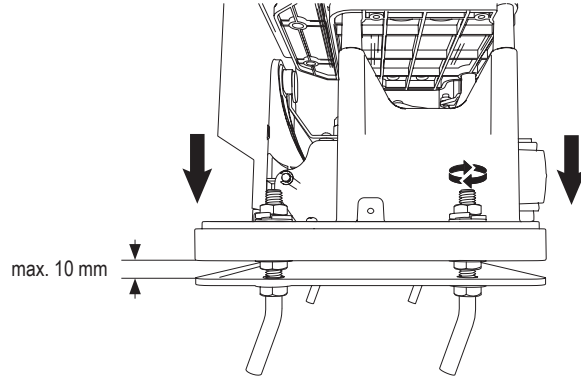
5.4 Installing Motor on the Base Plate

1. Once the base plate is fixed, raise the nut securing the base plate from the top about 5-10 mm and add a washer.
2. Remove the small front plastic cover from the operator and make a manual release by putting the key into keyhole, turning right and pulling the lever down (see manual release page 5).
3. Remove the 2 screws on the sides of the cover (see picture 7).
4. Remove the Operator cover and put the operator on the base plate using the anchor screws and hole in the operator housing. Note: there must be distance between the base plate and the operator housing (5-10 mm) for later height adjustments possibilities (see picture 8).
5. Feed the cables through the respective hole in the operator housing bottom.
6. Secure the operator using washer, spring washer and the nut as shown in picture 8.

Picture 7



Picture 8



5.5 Gate Rack Mounting

1. Manually move the gate into CLOSED position.
2. The steel or nylon rack can be attached by welding (steel only) or with screws (see picture 9). Put the first rack segment at the end of the gate so that it connects to the operator sprocket as shown in the picture 10 and attach the rack to the gate. Then move the gate and attach the next rack segment near to the previous segment. Proceed this way until you will reach complete OPEN position.

NOTE: At all times consider that the rack does not completely lie on the operator sprocket or has too much distance to it.

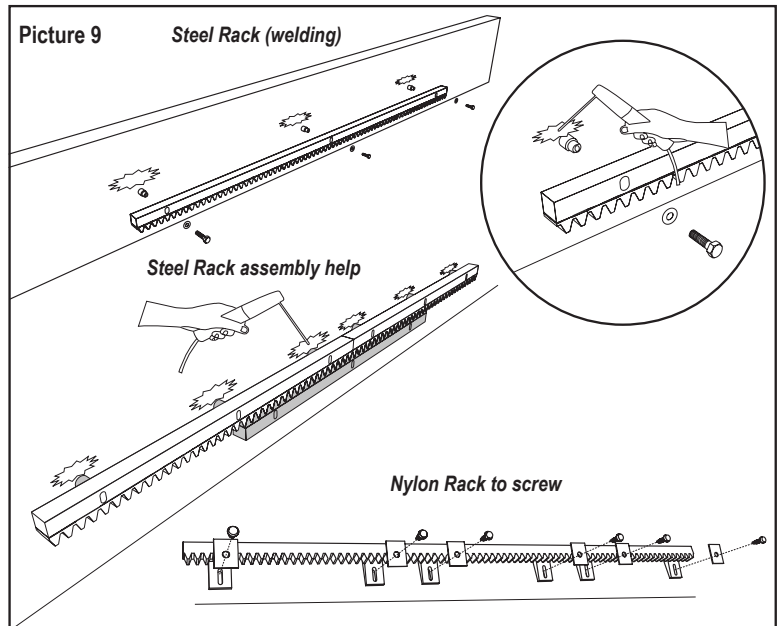
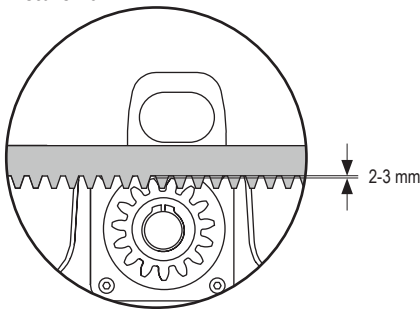
Before assembly:

- Check whether the required screw-in depth available.
- Use the supplied connecting elements (screws) to assemble the racks.
- Attach the rack segment at the right position by using the delivered screws.

NOTE:

The material type and thickness at the mounting position of the rack must be considered. The operator must be disengaged.

Picture 10

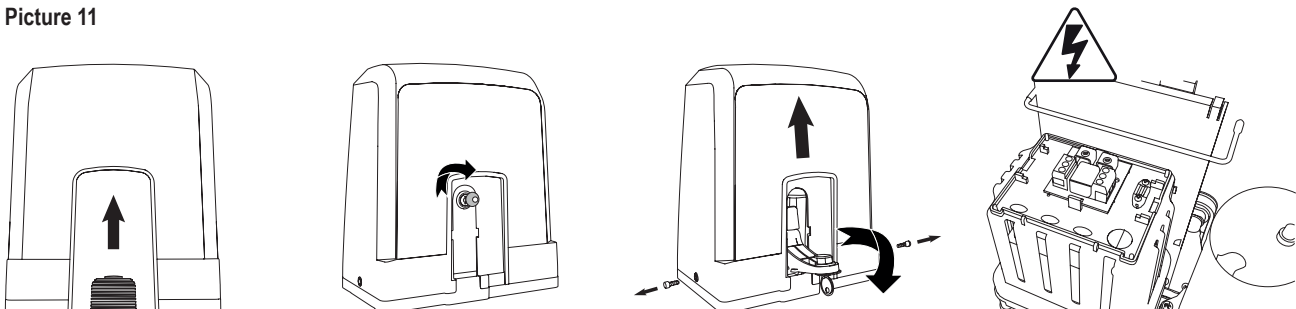


5.6 Power Wiring

Mains power wiring must be done by a certified electrician specialist.
To connect the mains power supply please remove the operator cover as described above.



