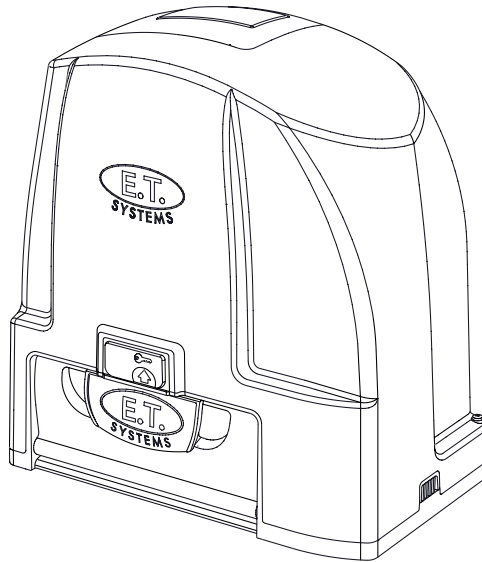


End User Instructions



High Traffic 1000kg Slide Gate Operator



a company of TheNiceGroup



www.et.co.za

Be Safe!

WARNING!! These are the general safety obligations for the installers and users of ET Systems (Pty) Ltd automation equipment.

1. Only suitably qualified persons, may install, repair or service the product. Unless expressly indicated in the user instructions, no user serviceable components can be found inside any ET Systems (Pty) Ltd automation product.
2. It is important for personal safety to study and follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
3. Keep the instructions in a safe place for future reference.
4. This product was designed and manufactured, strictly for the use indicated in the accompanying documentation. Any other use not expressly indicated in the documentation, may damage the product and/or be a source of danger. ET Systems (Pty) Ltd cannot accept responsibility for improper use or incorrect installation of this product.
5. ET Systems (Pty) Ltd cannot accept responsibility if the principles of good workmanship are disregarded by the installer.
6. ET Systems (Pty) Ltd cannot accept responsibility regarding safety and correct operation of the automation, if other manufacturers' equipment is added to this product.
7. Do not make any modifications or alterations to this product. Do not substitute any component of this product with any other component not expressly designed into this product.
8. Anything other than expressly provided for in the accompanying instructions is not permitted.

Prior to installation:

1. All unnecessary ropes, chains and fasteners must be removed and all unnecessary latches or locks must be disabled from locking.
2. The gate or door must be balanced correctly where it, neither opens nor closes from any position under its own load. When operated by hand the gate or door should be free of hindrance and easily moved (In the case of a garage door if the balancing springs need to be adjusted the adjustment should only be carried out by a qualified and experienced person).
3. The construction of the gate or door must be sound and automatable. It is the responsibility of the installer to ensure that the mechanical components of the gate or door system are sufficient to withstand the necessary forces in cases of overload.
4. It is the responsibility of the installer to ensure the gate or door is sufficiently trapped within its range of travel by means of mechanical ends of travel stoppers.
5. Ensure all fixed mounting points, such as the wall above the door in a garage door system or the posts in a swing gate system, are sound and strong enough to allow proper fixing of the operator.
6. It is the responsibility of the installer to ensure the installed position selected for this product, falls within the limitations of the products ingress protection rating.
7. Ensure the area of installation is not subject to explosive hazards. There should be no volatile gasses or fumes as these can present a serious safety hazard.
8. All ET Systems (Pty) Ltd garage door operators are supplied with a sealed 15A safety plug on lead for use in an electrical code of practice approved plug point. Do not extend, modify or replace the plug lead unless duly qualified as an electrician. Before installing the unit, ensure the mains supply is switched off.
9. ET Systems (Pty) Ltd gate operators are supplied with a terminal connection for the electrical supply beneath the screwed down cover of the operator. In the case of a model requiring 220Vac supply at the operator, an all pole negatively biased switch, with a contact opening of greater than 3mm must be installed within 1,5m of the operator. This switch must be clear of all workings of the system and must be in a position secure from public access. This switch and its connections must be inspected and passed by a certified electrician prior to using it.
10. It is the responsibility of the installer to ascertain that the designated persons (including children) intended to use the system, do not suffer reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the system by a person responsible for their safety.
11. The drive may not be installed on a door incorporating a wicket door, unless the drive is disabled by the release of the wicket door. (Wicket door :- A pedestrian door within the main gate or door)

During installation:

1. Ensure the working area is clear of obstructions and obstacles.
2. Install the safety warning sticker within clear view of where the gate or door will be operated from. Typically this would be adjacent to any fixed trigger switches or on the gate or door itself.
3. The emergency manual release must be installed where it is no higher than 1.8m from the floor level. This would apply to the cord in a garage installation or the lockable lever in a gate installation.
4. Any additional fixed door control switches such as wall consoles or keypads, if installed, must be at a height of at least 1.5m, within clear sight of the gate or door and away from any moving components of the system.



Continued overleaf.....

- It is highly recommended that a set of safety infra-red beams be used in conjunction with this product. The safety beams must be installed in such a way that the product is prevented from running when anything is in the path of the door or gate.
- Over and above the recommendation to use safety infra-red beams with this product it is mandatory to install and use a safety beam set when using the automatic closing feature. It is recommended that a warning light be fitted to any automation system.
- The gate or door warning labels must be installed in a prominent place and/or adjacent to any fixed controls that trigger the system. These must be in clear line of sight of the gate or door opening.
- The emergency manual release instruction label must be installed on or adjacent to the emergency manual release mechanism.

After installation - It is the responsibility of the installer to ensure the users:

- Is proficient in the use of the manual emergency release mechanism.
- Is issued with the documentation accompanying this product.
- Understands that the gate or door may not be operated out of clear sight.
- Ensures that children are kept clear of the gate or door area at all times, and that children do not play with the remote transmitters or any fixed trigger switches linked to the system.
- Is instructed not to attempt to repair or adjust the automation system and to be aware of the danger of continuing to use the automation system in an unsafe condition before a service provider attends to it.
- Is proficient in testing the unit's safety obstruction sensing system.
- Is aware of what to check for with regards to wear and tear that may need to be attended to from time to time by the service provider.
- Is aware that a fatigued battery may not be disposed of in the general refuse and must be handed in at a battery merchant for safe disposal. Before removing the battery from the system the household mains must be disconnected. In the case of the motor unit being removed and scrapped, the battery must be removed first.

