Installer Instructions





Low traffic 300kg Slide Gate Operator



a company of TheNiceGroup



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Be Safe!

WARNING!! These are the general safety obligations for the installers and users of ET Systems automation equipment. A copy of this document also appears in the user instructions. Those instructions must be issued to the responsible end user during the handover and instruction meeting.

- 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 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 cannot accept responsibility for improper use or incorrect installation of this product.
- 5. ET Systems cannot accept responsibility if the principles of good workmanship are disregarded by the installer.
- 6. ET Systems 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 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 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.

- 5. 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 6. beam set when using the automatic closing feature. It is recommended that a warning light be fitted to any automation system.
- 7. 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. 1.
- 2. Is issued with the documentation accompanying this product.
- 3. 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 4. 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 5. automation system in an unsafe condition before a service provider attends to it.
- Is proficient in testing the unit's safety obstruction sensing system. 6.
- 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 7. 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 8. 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.					
Rated gate mass.	300kg				
Maximum gate leaf length.	25m				
Primary power supply to gate.	220 – 240Vac @ 50Hz – 60Hz (A low voltage plug-in transformer can be purchased and installed if required)				
Peak power consumption at gate	18W				
Electrical class.	Class 1 🕀				
Motor voltage.	24Vdc				
Motor current limiting.	5A Starting / 3,5A Running				
Rated duty cycle.	25% with 220Vac present (See determining your duty cycle on page 7)				
Number of operations on battery reserve within 24 hours of power failure.	100 (Gate load and battery health dependent. Based on a gate opening of 4m)				
Gate speed.	25m/min (Gate load and battery health dependent)				
Rated Load.	300N Starting / 240N Running				
Operating temperature range.	-10 to 50° C (14F to 122F)				
Anti-crushing safety sensing.	Yes – Electronic gate profiling				
Auxiliary supply output.	12Vdc @ 400mA				
Built in battery charger.	Multiple stage auto-calibrating (350mA peak)				
Receiver format.	ET BLU MIX [®] Backward compatible with ET BLUE (Rolling code)				
Receiver frequency.	433.92MHz				
Receiver channels.	4CH (BT, PED, Aux relay, Holiday lock-out)				
Receiver memory capacity.	32 users				
All users can be allowed control of all channels.	Yes				
Ingress protection.	IPX4				

Component identification and descriptions.



Diagram number	Description	Diagram number	Description
1	Control card	10	Baseplate
2	Dashboard	11	220V connector
3	Plug-in terminal connectors	12	Manual release
4	Manual release monitoring reed switch	13	Manual release lock
5	Battery	14	Electric motor
6	Transformer housing	15	Electric motor brush ports
7	Mounting bolts	16	Revolution counter ring magnet
8	Gearbox	17	Ends of travel limits, reed switch
9	Cable inlets	18	Output drive pinion

Operator dimensions.





Gate preparation and mechanical requirements.

BEFORE ATTEMPTING TO INSTALL A SLIDE GATE OPERATOR, PLEASE BE CERTAIN YOU HAVE READ AND UNDERSTOOD THE FOLLOWING TO ENSURE CONTINUED SATISFACTORY SAFE SERVICE FROM THIS PRODUCT:

The following are points to note before installing your new slide gate operator:

- 1. Gate mechanics.
- 2. Duty cycle.
- 3. Where to position the gate motor with regards to ingress protection.
- 4. Cabling requirements.

Gate mechanics.

Gate Leaf:

Gate leaf must be sound and of sufficient construction to accommodate an operator of this type (see technical specifications). Gate leaf should be straight and true with minimal deviation to the fascia that the rack must attach to (no 'banana-effect').

Wheels and track:

The track must be secure, straight, level and free of all obstructions.

Recommended wheel type and size for this automation is steel or steel alloy, machined or cast wheels of at least 100mm diameter using sealed roller bearings. The larger the wheel the less rolling resistance generated. Larger wheels also maintain their plumb and momentum longer. When wheels are fixed in the gate, and not able to pivot, binding can occur if the gate is bowed. (Banana effect) For wheel profile and matching track types, see the three examples below:



Guides:

- It is recommended that a roller guide consisting of a sealed roller bearing clad in nylon be used.
- The guidance system should be installed at the top edge of the gate whenever possible. In cases where this is not possible the guidance system should never be below the halfway point of the total gate height when the gate is in position on its track.
- In the case of a single guide roller running in a guide channel, ensure the guide never touches both inside walls of the channel simultaneously. This causes the roller to snag as it tries to roll in both directions at once.
- In the case of 2 guide rollers being used on either side of the gate leaf, ensure that both wheels never touch the leaf simultaneously.
- Avoid using more than 1 guide roller on the same side of the gate leaf to prevent binding.
- As with the wheels the larger the guide the less rolling resistance generated.

Gate Travel:

Using a fisherman's pull scale, as shown below, pull the gate fully open and fully closed at approximately the same speed as the operator you intend to use (see technical specifications). For optimum performance, ensure that the maximum resistance does not exceed 30kgF starting and 24kgF running. The starting resistance should fall away within 300 to 500mm. Note the recommended track, wheel and guide types mentioned b) and c) above.

NB! Install physical stoppers at the ends of the gate travel to prevent the gate over-running the ends of the track as shown here. (National safety standard requirement)



Duty Cycle.

The Formula used to determine duty cycle is:

Run time

Run time + rest time x 100 = Duty cycle

Working example 1: (Low duty cycle)

Run time: 12 seconds. Rest time: 36 seconds.

12 ÷ 48 x 100 = 25

Thus the duty cycle in example 1 is said to be 25%

Working example 2: (High duty cycle)

Run time: 12 seconds. Rest time: 1 second.

12 ÷ 13 x 100 = 92.3

Thus the duty cycle in example 2 is said to be 92.3%

The above examples do not factor in resistance and gate mass. These two elements contribute greatly to the amount of heat generated in your gate automation system.

Below are the maximum allowed duty cycles based on the gate mass and rolling resistance for the ET motor models. These are calculated to conform to the standards set out in the SANS 60335-95-1:2011 safety code.

Duty cycle capabilities guideline of the ET Drive series motor models:

Model	Gate Mass	Starting resistance	Rolling resistance	Max Duty Cycle
Drive 300	≤ 300kg	≤ 30kgf	≤ 24 kgf	25%

Where to position the gate motor.

