

AXL-P KIT

Complete kit for a pair of swing gates weighing
up to 250kg per leaf / max. width 2m



QUICK SETUP GUIDE

Typical gate setup & geometry
Gate motor manual release
Kit wiring diagram
Control panel guide & safety

TO BE READ IN CONJUNCTION WITH THE FULL INSTRUCTION MANUAL

CONTENTS

CAME 

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AXL-P: KIT CONTENTS

X2



AXL20DGS
Motor



ZL60
Control Panel



AF43S
Radio Frequency Card

X2



TOPD4FKS
Fixed code Transmitter



TOP-A433N
Tuned Antenna



DIR10
Pair of Photocells

SAFETY INSTRUCTIONS



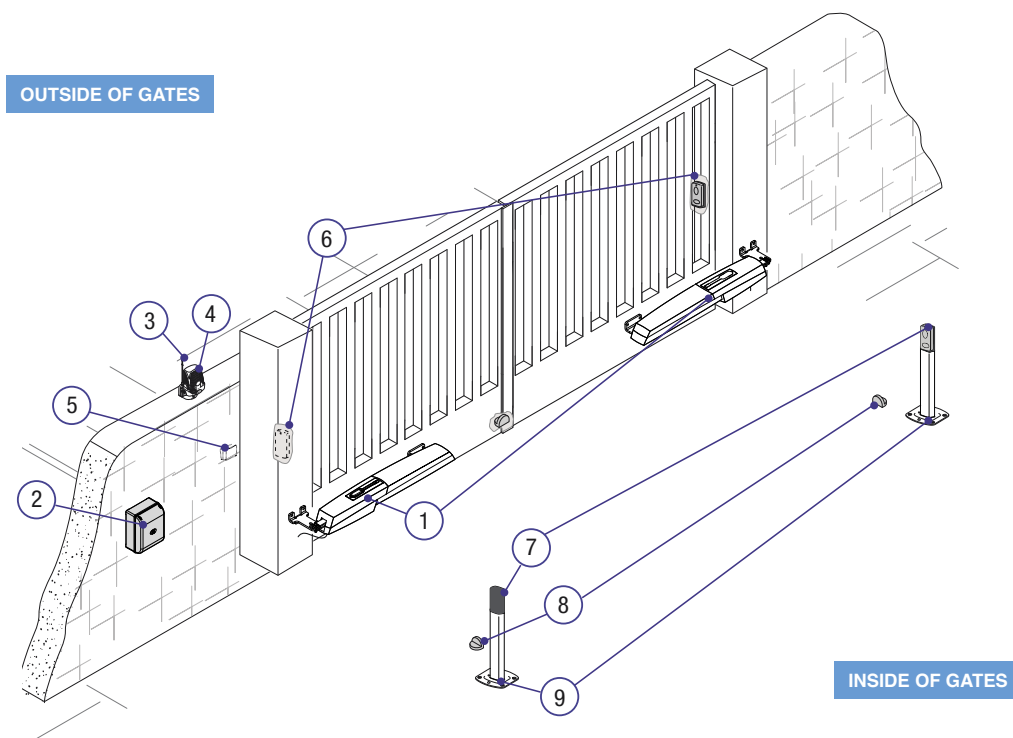
When correctly installed in compliance to installation instructions and adhering to all current electrical, mechanical and manufacturer regulations, your automation system will provide a high degree of safety and problem free operation.



Please take note of the following warnings that must be followed in order to prevent accidents during your gate operation:

- Do not allow children to play near the gate.
- Keep all remote control operating devices out of the reach of children.
- Do not pass through the gate whilst in operation. Wait until they are fully open before passing through.
- Do not stop unnecessarily when passing through the gate.
- Keep feet away from the bottom of the gate during operation.
- Do not operate the gate by remote control unless they are in view.
- Do not attempt to block or interfere with the gate movement during operation.
- Under no circumstances should you attempt to modify the gate automation system.
- Ensure that your gate is serviced at 3 to 12 month intervals (dependent on number of openings) by your installation/maintenance company.
- Report any signs of malfunction to your installation/maintenance company immediately.
- In the case of malfunction, isolate the power supply, release any additional locking mechanism, manually open the gate (see manual release instruction booklet) and call your installation/maintenance company.
- If you are in any doubt regarding the operation of your gate, call your installation/maintenance company.