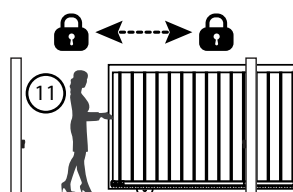
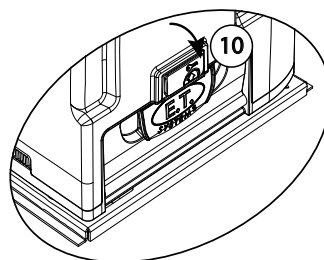
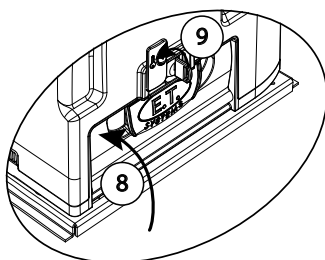
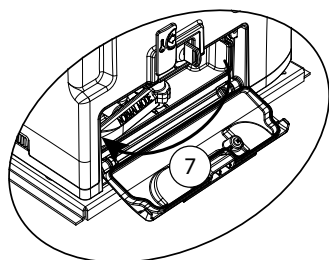
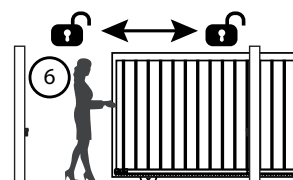
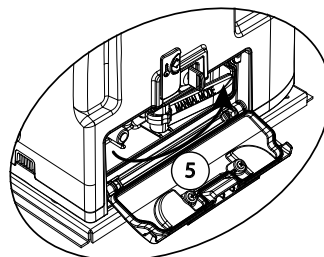
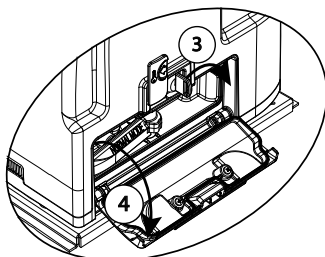
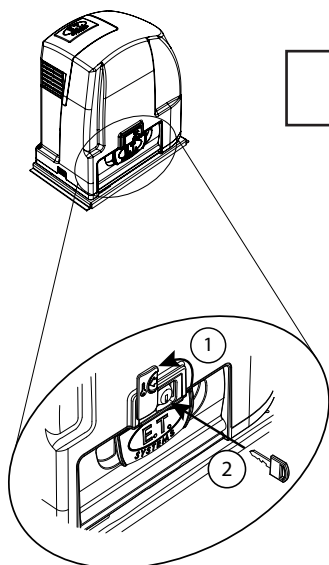
Technical specifications.

TECHNICAL SPECIFICATIONS		
Technical Data	Low traffic option Plug in transformer (Not included in kit)	High traffic ACDC Standard kit
Rated gate mass.	1000kg	1000kg
Maximum gate travel.	40m	40m
Primary power supply to gate.	29Vac @ 1A 50Hz – 60Hz	220 – 240Vac @ 50Hz – 60Hz
Peak power consumption at gate.	30W	350W
Electrical class.	Class 3 	Class 1 
Motor voltage.	24Vdc	30Vdc
Motor current at rated load.	Current limited to 13A	Current limited to 13A
Duty cycle maximum.	25% with 220Vac present	98% with 220Vac present
Number of operations on battery reserve. (Battery health and charge level at time of power failure dependent. Calculated on a 5m gate with rolling resistance of <15kgf)	100 using the standard 5Ah battery. This can be upgraded to 150 by installing 2 x 3.5Ah batteries.	100 using the standard 5Ah battery. This can be upgraded to 150 by installing 2 x 3.5Ah batteries.
Gate speed At rolling resistance of <15kgf.	Up to 28m/min	Up to 28m/min
Rated Load.	600N	600N
Operating temperature range.	-10 to 50° C (14F to 122F)	-10 to 50° C (14F to 122F)
Anti-crushing safety sensing.	Yes – Electronic gate profiling	Yes – Electronic gate profiling
Auxiliary supply output.	12Vdc @ 400mA	12Vdc @ 400mA
Built in battery charger.	Multiple stage auto-calibrating 500mA	Multiple stage auto-calibrating 500mA
Receiver format.	ET BLU MIX © backward compatible with ET BLUE (Rolling code)	ET BLU MIX © backward compatible with ET BLUE (Rolling code)
Receiver frequency.	433.92MHz	433.92MHz
Receiver channels.	4CH (BT, PED, Aux relay, Holiday lock-out)	4CH (BT, PED, Aux relay, Holiday lock-out)
Receiver memory capacity.	1023 users	1023 users
All users can be allowed control of all channels.	Yes	Yes
Ingress protection.	IPX4	IPX4

How to use the manual override.

Move gate open and closed by hand.

NB! The gearbox can be left in manual mode with the manual override hatch closed and locked up.

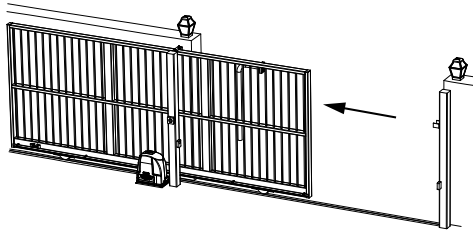

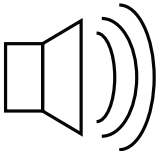
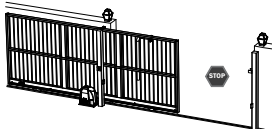
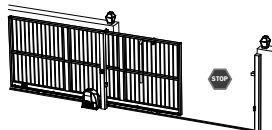
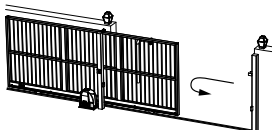
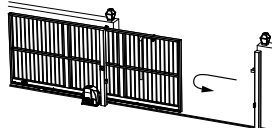
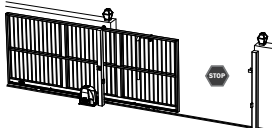
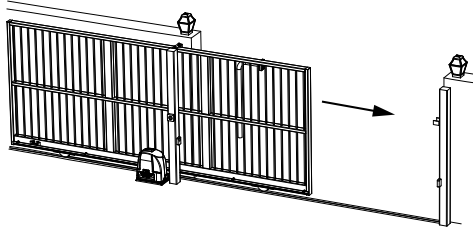

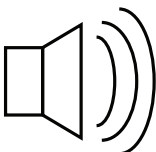
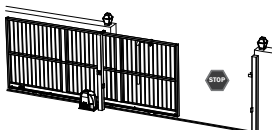
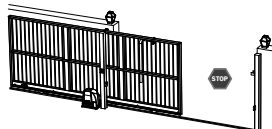
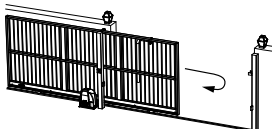
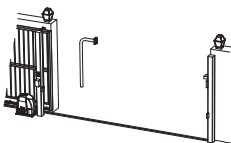
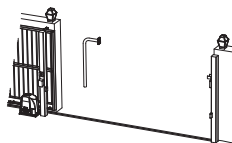


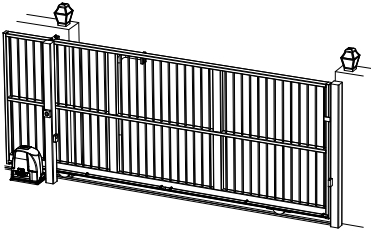

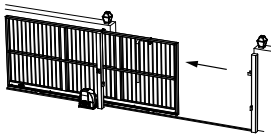
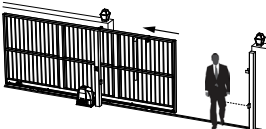
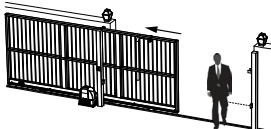