Liquid ingress:

The ET Drive series motor models all carry an ingress protection rating of IPX4. This means they are protected from splashing water. They are not water tight as there are sensitive electronic and electrical circuits that require uninhibited airflow to remain cool and dry. When deciding on an installation position, be aware of water collection points around and near the desired mounting position of the motor unit. If the water does not flow away quickly enough, it can seep into the system and cause expensive and possibly hazardous damage. Always install the unit higher than the highest level that any water flowing past the motor unit can reach.

Physical protection:

Whenever possible, always install the gate motor on the opposite side of the gate's guide/emergency post, to the driveway itself. This way it is out of the path of the motor vehicles as they pass through the entrance/exit.

Cabling requirements.

- Before mounting the operator ensure your cables and conduiting are in place to prevent any inconvenience at a later stage.
- All household mains cabling and circuits need to be installed by a qualified electrician and signed off by a registered electrician.
- Allow for spare cabling in case of faulty cable & breakages (especially important when using low specification cable).
- As automation systems vibrate when in use, it is highly recommended that only multi-stranded, flexible cables be used.
 - If installing an intercom, remember to allow for sufficient cable cores for all the users of the system as per manufacturers cabling requirements.
 - The Drive 300 motor is designed to facilitate 1 x 20mm conduit going directly into its housing from below. If more cabling needs to be routed to the motor, we suggest that a weatherproof electrical box be installed as a distribution box. All of the circuits can then be extended to the distribution box and terminated there.



1.	Courtesy lights twin + earth 1.0mm back to motor housing and isolator switch.	7.	Free exit loop 1.5mm silicone insulated single core flexible stranded cable back to loop detector that is typically installed in the motor housing.
2.	Intercom gate station (check with intercom supplier for cable specifications)		From intercom internal equipment (check with intercom supplier for specifications) + 5 cores 0,5mm stranded for status LED, BT and Pedestrian triggers.
3.	(220Vac) - twin + earth: 2,5mm stranded (An all pole negatively biased isolator must be installed within 1,5m of the motor unit, in circuit with the 220Vac supply)	9.	Alarm monitoring circuit. 2 cores 0,5mm stranded back to motor housing.
4.	Safety infra-red beam RX power & switch. 4 cores 0,5mm stranded back to motor housing.	10.	Optional plug in transformer for low traffic sites (29Vac) - twin + earth. Min 0,5mm stranded (1Amp)
5.	Safety infra-red beam TX power. 2 cores 0,5mm stranded back to motor housing.	11.	Lock power supply. Twin + earth 2,5mm stranded from isolator switch.
6.	Electric lock power. 2 cores 0,5mm stranded back to independent lock power supply via motor housing.		

Baseplate and fastener kit assembly.



Diagram number	Description			
1	M10 Machine nuts.			
2	M10 Flat washers.			
3	M10 J-Bolts for concrete casting method.			
4	Cabling conduit piping.			
5	Baseplate.			

Installing the baseplate.

There are a number of different fastening techniques that can be used to fasten the baseplate in position. The standard kit is supplied with J-bolts so that the baseplate can be cast in concrete. While this method offers a nice solid base it takes more than 48hrs to install as the concrete must cure properly before continuing with the installation. Whichever mounting method you opt for, the position of the base plate will always remain the same. Below are the dimensions to use when positioning the baseplate. The baseplate should be installed above the highest point of flooding that may occur with the run off of water down the driveway.



Trim the conduits off where the ends are level with the top of the baseplate. If any part of the conduits protrude above the top of the basepate, it will be difficult to adjust the position of the gearbox on top of the baseplate.

How to use the manual release.

Move gate open and closed by hand.

1. Unlock the manual release lever lock using the key supplied.





To re-engage the gearbox lower the manual release lever and lock it once again. Gently pull or push the gate by hand until the gears fall into place before triggering the unit to run.

Referencing the closed position

On the first trigger subsequent to the gearbox being engaged after a manual release, the gate will close at half speed. The system is looking for the closed position which is the origin point. This is known as referencing the closed position. If any of the trigger inputs are activated or the safety overload sensing is activated while the gate is busy "referencing" then the gate will simply stop. The next trigger will cause the unit to continue "referencing". While referencing the closed position the display will show $\neg EF$. Referencing the closed position will also occur on the first trigger after exiting programming or powering up a previously programmed control card.

Mounting the operator onto the baseplate.

Removing the cover:

The cover is secured in place by means of four screws. One of which is secured beneath the manual override lever.



Mounting the gearbox: (You will need a 13mm socket or spanner)

The gearbox is fastened onto the baseplate by means of the 2 x 25mm x M8 machine bolts and custom mounting plates. The gearbox distance from the gate can be adjusted backwards and forwards by up to 30mm. Remember to ensure that there is enough space allowed between the fascia of the pinion and the proudest part of the gate that passes the pinion. This is to prevent any part of the gate snagging on the pinion as the gate runs. At this stage of the installation it is recomended that you place 2 x 2mm thick flat bars in between the baseplate and motor to facilitate the correct rack height later. See page 12 and 13 overleaf.



Rack to pinion spacing.

	incorrect:
This will cause skipping of teeth at the slightest resistance to the gate travel, resulting in the motor control going out of synchronization to the gate position. The long term damage here will be stripped teeth.	This will cause unwanted rolling resistance especially in colder conditions. Where the wheel shrinkage will cause the gate to sit heavier on the pinion or when the rack is no longer square to the pinion due to gate flex. (False safety sensing activation)
X Too loose	X Too tight
	This will cause skipping of teeth at the slightest resistance to the gate travel, resulting in the motor control going out of synchronization to the gate position. The long term damage here will be stripped teeth.

The following shows a simple method of installing a rack that ensures you achieve the correct fit between the rack and pinion.

- Clamp the end of the first length of rack's end to the closing edge of the gate.
 Rest the other end of the length on the pinion as shown here.
- Rest the other end of the length on the pinion as show
 Use a spirit level to ensure the rack remains true.



• If satisfied with the rack level fasten the first "TEK" screw (supplied) in the middle of the slot nearest the closing edge of the gate.



• Move the gate towards the open position. Far enough that you can access the last mounting slot at the opposite end of the length of rack to the end already fastened. Fasten the next "TEK" screw here while the rack still rests atop the pinion.



- To install additional lengths of rack, move gate closed until the next length of rack meets the first length and the opposite end once again rests on the pinion.
- To ensure the 2 lengths of rack marry correctly use an off cut of rack clamped upside down across the join of the 2 lengths.
- Continue to fasten the "TEK" screws as before



• When finished installing sufficient rack to allow for the full travel of the gate plus enough to allow for the limit actuator (as shown in the next section) lower the gearbox by removing the two 2mm spacer bars.



