

For dimensions of the 300mm model please contact us directly

Installer Instructions



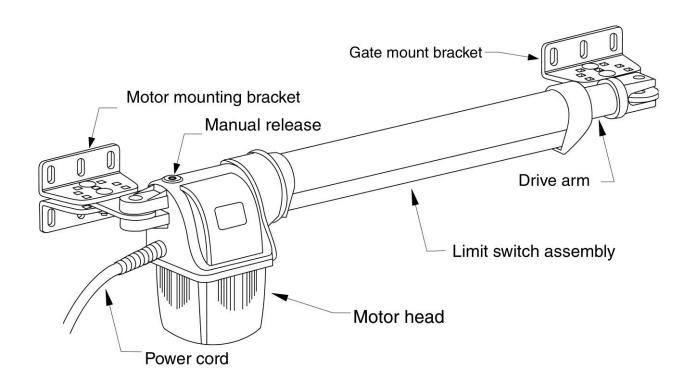
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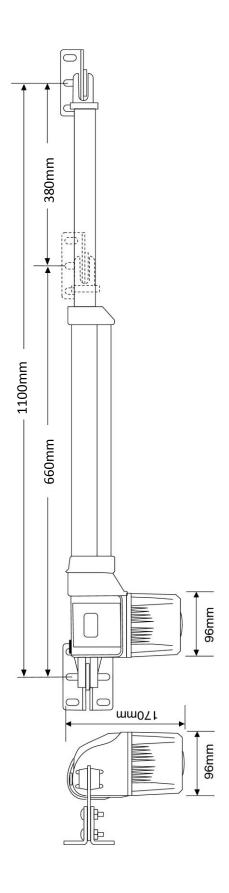
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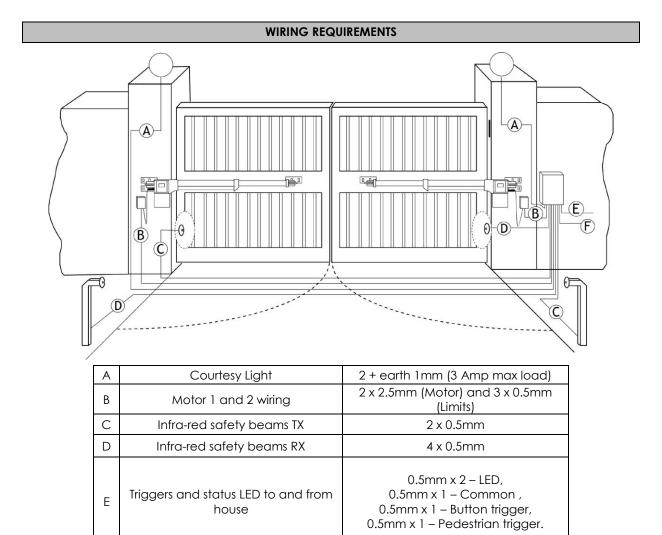
WARNING TO THE INSTALLER. GENERAL SAFETY OBLIGATIONS.

- Caution! It is important for personal safety to follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
- Keep the instructions in a safe place for future reference.
- This product was designed and manufactured strictly for the use indicated in this documentation. Any
 other use not expressly indicated in this documentation, may damage the product and/or be a source of
 danger.
- We accept no responsibility due to improper use of this product.
- Care must be taken not to install this product in an unsafe environment. I.e. near inflammable gases and or fumes.
- We will not accept responsibility if the principles of good workmanship are disregarded by the installer. The
 construction of the gate must be sound and automatable. It is the responsibility of the installer to ensure
 that all mountings to the gate are sufficient to withstand the necessary forces in cases of overload.
- Before carrying out any work on the product, ensure that the electrical supply is switched off.
- It is highly recommended that a set of safety infra-red beams be used in conjunction with this product.
- We accept no responsibility regarding safety and correct operation of the automation if other manufacturer's equipment is added to this product.
- Do not make any modifications or alterations to this product.
- It is the responsibility of the installer/ service provider to completely instruct and demonstrate the proper use of this product, especially the emergency override, to the end user. It is also the responsibility of the installer/ service provider to issue all end user documentation, which accompanies this product, to the end user.
- Ensure that other persons, especially children are clear of the gate and opener before and during operation.
- Keep remote transmitters away from children to prevent accidental activation of the system.
- The end user should refrain from attempting to make any repairs or adjustments to the system and should contact professional qualified assistance timorously.
- Anything other than expressly provided for in these instructions is not permitted.
- The electrical supply to this product must comply with the local electrical code of practice and any electrical work must be carried out by a qualified electrician.
- Over and above the recommendation to use safety infra-red beams with this product it is mandatory to
 ensure sufficient beam sets are installed and are in proper working condition when using the automatic
 closing feature.

Technical specifications			
POWER SUPPLY AT GATE	29V AC		
POWER CONSUMPTION	< 30W (250Vac)		
MOTOR VOLTAGE	24V DC		
max. drive arm speed	16mm/sec		
OPERATIONS PER DAY	100		
OPERATING TEMPERATURE RANGE	-10 / +50° C		
anti-crushing safety sensing	ELECTRONIC		
MAXIMUM GATE LEAF LENGTH	2.5 meters		
MAXIMUM GATE MASS	200kg		
AUXILIARY OUTPUT FOR ANCILLIARIES (Peak)	12V DC at 300mA Automatic overload protection		
RATED BATTERY CHARGING VOLTAGE	27.5V DC		
BUILT IN RECEIVER FORMAT	Keeloq ® Rolling code		
RECEIVER FREQUENCY	433.92MHz		





