

User instructions



Wingo 3524 HS Swing gate operator



a company of **TheNiceGroup**



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For any assistance with this product, which is not covered in this manual, please contact your service provider/installer.

<p>Contact details of service provider/installer:</p> <p>Company name: _____</p> <p>Technician: _____</p> <p>Contact number: _____</p> <p>Email address: _____</p> <p>Date of installation:</p>	<p>Company stamp:</p>
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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, like 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.

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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:

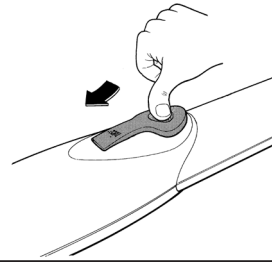
1. Is proficient in the use of the manual emergency release mechanism.
2. Is issued with the documentation accompanying this product.
3. Understands that the gate or door may not be operated out of clear sight.
4. Ensures that children are kept clear of the gate or door area at all times, and that children do not play with the remote transmitters or any fixed trigger switches linked to the system.
5. 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.
6. Is proficient in testing the unit's safety obstruction sensing system.
7. 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.
8. 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.

How To Use The Manual Override.

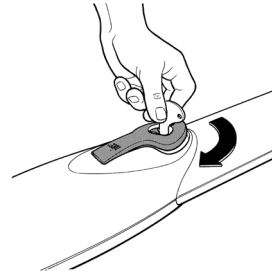
To manoeuvre the gates manually by hand, you need to disengage the gearboxes by completing the following steps.

Putting the motors into manual override.

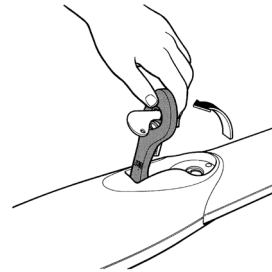
Slide the lock cover open.



Insert key and turn to unlock.



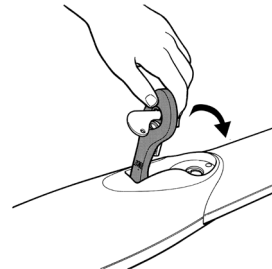
Lift the manual override lever.



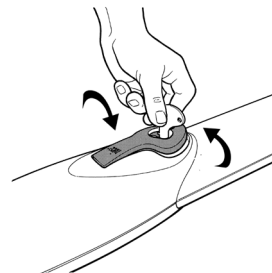
You are now able to manoeuvre the gates to any position by hand.

Engaging the motors after manual override.

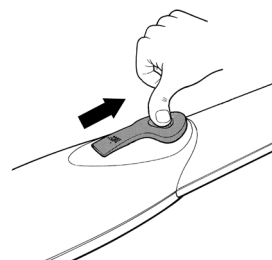
Lower the manual override lever back down.

























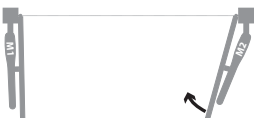
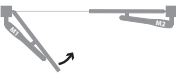


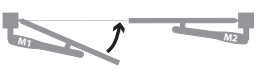



Using the key lock the lever in place.



Cover the lock again by sliding the lock cover over it.





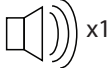

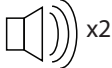
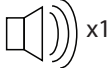

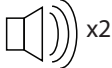
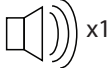

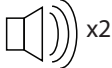




You are now able to use the gate automation again.