Picture 11



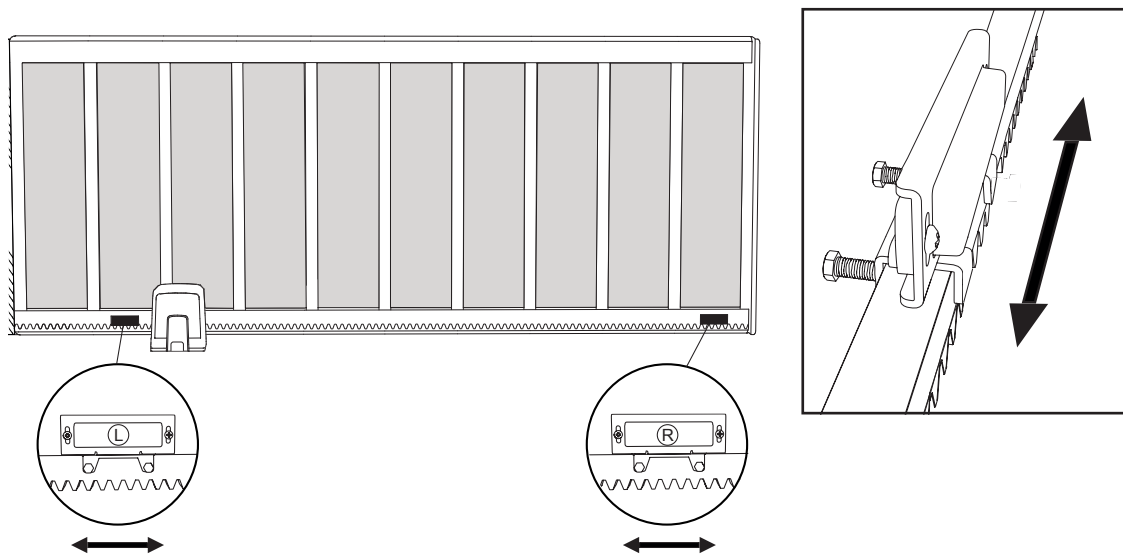
5. MECHANICAL INSTALLATION

5.7 Limit Switch Position Set Up

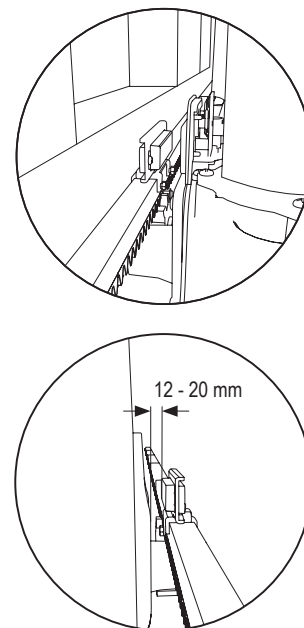
1. Ensure the operator is powered.
2. Position the brackets with magnets on the left and right ends of the rack where the end positions are assumed. The magnets are marked with L for left side and R for right side and shall be positioned on the right or on the left from operator (see picture 12). The bracket positions can be adjusted by sliding the bracket alongside the rack.
3. With the manually released operator move the gate in OPEN direction to reach the magnet fixed on the racks. Ensure dimension between magnet and limit switch are maintained (see picture 13).
4. When reached, section of the upper right digital segment on display will be on.
5. If needed, adjust the position of the magnet, verify that the upper right digital will be on and fix the screws of the magnet bracket.
6. Repeat the same in CLOSE direction to reach the magnet fixed at the Close position on the opposite side of the gate.
7. When reached, section of the lower right digital on display will be on.
8. If needed, adjust the position of the magnet, verify that the lower right digital will be on and fix the screws of the magnet bracket.
9. Move the gate in in the middle position (between open and close limit).

The operator is ready for the Learning phase.

Picture 12



Picture 13

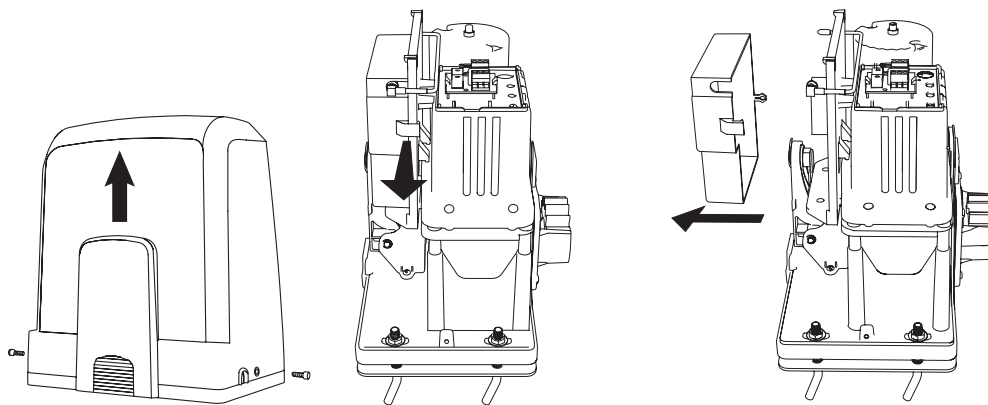


5.8 Access to the control Board and Motor connection

- The control board is already pre-installed and pre-wired to the motor terminal. No extra action is required.

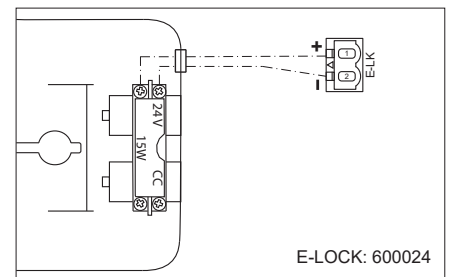
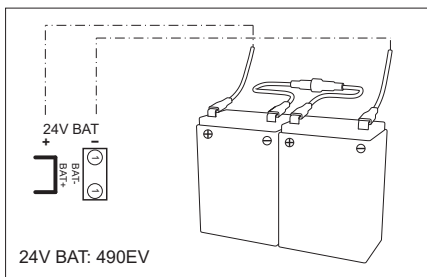
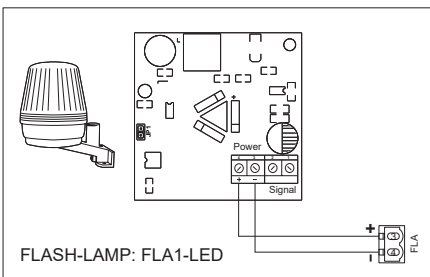
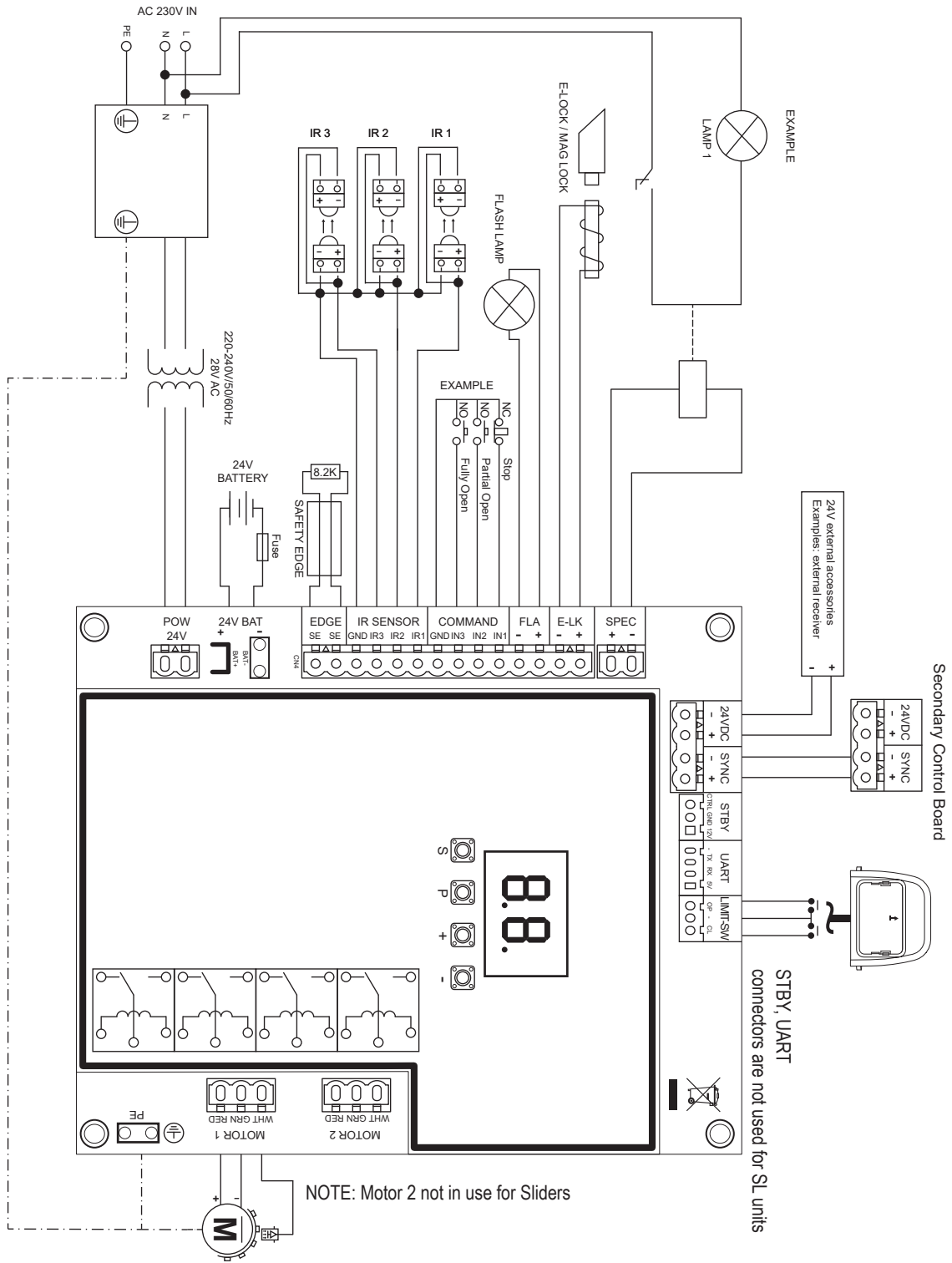
To gain access to the control board remove the operator cover. The terminals for wiring accessories are directly accessible. To get access to the programming buttons remove the transparent plastic cover and place it back once programming is finished.