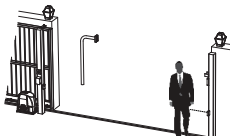


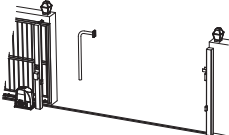
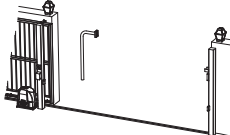

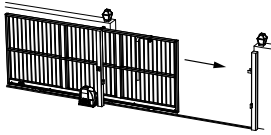
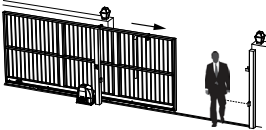
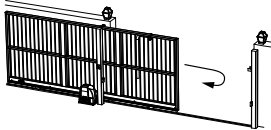
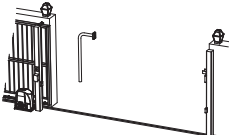
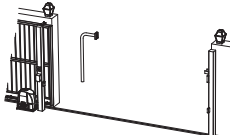

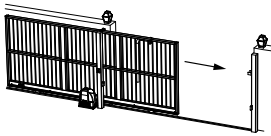
To disengage the gearbox (Manual mode)

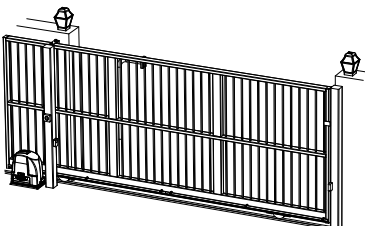

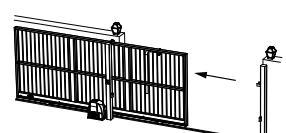
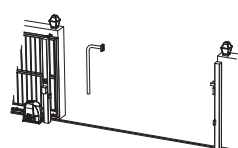

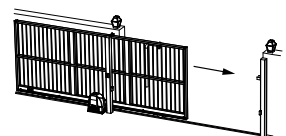

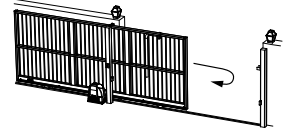

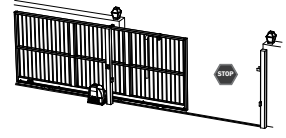

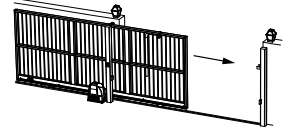

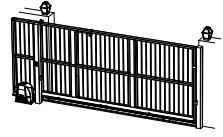
1. Raise lock cover.
2. Insert the key.
3. Turn the key clockwise.
4. Open the manual override hatch.
5. Swing manual override lever to the right.
6. Manoeuvre the gate by hand.

To re-engage the gearbox (Normal mode)

7. Swing the manual override lever to the left.
8. Close the manual override hatch.
9. Turn the key counter clockwise.
10. Lower the lock cover.
11. Ensure the gearing is engage by pushing or pulling the gate until the gearing "clicks" in.

Basic operating features.		Collision sensing and safety overload routines		
In the case of the gate colliding with an obstruction such as a person passing through the entrance way, the collision sensing will automatically detect the collision and the system will run a safety overload routine.				
Safety overload routine while gate is opening.				
				
Action		Response		
Gate collides with a pedestrian for example.		Gate stops opening.	 x1	
Once gate has stopped.		Gate reverses momentarily to release pressure.	No buzzer tones.	
After reversing momentarily.		Gate stops and waits for next trigger to close.	No buzzer tones.	
Safety overload routine while gate is closing.				
				
Action		Response		
Gate collides with a pedestrian for example.		Gate stops closing.	 x1	
Once gate has stopped.		Gate reverses back to the full open position.	No buzzer tone.	
After reversing to the full open position.		Gate remains in the full open position until the next trigger to close.	No buzzer tone.	

Safety infra-red beams function. All modes except P.I.R.A.C.				Basic operating features
<p>If the safety beam input has been switched on, the control card will constantly monitor to ensure a set of safety beams is installed.</p> <p>NB! If the BT input mode has been set to either simple auto-close or condominium mode, the safety beam input is forced on.</p> <p>If the loop detector input is activated, the safety beam input is forced on for that transaction only.</p> <p>Below is an example of how the gates will behave whenever the safety beam input is activated.</p>				
<p>Gate closed.</p> 				
Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
Safety beam input triggered while gate is opening.		Gate continues opening	No buzzer tones.	
At full open position. Safety beam input still triggered.		Gate stops and waits for next trigger to close.	No buzzer tones.	
Momentary BT trigger.		Trigger is ignored and gate remains open.	No buzzer tones.	
Safety beam input cleared.		Gate remains in the full open position until the next trigger to close.	No buzzer tone.	
Momentary BT trigger.		Gate begins closing.	No buzzer tone.	
Safety beam input while the gate is closing.		Gate stops and reverses open.	No buzzer tone.	
At the full open position.		Gate stops and waits for next trigger to close.	No buzzer tone.	
Momentary BT trigger.		Gate begins closing.	No buzzer tone.	

Basic operating features		“BT” Button triggers. Standard mode.		
The BT functions are the primary full gate opening functions for motor vehicle access. There are two ways of activating the “BT” functions on this control card. Either via the hardwired BT input or the BT receiver channel. In Standard mode the gates respond to each BT trigger. In Standard mode you have access to the following advanced features: - Holiday lock-out and Party mode.				
Gate closed.				
Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
At full open position.		Gate stops.	No buzzer tones.	
Momentary BT trigger.		Gate begins closing.	No buzzer tones.	
Momentary BT trigger.		Gate stops and immediately starts opening again.	No buzzer tones.	
Momentary BT trigger.		Gate stops.	No buzzer tones.	
Momentary BT trigger.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

"BT" Button triggers. Simple auto-close mode.	Basic operating features
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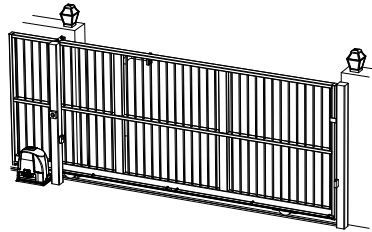
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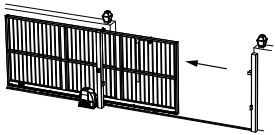
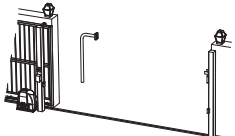

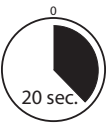
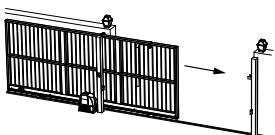

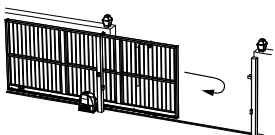

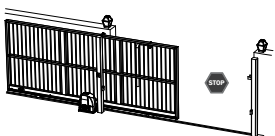


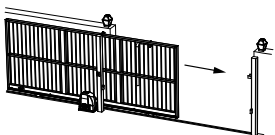
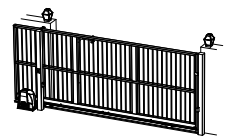
Simple auto-close mode functions exactly the same as standard mode except that the gates will close automatically after the programmed BT auto-close timer has timed out.