AXL: TYPICAL GATE SETUP



- | | | |
|---------------------|---|---|
| 1 AXL Motor | 4 Flashing Light (optional) | 7 2nd set of Photocells (optional) |
| 2 Control Panel | 5 Selector Keypad (optional) | 8 Mechanical End Stop (not supplied) |
| 3 Reception Antenna | 6 Photocells (on outside of gate posts) | 9 Photocell column (optional accessory) |

CONTROL PANEL

- The control panel should be mounted in an accessible position and not directly behind the gates, to avoid a potential crushing hazard.
- Use cable glands to connect the devices to the control panel. One of these must be used exclusively for the power supply cable.
- All holes should be sealed to avoid ingress and maintain the IP54 protection rating.



ONLY A COMPETENT SERVICE PROVIDER SHOULD OPEN THE ENCLOSURE AND ADJUST THE SETTINGS.

PHOTOCELLS

- The photocells are used in pairs, one transmitter and one receiver.
- They should be installed between 500-600mm from the ground, facing each other.
- Power for the photocells is taken from the control panel 24v AC.
- The maximum range of the photocell should always be observed.

When the photocell beam is broken, the control panel can be programmed on how to react. Please see 'Safety' section for more information.

PRELIMINARY CHECKS

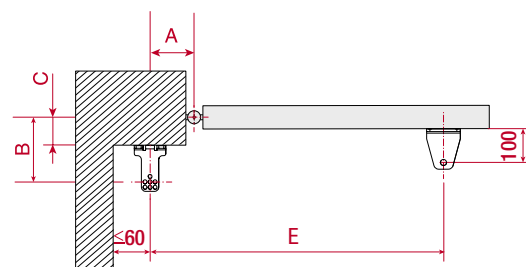
1. Check that the gate structure is sturdy enough, the hinges work efficiently and that there is no friction between the fixed and moving parts
2. Make sure that measurement **C** does not exceed the value shown in the reference table
3. Make sure that you have fitted opening and closing mechanical gate stops

Tick

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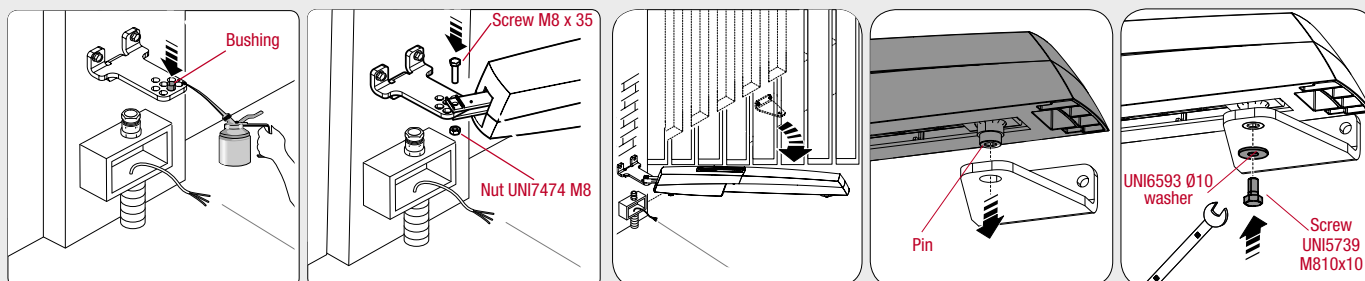
SIDE HUNG GATE GEOMETRY

Opening	A (mm)	B (mm)	C (mm)	E (mm)
90°	130	110 - 170	0 - 60	740
115°	150	110 - 160	0 - 50	740



- The greater the motor angle, the greater the opening speed and the slower the gear motor's thrust.
- The smaller the motor angle, the slower the opening speed and the greater the gear motor's thrust.