Picture 14



Congratulations! Herewith the mechanical installation of your gate operator is finished. Please proceed with Programming and Basic Settings to be able to start operation.

6. WIRING DIAGRAM



7. PROGRAMMING

7.1 Display, Programming Buttons and Function Setting

Programming buttons function (4 buttons):

Button	Function
S	program / delete remote controls and specific functions
P	enter programming mode, select function and save
+/-	Navigate through the menu and change the value on display

Function and programmed values are shown on LED display.

Function setting - programming mode

LED display shows following values after control board is powered:

--	Control board is pre-programmed to relevant application (see below under "Application" and "Stand-by Mode" for status description).
E0	"E0", in case the control board has not been programmed yet or reset by function "Factory Default". From this status, an Input or transmitter command will be always ignored.

7.2 General Programming Overview

Herewith you start programming of your gate operator.

The programming is divided in 2 sections:

1. Basic Settings (Page 11)
2. Advanced Settings (Page 14)

After Basic Settings are done, following parameters will be learned automatically during Learning phase:

1. Travel length from **FULL CLOSED** to **FULL OPEN** position.
2. Opening and closing force for each motor.

NOTE:

- Basic Settings and Learning phase must be completed to enable operation.
- After the Learning phase and Programming are finished the operator will work as per default settings.
- Advanced Settings cannot be accessed if Basic Settings and Learning phase are not completed.
- **Before making the programming ensure that the relevant safety devices are connected.**

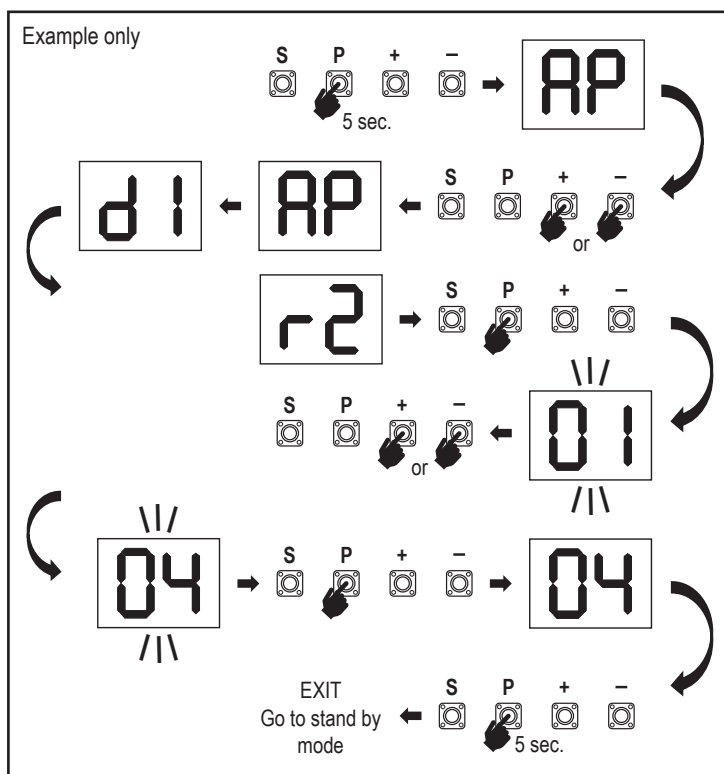
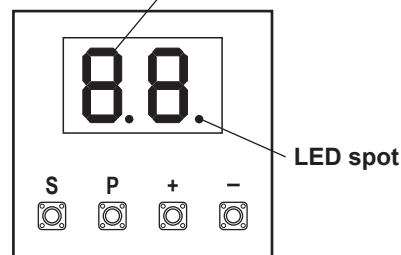
General setup:

1. Press and hold "P" button for 5 seconds to enter the menu. "AP" on the display indicates the first available function in menu.
2. Use "+" and "-" buttons to navigate between the functions.
3. Press "P" button to select the required function.
4. The default setting or previously programmed value will appear. This will be indicated by flashing of value on display.
5. Use "+" or "-" buttons to select the required value. Press "P" button to confirm selection.
6. The programmed function is shown on display.
7. To change the setting of another function, repeat the sequence from the points #2 to #6
8. To exit to the Function menu, press "P" button for 5 seconds, then the board will go in Stand-by mode.

If "P" button is not pressed to confirm new value setting, new settings will be saved after 3 minutes and programming will exit menu and return into Stand-by mode.

NOTE: To operate the gate or execute any command, setting menu must be finished by pressing the "P" button for 5 seconds, or by selecting FE Function, or waiting 3 minutes for automatic exit and return into Stand-by mode.

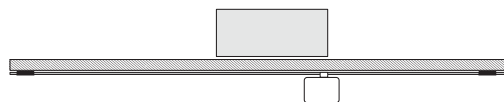
2 digit LED display



7. PROGRAMMING

7.3 Wing Movement Direction

Before programming, move the gate manually in the middle position and re-engage release mechanism (see page 6). Press and hold the “-” button on the control board and ensure that the motor is moving in **CLOSE** direction. If correct, immediately let go of the “-” button and gate stops.



If motor is moving in **OPEN** direction, go to the functions “d1” and change the direction settings.

Once **CLOSE** direction is set correctly, leave the gate in the middle position. The operator is ready for the Learning phase.

Note: gate can be moved with “+” and “-” buttons prior to final settings if required.

Press and hold the “+” button on the control board to move the gate into **OPEN** position. When button is released operator stops.

Press and hold the “-” button on the control board to move the gate into **CLOSE** position. When button is released operator stops.

7.4 Basic Settings

Basic Settings Overview

LED		Function
		Basic Settings (mandatory)
AP	AP	Application
d1	d1	Direction Motor 1
LL	LL	Limit Learning Phase

7.4.1 Application Settings

Application function shown on display.

This function is already pre-set at factory at correct value as defined for the delivered operator.