Basic operating features	Manual override and end of travel referencing.			
<p>The ends of travel are consistently being monitored by the gate movement profiling software routine. Whenever the gates are placed in manual override (Gates free to be manoeuvred by hand) the chances of engaging them again in the exact same position is nearly impossible. For this reason the software will automatically go into an end of travel referencing operation.</p> <p>NB! A momentary trigger on the BT, PED or BM inputs will pause the referencing routine. A repeat BT or PED trigger will allow it to resume.</p>				
Action	Response			
Engage the motors again after moving the gates.		No gate movement	No Buzzer tones.	
Momentary BT trigger		Gates begin closing if the last operation before moving them was an opening operation. If the gates were closing before the manual manoeuvre, then they will begin opening.	No Buzzer tones.	
Gates run up hard onto the end stops as they are out of reference with the last position memorized by the control card.		Safety overload routine runs. See next page.	Buzzer beeps confirmation of which gate, overloaded. See trouble shooting guide.	
As soon as the first gate passes the point at which it was re-engaged the control card will know it is out of reference to the gate positions.		Buzzer begins beeping intermittently. Display shows rEF. Gate 1 continues to open slowly searching for the open stopper.	 On/off... 	
Gate 1 reaches the open stopper and surges up.		Buzzer continues beeping and display continues showing rEF. Gate 2 begins opening slowly.	 On/off... 	
Gate 2 reaches the open stopper and surges up.		Buzzer gives 3 x 1 second beeps and then continues intermittent beeping. Display continues showing rEF. The system now waits for an instruction before referencing closing direction.	 x3 	  Pause
Momentary BT or PED trigger.		Buzzer continues beeping and display continues showing rEF. Gate 2 begins closing	 On/off... 	
Gate 2 reaches closed position.		Buzzer continues beeping and display continues showing rEF. Gate 1 begins closing	 On/off... 	
Gate 1 reaches the closed position.		Buzzer silences and display reverts to ready.		
The system is now ready for normal use.				



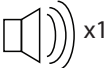

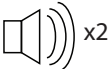
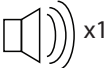

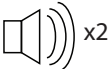
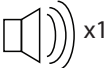

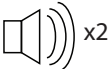
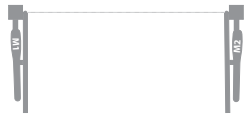
Basic operating features	Collision sensing and safety overload routines
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In the case of one of the gates colliding with an obstruction such as a person passing through the entrance way, the collision sensing will automatically detect the collision and the system will run a safety overload routine.

Safety overload routine while gates are opening.

Action	Response							
Gates busy running open.								
Gates collided with pedestrian for example. 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Both gates stop running.</td> <td style="width: 15%; padding: 5px;">Gate 1 collided</td> <td style="width: 15%; padding: 5px;">  x1 </td> <td rowspan="2" style="text-align: center; padding: 5px;">  </td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;">Gate 2 collided</td> <td style="padding: 5px;">  x2 </td> </tr> </table>	Both gates stop running.	Gate 1 collided	 x1			Gate 2 collided	 x2
	Both gates stop running.	Gate 1 collided	 x1					
		Gate 2 collided	 x2					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">The gate that was obstructed, backs away from the point of collision and stops.</td> <td style="width: 30%; padding: 5px;">No buzzer tones</td> <td style="text-align: center; padding: 5px;">  </td> </tr> </table>	The gate that was obstructed, backs away from the point of collision and stops.	No buzzer tones					
The gate that was obstructed, backs away from the point of collision and stops.	No buzzer tones							
Both gates remain stopped and the system waits for the next trigger to close.	No buzzer tones							

Safety overload routine while gates are closing.

Action	Response							
Gates busy running closed.								
Gates collided with pedestrian for example. 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Both gates stop closing and begin opening immediately.</td> <td style="width: 15%; padding: 5px;">Gate 1 collided</td> <td style="width: 15%; padding: 5px;">  x1 </td> <td rowspan="2" style="text-align: center; padding: 5px;">  </td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;">Gate 2 collided</td> <td style="padding: 5px;">  x2 </td> </tr> </table>	Both gates stop closing and begin opening immediately.	Gate 1 collided	 x1			Gate 2 collided	 x2
	Both gates stop closing and begin opening immediately.	Gate 1 collided	 x1					
		Gate 2 collided	 x2					
Both gates stop in the open position and the system waits for the next trigger to close.	No buzzer tones							

Basic operating features

Safety infra-red beams function

If the safety beam input has been switched on, the control card will constantly monitor to ensure a set of safety beams is installed.

NB! If the BT input mode has been set to either simple auto-close or condominium mode, the safety beam input is forced on. If the BT input has been set to standard mode and either the loop detector or pedestrian input is activated, the safety beam input is forced on for that transaction only.

Below is an example of how the gates will behave whenever the safety beam input is activated.