- Lubricate the bushing and fit it into one of the holes on the post bracket.
- The bracket holes allow the opening angle to be changed.
- Open the gate leaf and fit the pin into the gate bracket.
- Fasten using the UNI6593 washer and the UNI5739 M10 x 10 bolt (supplied)



OUTWARD OPENING GATES

For outward opening gate geometry and electrical connection differences, please refer to the full Installation Manual.

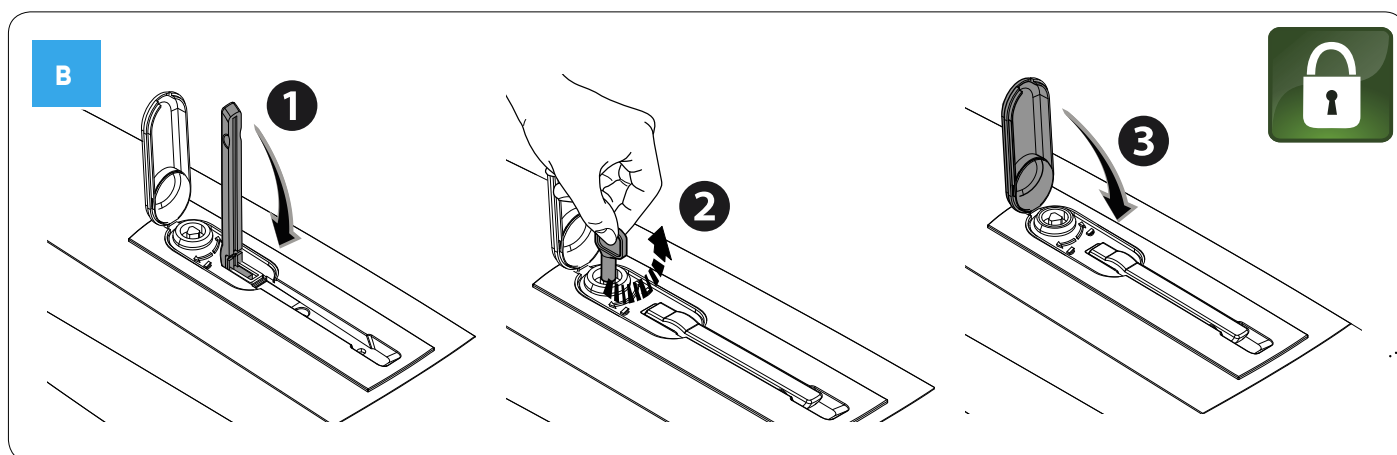
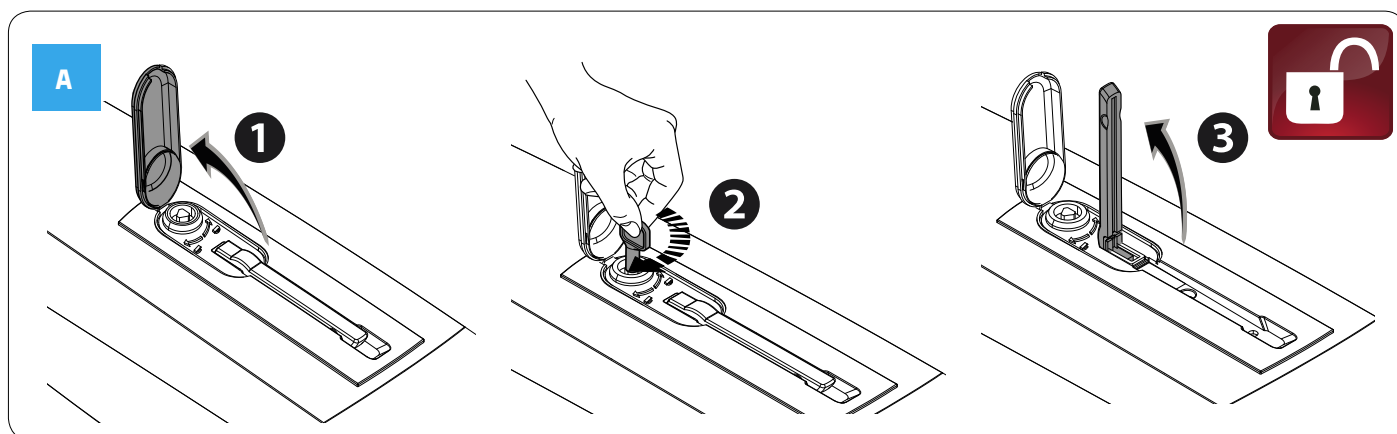
AXL: MANUAL RELEASE