- Test the meshing of the rack and pinion. (See pictures of rack to pinion spacing on previous page).
- If satisfied fasten a "TEK" screw directly through both the rack angle and the gate so that you have 5 "TEK" screws per length of rack evenly spaced.



Electrical and electronic installation and setup.

As a gate motor vibrates when in use, it is strongly recommended that only multiple strand flexible cables be used. Before closing the unit, always remember to double check that all connections are securely made, that there are no stray strands flaring out that can short circuit against other adjacent connections or bared wires and that no cables will be pulled loose when the cover is replaced on the unit. Double check the battery connections as loose connections can cause arcing and corrosion of the battery terminals.

Terminating the AC voltages:

If you have chosen to install the standard kit which requires 220Vac at the gate motor then the 220Vac must be circuited through a weatherproof all pole isolator switch. This isolator switch must be installed within 1,5m of the unit, must not be installed within the workings of the system (the gate may not pass in front of it) and must be positioned so that it cannot be tampered with for the outside of the property. This circuit must be certified by way of a C.O.C. (certificate of compliance) by a registered electrician.

In the case of the plug-in transformer option being used, where the low voltage 29Vac is run to the gate, there is no need for the all pole isolator at the gate and the circuit does not need to be certified by a registered electrician*. The cable however must still be installed in its own dedicated conduit pipe and the basic principles of electrical safety standards should still be followed when selecting, working with and installing the cable for this circuit.

* Some municipalities may require certification of all domestic electrical circuits including those below 50V.



Accessing the 220VAC 0.5A fuse in the case of a burnt out fuse.



Wiring and termination of the control card.



Label	Description	Label	Description
AC	29VAC input.	СОМ	Auxiliary relay common input.
BAT	Battery power input.	NC	Auxiliary relay normally closed output.
M+	Motor red output.	12V	Ancillaries 12VDC power output.
M-	Motor black output.	0V	0V Common output.
0V	0V Common output.	ST	Status LED output. (-)
LC	Closed limit input.	BM	Safety beam (detection device) input.
LO	Not used	IN1	Button trigger input. Full opening.
5V	Not used	IN2	Pedestrian trigger input. Partial opening.
NO	Auxiliary relay normally open output.	IN3	Not used



Installing the limit actuator.

This diagram depicts how to install the limit actuator.



Before continuing with the commisioning.

If you are unfamiliar with the functionality of this product's modes, it is suggested that you familiarise yourself with the basic and advanced operating features detailed from page 32 of this instruction manual.

Using the control card display and dashboard.

The Drive 300 is equipped with an LED display and interactive keys for simplified programming and diagnostics. All setup of the various features requires that the control card dashboard be used. Below are the functions of each key on the dashboard.



Control card programming and setup.



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Setting up the gate runtime. (Mandatory)							
From Ready status		rd4	Before continuing with the runtime setup ensure the limit actual been installed correctly as per page 16 in this manual. Begin wi gate midway in its travel. NB. To speed up the gate while running during this procedure, press an			the limit actuator has anual. Begin with the ocedure, press and hold	
			either the < or > butt	ons.			
Action		Description	Display	Response Buzzer		Gate/s	
To enter the program menu. Press and hold the button until buzzer beeps.	- Su	Display and buzzer confirms.	Pr9	Ū∭)×2			
Scroll < or > to select the runtime setup option.	Em Em	Display scrolls through options.	run				
Ensure gate is engaged midway and then press D button.		Display prompts you to confirm gate closing direction.	cL d rr	-□)))×1			
Confirm gate closing direction by pressing and releasing either the < or > button.		Gate closes slowly. Display confirms.	LFE r9E				
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops and starts opening.	Lrn				
Press and release the D button to stop the gate at the required open position.	<u>En</u>	Gate stops opening. Display asks you to fine adjust the open position if required.	RdJ				
Fine adjust the open position using the < or > buttons, if necessary.	Em Im	Gate moves with each button press in either direction.	RdJ				
When satisfied with the open position, press and release the D button to save that position.	<u>S</u> m	Gate closes slowly. Display and buzzer confirms.	Len	⊥()))) x1			
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops. Display and buzzer warn the profiling is about to begin.	Pro	⊥()))) x1			
Once warning tone has stopped.	Ŵ	Gate begins running open at full speed. Display confirms.	Pro	∭)))On/off			
When the previously programmed open position is reached.		Gate stops and begins closing again at full speed. Display confirms.	Pro	Dn/off			
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops. Display and buzzer confirms.	dnE	[[]))) x2			
Scroll left or right to next program option.	Em Em	OR	EXIT back to ready status	"Im	Ē	69	

For	Selecting a safety level.					
From Ready status		This adjusts the force level, over and above the nominaresistance, needed to trigger the safety overload rou Level 1 being the most sensitive and 8 being the least tive. The factory default is level 3.				
A -1 ¹ -1			Resp	onse		
Action	1	Description	Display	Buzzer	Gate	
To enter the program menu. Press and hold the D button until buzzer beeps.	(Internet in the second	Display and buzzer confirms.	Pr9	∭x2		
Scroll < or > to select the collision force setup option.	En En	Display scrolls through options.	For			
With "For" on the display, press and release \Box .	. Su	Display shows current option status.	E00	⊥()))) x1		
Scroll < or > to the required setting.	En In	Display changes respectively.	006			
With required setting displayed, press and release	Jen J	Display briefly shows the new setting is saved.	006	∭)x2		
After display confirms new setting.	006	Display returns to programming menu options list.	For			
Scroll left or right to next program option.	En In	OR	EXIT back to Ready status	. Sm	r d y	

Л

0-b		Safety infra	a-red beams se	tup.		
From Ready	status	rdy	Use this option to enable the safety beam circuit. The sa beams circuit must be configured as per page 15 with end of line resistor installed.			
Action			Resp	onse		
Action		Description	Display	Buzzer	Gate	
To enter the program menu. Press and hold the D button until buzzer beeps.	. Sm	Display and buzzer confirms.	Pr9	∭) x2		
Scroll < or > to select the beam setup option.	En In	Display scrolls through options.	ur b			
With "irb" on the display, press and release 口 .	- Sm	Display shows current option status.	oFF	□〔〕))) ×1		
Scroll < or > to toggle between "on" or "off".	En En	Display changes respectively.	on			
With required setting displayed, press and release .	- Sm	Display briefly shows the new setting is saved.	on	∭¥2		
After display confirms new setting.	Beam Setup Enabled Saved	Display returns to programming menu options list.	0 - b			
Scroll left or right to next program option.	Ens En	OR	EXIT back to standby status	"Im	Pr9	