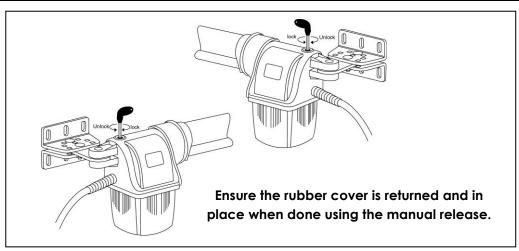


USING THE MANUAL RELEASE

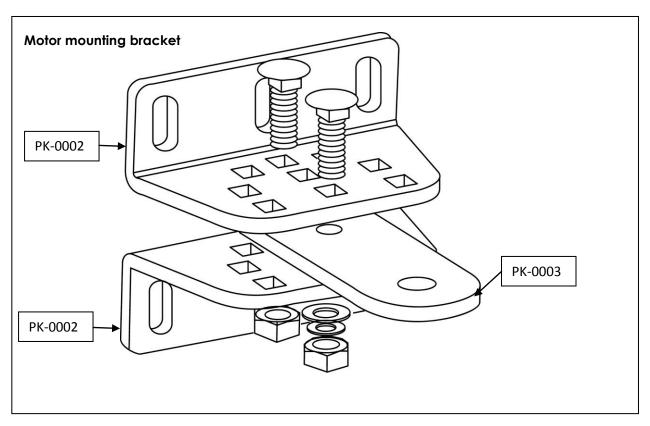
2 + earth 2.5mm

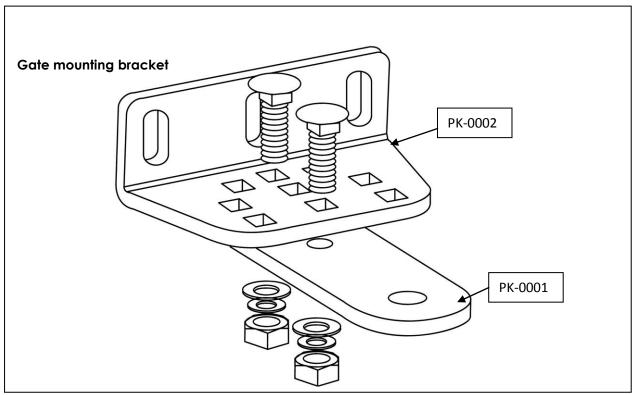
Vac supply from house

F

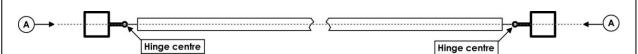


ASSEMBLING THE MOUNTING BRACKETS

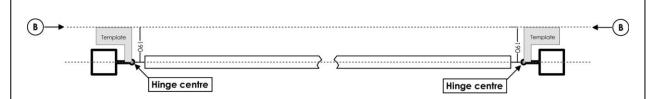




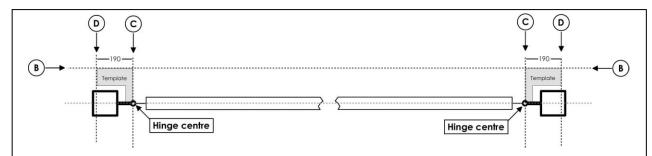
INWARD SWING INSTALLATION METHOD



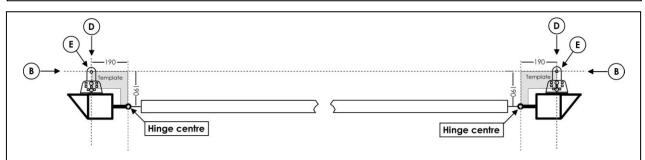
A) Using a chalk line project a line through the **centre** of each **hinge** as shown here. This is the **origin line**.



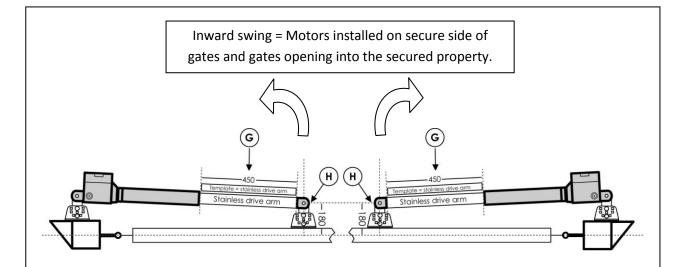
B) Using the template, supplied, or a tape measure, mark off a **setup line** parallel to the **origin line**. This **setup line** must be **190mm** away from the **origin line** on the secure side of the gates.



- **C)** Once again use the **centre** of each **hinge** to start measuring from.
- **D)** Measure along the setup line **190mm** away from the driveway. Use your template or a tape measure to do this. This should give you a point exactly 45° to the hinge.



E) Prepare the motor mount brackets as per page 5. Then mount the brackets so that the **motor pivot point** is **centred** over **(B and D)** on the **setup line**.

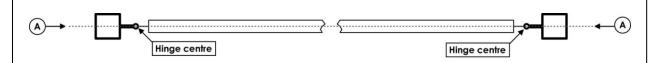


- F) Install the motor on the motor mount bracket. Using the manual override key, unlock the gearbox.
- **G)** Extend the **stainless drive arm** until the amount of **exposed stainless** equals **450mm**. Use a tape measure or the template supplied for this.
- Make up the gate mount bracket as per page 5 and install it on the gate mount end of the drive arm. Next swing the gate into the closed position (Directly over the origin line (A)). With the gate in the closed position swing the motor towards the gate to find the gate mount bracket mounting position. The distance between the gate mount bracket pivot point and the origin line should never exceed 180mm for this model. Thereby always ensuring the motor ends in a bracing position when open or closed. If the motor does not brace into the gate the positive locking angle will be ineffective making it easy to force the gate open.