01	Sliding gate, SL400
02	Sliding gate, SL600
03	Sliding gate, SL1000

More settings available on demand:

00	No application selected
-----------	-------------------------

Values 04, 05, 06 and 07 are not suitable for SL application and shall not be chosen

7.4.2 Direction Motor Settings

Direction Motor function shown on display

Defines movement direction of the Motor.



01	Motor is installed on left hand side (default).
02	Motor is installed on right hand side .

7.4.3 Limit Learning



Before Limit Learning Phase can be started the preparation for the learning of the end limit position must be done as described in the section Limit switch position Set up.

Assure that the Limit positions are checked and the door is in the the middle position to start the Limit Learning Learning Phase.

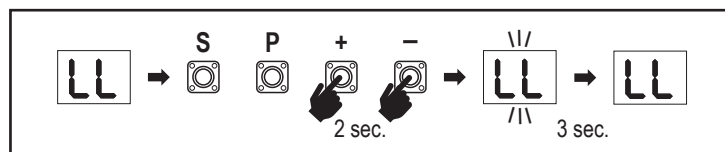
Before starting a Learning phase ensure that:

1. Other Basic Settings are completed
2. Magnets are installed and working correctly
3. First movement will be in **CLOSE** direction.

Available Learning methods:

Standard Learning Mode (Automatic)

1. OPEN the LL menu.
2. Press and hold “+ and -“ buttons for 2 seconds.
3. Automatic learning process starts. LL will flash on the display during complete-process.
4. Gate moves in **CLOSE** direction until the **CLOSE** limit switch is reached, and-stops for 2 seconds., then moves in the **OPEN** direction.
5. Gate moves in **OPEN** direction until the open limit switch is reached.
6. Gate moves in **CLOSE** direction until the close limit switch is reached, and-stops.
7. Standard Learning phase is finished. LL will appear on display and board will return in stand-by mode after 3 seconds.



Following settings are done during Standard Learning Mode:

1. Travel length from **FULL CLOSED** to **FULL OPEN** position.
2. Opening and closing force.
3. 60 cm of travel travel in both directions is assigned for Soft Stop.

7. PROGRAMMING

Advanced Learning Mode (manual setting of Soft Stop position)

Advanced Learning Mode (manual setting of Soft Stop)

1. Open LL Menu.
2. Press and hold “+” and “-” buttons for 2 seconds. Automatic learning starts, LL will flash on the display during the complete process.
3. Gate moves in **CLOSE** direction up to the close limit switch is reached, and stop for 2 seconds, then moves in the **OPEN** direction.
4. To define start of the Soft Stop in **OPEN** direction press “P” button at required start point. Gate will continue opening until limit switch is reached, stops for 2 seconds, then moves in **CLOSE** direction.
5. To define start of the Soft Stop in **CLOSE** direction press “P” button at required start point. Gate will continue closing until limit switch is reached, then stops.
6. Advanced learning phase is finished, LL will appear on the display and board will return in stand by mode after 3 sec.

Following settings are done during Advanced Learning Mode:

- Travel length from **FULL CLOSED** to **FULL OPEN** position.
- Opening and closing force.
- Starting position of the Soft Stop.






NOTE: To stop Learning phase press “S” button. The Learning process will be interrupted, “LE” will flash on LED display. After 5 seconds “LL” will appear on display indicating readiness to start Learning phase again.

If Learning process was not completed, it needs to be re-done.

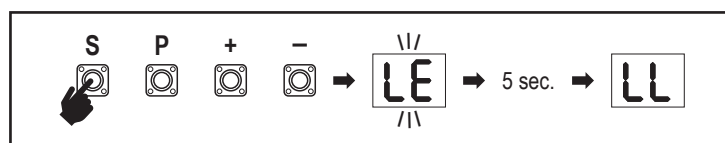
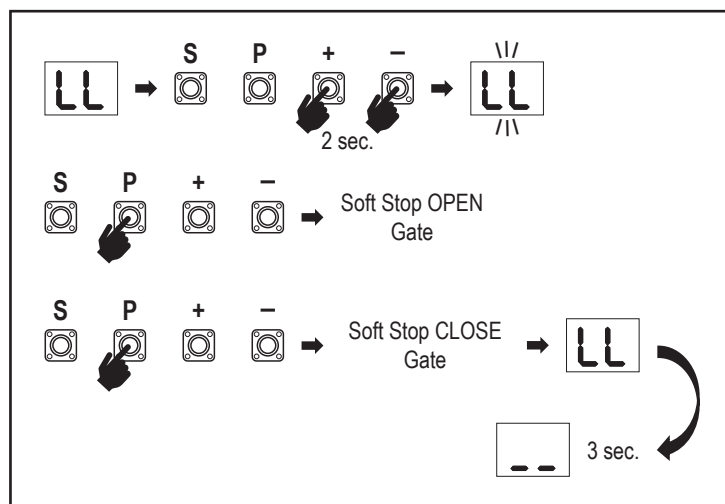
ATTENTION: Learning phase must be completed to enable operation.

7.5 Stand-by Mode

After the control board is powered on and programming is finished, the LED display lights completely for 2 seconds and goes into the stand-by mode. During Stand-by mode the LED display shows current gate status.

	One motor
Motor is opening, upper section of the display flashes.	
Motor stops at the opening position on the limit switch, upper section of the display is on.	
Motor is closing, lower section of the display flashes.	
Motor stops at the closed position on the limit switch, lower section of the display is on.	
Motor stops in the middle, middle of the display is on.	

Herewith the Basic Settings are completed. You can leave Programming and operate your gate or proceed with Advanced Settings.



7. PROGRAMMING

7.6 Programming and Erasing of Remote Controls, Radio Accessories and myQ Devices

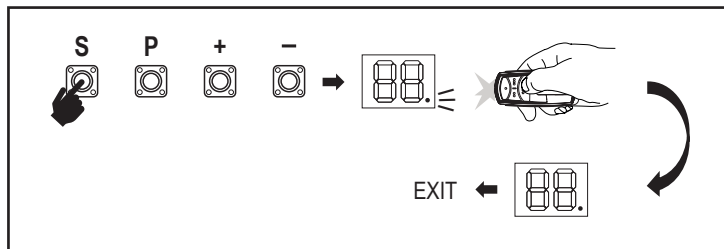
Program remote control devices (transmitters and wireless wall controls):

NOTE: the remote controls delivered with the operator are already factory pre-learned to the operator (top button near the LED) and do not require extra programming.

1. Press and release "S" button. An LED spot turns ON in the display. The operator will stay in Radio programming mode for 3 minutes. Any radio accessory device can be learned within first 30 seconds. During the remaining 2.5 minutes only myQ devices can be learned.
2. Chose the required button on your transmitter and hold it until the dot in the display turns off.

Press "S" button to exit the radio programming mode.

To program a wireless keypad, please follow the respective manual of the accessory.



Programming Transmitter in Partial opening

Press and hold "S" and "+" buttons at the same time, until the LED spot starts flashing. Press and hold the desired free button on transmitter to program the Partial Opening Mode.

The LED spot turns off when the programming is finished. If there is a light connected to SPEC contact it will flash once.

Program myQ gateway (828EV):

1. Connect

Connect ethernet cable (1) provided with gateway to router (2). Use the plug valid for your country (not all models). Connect power (3) to the internet gateway (4). When the internet gateway connects to the internet, the green light (5) will stop blinking and will light solid. A connected set of IRs is mandatory for myQ operation.

2. Create an account

Download the free myQ App from App Store or Google Play Store and create an account. If you already have an account, use your username and password.

