CAME ATS-S3 KIT Complete Kit for a Single Swing Gate User Guide

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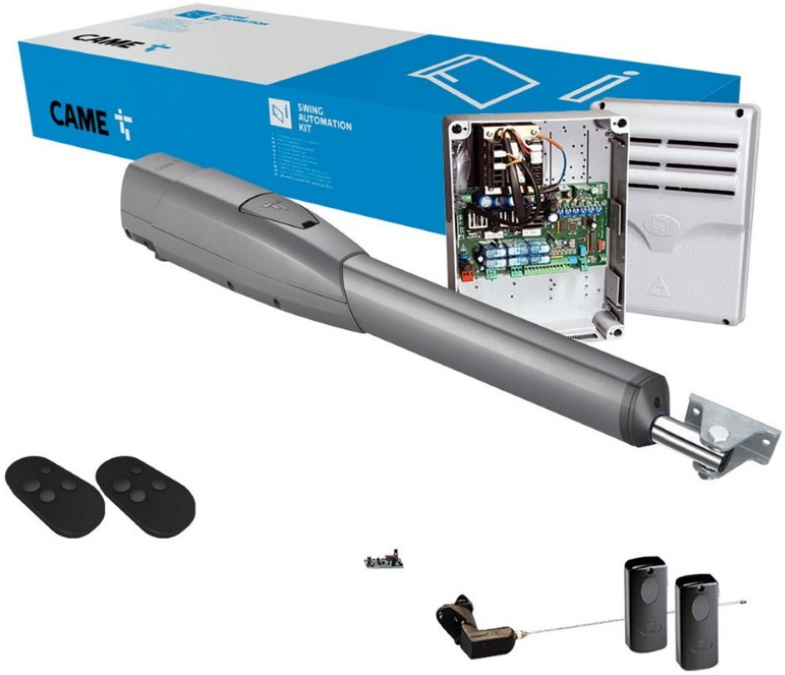


Contents

KIT CONTENTS

- **ATS30AGS** Motor

- **ZA3P** Control Pane

- **AF43S** Radio Frequency Card

- **TOPD4FKS** Fixed code Transmitter

- **top-a433n** Tuned Antenna

- **DIR10** Pair of Photocells

SAFETY INSTRUCTIONS

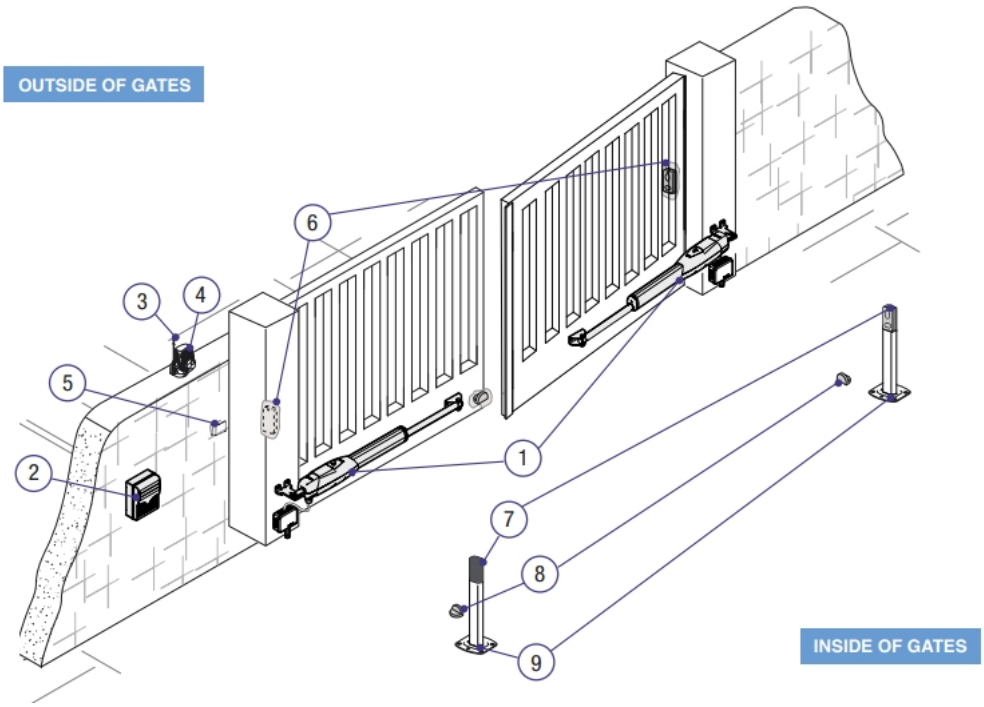
When correctly installed in compliance to installation instructions and adhering to all current electrical, mechanical and manufacturer regulations, your automation system will provide a high degree of safety