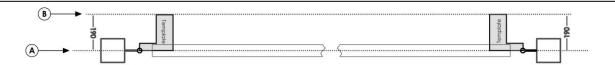
Engage the motor and run it directly off the battery to see if there is any stutter or binding in the gate movement. The time for the gate to swing to 45° in either direction should equal the time it takes to swing from 45° to the final 90°.

If satisfied with the motor position and the movement of the gate, remove the motor again and using a welder weld the bracket components together to prevent shifting in the future. If possible the brackets should also be welded to the gates and posts for the same reason.

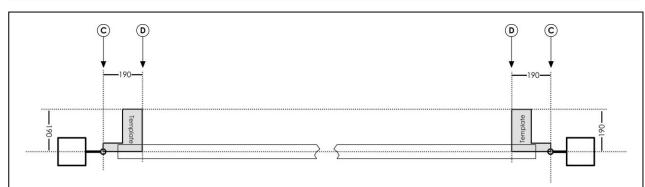
OUTWARD SWING INSTALLATION METHOD.



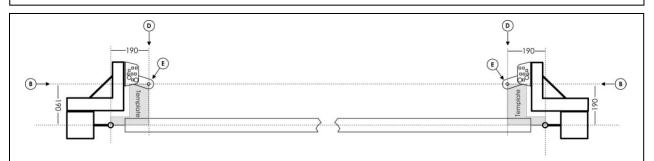
A) Using a chalk line project a line through the **centre** of each **hinge** as shown here. This is the **origin line**.



B) Using the template, supplied, or a tape measure, mark off a **setup line** parallel to the **origin line**. This **setup line** must be **190mm** away from the **origin line** on the secure side of the gates.



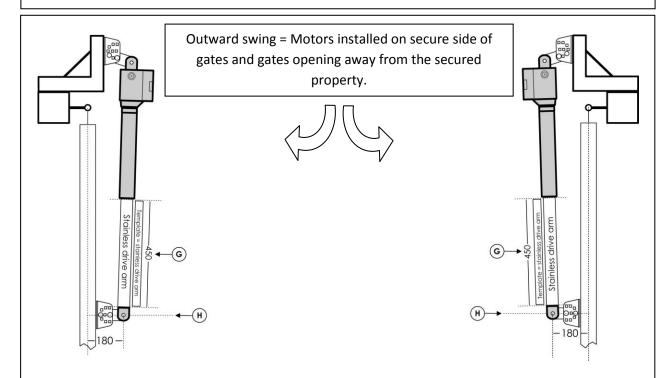
- **C)** Once again use the **centre** of each **hinge** to start measuring from.
- **D)** Measure along the setup line **190mm** towards the driveway. Use your template or a tape measure to do this. This should give you a point exactly 45° to the hinge.



E) Prepare the motor mount brackets as per page 5. Then mount the brackets so that the **motor pivot point** is **centred** over **(B and D)** on the **setup line**. For outward swings you will need to make up additional brackets as shown above to position the motor mounting brackets in position.

F) Make up the gate mount bracket as per page 5 and install it on the gate mount end of the drive arm.

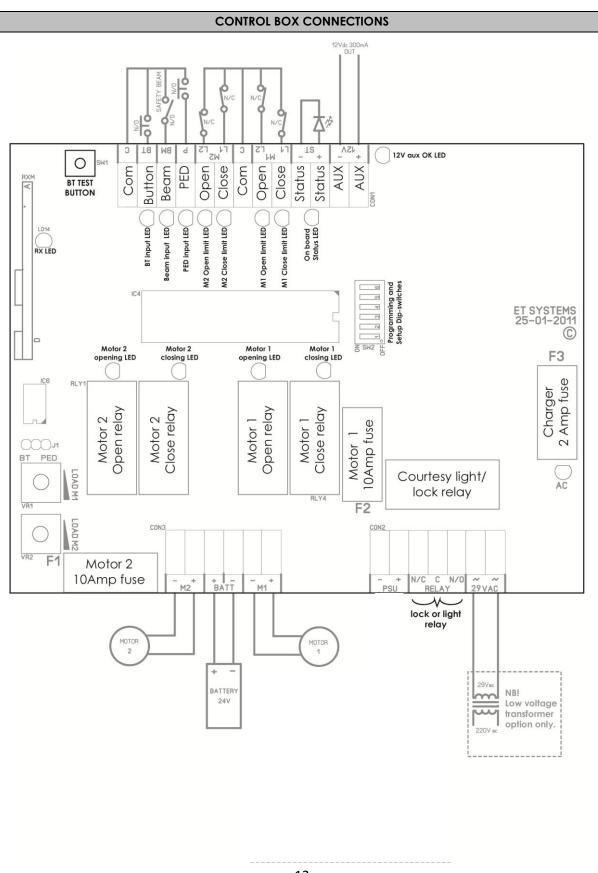
Install the motor on the motor mount bracket. Using the manual override key, unlock the gearbox.



- **G)** Extend the **stainless drive arm** until the amount of **exposed stainless** equals **450mm**. Use a tape measure or the template supplied for this.
- **H)** Next swing the gate into the full open position. With the gate in the open position swing the motor towards the gate to find the gate mount bracket mounting position. The distance between the gate mount bracket pivot point and the hinge centre line should never exceed 180mm for this model. Thereby always ensuring the motor ends in a bracing position when open or closed. If the motor does not brace into the gate the positive locking angle will be ineffective making it easy to force the gate open.

Engage the motor and run it directly off the battery to see if there is any stutter or binding in the gate movement. The time for the gate to swing to 45° in either direction should equal the time it takes to swing from 45° to the final 90°.

If satisfied with the motor position and the movement of the gate, remove the motor again and using a welder weld the bracket components together to prevent shifting in the future. If possible the brackets should also be welded to the gates and posts for the same reason.