3. Register the internet gateway

Enter the Serial Number located on the bottom of the internet gateway when prompted.

4. Add myQ devices

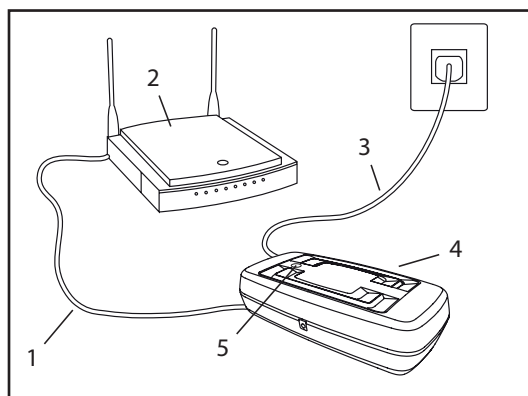
To add your gate operator to the registered gateway follow the instructions on the app. When adding a new myQ capable gate operator press and release "S" button on operator control board. An LED spot turns ON in the control board display.

Note: After you add a device, the blue light on the internet gateway will appear and stay on. Press "S" button on the operator control board to exit the radio programming mode.

5. Test

After having installed and registered correctly you may now test the following features: open or close the gate, request status GATE OPEN or GATE CLOSED.

For more functions see www.liftmaster.eu



Erase radio control devices (transmitters, wireless wall controls, wireless keypads):

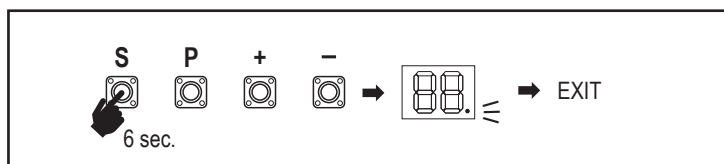
Press and hold "S" button for > 6 seconds. All radio control devices (transmitters, wall controls, keypads) are erased. The LED spot in the display turns OFF.

Note: It is not possible to erase radio control devices individually.

Erase myQ devices:

1. Erase remote control devices first as indicated above.
2. Within next 6 seconds press and hold "S" button. An LED spot turns ON in the display.
3. Press and hold "S" button for > 6 seconds. All myQ devices are erased. The LED spot in the display turns OFF.

NOTE: It is not possible to erase myQ devices individually. It is not possible to erase myQ devices only.



7. PROGRAMMING

7.7 Advanced Settings

Herewith you start with Advanced Settings.

7.7.1 Overview Advanced Settings

LED		Function
tr	tr	Transmitter
r1	r1	IR1 photocell
r2	r2	IR2 photocell
r3	r3	IR3 photocell
i1	i1	Input 1 command
i2	i2	Input 2 command
i3	i3	Input 3 command
Pd	Pd	Partial Opening
tC	tC	Timer To Close (TTC)
rt	rt	Reversal time after impact
EL	EL	E-lock

LED		Function	
FL	FL	Flashing Light	
	PF	PF	Pre-Flashing
SP	SP	Special contact	
St	St	START Speed in OPEN and CLOSE	
Cn	Cn	Maintenance counter	
PS	PS	Password (This menu is only available after the Learning phase was finished.)	
	F1	F1	Force Motor in Open (protected by PS)
	F2	F2	Force Motor in Close (protected by PS)
	S1	S1	Speed Motor in OPEN (protected by PS)
	S2	S2	Speed Motor in CLOSE (protected by PS)
	SF	SF	SOFT-STOP Speed in OPEN and CLOSE (protected by PS)
Fd	Fd	Factory default	
FE	FE	Finish and Exit	

7.7.2 Transmitter Settings

Transmitter function defines how Transmitter commands are working. **Note:** Under settings "01", "02" and "03", TTC timer will be overridden by a transmitter command and will CLOSE the gate. Under setting "04", active TTC timer countdown will be re-set to start again by Transmitter command.

tr

01	Residential Mode: Open – Close – Open
02	Standard Mode: Open – Stop – Close – Stop – Open (Default)
03	Automatic with Stop Mode: Open – Stop – Close – Open
04	Car Park Mode: Open, to complete Open position. Additional command during the opening will be ignored

7.7.3 Infrared Photocells Settings

r1 r2 r3

IR functions define functioning mode of Infrared Photocells (IR). IRs will be auto-learned when installed. Each of the 3 IR sets can be programmed individually.

NOTE: Depending on the chosen settings the Partial Opening inputs or Remote Controls commands will not be executed in both OPEN or CLOSE direction if the IR beam is obstructed. If IRs are removed, the control board power must be turned OFF/ON for two times to unlearn.

For check and maintenance of the photocells see the manual of the photocells.

01	IR active on CLOSE movement. If IR beam is obstructed, gate reverses in complete OPEN position (Default).
02	IR active on OPEN movement. If IR beam is obstructed gate stops. When obstruction disappears the gate continues to OPEN.
03	IR is active on OPEN and CLOSE movement. If IR beam is obstructed on CLOSE movement, gate stops and after the obstruction disappears gate reverses in complete OPEN position. If IR beam is obstructed on OPEN movement, gate stops. When obstruction disappears the gate continues to OPEN.
04	IR active on CLOSE movement. If IR beam is obstructed, gate reverses in complete OPEN position. The activated TTC function will be overridden 2 seconds after the beam obstruction is eliminated and will start CLOSE movement not waiting till the end of TTC time end.

7.7.4 Input Settings

i1 i2 i3

Inputs function define the way Input commands from external accessories are executed. Each of the 3 Inputs can be programmed individually.

NOTE: Under settings "01", "02" and "03", TTC timer will be overridden by an Input command and will CLOSE the gate. Under setting "06", active TTC timer countdown will be re-set to start again by an Input command

7. PROGRAMMING

01	Open – Close – Open
02	Open – Stop – Close – Stop – Open (Default)
03	Open – Stop – Close – Open
04	Partial opening
05	STOP (NC contact)
06	Open, to complete OPEN position. Additional Open command during the opening will be ignored
07	Close, to complete CLOSE position. Additional Close command during the closing will be ignored
08	Open – Stop – Open – Stop
09	Close – Stop – Close – Stop
10	Open, hold to run
11	Close, hold to run

7.7.5 Partial Opening

Pd

Partial opening only gives you the ability to open active leaf to a pre-set value only.

NOTE: Pd command will work starting from Close limit position and during closing movement. If a Pd command is executed from a complete OPEN position, the gate will close.

An Open or transmitter command will always override the Pd command.

01	1,5 m opening travel
02	2 m opening travel (default)
03	3 m opening travel

Programming Transmitter in Partial Opening

1. Press and hold „S“ and „+“ buttons on the control board at the same time, until the LED spot starts flashing.
2. Press and hold the desired free button on transmitter to program the Partial Opening Mode.
3. The LED spot turns off when the programming is finished. If there is a light connected to SPEC contact it will flash once.

7.7.6 Timer To Close

TC

Timer to close (TTC) function enables automatic closing of the gate from a complete OPEN position after a pre-set period of time. Minimum one pair of LiftMaster Infrared Photocells (IR) has to be installed to monitor closing movement to enable TTC operation. TTC will not work if IR are protecting opening movement only. TTC will also work with activated partial opening. If TTC function is active, timer is counting down, and the IR beams are interrupted, the TTC timer shall re-start.