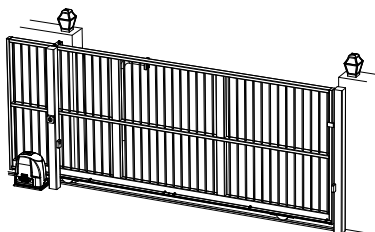

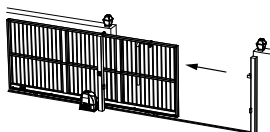

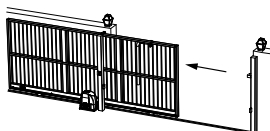
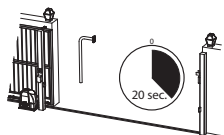

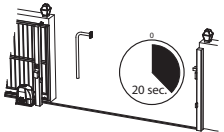
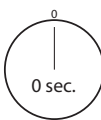
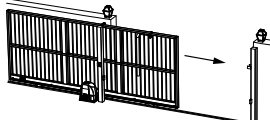

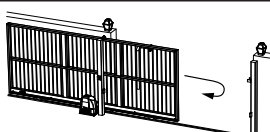
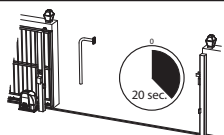

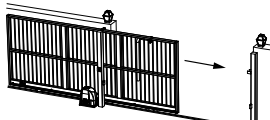
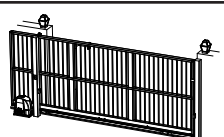
In this mode you have access to the following advanced features: - Holiday lock-out and Party mode.

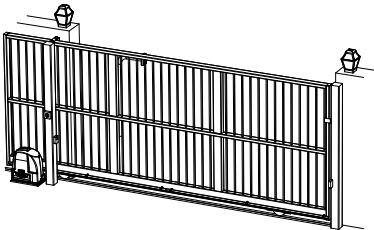

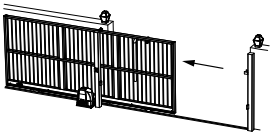
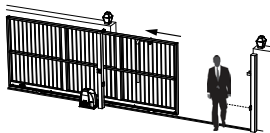
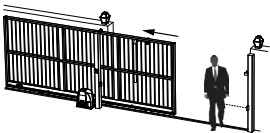
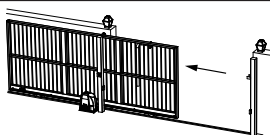
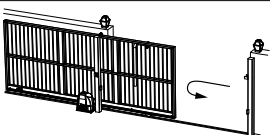
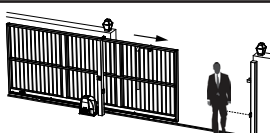
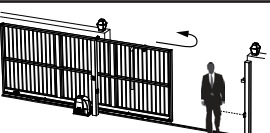
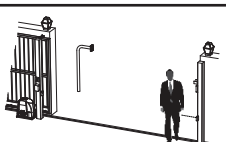
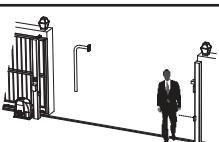
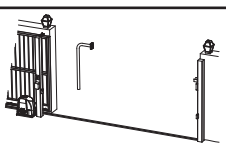
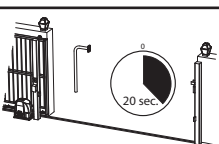
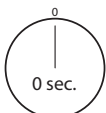
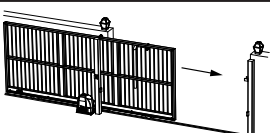
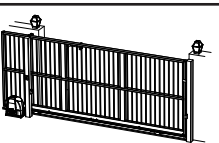
NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly. If no safety infra-red beams are installed then the gates will open but not close again.

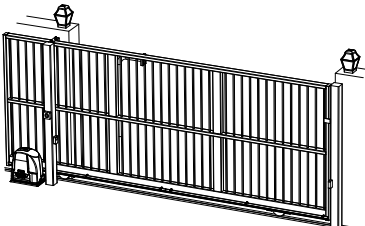

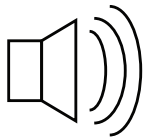
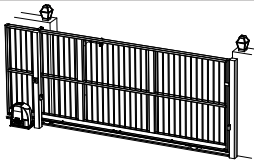

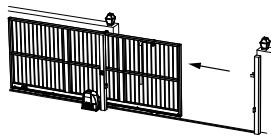
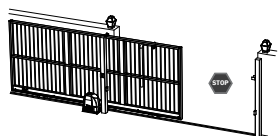
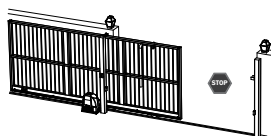

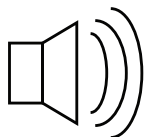
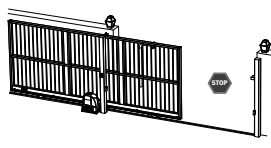

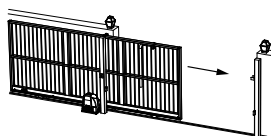
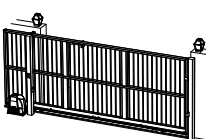
Gate closed.

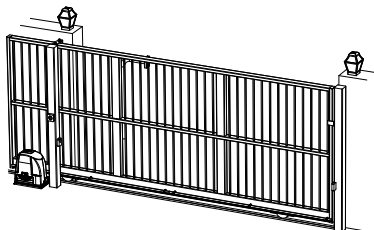
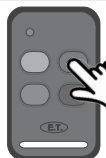
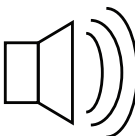
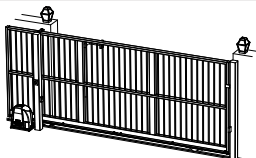

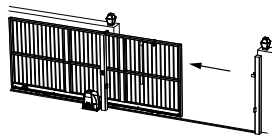
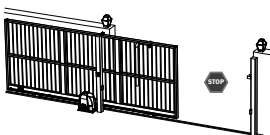
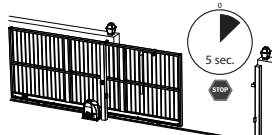
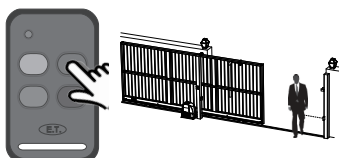
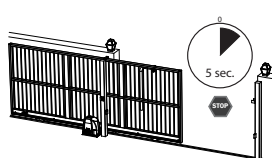
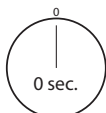
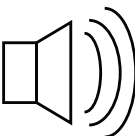
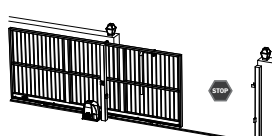

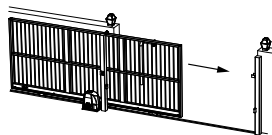
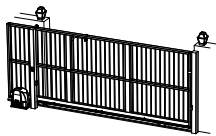