LIMIT SWITCHES AND MOTOR WIRING

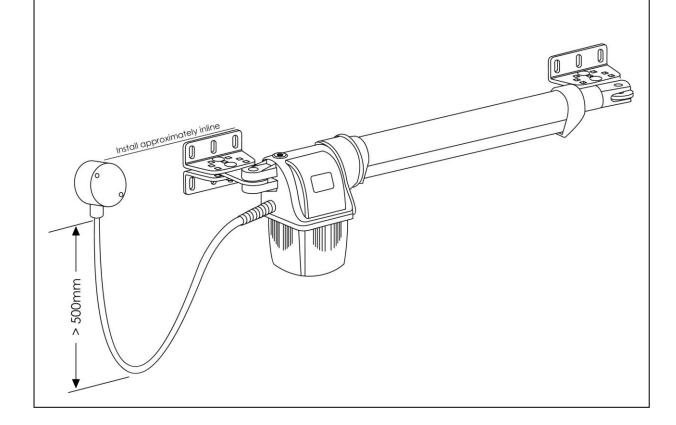
NB!! A linear type motor such as the 90 Blue Plus swings in conjunction with the gate it is operating. This means the cable transferring the motor and limit switch circuits to and from the motor must also move. If sufficient slack is not allowed for the cable to flex and move, the cabled circuits can and will be damaged in this section of the circuit. Please ensure the cable is installed as per the following diagram to prevent unnecessary strain on the cable.

Do not trim the motor cables.

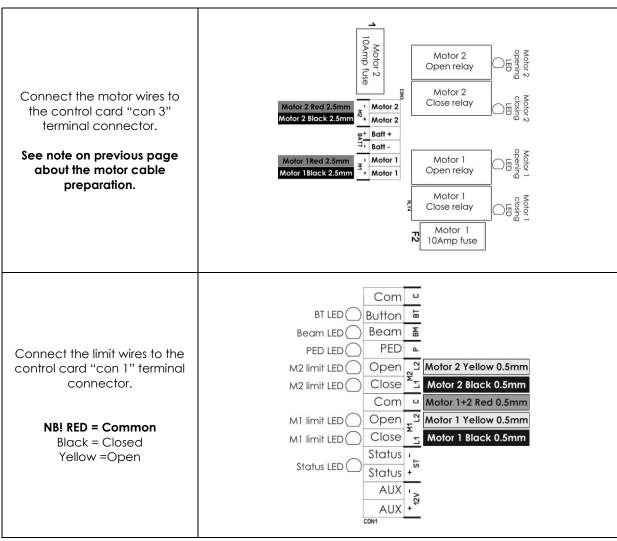
Do not cable tie, tape or fasten the cables to any fixed point.

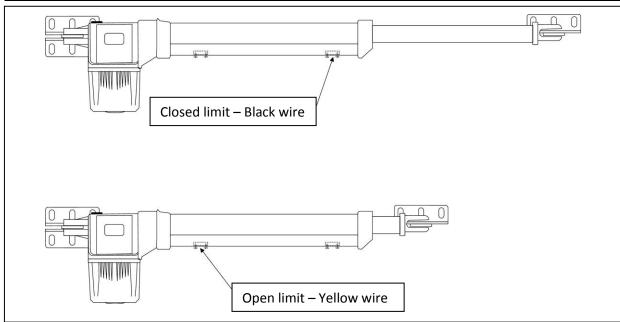
Always allow the cables to hang naturally and free.

Ensure the cables do not snag or catch on anything as the gates swing back and forth.

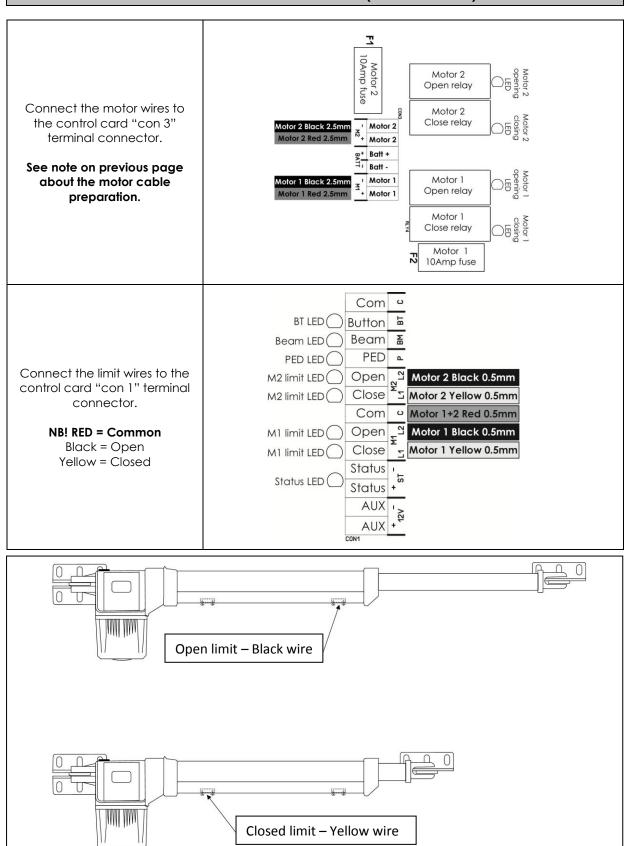


LIMIT SWITCHES AND MOTOR WIRING (INWARD SWING)





LIMIT SWITCHES AND MOTOR WIRING (OUTWARD SWING)