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

TYPICAL GATE SETUP



1. ATS Motor
2. Flashing Light (optional)
3. 7 2nd set of Photocells (optional)
4. Control Panel
5. Selector Keypad (optional)
6. Photocells (on outside of gate posts)
7. Reception Antenna
8. Mechanical End Stop (not supplied)
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 ingression 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.

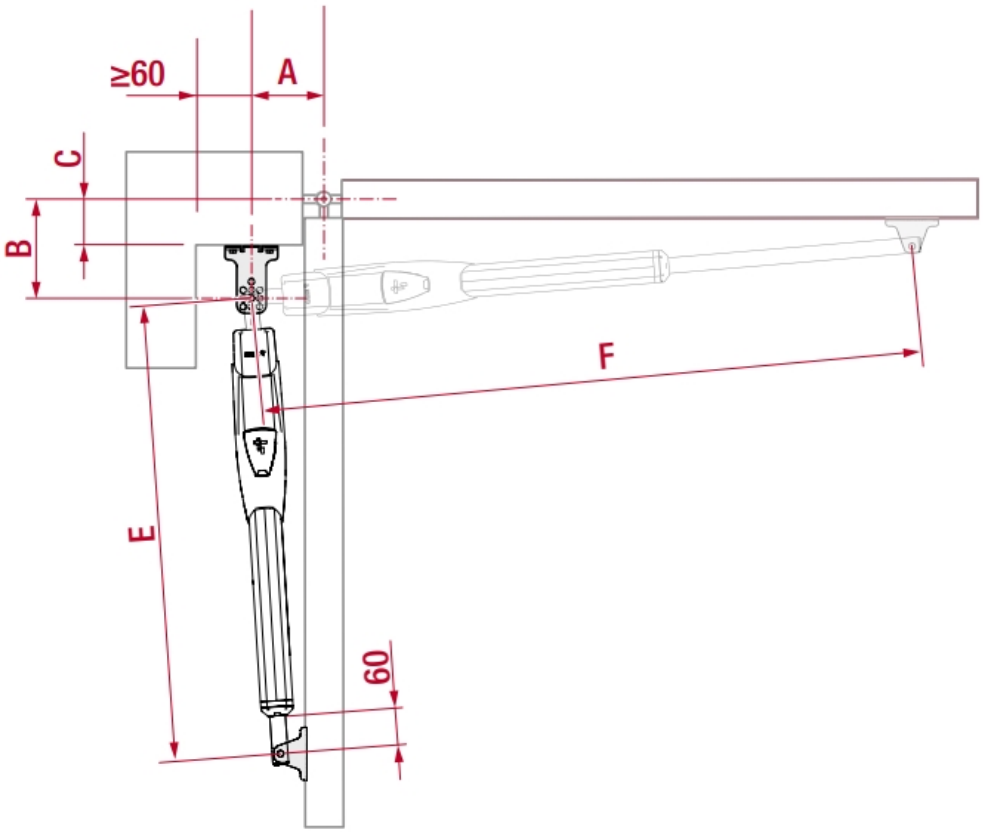
GEOMETRY

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

Side hung gate GEOMETRY (3m)