00	TTC not active (Default)	05	1 minute
01	10 seconds	06	1.5 minutes
02	20 seconds	07	2 minutes
03	30 seconds	08	3 minutes
04	45 seconds	09	5 minutes

7.7.7 Reversal Time after Impact

rt

Reversal time after impact function defines reversal behaviour after obstacle obstruction during closing or opening movement. This reversal behaviour is valid both for motor force detection and safety edge application.

01	2 seconds reversal and Stop
02	Reversal back up to the end limit position (Default)
03	During Closing movement, upon impact gate reverses up to Open position. During Opening movement, upon impact gate reverses for 2 seconds and stops

7.7.8 E-Lock / Mag-Lock Settings

EL

E-Lock function defines e-lock/mag-lock behaviour. 24VDC – 500mA e-lock or mag-lock can be connected.

00	e-lock/mag-lock not installed (Default)
01	e-lock active for 1 second prior to Motor start in Open direction
02	e-lock active for 2 seconds prior to Motor start in Open direction
03	Magnetic lock, constantly active at gate CLOSED; constantly inactive during OPEN and CLOSE movement, gate OPEN or STOP position. Magnetic lock will be deactivated in Battery Back-up mode.

7.7.9 Flashing Light Settings

FL

Flashing Light function allows to select which type of Flashing Lamp is connected. 24VDC- max 500 mA Flashing lamp (FLA1-LED) can be connected.

00	no flashing lamp installed (Default)
01	continuous 24V supply - for flashing lamp with own control board (FLA1-LED)
02	interrupted 24V supply - for flashing lamp without own control board

7.7.9a Pre-Flashing

PF

Pre-Flashing Function defines time interval of pre-flashing of the flashing lamp prior to gate movement. Function not active if Flashing Lamp (FL) Function is set to "00".

00	no pre-flashing (Default)	03	3 seconds
01	1 second	04	4 seconds
02	2 seconds	05	5 seconds

7.7.10 Special Contact Settings

SP

Special Contact Function defines relay activation time. A 24V max 500mA relay can be connected to manage other devices, e.g. courtesy light. The time set here will also control countdown for myQ remote light.

00	no activation (Default)	05	1.5 minutes
01	15 seconds	06	2 minutes
02	30 seconds	07	3 minutes
03	45 seconds	08	4 minutes
04	1 minute	09	5 minutes

7. PROGRAMMING

7.7.11 Start Speed in Open and Close Directions



Start Speed function allows switching the Soft-Start in OPEN and CLOSE directions ON and OFF.

00	deactivated (Default)
01	Soft Start active: motor will accelerate gradually until it reaches standard speed.
02	Hard Start active, motor will start at the regular Speed and for the first second the force sensor will not be considered.

7.7.13 Password Protected Functions and Setup

7.7.13a Password Setup



Learning Phase must be completed and Password must be set before doing changes for Password protected functions, like Force and Speed. Choose the „PS“ function to program password.

00	No password selected (Default)
01 → 02 → → 99	Selection available

NOTE: "00" cannot be used as password. It is only used as a default setting. Functions protected by password can't be accessed if the new password is not set. Password will be required to change protected Functions after the setup.

Password Setup Procedure

1. Choose "PS" function and press "P" button.
2. "00" flashes on display.
3. Use "+" and "-" buttons to set the new password.
4. Press "P" button.
5. New set password value remains on display for 2 seconds. Then display changes to "PS".

Please note your password where it can be found later.

7.7.13b Password Use

1. Choose "PS" function and press "P" button.
2. "00" flashes on display.
3. Use "+" and "-" buttons to enter the correct password and press "P" button to confirm.
4. If correct password is entered, the display shows the value for 2 seconds and changes to "PS".
5. Choose the protected function to set.

NOTE: If entered password is not correct, "00" will flash for 5 seconds, then change to "PS". Use correct password to access protected Functions.

Attention: The password protected Advanced Settings can only be executed by a trained professional. The requirements of the EU: EN 12453, EN 13241; GB (UK, NI) BS EN 12453, BS EN 13241 must be fulfilled.

7.7.12 Maintenance Counter

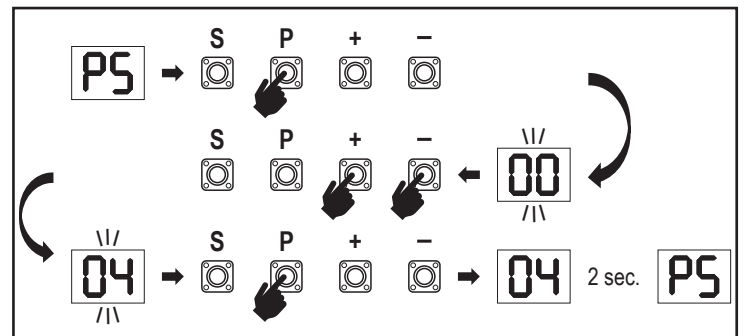
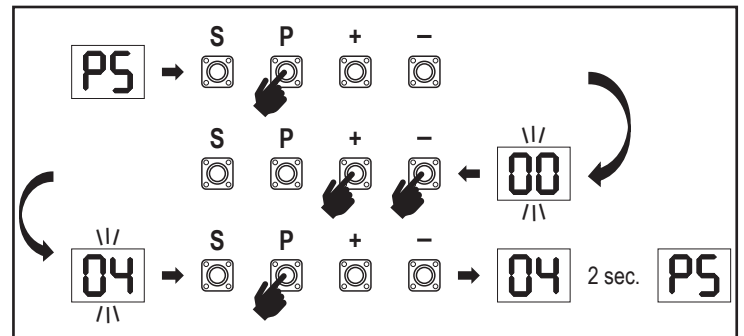


Maintenance Counter function allows to set maintenance interval in cycles. 4 seconds pre-flashing of the Flashing Lamp will be a signal the interval is reached. If PF Function (Pre-Flashing) is active then 4 second pre-flashing will be added to the set time. To reset counter after maintenance is done, it will be enough to program the cycles one more time.

00	no counter (Default)	02	2000 cycles
01	1000 cycles cycles
		20	20000 cycles

ATTENTION

Any changes done to the Password protected functions (Force and Speed) require verification of speed and force according to EU: EN 12453, EN 60335-2-103; GB (UK, NI) BS EN 12453, BS EN 60335-2-103.



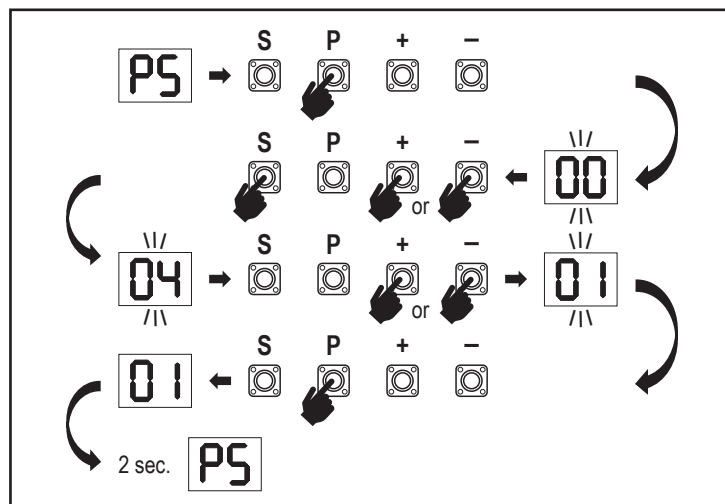
7. PROGRAMMING

7.7.13c Password Change

1. Choose "PS" function and press "P" button.
2. "00" flashes in display.
3. Use "+" or "-" buttons to enter current password and press "S" button. Value starts flashing.
4. Use "+" or "-" buttons to enter NEW password and press "P" button.
5. Changed password value remains on display for 2 seconds. Then display changes to "PS".