VISUAL SETTING OF THE LIMIT SWITCHES

1. Activate the manual override on both motors. 2. Close the gate. 2. Close the gate. Limit magnet attached to the drive arm approaches closed limit. The reed switch can now be slid along the switch holder. Be careful not to rip the limit and motor wiring" on pages 12 and 13 4. Slide the closed reed switch. Side the closed reed switch bolder, Be careful not to rip the limit wires by pulling to hard when moving the switch holder. Be careful not to rip the limit tell or use the Audible limit test function explained on page 15. 5. When satisfied with the limit position, lightly tighten the locking screws to keep the reed-switch in place. Move the gates to the open position and repeat for the open limits. Motor 1's limit LED indication. Off when activated. Closed limit Open Limit limit LED Open 3 M2 limit LED Open 3 M2 limit LED Open 3 M3 limit LED Open 3 M4 limit LED Open 3 M5 limit LED Open 3 M6 limit LED Open 3 M6 limit LED Open 3 M7 limit LED Open 3 M8 limit LED	Action					Response
3. Loosen the locking screws on the closed reed switch. For this example the inward swing is shown. Refer to "limit and motor wiring" on pages 12 and 13 4. Slide the closed reed-switch along while monitoring the LI limit LED or use the Audible limit test function explained on page 15. 5. When satisfied with the limit position, lightly fighten the locking screws to keep the reed-switch in place. Move the gates to the open position and repeat for the open limits. Motor 1's limit LED indication. Off when activated. Closed limit Open limit Closed Limit Open Limit LED open 3 M2 limit LED Open 3 M3 limit LED Open 3 M3 limit LED Open 3 M4 limit LED Open 3 M5 limit LED Open 3 M6 limit LED Open 3 M7 limit LED Open 3 M8					It is now possil	
on the closed reed switch. For this example the inward swing is shown. Refer to "limit and motor wiring" on pages 12 and 13 4. Slide the closed reed-switch along while monitoring the L1 limit LED or use the Audible limit test function explained on page 15. 5. When satisfied with the limit position, lightly tighten the locking screws to keep the reed-switch in place. Move the gates to the open position and repeat for the open limits. Motor 1's limit LED indication. Off when activated. Closed limit Open limit Closed Limit Open Limit Closed Limit Open Limit Open Limit Death of pep Led PED	2. Close the gate.					
switch along while monitoring the L1 limit LED or use the Audible limit test function explained on page 15. 5. When satisfied with the limit position, lightly tighten the locking screws to keep the reed-switch in place. Move the gates to the open position and repeat for the open limits. Motor 1's limit LED indication. Off when activated. Closed limit Open limit Open limit Closed Limit Open Limit Open Limit Beam LED Beam Beam LED PED Beam M2 limit LED Open M3 M3 limit LED Open M4 limit LED Open M4 limit LED Open M5 M4 limit LED Open M4 limit LED Open M5 M4 limit LED Open M5 M4 limit LED Open M5 M4 limit LED Open M6 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open M6 limit LED Open M7 M1 limit LED Open	on the closed reed switch. For this example the inward swing is shown. Refer to "limit and motor wiring" on pages				the switch ho the limit wires	lder. Be careful not to rip by pulling to hard when
position, lightly tighten the locking screws to keep the reed-switch in place. Move the gates to the open position and repeat for the open limits. Motor 1's limit LED indication. Off when activated. Closed limit Open limit Closed Limit Open Limit Open Limit Open Limit BT LED Button be Beam beam LED Open beam beam	switch along while monitoring the L1 limit LED or use the Audible limit test function					
Motor 1's limit LED indication. Off when activated. Closed limit Open limit Closed Limit Open Limit Open Limit Closed Limit Open Limit Open Limit BT LED Button Beam Beam LED Beam Beam LED Beam Beam LED Beam Beam LED PED AM2 limit LED Open M2 limit LED Open M2 limit LED Open M2 limit LED Open M3 M2 limit LED Open M4 limit LED Open M4 limit LED Open M5 M4 limit LED Open M4 limit LED Open M5 Status M6 Status M6 Status M7 Status LED Status M6 Status M7 Status M8 Stat	position, lightly tighten the locking screws to keep the					
Closed limit Closed Limit Com Com BT LED Button Beam LED Beam ED Be	Move t	he go	ates to the open positi	ion and rep	peat for the ope	n limits.
BT LED Button Beam ED Beam Beam Beam ED Beam Beam ED Beam Beam ED PED a PED LED PED a M2 limit LED Open M2 limit LED Open M2 limit LED Open M3 limit LED Open M4 limit LED Open M5 Status LED Status AUX	Motor 1's limit LED indica	tion. (Off when activated.	Motor 2	s limit LED indica	tion. Off when activated.
BT LED Button Beam ED Beam Beam LED Beam LED Beam LED Beam Beam LED Beam Beam LED Beam LED Beam LED Beam Beam LED Beam Beam LED Be	Closed limit		Open limit	Clo	sed Limit	Open Limit
	BT LED Button Beam Beam LED Beam Beam LED PED a PED A Close Status Status LED Status AUX AUX AUX AUX	M2 M2 M1 M1	BT LED Button be seam LED Beam Beam Beam Beam Beam Beam Beam Beam	Beam LE PED LE M2 limit LE M2 limit LE M1 limit LE	Button be Beam Beam Beam Beam Beam Beam Beam Bea	BT LED Button Beam LED Beam LED Beam LED PED LED PED LED PED LED Close LED Com Status LED Status LED Status LED Status LED AUX

AUDIBLE SETTING OF THE LIMIT SWITCHES AND TESTING THE LIMIT WIRING				
Action			Response	
Unlock motors and move gates manually to middle of travel.				
Enter program mode by switching dipswitch 6 on only.			2 beeps	
3. Press and release BT button.			Single beep tone and both motor 1 opening and closing LEDs come on indicating Motor 1inputs are being tested.	
4. Move gate 1 by hand to the closed position.	Single beep tone to indicate the correct closed limit has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.			
5. Move gate 1 by hand to the open position.	Double beep tone to indicate the correct open limit input has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.			
6. Press and release BT button.	Double beep tone and both motor 2 opening and closing LEDs come on indicating Motor 2 inputs are being tested.		ening and closing LEDs come on cating Motor 2 inputs are being	
7. Move gate 2 by hand to the closed position.	Single beep tone to indicate the correct closed limit has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.			
8. Move gate 2 by hand to the open position.	Double beep tone to indicate the correct open limit input has been activated, followed by a continuous tone as long as the switch is activated. Fine tune if necessary.			
Any multiple beeps at any stage indicate faulty wiring or limit switches.				
9. Switch 6 off to exit limit position test mode.				

