

CERREKA

Quick installation and programming guide

This quick guide is a summary of the complete installation guide. The guide contains safety warnings and other explanations that must be taken into account. The most recent versions of this guide and the installation manual are available in the "Downloads" section on Erreka's website. http://www.erreka.com.

WARNING The options and functions described in this guide apply for the firmware version indicated on the circuit. The firmware, as part of a process of continuous improvement, is subject to new functionalities or upgrades being included as a result of new versions which are not necessarily compatible with previous ones. For this reason, some options or functions may differ or be unavailable if your firmware is older than shown in this guide.



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7

Choosing the spring and anchoring hole

The balancing spring and the hole it is anchored in depend on the length of the barrier arm, the type of arm and the accessories placed on the arm (in short, the weight of the arm).



The barriers are supplied with one spring mounted in the box (S) and one spring removed:

- Spring removed: Ø5.5mm, blue
- Spring mounted: ULS45EC: Ø6.5mm (yellow), mounted in hole 2 ULS6EC: Ø6.5mm (yellow) x2, mounted in hole 2

The table below shows the spring to be used and the anchoring hole, as appropriate. Using other accessories may influence the choice of spring and orifice.

If the spring or anchoring hole must be changed, do this before installing the barrier and arm.

ULS45EC barrier with	AUL13 arm (3m,	100x45mm),	10A001 flange

Springs / Hole	bar only	bar + LED	bar + leg	bar + LED + leg
1x Ø6.5 / 1	Х	Х	Х	Х
1x Ø6.5 / 2	Х	Х	3 m	2.8 - 3 m
1x Ø5.5 / 2	3 m	2.6 - 3 m	2.5 - 3 m	2.5 - 2.8 m

ULS45EC barrier with AUL02 arm (4.5m, 100x45mm), 10A001 flange				
Springs / Hole	bar only	bar + LED	bar + leg	bar + LED + leg
1x Ø6.5 / 1	Х	4.1 - 4.5 m	4 - 4.5 m	3.5 - 4.5 m
1x Ø6.5 / 2	3.8 - 4.5 m	3.4 - 4.1 m	3 - 4 m	2.8 - 3.5 m
1x Ø5.5 / 2	3 - 3.8 m	2.6 - 3.4 m	2.5 - 3 m	2.5 - 2.8 m

ULS45EC barrier with ANT09 arm (4.3m, Ø70), 10A072 flange				
Springs / Hole	bar only	bar + LED	bar + leg	bar + LED + leg
1x Ø6.5 / 1	3.9 - 4.3 m	3.7 - 4.3 m	3.3 - 4.3 m	3.2 - 4.3 m
1x Ø6.5 / 2	3.2 - 3.9 m	3 - 3.7 m	2.6 - 3.3 m	2.5 - 3.2 m

ULS6EC barrier with AUL01 arm (6m, 100x45mm), 10A001 flange				
Springs / Hole	bar only	bar + LED	bar + leg	bar + LED + leg
2x Ø6.5 / 1	Х	Х	Х	5.3 - 6 m
2x Ø6.5 / 2	5 - 6 m	4.7 - 6 m	4.5 - 6 m	4.2 - 5.3 m
1x Ø6.5 / 1	4.5 - 5 m	4 - 4.7 m	4 - 4.5 m	4 - 4.2 m
1x Ø6.5 / 2	4 - 4.5 m	Х	Х	Х

ULS6EC barrier with ANT10 arm (3.5+2.8m + Ø70 joint), 10A072 flange				
Springs / Hole	bar only	bar + LED	bar + leg	bar + LED + leg
2x Ø6.5 / 1	5.6 - 6.3 m	5.2 - 6.3 m	5 - 6.3 m	4.8 - 6.3 m
2x Ø6.5 / 2	4.5 - 5.6 m	4.2 - 5.2m	4 - 5 m	4 - 4.8 m

I More arms than those shown in this table can be mounted; see the complete manual for more information.

- Changing the anchoring hole
- **1** Put the barrier arm in upright position.
- 2 Turn the tensioning handle (M) anticlockwise until the spring is tensionless.
- **3** Release the anchoring bolt (1) and mount it in the other hole.
- **4** Balance the barrier as described below.



Changing the spring

- **1** Place the arm in upright position.
- **2** Turn the tensioning handle (M) anti-clockwise until the spring is tensionless.
- **3** Release the anchoring bolt (1).
- 4 Take down the spring box (S), releasing the pivot (V).
- **5** Completely unscrew the tensioning handle, remove the spring and put the new spring in place. Finally, screw in the tensioning handle.
- 6 Mount the spring box (S), inserting the pivot (V).
- **7** Screw the anchoring bolt in the appropriate hole (1) or (2).
- 8 Balance the barrier as described below.

I If the spring or anchoring hole must be changed, do this before installing the barrier and arm.

The illustrations and explanations refer to ULS45EC barriers, which have a single balancing spring. The procedure for ULS6EC barriers is similar, bearing in mind that the spring and its adjacent elements are duplicated.











Balancing the barrier

IN THE BARRIER MUST BE BALANCED FOR PROPER OPERATION.

- **1** Unlock the operator. The bar can be moved smoothly by hand throughout the entire run if the barrier is balanced correctly.
- 2 If the barrier is not balanced, turn the tensioning handle until it is.
- The tensioning handle is only accessible with the arm in upright position.
- ULS6EC barriers have two springs and two knobs for tensioning.