CAME 

The AXI worm drive swing gate operator manual release mechanism is found towards the rear of the motor.

TO MANUALLY RELEASE THE GATES:

1. Open the lock cover cap **A1**.
2. Insert the triangular key into the lock and turn it fully to allow the release lever to unlock **A2**.
3. Lift the lever up to the vertical position to release the gate mechanism **A3**.
4. To re-engage, close the gate and return the release lever back to its original position, pushed completely back into place. Take the key out and replace the cap **B**. Attempt to manually move the gate to ensure it is fully engaged.



ALWAYS isolate the power supply as instructed by your installer (even in a power cut).



Release any additional locking device fitted to the gate (eg. electric lock etc).

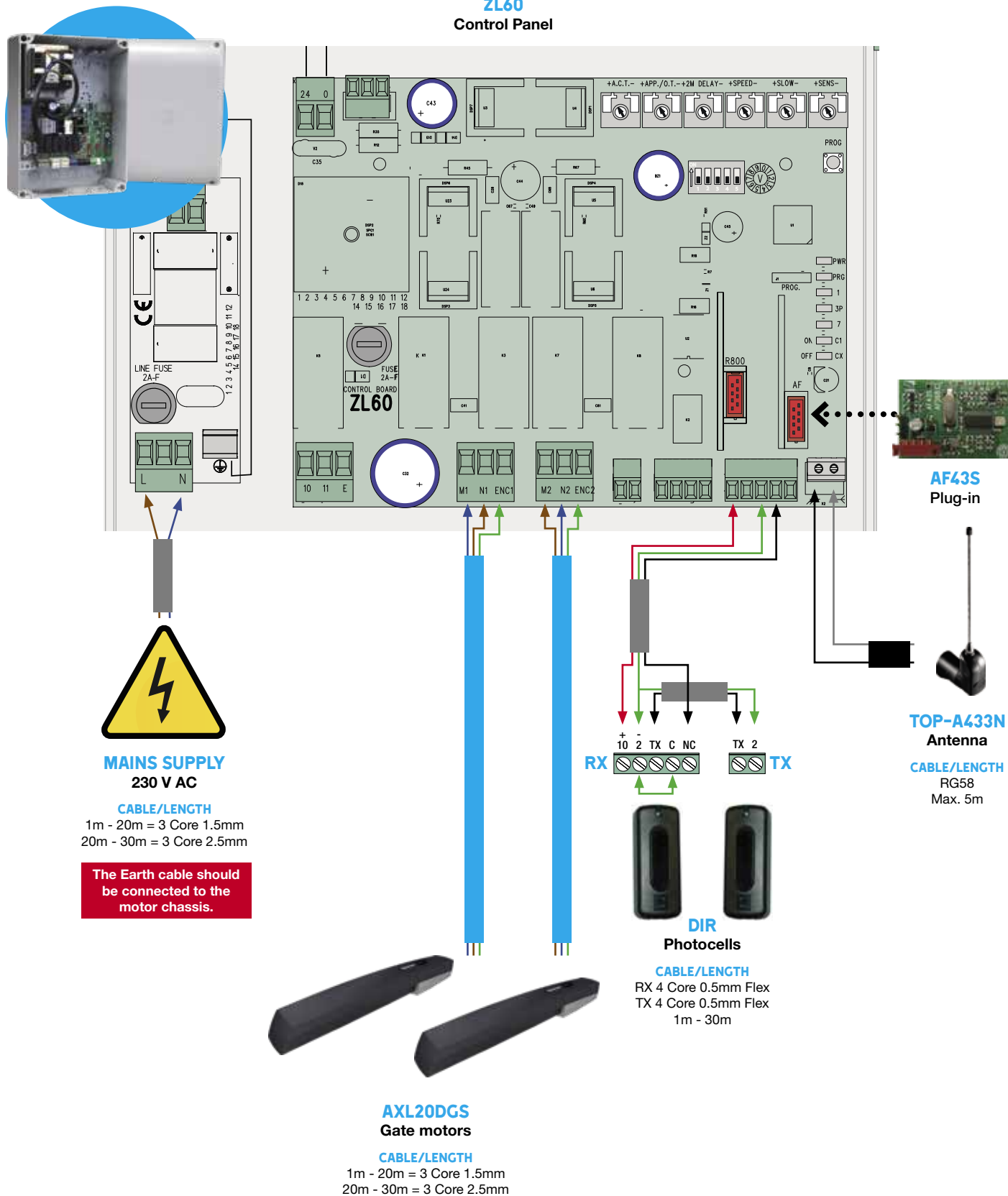
BASIC MAINTENANCE: HINTS & TIPS

- Lubricate moving parts with suitable penetrating lubricant.
- Lubricate gate hinges.
- Manually release the gates at least once per month.

AXL-P: WIRING DIAGRAM

CAME 

ZL60
Control Panel



IMPORTANT! THE INSTALLATION MUST BE CARRIED OUT BY SKILLED AND QUALIFIED PERSONNEL

Ensure the wiring is complete (refer to the wiring diagram) & any required physical stops are set before commencing with programming

1. Power on the control panel.

2. Disable total stop

Tick

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Select the following DIP-switches



Now press the PROG button on the control board.

The LED flashes  and the buzzer sounds off twice.

Set all the DIP-switches off (down).



3. Setup the encoder

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Select the following DIP-switches



Now press the PROG button on the control board.

The Gates will now perform a close and open cycle.

If either of the Gates open first and then close wait for the Gates to complete the encoder setup cycle and then reverse the motor cables relating to the motors that were opening instead of closing.