TESTING THE GATE MOTOR DIRECTION WIRING

GATES MUST CLOSE FIRST!

Enter program mode by switching dip-switch 6 on only.	ON DE CONTRACTOR OF THE CONTRA	2 beeps
2. Switch dip-switch 5 on.	2 3 4 5 5 6 1 1 2 3 4 5 5 6 1 1 1 2 3 4 5 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3. Manually move the gates to middle of travel and relock.		
3. Press and hold BT button		Gates must run closed. If the gates begin opening release button to stop running. Then swap motor RED and BLK 2.5mm wires over.

PROGRAMMING OF TIMERS

AUTO-CLOSE TIMER:-

(Only use auto-close functions when safety beams have been installed)

(Default = 15sec.)

NB! The auto-close mode type must still be selected after all programming is completed.

(See operating mode selection on page 30 and 31)

Action		Response	
Enter program mode by switching dip-switch 6 on only.	ON DP CON	2 beeps	
2. Dip-switch 1 on	0N DP C		
3. Press and hold BT button, count beeps for required time.		1 = 1sec. 2 = 2sec. cont. 255 = 4 min 25 sec. (Max)	
4. Release BT button at required auto-close time		Continuous beep	
5. Dip-switch 1 off	ON DE STATE ON DE	Continuous beep stops	
To change the time again without leaving programming, repeat from point 2.			

Switch dip-switch 6 off or continue to another programming option.

NB! This does not activate the Auto-close function. For this see selecting operating modes on page 30 and 31.

PEDESTRIAN OPENING AND AUTO-CLOSE TIME:-

(Only use auto-close functions when safety beams have been installed)

(Default = Motor 1 opens fully and 5sec. auto-close time)

Enter program mode by switching dip-switch 6 on only.	Response 2 beeps		
2. Dip-switch 2 on			
3. Press and release BT button.	Motor 1 closes if not closed already.		
4. From the closed position n	notor 1 will begin opening.		
5. Press and release the BT button when the required opening distance is reached.	Motor 1 stops opening.		
6. Press and hold BT button, count beeps for required auto-close time.	1 = 1sec. 2 = 2sec. cont. 255 = 4min 25 sec. (Max)		
7. Release BT button at required pedestrian autoclose time	Gate closes after which the buzzer emits a continuous beep tone.		
8. Dip-switch 2 off	Continuous beep tone stops		
To change the settings again without leaving programming, repeat from point 2.			
Switch dip-switch 6 off or continue to another programming option.			

DELAY TIME:-(Used when gates overlap each other)

(Default = 3sec.)

NB! The delay between gates must still be selected after all programming is completed. (See operating mode selection on page 31)

Action		Response	
Enter program mode by switching dip-switch 6 on only.	NO 00 00 00 00 00 00 00 00 00 00 00 00 00	2 beeps	
2. Dip-switch 3 on	ON DP G		
3. Press and hold BT button, count beeps for required time.	W OF THE STATE OF	1 = 1sec. 2 = 2sec. cont. 255 = 4min25 sec. (Max)	
4. Release BT button at required delay time	B	Continuous beep	
5. Dip-switch 3 off	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Continuous beep stops	
To change the time again without leaving programming, repeat from point 2.			
	itch 6 off or continue to another		
NB! This does not activate the delay function. For this see selecting operating modes on page 31			

COURTESY LIGHT ON TIME:-

(Default = 4 minutes.) See page 32 Lock mode selection.

Action		Response	
1. Enter program mode by switching dip-switch 6 on only.	ON DP 6	2 beeps	
2. Dip-switch 4 on	ON DP 6		
3. Press and hold BT button, count beeps for required time.		1 = 1 min. 2 = 2 min. cont. 255 = 4h25 min. (Max)	
4. Release BT button at required courtesy light on time		Continuous beep	
5. Dip-switch 4 off	ON DP C	Continuous beep stops	
To change the time again without leaving programming, repeat from point 2.			
Switch dip-switch 6 off or continue to another programming option.			

CHANGING SWITCH TYPE FOR SAFETY BEAM INPUT:-

Default:- Normally open

Action		Response		
Enter program mode by switching dip-switch 6 on only.	ON DP 0 1 2 3 4 5 6 0	Two beeps		
2. Dip-switch 1 and 2 on	ON ON DP OFF 1 2 3 4 5 6			
3. Press and release Set button		Beeps confirm change 1 = N/C 2 = N/O (Default)		
After confirmation beeps		Continuous beep		
4. Dip-switch 1 and 2 off	ON DP 0 1 2 3 4 5 6 0	Continuous beep off		
To change ag	To change again without leaving programming, repeat from point 2.			
Switch dipswitch 6 off or continue to another programming option				

ADJUSTING SAFETY OBSTRUCTION SENSING:-

Default: - least resistance most sensitive

Action	Response
Rotate Load pot for each motor independently to new sensing level. Motor 1 shown here.	Clockwise = heavier gate resistance less sensitive Anti-clockwise = lighter gate resistance more sensitive
Rotate Load pot for each motor independently to new sensing level. Motor 2 shown here.	Clockwise = heavier gate resistance less sensitive Anti-clockwise = lighter gate resistance more sensitive

Adjusting the load sensing level

Load sensing level should be set to allow the gate to complete a full swing in either direction. However when standing in the gate path and allowing the gate to encounter your shoulder while your feet are braced apart, the gate sensing should stop the gate and respond as per the safety for the direction it was travelling in.