Balancing is done by acting equally on the two knobs, to ensure the tensioning of both springs is approximately the same.

3 The anchoring hole or spring must be changed if the barrier cannot be balanced. See the table when choosing the spring and anchoring hole.

Adjusting the stoppers

- Unlock the operator and move the barrier by hand to check its position in the stoppers. If it is not correct, adjust the associated stopper, (A) or (B).
- Lock the operator and check operation.

Adjusting the limit switches

Unlock the operator and move the barrier by hand to check the adjustment of the LA and LC cams that drive the FCA and FCC limit switches.

The limit switch has two LEDs to indicate whether it is enabled or not:

- The closing LED (FCC) is red (cam LC)
- The opening LED (FCA) is green (cam LA)
- Ensure the cams are correctly adjusted, so they act before reaching the stoppers.



*****NOTE**: if you install 24VDC powered accessories (photocells, etc.), do not connect them to the control panel terminals, but to the external BC-AUX(24Vdc) terminals, located on the DIN rail, which are powered from the 24Vdc auxiliary power supply (FA 24Vdc).

STOP button enabled (emergency stop): DL1 and DL3 flash simultaneously every 0.5 seconds.

Opening or closing photocell testing error: DL1 and DL3 flash simultaneously every 2 seconds.

- **F1** Motor fuse (5x20): 230 VAC: 2.5A 125 VAC: 6.3A
- **F2** Electronic fuse
- (5x20; 230 VAC: 500mA) F3 FT and AUX24V outputs fuse (5x20: 500mA)
- **FS** Resettable* fuse secondary
- automatically resets when overload ends
- **DL1** Barrier open
- **DL2** Radio code programming indicator / Receiving radio code
- **DL3** Radio code or operation programming
- **DL4** Opening relay enabled
- **DL5** Closing relay enabled
- **DL6** Opening limit switch contacts closed
- **DL7** Closing limit switch contacts closed
- **DL8** Opening safety device contacts closed
- **DL9** Closing safety device contacts closed
- DL10 Closing device contacts (ST2) closed
- DL11 Full running device contacts (ST1) closed
- DL12 Radio key command
- DL13 Encoder signal
 - Operator working: DL13 flashes, since the encoder sends the signal in the form of pulses.
 - Operator stopped: DL13 can be on or off, indistinctly, depending on the position of the encoder (high pulse or low pulse).
- **DL14** LED** resettable fuse FS **DL141** LED** fuse F3
 - ** DL on: fuse closed; DL off: fuse open

Encoder

For correct operation of the encoder, ensure DIP7 is in ON.

Photocell testing

Opening photocells (SG.A): place DIP6 in ON to enable testing. **Closing photocells (SG.C):** place DIP9 in ON to enable testing.



Installing the LED strip

■ Use the bottom hole to insert the cable in the barrier when using the arm with the LED strip (AUL11 for 6m barriers, AUL12 for 4.5m barriers, AUL17 for 3m barriers).



Connecting the LED strip

The LED strip is fitted in arms with rubber and LED strip with the following specific codes:

- AUL11: for 6m barriers
- AUL12: for 4.5m barriers
- AUL17: for 3m barriers

The power supply system is available separately (reference AUL10). It consists of:

- a traffic light card (SMF),
- a 12Vdc power supply (PWR LED 12Vdc),
- the required cables and cable glands.

The LED strip must be powered with 12 Vdc, with the 12 Vdc power supply (PWR LED 12Vdc). Do not power the LED strip with 24Vdc as this will damage it.





Selecting functions and modes using SW2 (DIP1 = OFF)

DIP	Modes and functions	Option	Effect
DIP1		OFF	
DIP2	Operation warning	ON	the flashing light comes on and the operation begins after a 3 second warning
		OFF	the flashing light comes on and the operation begins immediately
כחוס	Key commondo using CT1 and CT2	ON	ST1: opening command; ST2: closing command
DIP3	Key commands using STT and STZ	OFF	ST1: opening and closing commands; ST2: no function
DIP4 Automa		ON	automatic mode (the barrier closes automatically at the end of standby time, which is adjusted using T.E.)
	Automatic or step-by-step mode	OFF	semi-automatic mode (the barrier only closes when receiving the key command)
DIP5 Automa (only if [Automatic mode optional	ON	during standby, the barrier obeys the key commands (can be closed before standby time finishes)
	(only if DIP4 = ON)	OFF	the barrier cannot be closed until standby time finishes; key commands will cause standby time to restart.
DIP6	Opening photocell testing	OFF	always place in OFF
	Encoder	ON	encoder enabled
DIP7		OFF	encoder disabled
DIP8	Interlock mode (with FT1)	ON	interlock mode enabled: the barrier closes if SG.C is enabled during standby time (in automatic mode)
		OFF	interlocking mode disabled
DIP9	Closing photocell testing	OFF	always place in OFF
DIP10	No function	OFF	always place in OFF



C.F.: fan running time

Regulate the time the operator's cooling fan is working.

• Minimum value: 3 seconds; maximum value: 90 seconds

T.E.: barrier open standby time

If automatic or optional automatic operation mode has been programmed, regulate T.E. to adjust standby time with the barrier open (before automatic closing begins).

Minimum value: 0 seconds; maximum value: 90 seconds

P.M.: motor torque

Use P.M. to adjust the maximum motor power value.

A Torque adjustment, respecting the maximum closing forces set out in Standard EN12453:2000. Make the measurements as described in Standard EN 12445:2000.