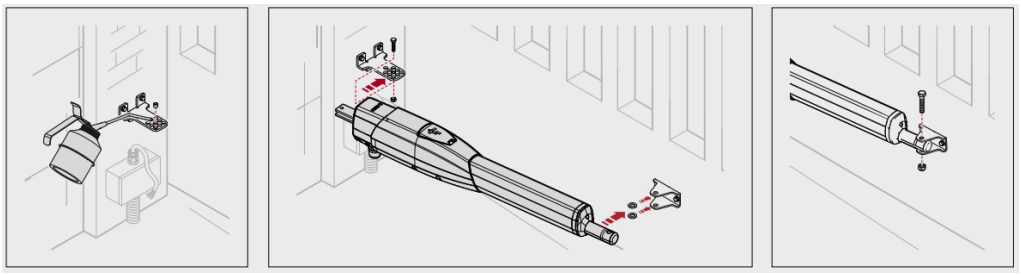
Opening	A (mm)	B (mm)	E (mm)	F (mm)	C max. (mm)
90°	130	130	960	1220	50
90°	150	220	910	1290	150
90°	120	270	890	1300	200
120°	180	130	910	1300	50



- 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.

OUTward OPENING gates
For outward opening gate geometry please refer to the full Installation Manual.

- 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.

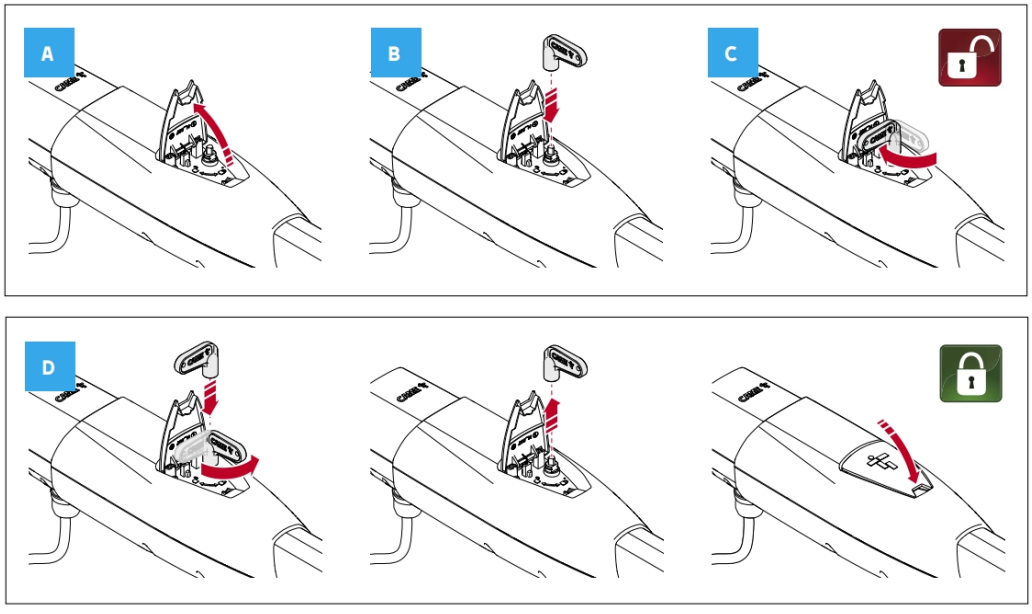


MANUAL RELEASE

The ATS telescopic swing gate operators have a manual release lock beneath a hatch on the top of the motors.

To manually release the gates:

1. Open the hatch covering the lock **(A) .**
2. Insert release key into lock **(B)** and turn clockwise **(C) .**
3. With your other hand firmly open the gate. The gate should be manually released. Now fully open the gate carefully at the same speed as the automatic operator.
4. To re-engage, close the gate and turn the key back to its original position **(D).** Attempt to manually move the gate to ensure it is fully engaged.