Collision/obstruction/hindrance while opening. (All modes)

If a collision, obstruction or hindrance is encountered before the full open position is reached while opening, both gates will stop, and then only the gate obstructed will back off slightly from the obstruction. The controller then waits for the next trigger input. The status LED will flash rapidly once both gates are stationery. BT trigger clears the status LED indication. For trigger responses see mode selection on page 30.

Collision/obstruction/hindrance while closing. (All modes)

If a collision, obstruction or hindrance is encountered while closing, both gates will stop and reverse to the fully open position. The status LED will flash rapidly once both gates are stationery after opening away from the collision. The next trigger input starts the gates closing. BT trigger clears the status LED indication. For trigger responses see mode selection on page 30.

Consecutive collision lock-out.

In cases of a collision, obstruction or hindrance inhibiting the gate from opening or closing fully to the corresponding limit, four times in a row, the controller will lock out all operation for 3 minutes after which it will beep once to indicate time - out is complete. After this mandatory time – out, attempts can be made to operate the gates again. If the cause of the collision lock-out is not cleared, the system will lock again on the fourth failure to reach the limit switch.

RECEIVER PROGRAMMING: - MASTER ERASE; (Recommended on first time installation)

Action		Response
1. All power off		
2. Short both (P pedestrian a button trigge centre pin (U key-ring supp the transmitte this as shown	nd (BT) r pins to se the selied with ers to do	
3. Power up		(RX) receiver LED flashes rapidly - stops flashing - on continuously.
4. Remove all p	ower	
5. Remove (RX) pin short	receiver	
6. Power up	2000	(RX) receiver LED on

Learning a TX button for (BT) Full opening operation using (RX) receiver pins: - (25 user memory)				
Action		Response		
Press and hold required button	TX	(RX) receiver LED flickers		
Short Centre (RX) receive to (BT) button trigger pin		(RX) receiver LED flashes confirmation 1 flash = First transmitter learnt 2 flashes = Successful there is still memory available Multiple rapid flashes = memory full		
Remove short after confirmation	B C C C C C C C C C C C C C C C C C C C	(RX) receiver LED remains lit in standby		
4. Release transmitter butto	on			

Learning a TX button for (PED) pedestrian ((PED) pedestrian) operation using (RX) receiver pins: - (6 user memory)				
Action		Response		
Press and hold required TX button	12	(RX) receiver led flickers		
Short Centre (RX) receiver pin to (PED) pedestrian pin		(RX) receiver LED flashes confirmation 1 flash = First transmitter learnt 2 flashes = Successful there is still memory available Multiple rapid flashes = memory full		
Remove short after confirmation		(RX) receiver LED remains lit in standby		
Release transmitter button				

OPTIONAL OPERATING MODES

Dip-switch selection



Mode

All off

STOP, START, STOP MODE

When the control is activated using any (BT) button trigger input the gates will open or close and can be stopped in mid cycle using any (BT) button trigger input again.

The gates can then be reversed by activating the (BT) button trigger input again.

In this mode the gates will remain open where they have been stopped by button or open limit until the (BT) button trigger input is activated again. (No auto close)

Party mode is available in this mode. (See additional features below) Holiday lock out is available in this mode. (See additional features below)

Dip-switch selection

ON DP 0 1 2 3 4 5 6 0

Mode

SIMPLE AUTO-CLOSE

(Default 15 sec.)

Dip-switch 1 ON

As per Standard mode above however the following differs: -

The control unit times out the pre-programmed auto-close time from any open position after which it begin closing the gates.

While closing the gates any (BT) button trigger or BM input will stop and reverse the motors direction back towards the full open position.

In any open position while auto-close is timing out a BM input will reset the auto-close timer.

Auto-close override/Party mode is available in this mode. (See additional features below) Holiday lock out is available in this mode. (See additional features below)

In this mode all triggers are ignored while the gates are opening. On reaching the full open position the unit times out the pre-programmed auto-close time after which it will begin closing the gates. If the BM or BT button trigger input is activated while the auto-close timer is running the time will simply reset.

On closing any BT button trigger input or BM input will re-open the gates to the full open position.

USE THIS MODE WHEN CONECTING A LOOP DETECTOR.

This mode excludes Holiday lock-out, Auto-close override/Party mode

Dip-switch selection	Mode
Dip-switch 3 ON	DELAY MODE (Default 3 sec.)

This mode is used when an electric lock is installed to lock the two gates together or one of the gates overlaps the other in the closed position.

From the closed position Motor 1 will begin opening the programmed delay time before Motor 2 (default is 3 seconds). From the open position Motor 2 will begin closing first followed after the delay time by motor 1.

This mode ensures the gates never snarl up in the closed position and can be used where one gate must open further than the other.

Dip-switch selection		Mode
	ON DP	
Dip-switch 4 ON	Pour	STRIKE LOCK MODE

With this mode selected the courtesy light relay becomes an in line switch (N/O) to be used in the power supply circuit for a spring loaded solenoid electric lock such as an electric strike, rim or catch lock. When in the closed position the courtesy light relay will pulse momentarily, before the motors start running. The reason for this is to prevent the motors pulling against the lock before it has released.