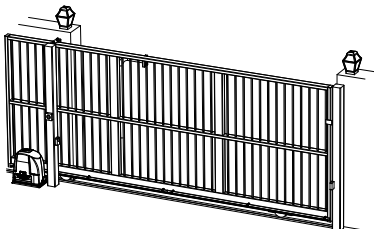

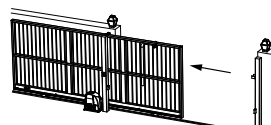
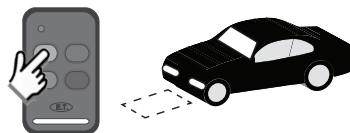
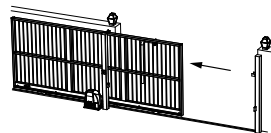
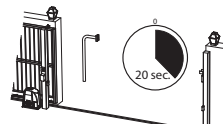
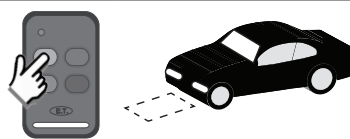
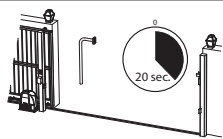

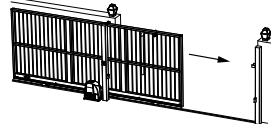
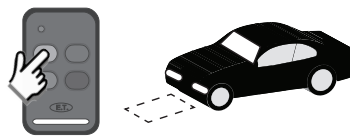
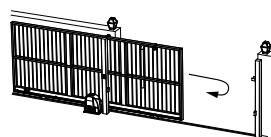
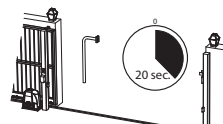
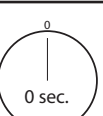
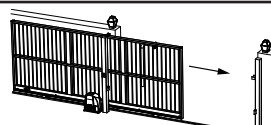

Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
At full open position.		Gate stops.	No buzzer tones.	
Momentary BT trigger or auto-close timer timeout. Safety beam input not triggered.	 	Gate begins closing.	No buzzer tones.	
Momentary BT trigger.		Gate stops and immediately starts opening again.	No buzzer tones.	
Momentary BT trigger.		Gate stops.	No buzzer tones.	
Momentary BT trigger or auto-close timer timeout. Safety beam input not triggered.	 	Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

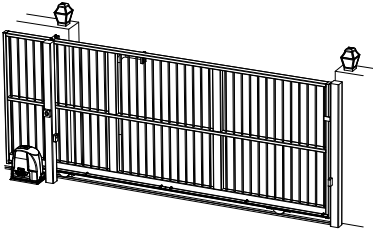

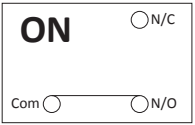

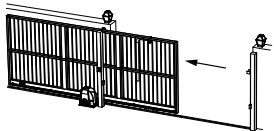

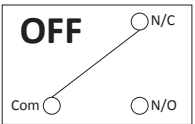
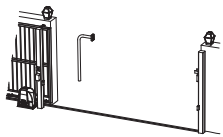

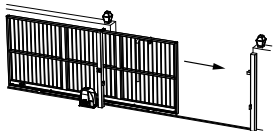

Basic operating features		“BT” Button triggers. Condominium auto-close mode.		
The BT functions are the primary full gate opening functions for motor vehicle access. There are two ways of activating the “BT” functions on this control card. Either via the hardwired BT input or the BT receiver channel.				
In Condominium auto-close mode, all BT triggers are treated as open, keep opening, keep open or re-open triggers. The gates will only close once the BT auto-close timer has timed out.				
In Condominium auto-close mode the following advanced features are not available: - Holiday lock-out and Party mode.				
NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly. If no safety infra-red beams are installed then the gates will open but not close again.				
Gate closed.				
Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
Momentary BT trigger while gate is opening.		The trigger is ignored and the gate continues opening.	No buzzer tone.	
At full open position.		Gate stops and auto-close timer starts counting down.	No buzzer tones.	
Momentary BT trigger.		Gate remains open and auto-close timer resets.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Gate begins closing.	No buzzer tones.	
Momentary BT trigger.		Gate stops and immediately starts opening again.	No buzzer tones.	
At full open position.		Gate stops and auto-close timer starts counting down.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

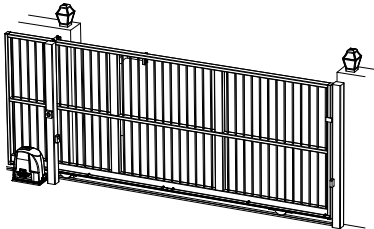

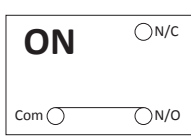

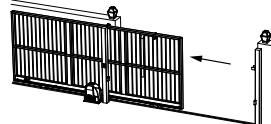
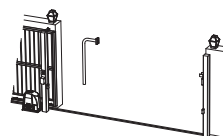

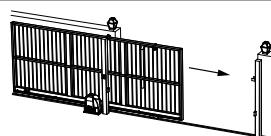
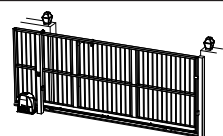

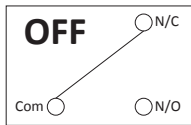
"BT" Button triggers. P.I.R.A.C. auto-close mode.				Basic operating features
<p>The BT functions are the primary full gate opening functions for motor vehicle access.</p> <p>There are two ways of activating the "BT" functions on this control card. Either via the hardwired BT input or the BT receiver channel.</p> <p>In P.I.R.A.C. auto-close mode, all BT triggers are treated as per simple auto-close. The difference in this mode is how the system responds to the safety beam triggers while the gate is opening. Below is an example of P.I.R.A.C. auto-close mode when the safety beam circuit is triggered while the gate is in operation.</p> <p>In this mode the following advanced features are available: - Holiday lock-out and Party mode.</p> <p>NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly. If no safety infra-red beams are installed then the gates will open but not close again.</p>				
<p style="text-align: center;">Gate closed.</p> 				
Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
Safety beam circuit triggered while gate is opening.		The gate continues opening.	No buzzer tone.	
Safety beam circuit cleared while gate is opening.		Gate stops and immediately starts closing again.	No buzzer tones.	
Safety beam circuit triggered while gate is closing.		Gate stops and immediately starts opening again.	No buzzer tones.	
Gate reaches open position while safety beam circuit is still triggered.		Gate remains open waiting for safety beam circuit to be cleared.	No buzzer tones.	
Safety beam circuit cleared while gate is in the open position.		Auto-close timer starts counting down.	No buzzer tones.	
Auto-close timer times out. Safety beam circuit not triggered.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

Basic operating features		“PED” Pedestrian trigger. (With no safety beams installed)		
The PED trigger is a higher security option and is used when access to or from the property is limited to exclude motor vehicles. In the case of no safety beams being installed then the pedestrian auto-close functionality is disallowed for safety.				
If the Loop or the BT triggers are activated at any time during the pedestrian routine, the gate will open to the full open position and the pedestrian transaction is cancelled. The system then reverts to either the Loop or BT trigger mode depending on which was triggered.				
There are two ways of activating the “PED” functions on this control card. Either via the hardwired PED input or the PED receiver channel.				
Gate closed.				
Action		Response		
Momentary PED trigger.		Buzzer beeps pre-run warning.	 x3	
After buzzer silences.		Gate begins opening.	No buzzer tones.	
At previously programmed pedestrian opening distance.		Gate stops and waits for a pedestrian trigger to close.	No buzzer tones.	
Momentary PED trigger.		Buzzer beeps pre-run warning.	 x3	
After buzzer silences.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