Selecting a BT o	Selecting a BT operating mode and adjusting the BT auto-close time.							
From Ready status		rdy	The factory default is The factory default a 1 – 254 seconds. PLEA be installed using the lecting any of the aut figured then the auto and not available. The forms to the CE safet	t is standard 3 step mode. t auto-close time is 15 seconds. The timer range is LEASE NOTE!! A set of safety infra-red beams must the technique indicated in this manual before se- nuto-close modes. If "irb" mode has not been con- uto-close modes are blanked out of programming The safety beam function on this control card con- tety standards.				
Action			Res	ponse				
		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold the D button until buzzer beeps.	. Stu	Display and buzzer confirms.	Pr9	[〔〕))) x2				
Scroll < or > to select the bt setup option.	En In	Display scrolls through options.	66					
With "bt" on the display, press and release 口 .	. Im	Display shows current option status.	Std	⊥)))×1				
			Sed					
		Display changes respectively.	Aut					
Scroll < or > to the required BT mode option.	quired In In		con					
			P-c					
With required setting	Star	If Standard mode was selected, the display and buzzer will confirm the setting is saved. Display then reverts to programming options list.	bЕ	□))))×2				
displayed, press and release		If Auto-close, CONDO, P.I.R.A.C. or P.I.R.A.C.+ CONDO were selected, then the display prompts you to select the required auto-close time.	0 15					
Scroll < or > to the required setting.	En En	Display changes respectively.	0 10					
With required setting displayed, press and release	- Star	Display briefly shows the new setting is saved.	0 10	[1]))) x2				
After display confirms new setting.	0 10	Display returns to programming menu options list.	65					
Scroll left or right to next program option.	En En	OR	EXIT back to standby status	En Carlo	r d y			

PEd	Setting up the pedestrian open distance and pedestrian auto-close time.					
From Ready status		r d Y	completed first before the ed. Dening is 1000 mm. me is 2 seconds. The timer ms are installed then the tep mode where the gate fety infra-red beams must indicated in this manual to fan mode. The safety beam onforms to the CE safety			
			standards.			
Action			Resp	onse		
To enter the program menu. Press and hold the D button until buzzer beeps.	<u>In</u>	Display and buzzer confirms.	Display	Buzzer	Gate	
Scroll < or > to select the pedestrian setting option.	En En	Display scrolls through options.	PEd			
With "Ped" on the display, press and release \Box .	<u>In</u>	Display shows current pedestrian opening distance. in 100mm increments.	0.10	⊥_))) ×1		
Scroll < or > to the required setting.	En En	Display changes respectively.	00.7			
With required setting displayed, press and release D .	<u>S</u>	If irb mode has not been configured then the display briefly shows the new setting is saved and reverts back to the programming options list.	PEd	ŢĴ)))×2		
		If irb mode has been configured then the display briefly shows the new setting is saved and then displays the current pedestrian mode auto-close time.	200	ŢĴ))) ×2		
Scroll < or > to the required setting if necessary.	En En	Display changes in seconds with each button press.				
With required setting displayed, press and release	<u>Su</u>	Display briefly shows the new setting is saved and buzzer confirms.	001	☐))) x2		
After display confirms new setting.		Display returns to programming menu options list.	PEd			
Scroll left or right to next program option.	Jen Jen	OR	EXIT back to standby status	"In	rdy	

From Ready status Image: Constraint of the buttons have been set to the same format, receiver will allocate 2 user addresses for the various butt the buttons set to ET BLU MIX @ anamitter is being not all of the buttons have been set to the same format, receiver will allocate 2 user addresses for the various but the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being on all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons set to ET BLU MIX @ anamitter is being not all of the buttons the buttons set to ET BLU MIX @ anamitter is being not all of the buttons the buttons to the set all of the cuttons and receiver set and release D. With "trn" on the display, press and release D. Display prompts you to select a function. b b	7
Response Response Description Display Buzzer Gate To enter the program menu. Press and hold the B button until buzzer beeps. Display and buzzer confirms. P - 9 Display x2 Scroll < or > to select the receiver setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. With "rc" on the display, press and release II. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Scroll < or > to the required receiver function/channel option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. NBI Corresponding 4 function learn option is explained in the next Image: Scroll setup option Image: Scroll setup option. Image: Scroll setup option.	e. Jsed and then the Ons. 1 for ET BLUE.
Description Display Buzzer Gate To enter the program menu. Press and hold the buttor until buzzer beeps. Display and buzzer confirms. Pr-9 I)) x2 Scroll < or > to select the receiver setup option. Image: confirms. Image: confirms. Image: confirms. With "rc" on the display, press and release I. Image: confirms. Image: confirms. Image: confirms. With "rc" on the display, press and release I. Image: confirms. Image: confirms. Image: confirms. With "rc" on the display, press and release I. Image: confirms. Image: confirms. Image: confirms. Scroll < or > to the required receiver function/channel option. Image: confirms. Image: confirms. Image: confirms. NBI Corresponding 4 function learn option is explained in the next Image: confirms. Image: confirms. Image: confirms. NBI Corresponding 4 function learn option Image: confirms. Image: confirms. Image: confirms. Image: confirms. NBI corresponding 4 function learn option Image: confirms. Image: confirms. Image: confirms. Image: confirms. Image: confirm. Image: confirm. Image: confirm. Image: confirm. Image: confirm. Scroll < or > to the requi	
In click the press and hold the button until buzzer beeps. Display and buzzer confirms. P-9 D) x2 Scroll < or > to select the receiver setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. With "rc" on the display, press and release I. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. With "Lrn" on the display, press and release I. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Scroll < or > to the required receiver function/channel option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. NBI Corresponding 4 function learn option is explained in the next Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. NBI Corresponding 4 function learn option Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. NBI corresponding 4 function learn option Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. NBI corresponding 4 function learn option Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup option. Image: Scroll setup o	
Scroll < or > to select the receiver setup option. Display scrolls through options. FC With "rc" on the display, press and release □. Display shows current option status. Lrnn D) x1 With "Lrn" on the display, press and release □. Display prompts you to select a function. BEE Display changes respectively. Scroll < or > to the required receiver function/channel option. Display changes respectively. Display changes respectively. Display changes respectively.	
With "rc" on the display, press and release I. Display shows current option status. Lrn D) x1 With "Lrn" on the display, press and release I. Display prompts you to select a function. BE BE Scroll < or > to the required receiver function/channel option. Display changes respectively. Display changes PEd NBI Corresponding 4 function learn option is explained in the next Display changes Linit Here Linit Here	
With "Lrn" on the display, press and release □ . Display prompts you to select a function. bet Scroll < or > to the required receiver function/channel option. Display changes respectively. Bet NB! Corresponding 4 function learn option is explained in the next Display changes respectively. Display changes respectively.	
Scroll < or > to the required receiver function/channel option. NB! Corresponding 4 function learn option is explained in the next	
instruction table on the next page.	
Press and hold required button on the remote transmitter.	
While still transmitting with the remote button, press and release D . After the D button has been released, the user address for that transmitter displays and the buzzer beeps confirms.	
Release the button on the remote transmitter.	
Repeat the last 4 steps here for additional users or functions, or exit back one level in the receiver setup menu for other receiver setup opt	ions.
Scroll left or right to next program option. OR EXIT back to standby status	