Dip-switch selection	£ 0	Mode
	ON DP C	
Dip-switch 5 ON		MAGNETIC LOCK MODE

With this mode selected the courtesy light relay becomes an in line switch (N/C) to be used in the power supply circuit for a continuous supply magnetic lock. When the gates are trigger to operate in either direction, the courtesy light relay will energise for prior to the motors running and will remain energised as long as the motors are running. The reason for the delay is to prevent the motors pulling against the lock before it has released.

If all that happens when triggering the gates is 20 beeps, then both dip-switch 4 and 5 have been selected to on. Correct the combination to both off, 4 on only or 5 on only as per the installation requirements to clear the error condition.

ADDITIONAL FUNCTIONS

HOLIDAY LOCK-OUT Available in all but Condo/loop Auto-close mode.				
Action		Response		
1. Close gates				
2. Press and hold the (PED) pedestrian button on a master remote		Until 5sec beep begins.		
3. Release (PED) pedestrian button on master remote	000	Beeping will continue until confirmation or 5sec expires.		
4. Press and release (BT) button trigger button on the master remote before 5sec beep stop.		1 x multiple rapid beeps will confirm holiday lock-out is active.		
To unlock repeat		After multiple confirmation beeps gate will immediately start opening when unlocked.		

Holiday lock-out is available only when using a master remote. (No hardwired devices will activate or de-activate it)

A master remote is a remote that has (BT) button trigger control as well as (PED) pedestrian opening control.

If no (BT) button trigger confirmation trigger is received by the time the intermittent beeps stop (5sec.), the gates will not change status.

COURTESY LIGHT OUTPUT Not available in strike lock or Magnetic lock mode.

The courtesy light output will activate on any opening trigger ((BT) button trigger or (PED) pedestrian).

The light on timer will only start timing out once the gates are closed again.

AUTO-CLOSE OVERRIDE/PARTY MODE Available in all but Complex Auto-close mode. Action Response 1. With the gates stopped at any position other than fully closed. 2. Press and hold any TX (BT) button After 5sec unit will emit Multiple trigger button rapid beeps to confirm. Gates will not begin closing after 3. Release button after beeps auto-close time has expired. 4. To deactivate repeat 2 and 3 1 x long beep and gates starts above closing.

If any (PED) pedestrian or (BT) button trigger input is momentarily activated while the unit is in either Holiday lock-out or Auto-close override/Party mode the unit will only emit the multiple rapid beeps and not run the gate.

	PEDESTRIAN FUNCTION. Available in all modes	
Action		Response
With the gates closed		Response
2. Press and release any PED (pedestrian) input.		 Three beep tones Only gate 1 opens to open limit. After pedestrian auto-close time the gate returns to the close position.

Any further (PED) pedestrian input triggers while the gate is running are ignored except in the open position, where the auto-close timer will simply reset.

Any BM input while the (PED) pedestrian routine is running will cause the gate to continue to the open position if busy opening or reverse back to the open position if closing. If already in the open position, the pedestrian auto-close timer will simply reset.

If any (BT) button trigger input is activated while at any stage of the pedestrian routine, the controller will exit pedestrian mode and run both gates to the open position as per the operating mode selected.

BUZZER INDICATIONS OVERVIEW							
Beeps	Gate status	Dip- switch 6 PROG	Action	Response Motor	Condition	Solution	Table ref:
		r			T		
2 x Rapid beeps	Gates anywhere	Off or On	Momentary BT or Ped input	Attempts to run	Battery flat or faulty	Allow recharge and check for Aux devices overload. If problem persists after ±8 hours charging, replace battery	
2 x 2sec. Beeps	Gates stopped	Off	Momentary BT	Gates run after beeps	Household mains failure	Restore power supply	16
3 x 1sec. Beeps	Gates closed	Off	Momentary Ped	Gates open partially	Pedestrian function activated		34
5 x Rapid beeps	Gates anywhere but closed	Off	Momentary BT or Ped input	None	Auto-close override/party mode active	Toggle off	34
5 x Rapid beeps	Full closed	Off	Momentary BT or Ped input	None	Holiday lock- out active	Close gates Toggle off	33
20 Beeps	Gates anywhere	Off	Momentary BT or Ped input	None	Both dipswitches 4 and 5 on.	Select correct setting	32
Continuous rapid beeps	Gates anywhere	On	None	None	Holiday lock- out active	Close gates Toggle off	33
Continuous as long as trigger is held	Gates anywhere	Off	Continuous BT or PED Input	None	Multiple collision lock- out	Clear obstruction and wait three minutes before using gates again.	27

STATUS LED OVERVIEW			
Off	Gates are closed		
Slow flash	Gates are running or waiting for auto-close time to time out		
On	Gates are open		
Rapid Flash	Gates are obstructed or have exceeded max run time.		

WARRANTY: All goods manufactured by G&C Electronics cc T/A ET Systems carry a 12 month factory warranty from date of invoice. All goods are warranted to be free of faulty components and manufacturing defects. Faulty goods will be repaired or replaced at the sole discretion of ET Systems free of charge. This warranty is subject to the goods being returned to the premises of ET Systems. The carriage of goods is for the customer's account. This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to. All warranty claims must be accompanied by the original invoice. All claims made by the end user must be directed to their respective service provider/installer.

The following conditions will disqualify this product from the warranty as laid out above.

These conditions are non-negotiable.

- Any unauthorized non-manufacturer modifications to the product or components thereof.
- The use of the ET 90 BLUE PLUS swing gate operators in heavy traffic applications such as office parks and residential complexes.

The following items are not included in the warranty.

- The battery
- The motor brushes
- Damage resultant of wind and other climatic influences such as lightning strikes.
- Damage due to high voltage surges on the household mains or short circuiting of the gates to the electric fencing.
- Damage due to infestation i.e. Ants nesting...