"PED" Pedestrian trigger. (With safety beams installed)				Basic operating features	
<p>The PED trigger is a higher security option and is used when access to or from the property is limited to exclude motor vehicles.</p> <p>If the safety beams are triggered while the gate is closing in pedestrian mode, the gate will only return to the preprogrammed pedestrian open position.</p> <p>If the Loop or the BT triggers are activated at any time during the pedestrian routine, the gate will open to the full open position and the pedestrian transaction is cancelled. The system then reverts to either the Loop or BT trigger mode depending on which was triggered.</p> <p>There are two ways of activating the "PED" functions on this control card. Either via the hardwired PED input or the PED receiver channel.</p>					
<div>Gate closed.</div> 					
Action			Response		
Momentary PED trigger.		Buzzer beeps pre-run warning.	 x3		
After buzzer silences.		Gate begins opening.	No buzzer tones.		
At previously programmed pedestrian opening distance.		Gate stops and the pedestrian auto-close timer starts counting down.	No buzzer tones.		
Momentary PED trigger or safety beam circuit trigger.		Pedestrian auto-close timer resets.	No buzzer tones.		
Pedestrian auto-close timer times out.		Buzzer beeps pre-run warning.	 x3		
After buzzer silences.		Gate begins closing.	No buzzer tones.		
At full closed position.		Gate stops.	No buzzer tones.		

Basic operating features		“Loop” trigger.		
The Loop trigger mode is exactly the same as Condominium auto-close mode.				
The only way to trigger loop detector mode is via the hardwired LPT input.				
In Loop detector mode, a LPT trigger is treated as open, and any BT or LPT trigger is treated as a keep opening, keep open triggers or re-open trigger while the gates are running. The gates will only close once the auto-close timer has timed out. The loop mode transaction will only clear once the gates reach the closed position again.				
NB! For any auto-close feature to work, a pair of safety infra-red beams must be installed and functioning correctly. If no safety infra-red beams are installed then the gates will open but not close again.				
<div>Gate closed.</div> 				
Action		Response		
Loop trigger.		Gate begins opening.	No buzzer tones.	
Momentary BT trigger or Loop trigger while gate is opening.		The trigger is ignored and the gate continues opening.	No buzzer tone.	
At full open position.		Gate stops and auto-close timer starts counting down.	No buzzer tones.	
Momentary BT trigger or Loop trigger while gate is open.		Gate remains open and auto-close timer resets.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Gate begins closing.	No buzzer tones.	
Momentary BT trigger or Loop trigger while gate is closing.		Gate stops and immediately starts opening again.	No buzzer tones.	
At full open position.		Gate stops and auto-close timer starts counting down.	No buzzer tones.	
Auto-close timer timeout. Safety beam input not triggered.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

Auxiliary relay modes. Strike lock mode.				Basic operating features
<p>With Strike lock mode selected, the auxiliary relay will pulse for the preprogrammed on time, half a second before the gate opens.</p> <p>Whenever a lock is installed with the system, a separate battery backed up power supply matching the lock load must be installed. Failure to do this can damage the charger and battery of the control unit.</p> <p>Below is an example of strike lock mode when standard BT mode is active.</p>				
<p style="text-align: center;">Gate closed.</p> 				
Action		Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tone.	
Half a second after the auxiliary relay has activated.		Gate begins opening.	No buzzer tone.	
After the preprogrammed relay on time.		Auxiliary relay deactivates and gate continues opening.	No buzzer tone.	
Gate reaches open position.		Gate stops.	No buzzer tone.	
Momentary BT trigger.		Gate begins closing.	No buzzer tone.	
At full closed position.		Gate stops.	No buzzer tone.	

Basic operating features		Auxiliary relay modes. Magnetic lock mode.		
With Magnetic lock mode selected, the auxiliary relay will activate, half a second before the gate opens and remain active until half a second after the gate has closed again.				
Whenever a lock is installed with the system, a separate battery backed up power supply matching the lock load must be installed. Failure to do this can damage the charger and battery of the control unit.				
Below is an example of magnetic lock mode when standard BT mode is active.				
<div>Gate closed.</div> 				
Action		Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tone.	
Half a second after the auxiliary relay has activated.		Gate begins opening.	No buzzer tone.	
Gate reaches open position.		Gate stops.	No buzzer tone.	
Momentary BT trigger.		Gate begins closing.	No buzzer tone.	
At full closed position.		Gate stops.	No buzzer tone.	
Half a second after gate has reached the full closed position.		Auxiliary relay deactivates.	No buzzer tone.	

Auxiliary relay modes. Courtesy light mode.	Basic operating features
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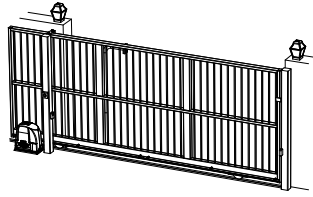
With courtesy light mode selected, the auxiliary light will switch on as the gate begins opening and remain on for the programmed light on time after the gate has closed.

The auxiliary relay can also be triggered to switch on without the gate opening by simply pressing and releasing any remote button programmed into the auxiliary relay function of the receiver.

The relay on time for the two different triggers can be programmed to different on times if wanted.

Below is an example of courtesy light mode when standard BT mode is active.

Gate closed.


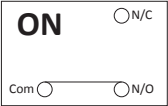



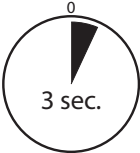
Action		Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tone.	
		Gate begins opening.		
Gate reaches open position.		Gate stops.	No buzzer tone.	
Momentary BT trigger.		Gate begins closing.	No buzzer tone.	
At full closed position.		Gate stops.	No buzzer tone.	
		Relay on timer begins counting down.		
After relay on timer timeout.		Auxiliary relay deactivates.	No buzzer tone.	

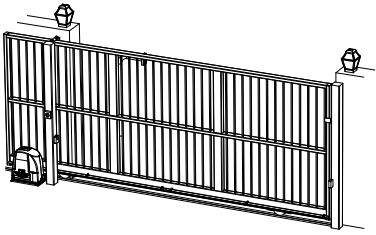

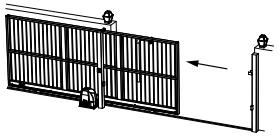
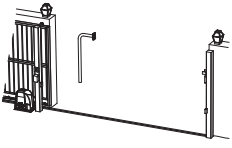

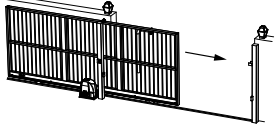

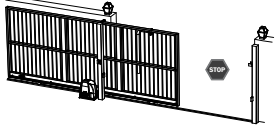

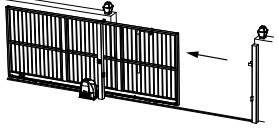

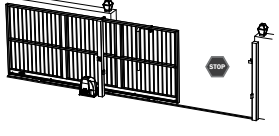
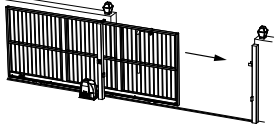
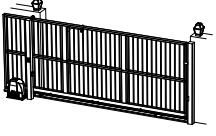
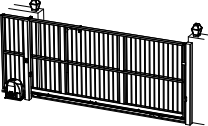

If the gate is closed and any remote button programmed into the auxiliary relay function is pressed momentarily, the following will occur.