cor	Receiver programming and setup. Setting up a new user. (Corresponding 4 function learn option)						
From Ready	status	rd¥	The gate can be in any position when performing this routine.				
Action			Res	sponse			
		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	'Zm'	Display and buzzer confirms.	Pr9	□)))) ×2			
Scroll < or > to select the receiver setup option.	En En	Display scrolls through options.	гс				
With "rc" on the display, press and release \Box .	Ju)	Display shows current option status.	Lrn	⊥∭)x1			
With "Lrn" on the display, press and release D .	Ju)	Display prompts you to select a function.	66				
Scroll < or > to the corresponding learn option.	En In		cor				
Press and hold any button on the remote transmitter.							
All four buttons must be set to the same format for this to work in the same way as this example.							
While still transmitting with the remote button, press and release D .	Em	After the D button has been released, the user address for that transmitter displays and the buzzer beeps once.	200	⊥())))×2			
Release the button on the remote transmitter.							
Each button on that remote t channel allocations.	transmitter has been al	located to the channels o	on the receiver. Please	see below for the	e automatic button to receiver		
Repeat the last 4 steps here f	for additional users or e	exit back one level in the	receiver setup menu fo	or other receiver	setup options.		
Scroll left or right to next program option.	An An	OR	EXIT back to standby status	"Im	rdy		
ET Blue - BT Channel Red - RLY Channel	reen - PED Channel rey - HOL Channel	Blue - RLY Channel –		-Green - HOL Channel Grey - BT Channel			

All buttons should be set to either ET BLUE format or ET BLU MIX © format for this to work as shown here.

Receiver programming and setup. Erasing a single user from the memory.							
From Ready s	tatus	rdy	The gate can be in ar	ny position when	performing this routine.		
Antion			Response				
Action		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	. Star	Display and buzzer confirms.	P-9	∭)x2			
Scroll < or > to select the receiver setup option.	En En	Display scrolls through options.	ΓĽ				
With "rc" on the display, press and release \Box .	. Star	Display shows current option status.	Lrn	⊥))))x1			
Scroll < or > to select the Erase remotes option.	En En	Display scrolls through options.	ErA				
With "ErA" on the display, press and release D .	Jen J	Display shows first erase option.	Rdr				
With "Adr" on the display, press and release □.	. Em	First user address displays.	001	⊥∭)x1			
Scroll < or > to the user address that you would like to erase.	En In	Display scrolls through user addresses.	603				
With the correct user address displayed, press and hold □ .	. Star	Display begins flashing the user address selected.	E00				
While still holding D press the > button.	A A	Display confirms the user address erase is done.	dnE	∭)x2			
After the display confirms the erasing of the address is done release the buttons.	dnE	Display reverts back to the user address erased.	001				
Repeat the last 4 steps here t	o erase additional u	isers or exit back one level in th	e receiver setup menu	for other receive	er setup options.		
Scroll left or right to next program option.	En En	OR EX	(IT back to standby atus	Em)	r d y		

ALL		Receiver programming and setup. Master erasing all users from the memory.					
From Standby	y status	rdy	The gate can be in any position when performing this routine.				
Action			Res	ponse			
Action		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	<u>En</u>	Display and buzzer confirms.	Pr9	□))))×2			
Scroll < or > to select the receiver setup option.	En En	Display scrolls through options.	ГC				
With "rc" on the display, press and release \Box .	<u>S</u> m	Display changes to "Lrn" and buzzer beeps once	Lrn	□〔〕))) x1			
Scroll < or > to select the Erase remotes option.	En En	Display scrolls through options.	ErR				
With "ErA" on the display, press and release D .	"In	Display changes to "Adr" and buzzer beeps once.	Rdr	□〔〕))) x1			
Scroll < or > to select the Erase ALL memory option.	En En	Display scrolls through options.	ALL				
With "ALL" on the display, press and hold 口 .	. Em	"ALL" remains displayed	ALL				
While still holding □ press the > button.	En En	Buzzer begins beeping intermittently and "ALL" begins flashing. NB! Releasing either button at this point will "Can" cancel the master erase.	RLL	On/off			
Keep holding the buttons.	En En	Display changes to "" and buzzer silences. The master erase has begun.		X			
Release the buttons.		Buzzer beeps and "dnE" displays to indicate master erase is done.	dnE	□))))×1			
Press and release X to return to the main receiver programming menu.	. Star	Display changes to "ALL" and buzzer beeps.	ALL	□〔〕))) x1			
Scroll left or right to next program option.	En In	OR	EXIT back to standby status	"Im	rdy		