Action		Response		
Momentary BT trigger.		Gates begin opening.	No buzzer tones.	
Safety beam input momentarily triggered.		Gates continue opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
Momentary BT trigger.		Gates begin closing.	No buzzer tones.	
Safety beam input triggered.		Gates stop closing and begin opening immediately.	No buzzer tones.	
At Full open position. Safety beam input triggered.		Gates stop.	No buzzer tones.	
Momentary BT trigger. Safety beam input still triggered.		Gates remain open.	No buzzer tones.	
Momentary BT trigger. Safety beam input no longer triggered.		Gates begin closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	

Basic operating features











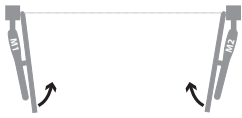

**“BT” Button triggers.
Standard mode.**

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.



Action		Response		
Momentary BT trigger.		Gates begin opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
Momentary BT trigger.		Gates begin closing.	No buzzer tones.	
Momentary BT trigger.		Gates stop closing and begin opening immediately.	No buzzer tones.	
Momentary BT trigger.		Gates stop.	No buzzer tones.	
Momentary BT trigger.		Gates begin closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	

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

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 Standard 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.



	Action		Response	
Momentary BT trigger.		Gates begin opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
Momentary BT trigger or auto-close timer times out.		Gates begin closing.	No buzzer tones.	
Momentary BT trigger.		Gates stop closing and begin opening immediately.	No buzzer tones.	
Momentary BT trigger.		Gates stop.	No buzzer tones.	
Momentary BT trigger or auto-close timer times out.		Gates begin closing.	No buzzer tones.	
At full closed position.		Gates stop.	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.



Action		Response		
Momentary BT trigger.		Gates begin opening.	No buzzer tones.	
Momentary BT trigger.		Gates continue opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
Auto-close timer times out.		Gates begin closing.	No buzzer tones.	
Momentary BT trigger.		Gates stop closing and begin opening immediately.	No buzzer tones.	
Momentary BT trigger.		Gates continue opening.	No buzzer tones.	
Momentary BT trigger or auto-close timer times out.		Gates begin closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	

Basic operating features

“PED” Pedestrian trigger.

The PED trigger is a higher security option and is used when access to or from the property is limited to exclude motor vehicles. Pedestrian mode makes use of a mandatory auto-close timer that prevents the gate from being left open after each transaction.

There are two ways of activating the “PED” functions on this control card. Either via the hardwired PED input or the PED receiver channel.

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.



Action		Response		
Momentary PED trigger.		Gates remain closed.		
Wait for warning tones to finish.		Gate 1 begins opening.	No buzzer tones.	
At preprogramed pedestrian open position.		Gate stops.	No buzzer tones.	
Pedestrian auto-close timer times out.		Gate remains at pedestrian opening.		
Wait for warning tones to finish.		Gate begins closing.	No buzzer tones.	
Momentary PED trigger.		Gate stops and immediately begins opening.	No buzzer tones.	
At preprogramed pedestrian open position.		At preprogramed pedestrian open position.	No buzzer tones.	
Pedestrian auto-close timer times out.		Gate remains at pedestrian opening.		
Wait for warning tones to finish.		Gate begins closing.	No buzzer tones.	
At full closed position.		Gate stops.	No buzzer tones.	

Basic operating features

“LPT” Loop detector trigger input.

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 LPT 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.



Action		Response		
LPT trigger.		Gates begin opening.	No buzzer tones.	
LPT trigger.		Gates continue opening.	No buzzer tones.	
At full open position.		Gate stops.	No buzzer tones.	
LPT auto-close timer times out. (Any BT, LPT or safety beam trigger while the timer is counting down, resets the timer)		Gates begin closing.	No buzzer tones.	
LPT trigger.		Gates stop closing and immediately begin opening.	No buzzer tones.	
At full open position		Gates stop.	No buzzer tones.	
LPT auto-close timer times out. (Any BT, LPT or safety beam trigger while the timer is counting down, resets the timer)		Gates begin closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	

Basic operating features


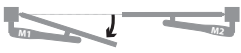
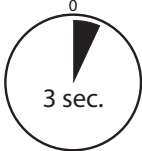

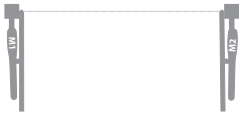


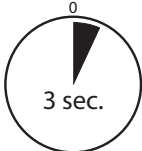


“DLY” overlapping gates, delay mode.