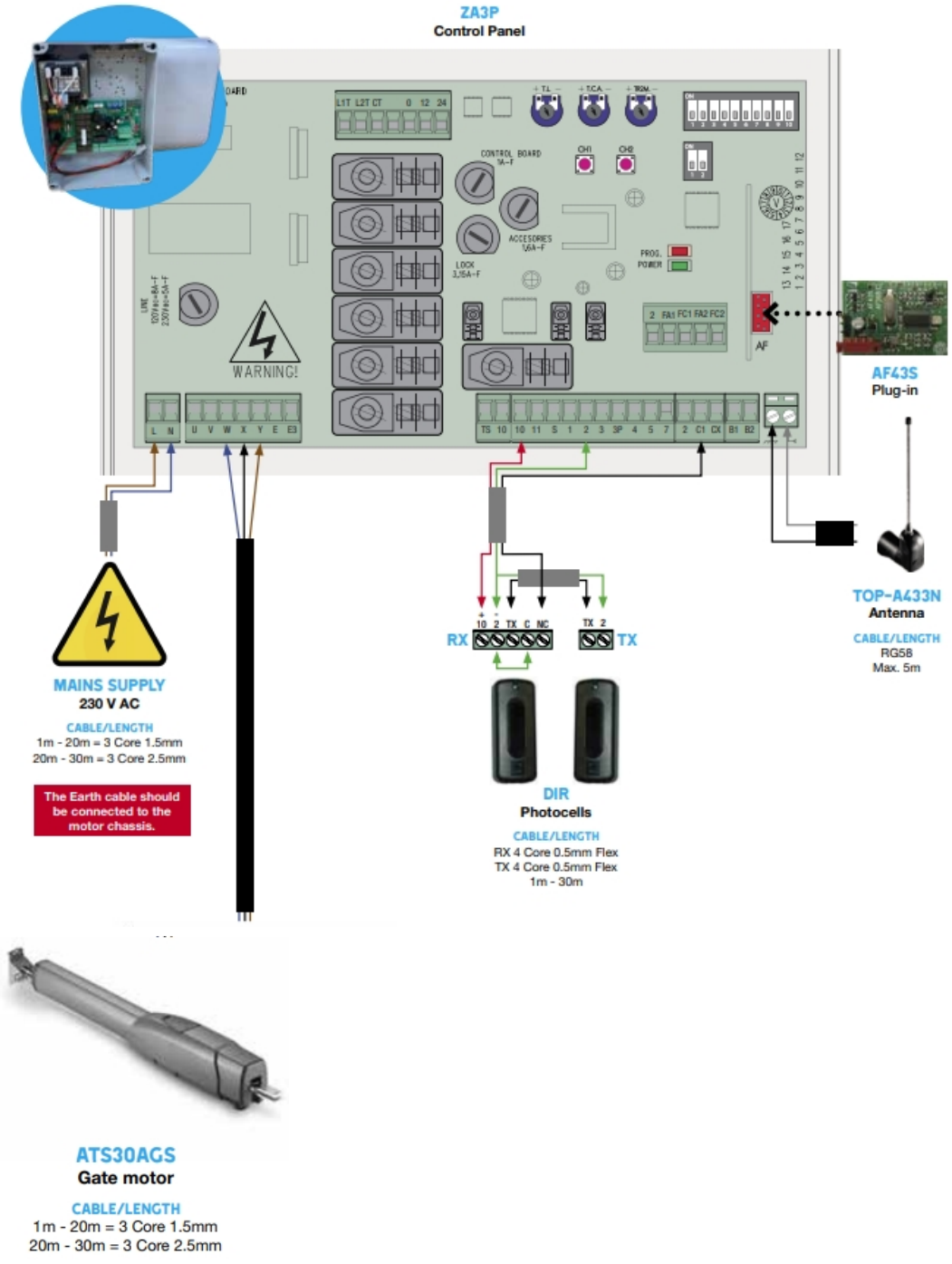
⚠ ALWAYS isolate the power supply as instructed by your installer (even in a power cut).

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

Basic Maintenance: Hints & Tips

- Open manual release cover & spray locking mechanism with suitable penetrating lubricant.
- Lubricate gate hinges.
- Manually release the gates at least once per month.

wiring diagram

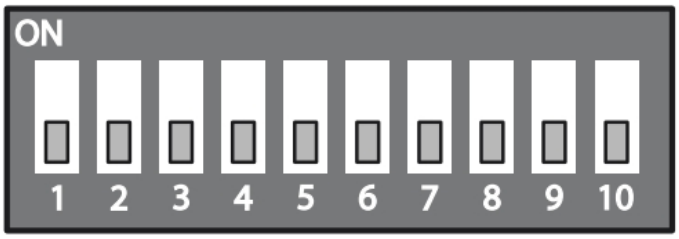


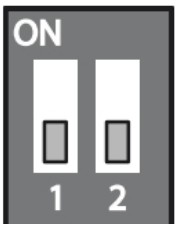
QUICK START GUIDE

Important:
The installation must be carried out by skilled and qualified personnel