for motor 2 (Connections **M2**, **N2**)

for motor 1 (connections **M1**, **N1**)

Repeat the above steps to rerun the encoder setup before proceeding.

When the calibration is complete, the buzzer sounds off for one second.

If the calibration is not successful, the LED flashes  quickly and the buzzer sounds off seven times.

Set all the DIP-switches off (down).



4. Check the gate operation by pulsing across connections 2 & 7, the gate will close.

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SAFETY INPUTS SHOULD NOW BE CONFIGURED AND THE GATE FORCE TESTED AS REQUIRED. PLEASE REFER TO THE FULL MANUAL TO COMPLETE THE COMMISSIONING.

**SHOULD THE GATES NOT OPERATE AS SUGGESTED ABOVE,
CALL CAME HELPLINE 0115 921 0430 FOR TECHNICAL SUPPORT.**

ZL60: TRANSMITTERS

CAME 

Ensure the AF card is fitted (refer to the wiring diagram).

ADD A TRANSMITTER BUTTON

1. Select the Dip switches for the required button function

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Partial opening



Open only



Open close invert



Open-stop-close-stop



2. Press the PROG button for one second, the PRG LED flashes .
3. Press and release a button on a transmitter.
If the button is accepted the PRG LED turns on  and the buzzer sounds off for one second.
If the button has been previously saved or the maximum number of registered users is exceeded the PRG LED flashes quickly  and the buzzer sounds off seven times.
4. Set all the Dip switches down to the off position.

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A maximum of 25 individual buttons can be saved.

REMOVE ALL TRANSMITTERS

1. Set the Dip switches

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2. Press the PROG button for five seconds.
Once deletion is complete, the PRG LED stays lit  and buzzer sounds off for one second.
3. Set all the Dip switches down to the off position.