NOTE: If wrong (current) password was entered, "00" will flash for 5 seconds and change to "PS". Password is not changed.

If password is lost, use Factory Default function (Fd) to go back to default settings. All settings (apart from Radio Memory) will be deleted.



7.7.13d Force Motors in Open and Close Directions

Motor Force in OPEN direction

F1

Force Motor in OPEN direction allows force adjustment on top of force set during the Learning phase. Password must be entered to access this function.

00	Standard force (Default)	02	+30%
01	+15%	03	+50%

Motor Force in CLOSE direction

F2

Force Motor in CLOSE direction allows force adjustment on top of force set during the Learning phase. Password must be entered to access this function.

00	Standard force (Default)	02	+30%
01	+15%	03	+50%

7.7.13e Speed Motors in Open and Close Directions

Motor Speed in OPEN direction

S1

Motor Speed in OPEN direction allows closing speed adjustment compared to the speed set during Learning phase. Password must be entered to access this function.

00	Standard speed (Default)	04	+50%
01	+10%	05	-10%
02	+20%	06	-20%
03	+30%		

Motor Speed in CLOSE direction

S2

Motor Speed in CLOSE direction allows opening speed adjustment compared to the speed set during Learning phase. Password must be entered to access this function.

00	Standard speed (Default)	04	+50%
01	+10%	05	-10%
02	+20%	06	-20%
03	+30%		

7.7.13f Soft-Stop Speed

SF

Soft-Stop Speed function allows adjustment of the Soft-Stop speed compared to default values set during Learning phase. Soft-Stop speed is 50% of the standard speed as per default setting. Standard speed change impacts the Soft-Stop speed. Password must be entered to access this function.

00	Standard speed (Default)	04	-50%
01	-10%	05	+10%
02	-20%	06	+20%
03	-30%		

7.8 Factory Default

Fd

Factory default function resets control board to the original factory set-ups. All settings, including limit settings, will be erased. LED display will show "E0". Programmed remote controls will remain learned. If Remote control accessories need to be erased refer to the respective Radio Controls Programming section of this manual.

00	no reset (Default)
01	reset to the factory default settings

7.9 Finish and Exit

FE

To exit the programming phase and save all changes, move to FE function and press "P" button. The control board will go into Stand-by mode and is ready to work.

There are also other ways to exit the programming and save settings:

- Press and hold "P" button for 5 seconds
- Wait 3 minutes after the last changes in the programming for automatic exit

7.10 Double Gate Application

Using the SYNC terminal on the Control Board, it is possible to synchronize with a second sliding gate operator for double wing application. The Control Boards of the 2 operators must be programmed individually (Basic and Advanced settings). After the programming is finished all the peripheral and radio accessories (IRs, Safety Edge, TX, ect) shall be connected/programmed only on one unit, that will become the PRIMARY unit. The PRIMARY unit will control the second unit by SYNC connection (SECONDARY unit). The PRIMARY unit must be the operator on the gate with longer travel. If gate leaves have equal width choose any of the operators to be the Primary unit.

Following devices can be connected to the PRIMARY unit and will have effect on the SECONDARY unit as well:

Infrared Photocells, Safety Edge, Input Command (Key Switches, Emergency Stop Button, etc.), Remote control (TX), Flashing light, Maglock/ E-lock, Special Contact (relay)

8. BATTERY BACKUP

Battery Back-Up Mode (BBU) **BU**

Optional 12V, 2.2Ah lead batteries SKU 490EV (optional, not included) can be mounted inside operator housing.

Follow the manual of SKU Nr 490EV for exact installation procedure.

A Flashing lamp (if mounted) will flash 2 seconds every 10 minutes indicating BBU mode and power loss. Control board will switch into stand-by mode with active radio receiver accepting radio control device commands only. All other accessories and peripheral devices will not be functioning. When in Battery Back-up mode, myQ Smartphone Control and wireless myQ devices will be disabled. Full charged battery capacity shall support up to ~20 cycles at a rate of 2 per hour. After 24 hours of BBU mode the battery shall provide power for 1 complete opening and closing cycle.

Please note that only the specified battery can be used. Use of any other battery leads to loss of warranty and loss of liability of LiftMaster for any related damages resulting from use of unspecified batteries.

9. ERROR CODES

LED	Error code	Issue	Possible reason	Solution
E0	E0	Press transmitter, but no gate movement	AP is set to 00	Check if AP is set to 00. If yes, change to correct application setting.
E1	E1	Gate do not close, but can open.	1) IR1 is not connected, or wire is cut.	1) Check if IR1 is not connected, or wire is cut.
			2) IR1 wire is shorted out or reverse connected.	2) Check IR1 connection, change wires if needed.
			3) IR1 is not aligned or blocked for a moment.	3) Align IR transmitter and receiver to make sure both LED is on, instead of blinking. Make sure there is nothing hanging on gate that may cause IR blocking.
E2	E2	Gate can close when it is at open limit, but cannot open when it's at close limit.	1) IR2 is not connected, or wire is cut.	1) Check if IR2 is not connected, or wire is cut.
			2) IR2 wire is shorted out or reverse connected.	2) Check IR2 connection, change wires if needed.
			3) IR2 is not aligned or blocked for a moment.	3) Align IR transmitter and receiver to make sure both LED is on, instead of blinking. Make sure there is nothing blocking the IR.
E3	E3	Press transmitter, but no gate movement.	1) IR3 is not connected, or wire is cut.	1) Check if IR3 is not connected, or wire is cut.
			2) IR3 wire is shorted out or reverse connected.	2) Check IR3 connection, change wires if needed.
			3) IR3 is not aligned or blocked for a moment.	3) Align IR transmitter and receiver to make sure both LED is on, instead of blinking. Make sure there is nothing hanging on gate that may cause IR blocking in short time.
E4	E4	Press transmitter, but no gate movement.	1) Safety edge is not connected with 8.2kOhm resistor.	1) Check if the 8.2 kOhm safety edge is properly connected or if the 8.2 kOhm resistor is installed.
			2) Safety edge wire is shorted out.	2) Check safety edge wires and replace wire if needed.
			3) Safety edge is pressed.	3) Check if safety edge is pressed.
E5	E5	Press transmitter, but no gate movement.	1) STOP switch is open.	1) Check if STOP switch is open or damaged.
			2) STOP switch is not connected.	2) Check if STOP switch is disconnected. If yes, then reconnect STOP switch or change the respective Input setting to other value.
E6	E6	Error Magnet	1) Mag switch is not connected or wrong connection.	1) Check if mag switch is connected correctly. If not, fix the connection.
			2) Mag block drops from switch or fuse is broken.	2) Check if Mag block drops from switch or fuse is broken.
E7	E7	Press transmitter, but no gate movement.	Control board amplifier for Motor 1 fail.	Switch off power for 20 seconds and reset to check if control board recovers. If not, change control board.
E9	E9	Press transmitter, but no gate movement.	Control board memory mistake.	Switch off power for 20 seconds and reset to check if control board recovers. If not, change control board.
F1	F1	Motor stop and reverse during open or close.	Motor is blocked.	Check and remove obstruction. Clean gate.
F3	F3	Motor stop and reverse during open or close.	Motor stall or speed sensor is damaged.	Check if motor 1 stalled or speed sensor is damaged.
F5	F5	Press transmitter, but motor has no action.	Radio module fail.	Switch off power for 20 seconds and reset to check if control board recovers. If not, change control board.
F6	F6	Gate reverse during closing.	Low battery power.	Charge battery.
F7	F7	Press transmitter, but no gate movement.	Control board damaged.	Switch off power for 20 seconds and reset to check if control board recovers. If not, change control board.
F9	F9	Press transmitter or push button, but motor has no action.	AP menu is reset to factory default.	Relearn limits.
LE	LE	Motor stops suddenly.	Press C button during limit learning.	Relearn limits.