Overlapping gates, delay mode can be set to work with any other mode of operation.

When active, gate 1 will always open first and then gate 2 will follow. Gate 2 will always close first and gate 1 will follow.

Below is an example of delay mode working when Condominium mode is active.



Action		Response		
Momentary BT trigger.		Gate 1 begins opening.	No buzzer tones.	
After preprogrammed overlapping gate delay time.		Gate 2 begins opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
BT auto-close timer times out. (Any BT trigger or safety beam trigger while the timer is counting down, resets the timer)		Gate 2 begins closing.	No buzzer tones.	
After preprogrammed overlapping gate delay time.		Gate 1 begins closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	

Basic operating features	Auxiliary relay modes. “Lc1” Strike lock mode.
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With “Lc1” Strike lock mode selected, the auxiliary relay will pulse for 1 second, half a second before the gates open from any position.

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 “Lc1” Strike lock mode working when Condominium mode and delay mode is active.



Action		Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tones.	
Half a second after the auxiliary relay has switched on.		Gate 1 begins opening.		
Half a second after gate 1 starts opening.		Auxiliary relay deactivates.		
After preprogrammed overlapping gate delay time.		Gate 2 begins opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
BT auto-close timer times out. (Any BT trigger or safety beam trigger while the timer is counting down, resets the timer)		Gate2 begins closing.	No buzzer tones.	
After preprogrammed overlapping gate delay time.		Gate 1 begins closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	


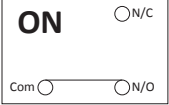


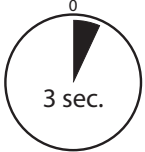

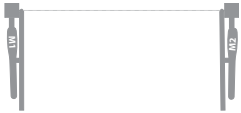
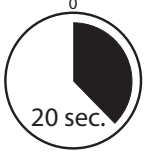

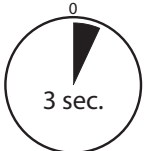



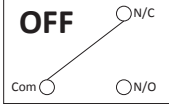
Basic operating features	Auxiliary relay modes. "Lc2" Mag-lock mode.
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With "Lc2" Mag-lock mode selected, the auxiliary relay will switch on half a second before the gates open and remain on until the gates have closed again.

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 "Lc1" Strike lock mode working when Condominium mode and delay mode is active.



	Action	Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tones.	
Half a second after the auxiliary relay has switched on.		Gate 1 begins opening.		
After preprogrammed overlapping gate delay time.		Gate 2 begins opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
BT auto-close timer times out. (Any BT trigger or safety beam trigger while the timer is counting down, resets the timer)		Gate2 begins closing.	No buzzer tones.	
After preprogrammed overlapping gate delay time.		Gate 1 begins closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	
Half a second after gate 1 has reached the closed position.		Auxiliary relay deactivates.	No buzzer tones.	

Basic operating features	Auxiliary relay modes. “LIT” Courtesy light mode.
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With “LIT” Courtesy light mode selected, the auxiliary relay will switch on half a second before the gates open and remain on for three minutes after the gates have closed again.

Below is an example of “LIT” Strike lock mode working when Condominium mode and delay mode is active.



Action	Response			
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tones.	
		Gates begin opening.		
At full open position.		Gates stop.	No buzzer tones.	
BT auto-close timer times out. (Any BT trigger or safety beam trigger while the timer is counting down, resets the timer)		Gate2 begins closing.	No buzzer tones.	
At full closed position.		Gates stop.	No buzzer tones.	
Half a second after gate 1 has reached the closed position.		Auxiliary relay deactivates.	No buzzer tones.	



If the gates are closed and any remote button learnt into the “rLY” auxiliary relay channel is pressed momentarily, the following will occur.

Auxiliary relay status	Action	Response			
	Momentary “RLY” trigger.		Auxiliary relay switches on for 1 hour.	No buzzer tones.	
	Momentary “RLY” trigger.		Auxiliary relay switches off.	No buzzer tones.	