	Receiver programming and setup. Using the diagnostics feature.							
From Ready s	tatus	rdy	The gates can be in any position when performing this routine.					
				Response				
Action		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold D until buzzer beeps.	- Sm	Display and buzzer confirms.	P-9))) x2	Not appicable.			
Use the < or > buttons and scroll until "rc" displays	En En		ГС		Not appicable.			
With "rc" on the display, press and release D .	Jen J	Display changes to "Lrn" and buzzer beeps once	Lrn))) ×1	Not appicable.			
Use the < or > buttons to select "diA"	En En	Display changes with each button press.	d ,A		Not appicable.			
With "diA" on the display, press and release D .	In	Display changes to the signal strength indicator and buzzer beeps once	l))) x1	Not appicable.			
			I		Not appicable.			
		Low signal.	11		Not appicable.			
In the case of any transmitte frequency as the receiver, b	er on the same eing active in the	Low/medium signal			Not appicable.			
area, the signal strength gui how strong the incoming in	ide will display terfering signal is.	Medium signal			Not appicable.			
		Medium/strong signal			Not appicable.			
		Strong signal			Not appicable.			
		Buzzer beeps once and user address display momentarily.	008	□)))) ×1	Not appicable.			
Press and release a remote transmitter button already learnt into the receiver memory.	2m	Followed by the channel that button is learnt into.	66		Not appicable.			
	EL	Followed by the signal strength of the transmission.			Not appicable.			
When done testing remotes, press and release X to return to the main receiver programming menu.	. Cher	Display changes to "diA" and buzzer beeps once	d ıR	□〔〕))) x1	Not appicable.			
Scroll < or > to next program option.	En In	OR	EXIT back to Ready status	. An	r d y			

- 5	Receiver programming and setup.							
		Viewing the receiver version and information. "inF"						
From Ready s	tatus	rdy	The gates can be in any position when performing this routine.					
Action				Response	sponse			
Action		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold D until buzzer beeps.	"Im	Display changes to "Prg" and buzzer beeps.	Pr9)))×2	Not appicable.			
Use the < or > buttons and scroll until "rc" displays	En En	Display changes with each button press.	ΓC		Not appicable.			
With "rc" on the display, press and release D .	Su)	Display changes to "Lrn" and buzzer beeps once	Lrn	⊥∭)×1	Not appicable.			
Use the < or > buttons to select "inf"	En En	Display changes with each button press.	inF		Not appicable.			
		Buzzer beeps once and the display scrolls through the receiver information. Note the position of the decimal point each time the display changes.		⊥())))×1	Not appicable.			
		Users already in memory.			Not appicable.			
			oF		Not appicable.			
With "inF" on the display, press and release D .	. Em	User memory capacity.	560		Not appicable.			
		Software version.	50.0		Not appicable.			
		Hardware version.	6.00		Not appicable.			
		Device identification.	.500		Not appicable.			
When done, press and release X to return to the main receiver programming menu.	- Star	Display changes to "inf" and buzzer beeps once	ιπF	()))) x1	Not appicable.			
Scroll < or > to next program option.	Em Em	OR	EXIT back to Ready status	. In	rdy			

Switching	Switching the AC Monitoring and/or built-in charger on or off.							
From Ready status		rdy	The gate can be in any position when performing this routine. The factory default is: AC Monitoring - On Charger - On					
Action			Response					
Action		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold the button until buzzer beeps.	. Star	Display changes to "Prg" and buzzer beeps.	Pr9	[[]))) x2	Not appicable.			
Scroll < or > to select "PSu" setup option.	En In	Display changes with each button press.	PSu		Not appicable.			
With "PSu" on the display, press and release D .	Str.	Display changes to "Ac" and buzzer beeps.	Rc	())) x1	Not appicable.			
Scroll < or > to the	A. A.	Charger.	chr		Not appicable.			
required setting.		AC Monitoring.	Ac					
With required selection displayed, press and release D .	<u>En</u>	The current setting for that option is displayed and buzzer beeps once	on	[))) x1	Not appicable.			
Scroll < or > to the required setting.	Jen Jen	Display changes with each button press.	oFF		Not appicable.			
With required selection displayed, press and release D .	. Star	Display reverts to "PSu" buzzer beeps.	PSu	□〔〕))) x2	Not appicable.			
Scroll left or right to next program option.	Er Er	OR	EXIT back to st status	tandby	Chu (

SLo	Adjusting the length of the slow speed at the ends of travel.						
From Ready status		The gate can be in any position when performed and the factory default is: 200mm					
Action			Response				
Action		Description	Display Buzzer		Gate		
To enter the program menu. Press and hold the d button until buzzer beeps.	. Stu	Display changes to "Prg" and buzzer beeps.	Pr9))) x2	Not appicable.		
Scroll < or > to select "Slo" setup option.	En Las	Display changes with each button press.			Not appicable.		
With "Slo" on the display, press and release \Box .	Ser.	Display changes to current setting in mm and buzzer beeps.	200	□〔〕))) x1	Not appicable.		
Scroll < or > to the required setting.	En In	Display changes with each button press.	100		Not appicable.		
With required selection displayed, press and release D .	- Sen	Display reverts to "Slo" and buzzer beeps.	SLo	□_))))×1	Not appicable.		
Scroll left or right to next program option.	En In	OR EXIT ba status	ack to standby	2mg	- 613		

PcL		Switching positive close mode on or off.					
From Ready status		The gate can be in any position when perform routine. The factory default is: Off					
Action			Response				
Action		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	. Star	Display changes to "Prg" and buzzer beeps.	Pr9))) x2	Not appicable.		
Scroll < or > to select "PcL" setup option.	En In	Display changes with each button press.	PcL		Not appicable.		
With "PcL" on the display, press and release \Box .	- Star	Display changes to current setting in mm and buzzer beeps.	oFF	⊥∭)x1	Not appicable.		
Scroll < or > to the required setting.	En En	Display changes with each button press.	DU		Not appicable.		
With required selection displayed, press and release D .	- Su	Display reverts to "PcL" and buzzer beeps.	PcL	□〔〕))) x2	Not appicable.		
Scroll left or right to next program option.	Ens Ens	OR EXIT ba status	ack to standby	2m 1			

Selecting the Auxiliary relay's mode of operation.								
From Ready st	tatus	rdy	n when performing this rou- lock mode.					
Action			Response					
Action		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold the button until buzzer beeps.	"Im	Display changes to "Prg" and buzzer beeps.	Pr9	□〔)))) ×2	Not appicable.			
Scroll < or > to select "rLy" setup option.	Em Em	Display changes with each button press.	┍╘╝		Not appicable.			
With "rLy" on the display, press and release D .	In	The current setting is displayed and buzzer beeps once	Lc I	□〔〕))) x1	Not appicable.			
		Strike-lock mode						
	China (China)	Mag-lock mode	Lc2					
Scroll < or > to the required setting.		Receiver relay mode	гс		Not appicable.			
		Courtesy light mode	LıE					
		Alarm mode	ALA					
With required selection	Chr	If Lc1, Lc2,Lit or ALA modes were selected, the buzzer beeps twice and "rLy" is displayed.	r L Y	□〔〕))) ×2	Not appicable.			
release D .		If rc was selected, the buzzer beeps once and the current relay on time setting is displayed.		□〔〕))) x1	Not appicable.			
		Latch mode.	LAF					
Use the < or > buttons to change the relay pulse length or to select latch mode	En Im	Minimum pulse length in seconds.			Not appicable.			
		Maximum pulse length in seconds.	255					
With required selection displayed, press and release D .	. Sta	Display reverts to "Prg" and buzzer beeps twice.	P-9	∭)x2	Not appicable.			
Scroll left or right to next program option.	En In	OR E	XIT back to standby tatus	"In	r d y			