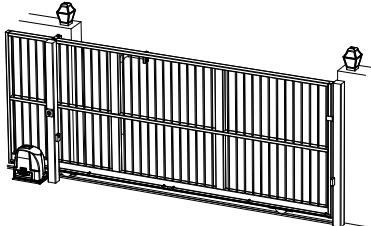

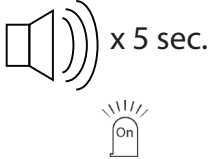
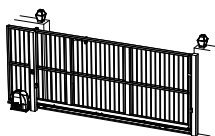



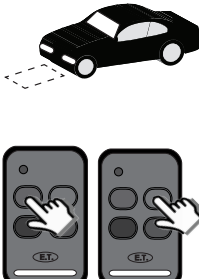

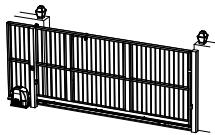
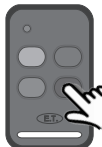
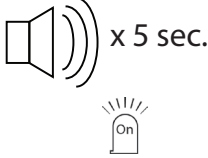
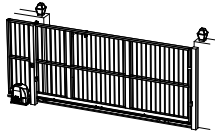

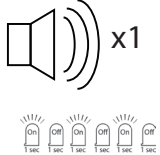
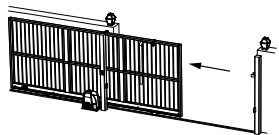
Auxiliary relay status	Action		Response		
	Momentary auxiliary relay trigger.		Auxiliary relay switches on for programmed time.	No buzzer tone.	
	Momentary auxiliary relay trigger.		Auxiliary relay switches off.	No buzzer tone.	

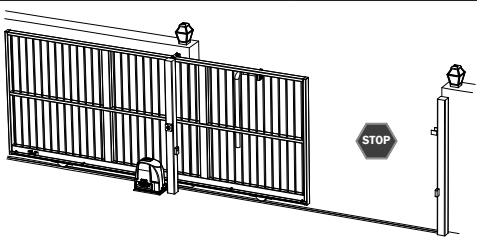
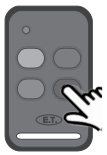


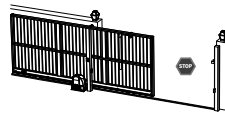



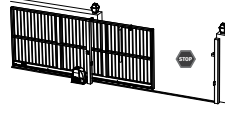

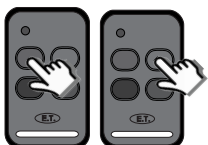


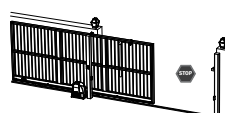
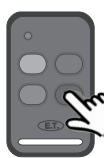


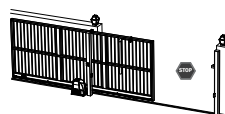



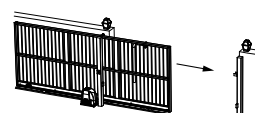
Basic operating features	Auxiliary relay modes. Receiver relay mode.
With receiver relay mode selected, the auxiliary relay will operate in exactly the same way as a single channel receiver would, whenever a transmitter button programmed into the “Relay” receiver function is pressed and released.	

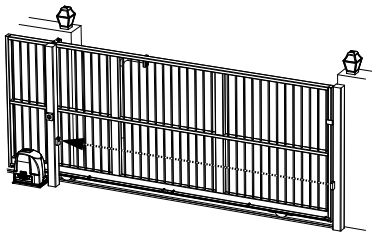
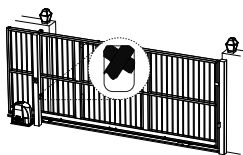





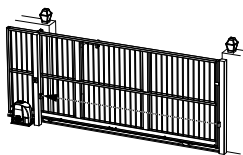


Latch mode. The transmitter must be released and pressed again to reactivate the relay each time.				
Action		Response		
Momentary relay trigger.		Auxiliary relay switches on.	No buzzer tones.	<div>ON</div> <div>Com <input type="radio"/> N/C</div> <div><input type="radio"/> N/O</div>
Momentary relay trigger.		Auxiliary relay switches off.	No buzzer tones.	<div>OFF</div> <div>Com <input type="radio"/> N/C</div> <div><input type="radio"/> N/O</div>

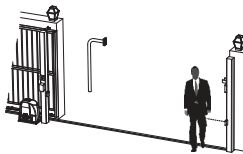





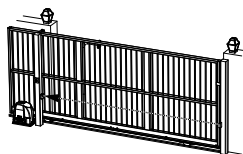


One shot pulse mode. The transmitter must be released and pressed again to reactivate the relay each time.				
Action		Response		
Momentary relay trigger.		Auxiliary relay switches on.	No buzzer tones.	<div>ON</div> <div>Com <input type="radio"/> N/C</div> <div><input type="radio"/> N/O</div>
Relay timer times out.		Auxiliary relay switches off.	No buzzer tones.	<div>OFF</div> <div>Com <input type="radio"/> N/C</div> <div><input type="radio"/> N/O</div>

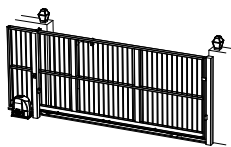





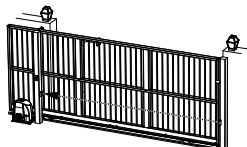


Positive close mode.				Advanced features
<p>With positive close mode activated, the gate will surge onto the closed stopper after seeing the closed limit.</p> <p>This feature is useful when installing an electric lock or when trying to ensure an electric fencing gate contact always closes when the gate is in the closed position.</p>				
<p>Gate closed.</p> 				
Action		Response		
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
At full open position.		Gate stops.	No buzzer tones.	
Momentary BT trigger.		Gate begins closing.	No buzzer tones.	
Momentary BT trigger.		Gate stops.	No buzzer tones.	
Momentary BT trigger.		Gate begins opening.	No buzzer tones.	
Momentary BT trigger.		Gate stops.	No buzzer tones.	
Momentary BT trigger.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	
When gate has stopped on the closed limit.		Gate physically surges onto the mechanical closed stopper.	No buzzer tone.	