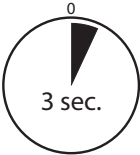
Basic operating features	Auxiliary relay modes. “rc” Receiver relay mode.
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With “rc” receiver relay mode selected, the auxiliary relay will operate in exactly the same way as a single channel receiver would, whenever a transmitter button programmed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

Latch mode. The transmitter must be released and pressed again to reactivate the relay each time.

Action				
Momentary RLY trigger.		Auxiliary relay switches on.	No buzzer tones.	<div style="border: 1px solid black; padding: 5px;"> <p>ON <input type="radio"/> N/C</p> <p>Com <input type="radio"/> ————— <input type="radio"/> N/O</p> </div>
Momentary RLY trigger.		Auxiliary relay switches off.	No buzzer tones.	<div style="border: 1px solid black; padding: 5px;"> <p>OFF <input type="radio"/> N/C</p> <p>Com <input type="radio"/> ————— <input type="radio"/> N/O</p> </div>

One shot pulse mode. The transmitter must be released and pressed again to reactivate the relay each time.
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Action				
Momentary RLY trigger.		Auxiliary relay switches on.	No buzzer tones.	<div style="border: 1px solid black; padding: 5px;"> <p>ON <input type="radio"/> N/C</p> <p>Com <input type="radio"/> ————— <input type="radio"/> N/O</p> </div>
Momentary RLY trigger.		Auxiliary relay switches off.	No buzzer tones.	<div style="border: 1px solid black; padding: 5px;"> <p>OFF <input type="radio"/> N/C</p> <p>Com <input type="radio"/> ————— <input type="radio"/> N/O</p> </div>

Basic operating features

“PCL” Positive close mode.

With “PCL” the gates will surge up hard onto their closed position stoppers.

This mode is useful when installing an electric lock as it ensures the lock physically locks each time.

Below is an example of “PCL” Positive close mode working when condominium mode, delay mode and strike lock mode are active.



Action		Response		
Momentary BT trigger.		Auxiliary relay activates.	No buzzer tones.	
Half a second after the auxiliary relay has switched on.		Gate 1 begins opening.		
Half a second after gate 1 starts opening.		Auxiliary relay deactivates.		
After preprogrammed overlapping gate delay time.		Gate 2 begins opening.	No buzzer tones.	
At full open position.		Gates stop.	No buzzer tones.	
BT auto-close timer times out. (Any BT trigger or safety beam trigger while the timer is counting down, resets the timer)		Gate2 begins closing.	No buzzer tones.	
After preprogrammed overlapping gate delay time.		Gate 1 begins closing.	No buzzer tones.	
At full closed position.		Gates momentarily surge onto the closed stoppers..	No buzzer tones.	

Advanced features.

“HOL” Holiday lock-out mode.

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.

Holiday lock-out will only work in the closed position.
 Holiday lock-out is not available in condominium mode.



Action		Response		
Momentary trigger from any transmitter button programmed into hoL channel.		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 holiday lock-out status will not change.		Buzzer and status LED beep/flash rapidly and display changes to “hoL”	x 5 rapid. hoL	
Any BT, LPT or PED triggers.		Gates do not open. Buzzer, status LED and display confirm holiday lock-out is active.	x 5 rapid. hoL	
Momentary trigger from any transmitter button programmed into hoL channel.		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 holiday lock-out status will not change.		Buzzer beeps, status LED reverts to gates running indication and gates begin opening.	x 1 	
Gates running open.		Normal operation is now functional.		

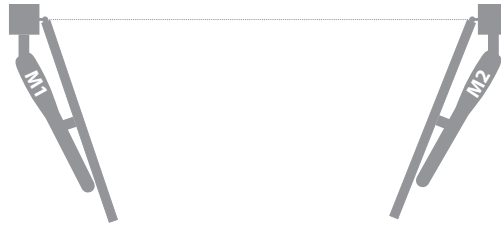
Advanced features.

“PAR” Auto-close override/Party mode.

This feature is useful at times when the gates 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 gates are being kept open intentionally. As soon as auto-close override/party mode has been deactivated, the system will resume normal operation.