Potentiometers

Dip Switches





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 – Permanent link wire between terminal **1 & 2**.
3. If no safety device has been connected to the **C1** terminal then disable the safety input **C1** – Permanent link wire between terminal **2 & C1.**
4. Disable safety input **CX** – Dip switch **8** on.
5. Set all other dip switches off.
6. Check the motor direction Enable maintained action – Dip switch **6** on. Hold a wire between terminal **2 & 3**. The gate should open, if not reverse the motor cables for motor 2 (Connections X, Y) Disable maintained action – Dip switch 6 off
7. Set the ATS microswitch end stops Unlock the motor on the manual release Adjust the TL potentiometer to the maximum clockwise position.
   Set the gate to its closed position
   Send a closing command pulse using a link wire between terminal **2 & 4**. While the motor is running, turn the rod marked **C** anticlockwise until the motor stops running.
   Set the gates to its open positions Send an opening command pulse using a link wire between terminal **2 & 3.** While the motor is running, turn the rod marked **A** clockwise until the motor stops running.

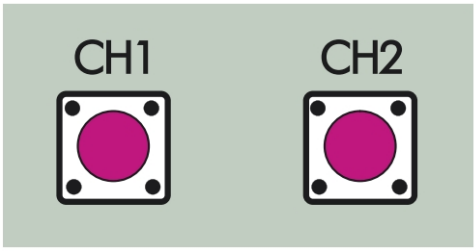
Note. 20 complete turns of the rod is equal to 10mm of movement of the micro switch. By default the motor run time is set to 120s, if the motor times out before the micro switch has been reached an additional command will need to be sent to start the motor running again so that the micro switch setup can be completed.

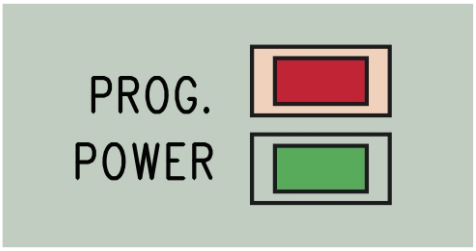
8. Set the TRM2 potentiometer all the way to minus (Anticlockwise).
9. Adjust the TL potentiometer to the 4 O'clock position
10. Check the gate operation by pulsing across connections **2 & 4**, the gate will close.

⚠ Safety inputs should now be configured and the gate force tested as required. Please refer to the full manual to complete the commissioning.

Transmitters

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





Add a transmitter button

1. Press and hold the CH1 button, the PROG. LED starts fl ashing rapidly.
2. While keeping the CH1 button held down press and release a button on a transmitter The PROG. LED goes solid to signal the successful saving of the code.
3. Release the CH1 key
   A maximum of 25 individual buttons can be saved.

Remove all transmitters

1. Press and hold the CH1 and CH2 buttons simultaneously until the PROG. LED stays lit All previously saved transmitter buttons will be removed from the memory of the control board.

SAFETY

SAFETY INPUTS

FUNCTIONS > C1 Input, CX Input

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.

RECLOSING DURING OPENING

- When the automation is in its opening cycle and the safety circuit is triggered the automation will stop and reverse its motion until it reaches its fully closed position again.
- Once the automation has reached the fully closed position it will require another activation from a command device to restart

PARTIAL STOP

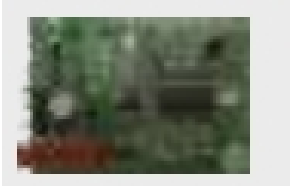
- When the automation is in its opening cycle and the safety circuit is triggered the automation will stop.

- 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.

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.

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 c

	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.
	806SL-0370	S0002P – External, two channel, 12 – 24 V AC – DC IP54 control card for keypads. 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 S	Silver RAL9006, PVC post. H = 500 mm

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is certified for Quality and Environment
UNI EN ISO 9001
UNI EN ISO 14001
BS OHSAS 18001

Documents / Resources

	CAME ATS-S3 KIT Complete Kit for a Single Swing Gate [pdf] User Guide ATS-S3 KIT Complete Kit for a Single Swing Gate, ATS-S3 KIT, Complete Kit for a Single Swing Gate, Complete Kit, Single Swing Gate Complete Kit, Swing Gate Complete Kit, Single Swing Gate, Swing Gate