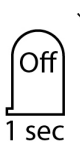































Advanced features		Holiday lock-out mode.		
<p>This feature is useful at times when access to the property needs to be disallowed to secondary level key holders, such as housekeepers or the garden service company, for extended periods of time. An example of when the holiday lock-out function would be useful is when the home owner is away on holiday. With holiday lock-out mode active, any trigger on any input will simply result in the control card beeping to indicate the gates are being kept locked intentionally. As soon as the holiday lock-out mode is deactivated, the system will resume normal operation.</p> <p>Holiday lock-out will only work in the closed position. Holiday lock-out is not available in condominium mode.</p>				
<p>Gate must be closed to start.</p>				
Action		Response		
Momentary trigger from any transmitter button programmed into holiday lock-out function.		Buzzer begins toning and status LED comes on.		
BT button while buzzer is sounding to confirm that you want to activate holiday lock-out. If no BT button is pressed during this 5 second window, the holiday lock-out status will not change.		Buzzer and status LED beep/flash rapidly.		
Any BT, Loop or PED triggers.		Gate does not open. Buzzer, status LED.		
Momentary trigger from any transmitter button programmed into holiday lock-out function.		Buzzer begins toning and status LED comes on.		
BT button while buzzer is sounding to confirm that you want to deactivate holiday lock-out. If no BT button is pressed during this 5 second window, the holiday lock-out status will not change.		Buzzer beeps, status LED reverts to gate running indication and gate begins opening.		
Normal operation is now functional.				

Autoclose override/party mode.			Advanced features	
<p>This feature is useful at times when the gate must be kept open for extended periods of time. In an office park during business hours for instance. With auto-close override/party mode active any trigger on any input will simply result in the control card beeping to indicate the gate is being kept open intentionally. As soon as auto-close override/party mode has been deactivated, the system will resume normal operation.</p> <p>Auto-close override/party mode will work in any position except the closed position.</p> <p>Auto-close override/party mode is not available in condominium mode.</p>				
<div>Gate in any position except closed.</div> 				
Action		Response		
Momentary trigger from any transmitter button programmed into holiday lock-out function.		Buzzer begins toning and status LED comes on.	 x 5 sec. 	
BT button while buzzer is sounding to confirm that you want to activate holiday lock-out. If no BT button is pressed during this 5 second window, the auto-close/party mode status will not change.		Buzzer and status LED beep/flash rapidly.	 x 5 rapid. 	
Any BT, Loop or PED triggers.	 	Gate does not move. Buzzer, status LED beep/flash rapidly to confirm status.	 x 5 rapid. 	
Momentary trigger from any transmitter button programmed into holiday lock-out function.		Buzzer begins toning and status LED comes on.	 x 5 sec. 	
BT button while buzzer is sounding to confirm that you want to deactivate holiday lock-out. If no BT button is pressed during this 5 second window, the auto-close override/party mode status will not change.		Buzzer beeps, status LED reverts to gate running indication and gate begins closing.	 x1 	
Normal operation is now functional.				

Advanced features		Tamper alarms. Beam tamper in closed position.		
<p>In cases where the safety beams have been tampered with, the safety protocols will still allow the gates to open but will not allow the gates to close. This safety feature can be turned into a security risk by anyone with ill intention. The safety beam input tampering alarm feature gives you a early warning of any tampering that may have occurred while you were away from the property. If the gates are in the closed position and the safety beam input is trigger for longer than 20 seconds, then the alarm output will become active. This output would usually be connected to a visual warning device such as a light or to a zone on the household alarm system.</p> <p>In the case of a light being used, on approach to the entrance the user is alerted to the attempt to compromise their security. Our advise is that the user not trigger the gates to open, in this situation, but rather to continue driving to their nearest armed response standby point or to the nearest police station. This way they can ask for an escort onto the the property.</p> <p>Safety beam alarm mode is available in all modes of operation so long as a set of safety beams is installed.</p>				
<div>Gate closed.</div> 				
Action		Response		
Safety beam equipment tampered with while gates are in the closed position.		Alarm output remains in standby status.		
20 seconds after safety beam equipment has been tampered with.		Alarm output activates.	Built in buzzer sounding is optional.  On/off...	
Safety beam equipment returned to normal functioning status.		Alarm output returns to standby.		

Advanced features		Gate kept open too long alarm.		
In a cases where the user would like to be notified of the gate being kept open for longer than a predetermined time period, the gate jammed open alarm can be setup. The alarm condition will reset to off when the gate is closed again.				
Action		Response		
Gate prevented from closing.		Alarm output remains in standby status.		
After programmed gate jammed open time.		Alarm output activates.	Built in buzzer sounding is optional.  On/off...	
Gate returns to full closed position.		Alarm output returns to standby.		

Gate forced open alarm.			Advanced features	
In a case where the gate is physically lifted off its track and forced open, the alarm output will immediately activate. The alarm will only reset when the gate is returned to normal secured condition in the closed position.				
Action		Response		
Gate secured in the closed position. Standing by.		Alarm output remains in standby status.		
Attempt to lift gate off track and force open.		Alarm output activates.	Built in buzzer sounding is optional.  On/off...	
Gate resecured in the closed position. Standing by.		Alarm output returns to standby.		

Status LED indications and buzzer guide.			
Description	Visual confirmation	Buzzer	Reason
Static off.		None	Gate fully closed.
Flashing slow 1 second on and 1 second off.	     	None	Gate running normally.
Static on.		None	Gate open.
2 x 500ms flashes followed by a 2 second pause.	    Pause     Pause ...	1 x 1 second beep every 15 seconds for 5 minutes after last gate transaction.	AC mains off. Restore AC as soon as possible.
4 x 500ms flashes followed by a 2 second pause.	        Pause ...	None.	Battery low. Allow at least 8 – 10hr uninterrupted charge before checking again.
5 x 125ms second rapid flashes each time a trigger is received.	         	Mimics LED.	A lock-out mode is active. Press and release any holiday lock-out button to deactivate.

WARRANTY:

1. All goods manufactured by ET Systems (Pty) Ltd carry a 12 month factory warranty from date of invoice.
2. All goods are warranted to be free of faulty components and manufacturing defects.
3. Faulty goods will be repaired or replaced at the sole discretion of ET Systems (Pty) Ltd free of charge. Within the warranty period.
4. This warranty is subject to the goods being returned to the premises of ET Systems (Pty) Ltd.
5. The carriage of goods is for the customer's account.
6. 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.
7. All warranty claims must be accompanied by the original invoice.
8. 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.

1. Any unauthorized non-manufacturer modifications to the product or components thereof.
2. Any modification to the installation methods described in the installation instructions.
3. Any application or use of the product other than the intended use and application described in the product documentation.

The following items are not included in the warranty or they carry a special warranty condition of their own.

1. The battery (Limited 6 month warranty)
2. The motor brushes.
3. Damage resultant of wind and other climatic influences such as lightning strikes.
4. Damage due to high voltage surges on the household mains or short circuiting of the gates to the electric fencing.
5. Damage due to infestation i.e. Ants nesting...
6. Water damage. It is the responsibility of the installer to ensure the product is installed in a location that is protected from water ingress. The ingress protection rating is specified in the accompanying documentation. Housings that require that cable entries are made by the installer do not carry an ex-factory ingress protection rating as it is the responsibility of the installer to seal the cable entry points after installation of the cabling.