User manual reference - Page 8Safety infra-red beams function.Page 8All modes except P.I.R.A.C. auto-close.					Basic operating features			
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! A set of safety beams must be installed and the safety beam input must be configured . Below is an example of how the gates will behave whenever the safety beam input is activated.								
	Action			Response	2			
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 operati features	ng	"[3T" Button tri Standard mo	ggers. de.	User manual reference - Page 9	
The BT functions are the There are two ways of ac	primary full g tivating the "	gate opening functions for BT" functions on this co	or motor vehicle a ntrol card. Either v	ccess. via the hardwired BT input or	the BT receiver channel.	
In Standard mode the ga In Standard mode you ha	tes respond to we access to to	o each BT trigger. the following advanced	features: - Holiday	lock-out and Party mode.		
	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.		



User manual refe Page 12	rence -	"I P.I.R.	BT" Button tri A.C. auto-clos	ggers. se mode.	Basic operating features		
The BT functions are the There are two ways of ac	primary full g tivating the "	ate opening functions fo BT" functions on this co	or motor vehicle a ntrol card. Either v	ccess. via the hardwired BT input or	the BT receiver channel.		
In P.I.R.A.C. auto-close m safety beam triggers whi the gate is in operation. In this mode mode the fo	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. In this mode mode the following advanced features are available: - Holiday lock-out and Party mode.						
NB! For any auto-close fe	ature to wor	k, a pair of safety infra-r	ed beams must be	installed and functioning co	rrectly.		
	Action			Response	2		
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.		0 sec.	Gate begins closing.	No buzzer tones.			
At full closed position.			Gate stops.	No buzzer tones.			

Basic operation features	ng	Au	xiliary relay r Strike lock me	nodes. ode.	User manual reference - Page 15	
With Strike lock mode se	lected, the au	uxiliary relay will pulse n	nomentarily, half a	a second before the gate oper	ns.	
Whenever a lock is insta this can damage the chai	lled with the rger and batte	system, a separate batte ery of the control unit.	ry backed up pow	ver supply matching the lock	load must be installed. Failure to do	
Below is an example of s	trike lock mo	de when standard BT mo	ode is active.			
	Action			Response	2	
Momentary BT trigger.			Auxiliary relay activates.	No buzzer tone.	ON ⁽⁾ N/C Com () ()N/O	
Half a second after the auxiliary relay has activated.		0.5 sec.	Gate begins opening.	No buzzer tone.		
After the preprogrammed relay on time.		1 sec.	Auxiliary relay deactivates and gate continues opening.	No buzzer tone.	OFF N/C Com N/O	
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.		

User manual reference - Aux Page 16 Ma			ixiliary relay r lagnetic lock r	nodes. node.	Basic operating features
With Magnetic lock mod the gate has closed agair	e selected, the	e auxiliary relay will activ	vate, half a second	I before the gate opens and re	emain active until half a second after
Whenever a lock is insta this can damage the char	lled with the s rger and batte	system, a separate batte ry of the control unit.	ery backed up pow	ver supply matching the lock	load must be installed. Failure to do
Below is an example of n	nagnetic lock	mode when standard BI	r mode is active.		
	Action			Response	
Momentary BT trigger.			Auxiliary relay activates.	No buzzer tone.	ON ⁽⁾ N/C Com () N/O
Half a second after the auxiliary relay has activated.		0.5 sec.	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.		0.5 sec.	Auxiliary relay deactivates.	No buzzer tone.	Com N/C

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 toggle the relay each time.					
Action			Response		
Momentary relay trigger.		Auxiliary relay switches on.	No buzzer tones.	ON ⁽⁾ N/C com () N/O	
Momentary relay trigger.		Auxiliary relay switches off.	No buzzer tones.	OFF N/C com N/O	

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.	ON ⁽⁾ N/C Com () N/O	
After relay timer has timed out.	3 sec.	Auxiliary relay switches off.	No buzzer tones.	OFF N/C com N/O	

User manual refe Page 18	rence -	Auxiliary relay modes. Courtesy light mode.			Basic operating features		
With courtesy light mod closed. The auxiliary relay can a into the auxiliary relay fu Below is an example of c	With courtesy light mode selected, the auxiliary light will switch on as the gate begins opening and remain on for 3 minutes 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.						
	, , ,		9		-		
	Action			Respons	e		
Momentary BT trigger.	20		Auxiliary relay activates.	No buzzer tone			
			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.	At full closed position.		Gate stops.	No buzzer tone			
			Relay on timer begins counting down.		3 Min.		
After relay on timer timeout.		0 0 sec.	Auxiliary relay deactivates.	No buzzer tone.	OFF N/C Com N/O		
If any remote butt	on progran	nmed into the aux	kiliary relay fu occur.	nction is pressed mor	nentarily, the following will		
Auxiliary relay status		Action		Respons	e		
Com N/C	Momentary auxiliary rel trigger.	ay	Auxiliary relay switches on for 1 hour.	No buzzer tone.	1 hour.		
ON	Momentary auxiliary rel trigger.	ay	Auxiliary relay switches off.	No buzzer tone.	OFF N/C com N/O		

		Α	uxiliary relay	modes.	User manual reference -	
Advanced feature	Advanced features Alarm modes.					
		В	eam Tamper	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 beam tamper alarm feature gives you a ealry warning of any tampering that may have occured 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 auxiliary relay will become active in this mode. This 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 advice 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.						
Beam tamper alarm mode	is availabl	e in all modes of opera	ation so long as a set	of safety beams is installed.		
Gate closed.						
A	Action			Response	-	
Safety beam equipment tampered with while gates are in the closed position.			Auxiliary relay remains in standby status.	OFF N/C Com N/O	Off	
20 seconds after safety beam equipment has been tampered with.	(20 sec.	Auxiliary relay activates.	ON (N/C com () N/O	On	
Safety beam equipment returned to normal functioning status.			Auxiliary relay returns to standby.	OFF N/C com N/O	Off	
	un las sei en llas	Ga	te forced ope	en alarm.		
when the gate is returned	to normal	secured condition in t	he closed position.	nary relay will immediately activ	ate. The auxiliary relay will only reset	
A	Action			Response	r	
Gate secured in the closed position. Standing by.			Auxiliary relay remains in standby status.	Com N/C	Off	
Attempt to lift gate off track and force open.		\$ 	Auxiliary relay activates.	ON (N/C Com () N/O	On	

Auxiliary relay returns to

standby.