Auto-close override/party mode will work in any position except the closed position.
Auto-close override/party mode is not available in condominium mode.

Gates in any position except closed



Action		Response		
Momentary trigger from any transmitter button programmed into hoL channel.		Buzzer begins toning and status LED comes on.	x 5 sec. 	
BT button while buzzer is sounding to confirm that you want to activate auto-close override/party mode. If no BT button is pressed during this 5 second window, the auto-close override/party mode status will not change.		Buzzer and status LED beep/flash rapidly and display changes to “PAR”	x 5 rapid. PAR	
Any BT, LPT or PED triggers.		Gates do not run. Buzzer, status LED and display confirm auto-close override/party mode is active.	x 5 rapid. PAR	
Momentary trigger from any transmitter button programmed into hoL channel.		Buzzer begins toning and status LED comes on.	x 5 sec. 	
BT button while buzzer is sounding to confirm that you want to deactivate auto-close override/party mode. 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 gates running indication and gates begin closing.	x1 	
Gates running open.		Normal operation is now functional.		

Advanced features.

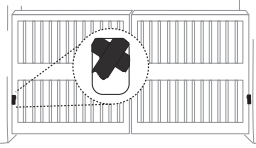





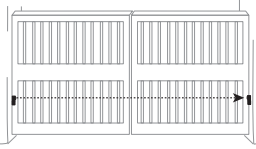


Safety beam input tampering alarm.

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.

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 property.

Safety beam alarm mode is available in all modes of operation so long as a set of safety beams is installed.



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.		
Safety beam equipment returned to normal functioning status.		Alarm output returns to standby.		

Status LED indications guide.

Description	Visual confirmation	Reason
Static off.		Gates fully closed.
Flashing slow 1 second on and 1 second off.		Gates running normally.
Static on.		Gates open.
Flashing rapidly. 250ms on 250ms off continuously.		One of the gates has collided with an obstruction.
2 x 500ms flashes followed by a 2 second pause.		AC mains off. Restore AC as soon as possible.
4 x 500ms flashes followed by a 2 second pause.		Battery low. Allow at least 8 – 10hr uninterrupted charge before checking again.
5 x 125ms second rapid flashes each time a trigger is received.		A lock-out mode is active. Press and release any holiday lock-out button to deactivate.

Trouble shooting guide.

Action	Display	Buzzer	Status LED	Reason	Resolve by	Reference page
Any trigger	hol	5 x 125m/sec rapid beeps.	See previous table.	Holiday lock-out active.	Deactivate Holiday lock-out.	Page 20.
Any trigger	PAR	5 x 125m/sec rapid beeps.	See previous table.	Party mode/auto-close override active.	Deactivate Party mode/auto-close override.	Page 21.
For 5 minutes after any operation.	Ac	1 x 125m/sec beep every 15 seconds.	See previous table.	Household VAC mains failure.	Restore VAC mains supply as soon as possible or disable AC monitoring.	
No user action. System automatically tests.	bAt	None	See previous table.	Battery level low under load.	Allow 8 – 10 hours uninterrupted recharge. If the battery level does not recover, replace the battery.	
Any trigger	rEF	Continuous repetitive 1 second beeps.	None.	Motor position reference out of sync.	Complete the end of travel reference routine.	Page 6.
Any trigger	rUN	5 x 1 second slow beeps.	None.	Runtime setup not completed properly.	Call your service provider/installer.	Page 1.
While “rEF” routine is running.	EE	5 x 1 second slow beeps.	None.	One of the gates collided with an obstruction while referencing.	Clear the physical obstruction after which you can try again. If no obstruction is apparent, call your service provider/installer.	Page 1.

Receiver user address log											
Address	Channels				User identification	Address	Channels				User identification
	BT	PED	RLY	HOL			BT	PED	RLY	HOL	
001						033					
002						034					
003						035					
004						036					
005						037					
006						038					
007						039					
008						040					
009						041					
010						042					
011						043					
012						044					
013						045					
014						046					
015						047					
016						048					
017						049					
018						050					
019						051					
020						052					
021						053					
022						054					
023						055					
024						056					
025						057					
026						058					
027						059					
028						060					
029						061					
030						062					
031						063					
032						064					

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.
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.