10. TECHNICAL DATA

		SL400EVK	SL600EVK	SL1000EVK
Input Voltage	VAC	220-240		
Input frequency	Hz	50/60		
Motor Voltage	VDC	24V		
"Standby consumption (without accessories)"	W	4.45	4.4	4.2
Rated Power	W	110	120	150
Rated Load	Nm	3.6	5.4	9
Cycles per hour		7	8	10
Max. cycles per day		25	27	30
Max. gate weight	kg	400	600	1000
Max. gate width	m	5	8	12
Max. opening speed	mm/s	240		
Maximum Torque	Nm	12	18	22.5
End Limit System		Magnetic switch		
Operating Radio Frequency	MHz	RX 433MHz (433.30MHz, 433.92MHz, 434.54MHz) RX 868MHz (868.30MHz, 868.95MHz, 869.85MHz) TX 865.125MHz, 865.829MHz, 866.587MHz		
Sending Power		< 10 mW		
Code		Security+ 2.0		
Max. nr of remotes		180		
Max. nr. of keypads		4		
Max. nr. of myQ devices		16		
External accessory power		24VDC - max. 500mA		
Flashing lamp connector		24VDC - max. 500mA		
E-Lock /Magnetic lock conector		24VDC - max. 500mA		
External relay		24VDC - max. 500mA		
Safety edge		8,2 kOhm		
Max. nr. of IRs		3		
Max. nr. of external inputs		3		
Battery back-up unit		2 x 12V, 2.2Ah batteries model 490EV		
Ingress Protection Motor	IP	44		
Noise Level	dB	< 70 db(A)		
Working temperature	°C	-20°C to +55°C		
Weight (kit)	Kg	11.1	11.3	11.5
Transmitter Frequency		868MHz (868.30MHz, 868.95MHz, 869.85MHz)		
Sending power	TX4EVF	<10mW		
Battery		CR2032 3V		

11. MAINTENANCE

Replace Batteries in The Remote Control

Battery of the remote control:

The batteries in the remote have an extremely long life. If the transmission range decreases, the batteries must be replaced. Batteries are not covered by the guarantee.

Please observe the following instructions for battery:

Batteries should not be treated as household waste. All consumers are required by law to dispose of batteries properly at the designated collection points. Never recharge batteries that are not meant to be recharged.

Danger of explosion!

Keep batteries away from children, do not short-circuit them or take them apart. See a doctor immediately, if a battery is swallowed. If necessary, clean contacts on battery and devices before loading. Remove flat batteries from the device immediately!

Increased risk of leakage!

Never expose batteries to excessive heat such as sunshine, fire or similar!

There is increased risk of leakage!

Avoid contact with skin, eyes and mouth. Rinse the parts affected by battery acid with plenty of cold water and consult a doctor immediately. Use only batteries of the same type. Remove the batteries if the device is not being used for a long time.

Replacing battery:

To replace battery, turn remote control around and open the case with a screwdriver. Lift cover and lift control board below. Slide battery to one side and remove. Watch polarity of battery! Assemble again from in reverse direction.

ATTENTION!

Danger of explosion if battery is replaced improperly. Replacement only by identical or equivalent type (CR2032) 3V.

CAUTION

Risk of explosion if the battery is replaced by an incorrect type.

Do not ingest battery, Chemical Burn Hazard.

This product contains a coin battery. If swallowed, button batteries can cause injuries, or death.

WARNING

- Keep batteries out of sight and out of the reach of children, button/coin batteries can be dangerous for children.
- Dispose of used button batteries immediately. Do not use defect/swallowed batteries.
- Check periodically if the battery compartments is secure, stop using if defect.
- If batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.



The drive mechanism

The drive mechanism is maintenance free. Check the gate fittings and the drive mechanism at regular intervals (monthly) are securely fixed. Release the drive and check that the gate functions properly. Unless the gate runs smoothly it will not operate correctly with the drive mechanism. The drive cannot eliminate the problems caused by a gate that does not work correctly.


Limit switch adjustment and force regulation


These settings must be checked and undertaken properly during the installation of the opener! Due to weathering, minor changes can occur during operation of the opener that need to be addressed by a new setting. This can particularly happen in the first year of operation. Follow the instructions for setting travel limits and force (refer to section Limit Learning Phase, pages 11 and 12) carefully and re-check the automatic safety reverse after each resetting!

Disassembly

IMPORTANT Notice! Follow the safety notices. See "Safety instructions" (pages 2 and 3). The sequence described in the "installation" section, but in opposite order. Ignore the setup instructions.

12. DISPOSAL

 Our electrical and electronic equipment may not be disposed of with household waste and must be disposed of after use properly in accordance with WEEE Directive EU: 2012/19/EU; GB UK(NI): SI 2012 nr. 19 on waste electrical and electronic equipment in order to ensure that materials are recycled. Collecting waste electrical equipment separately means environmentally-friendly disposal and is completely free of charge for the consumer. WEEE reg. no. in Germany: DE66256568. Any waste packaging left over with the end consumer must be collected separately from mixed waste, in accordance with the Directive. Packaging may not be disposed of with household waste, organic waste or in nature. Packaging material must be separated according to its material and disposed of in the recycling containers provided and in certain council recycling bins.

 Our batteries are marketed in compliance with the law. The 'crossed-out waste bin' indicates that batteries may not be disposed of with household waste. Batteries included in the product (technical data). In order to avoid causing harm to the environment or people's health, used batteries must be returned for regulated disposal at council recycling centres or via retail outlets, as is prescribed by law. Batteries may only be brought for disposal once fully discharged and, in the case of lithium batteries, with their terminals taped over. The batteries can be easily removed from our equipment for disposal. Registration number in Germany: 21002670.

13. WARRANTY

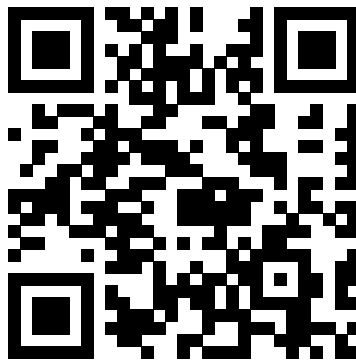
Your statutory rights are not affected by this manufacturer's warranty. Please see www.liftmaster.eu for terms of warranty.

14. DECLARATION OF CONFORMITY

The manual consists of these operating instructions and the declaration of conformity.

The radio equipment type (TX4EVF) is in compliance with Directive 2014/53/EU and for UK with Radio Equipment Regulation SI 2017 No. 1209.

The full text of the EU declaration of conformity is available at the following internet address: <https://doc.chamberlain.de>



Chamberlain GmbH
Saar-Lor-Lux-Str. 19
66115 Saarbrücken
Germany
WEEE-Reg.Nr. DE66256568
www.liftmaster.eu
info@liftmaster.eu