Off

∕n/c

○N/0

OFF

Com

9

Gate resecured in the closed position.

Standing by.

Q.

User manual refer Page 20	rence -	Positive close mode. Ad			Advanced features	
With positive close mode This feature is useful whe closed position.	e activated, th en installing ar	e gate will surge onto th n electric lock or when ti	e closed stopper a rying to ensure an	after seeing the closed limit. electric fencing gate contact a	always closes when the gate is in the	
	Action			Response	2	
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.			Closed limit activates.	No buzzer tones.		
When the closed limit activates.			Gate continues to surges onto the mechanical closed stopper.	No buzzer tone.		

Advanced featu	res		Holiday lock-ou	ıt mode.	User manual reference - Page 21
This feature is useful at t den service company, fo is away on holiday. With are being kept locked int	imes when r extended holiday loo tentionally.	access to th periods of t ck-out mode As soon as	e property needs to be disallov time. An example of when the e active, any trigger on any inpu the holiday lock-out mode is d	wed to secondary level key hold holiday lock-out function would ut will simply result in the contr leactivated, the system will resu	ers, such as housekeepers or the gar- d be useful is when the home owner ol card beeping to indicate the gates ume normal operation.
Holiday lock-out will onl Holiday lock-out is not a	y work in t vailable in	he closed po condominiu	osition. m mode.		
Gate	must bo to star	e closed t.			
Actio	on 			Response	
Momentary trigger from any transmitter button programmed into holiday lock-out function.		r and	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.	x 5 rapid.	
Any BT or PED triggers.			Gate does not open. Buzzer, status LED.	x 5 rapid.	
Momentary trigger from any transmitter button programmed into holiday lock-out function.		Cru Tru	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 gate running indication and gate begins opening.	x1	
Normal operation is now functional.					

Status LED indications and buzzer guide.							
Description	Visual confirmation	Buzzer	Reason				
Static off.	Off	None	Gate fully closed.				
Flashing slow 1 second on and 1 second off.	$\begin{array}{c c} (11) \\ On \\ 1 \text{ sec} \end{array} \begin{array}{c} (11) \\ Off \\ 1 \text{ sec} \end{array} \begin{array}{c} (11) \\ On \\ 1 \text{ sec} \end{array} \end{array}$	None	Gate running normally.				
Static on.	On On	None	Gate open.				
2 x 0,5s flashes fol- lowed by a 2 second pause.	Mir Mir Mir Mir Mir Mir Mir Mir Mir Mir Mir Mir Mir	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 0,5s flashes fol- lowed by a 2 second pause.		1 x 1 second beep every 15 seconds for 5 minutes after last gate transaction.	Battery low. Allow at least 8 – 10hr uninterrupted charge before checking again.				
5 x 0,125s rapid flashes each time a trigger is received.		Mimics LED.	A lock-out mode is active. See Holiday Lock-out and Party Mode in advanced operating features pages.				

Display definitions and troubleshooting guide.					
Displayed on screen.	Definition.	Solution.			
	In normal o	perating mode.			
rdy	Unit is standing by and ready for next instruction.	Trigger to run a required routine.			
Ac	Charger powered down due to Vac mains interuption.	Check 220VAC or 29Vac supply to the unit. Check 500mA fast blow fuse in the 220Vac connector.			
ЬЯΕ	Battery is either disconnected or discharged.	Check the 10A fuse in the battery lead. Allow 8-10 hours uninterrupted charge before trying to operate the unit again. If the battery has not recovered after this, then replace the battery.			
r E L	Gearbox manual release is in released (Manual) position.	Lower the release lever to engage gearbox. Test manual release lever reed switch. Check that the manual release lever magnet has not been dislodged.			
"гb	Infra-red beams circuit is being triggered.	Remove obstruction from the path of the safety beams. Check that beams are powered and functioning properly. Ensure the safety beam circuit end of line resistor has been installed properly as per this manual.			
hol	Control card is in Holiday Lock-out mode.	Follow the steps on page 42 to deactivate Holiday Lock-out.			
P8r	Control card is in Party mode.	Follow the steps on page 43 to deactivate Party mode.			
col	Multiple collision lock-out active.	See page 32 and "Selecting a safety level" on page 20.			
For	Safety overload triggered by physical overload.	See page 32 and "Selecting a safety level" on page 20.			
r E F	Referencing the gate closed position.	See "Referencing the closed position" on page 10.			
E-L	Failure to see the closed limit.	See Installing the limit actuator on page 16.			
oPn	Gate is open.	Trigger gate to close.			
Pr9	Control card is in Programming mode.	Press and release X to exit programming mode.			
Eł	Revolution counter/encoder failure.	Ensure control card is fastened down correctly and that the ring magnet is installed correctly in place atop the motor shaft.			
63	Motor is disconnected, motor fuse is fused or electric motor is faulty.	Ensure the motor is connected correctly. Test the 10A motor fuse. Test the electric motor by disconnecting it from the control card and running it on a battery directly.			
	In progra	mming mode.			
APF	Procedure aborted via the "X" button.	Begin the procedure again.			
dnE	Procedure completed.	Continue on to another programming option or exit programming.			
E-L	Closed limit not installed correctly.	See Installing the limit actuator on page 16.			
For	While buzzer beeps 20 times. Excessive gate resistance.	Repair gate rolling load, so that it remains below the rated load specified on page 4.			
Ful	Receiver memory is full.	Delete any user addresses no longer in use.			
to	Time out error while programming a remote.	Begin transmitting with the remote before pressing set. Remote maybe damaged or faulty. Ensure the remote does indeed transmit.			
dEc	Decoding error.	The remote does not use a format that is compatible with the receiver.			

WARRANTY:

- 1. All goods manufactured by ET NICE (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 NICE (Pty) Ltd free of charge.
- 4. This warranty is subject to the goods being returned to the premises of ET NICE (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.