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**SHOULD THE TRANSMITTER NOT OPERATE AS SUGGESTED ABOVE,
CALL CAME HELPLINE 0115 921 0430 FOR TECHNICAL SUPPORT.**

SAFETY INPUTS

FUNCTIONS > C1 Input, CX Input

C1 REOPENING DURING CLOSING

- When the automation is in its closing cycle and the safety circuit is triggered the automation will stop and reverse its motion until it reaches its fully open position again.
- If the auto closing option is enabled and the safety is no longer triggered the auto closing countdown will commence, once completed the automation will start the closing cycle again.
- If the auto closing option is not enabled the automation will return to the fully open position awaiting another activation from a command device.

CX PARTIAL STOP

- When the automation is in its opening cycle and the safety circuit is triggered the automation will stop.
- If the auto closing option is enabled and the safety is no longer triggered the auto closing countdown will commence, once completed the automation will start closing the device.

OR

CX OBSTRUCTION WAIT

- When the automation is in its opening cycle or automatic closing countdown and a safety activate/deactivate cycle is detected the automation immediately starts to close once the opening cycle has completed.
- If no other safety circuits are operational the automation will not stop for an obstruction and will fully close.

The above sequence will be attempted 3 times before the automation is halted, the automation will then require activation from a command device to restart.



If during the reverse motion a different safety is triggered the automation will perform the appropriate action for the new triggered safety, should multiple safeties be triggered at the same time the automation will be halted at its current position.

AXL-P: ACCESSORIES



	Code(s)	Description
RADIO KEYPAD SELECTORS		
	806SL-0170	SELT1W4G - Surface-mounted, 433.92 MHz radio-frequency keypad selector, 12-keys, with blue backlighting. 25 savable codes and password to access the programming mode. Settable in Rolling Code or Fixed Code mode. RAL7024 Grey colour.
	806SL-0180	SELT1W8G - Surface-mounted, 868.35 MHz radio-frequency keypad selector, 12-keys, with blue backlighting. 25 savable codes and password to access the programming mode. Settable in Rolling Code or Fixed Code mode. RAL7024 Grey colour.
	001AF868	Plug-in 868.35 MHz radio frequency control card. Required for 806SL-0180.
BLUETOOTH SELECTORS		
	806SL-0210	SELB1SDG1 - Surface-mounted with blue backlighting, for 15 users. RAL7024 Grey colour.
	806SL-0240	SELB1SDG2 - Surface-mounted with blue backlighting, for 50 users. RAL7024 Grey colour.
	806SL-0250	SELB1SDG3 - Surface-mounted with blue backlighting, for 250 users. RAL7024 Grey colour.
HARDWIRED KEYPAD SELECTORS		
	806SL-0280	SELT1BDG - Surface-mounted 12 button Bus keypad with blue backlighting. RAL7024 Grey colour.
	806SL-0290	SELT2BDG - Flush-mounted 12 button Bus keypad with blue backlighting. RAL7024 Grey colour.
	001R800	Control board for programming and access-control management via keypad selectors. Required for 806SL-0280 and 806SL-0290.
TOP - FIXED CODE		
	8K06TS-002	TOPD4FXM - pack of 6 dual-frequency 4 button transmitters with self-learning function.
PHOTOCELLS		
	Surface mounted. Synchronised beam, multiple pairs of photocells can be applied to the same system, even at double height and/or close to each other - with no interference issues (cross talk).	
	001DIR10	Pair of 12 - 24 V AC - DC outdoor photocells - range 10m.
	001DIR20	Pair of 12 - 24 V AC - DC outdoor photocells - range 20m.
	001DIR30	Pair of 12 - 24 V AC - DC outdoor photocells - range 30m.
PHOTOCELL COLUMN		
	001DIRL	Natural finish aluminium post. H = 500mm
	001DIRLN	Black anodised aluminium post. H = 500mm
	001DIRCG	Silver RAL9006, PVC post. H = 500mm

FOR MORE KIT ACCESSORIES PLEASE CONTACT SALES ON 0115 9210 430

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