



E145S Quick Start Guide

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These instructions are to be considered as a rapid guide for installation and to confirm the correct handing and polarity of the motors. They can also be used to confirm the operating logics before additional safety devices are fitted to the system as specified by the Risk Assessment undertaken by the installer. The installer should still familiarise themselves with the full manual and the safety information contained within. (available at https://www.faac.co.uk/accessories-and-control-boards/control-boards/for-swing-gates/e145S-control-board)

CE DECLARATION OF CONFORMITY					
The manufacturer					
Company name:	FAAC S.p.A. Soc. Unipersonale				
Address:	Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY				
hereby declares that the following pro	oduct:				
Description:	control board				
Model:	E145				
conforms to the essential safety requirements of the following ECC directives:					
	Low Voltage Directive 2014/35/EU				
	Electromagnetic Compatibility Directive 2014/30/EU				
	Directive ROHS 2011/65/EU				
	Furthermore, the following harmonised standards have been applied:				
	EN 60335-1:2012 + A11:2014 - EN 61000-6-2:2005 - EN 61000-6-3:2007 + A1:2011				
	Additional note: this product underwent tests in a typical uniform configuration (all products manufactured by FAAC S.p.A.).				
Rologna January the 1st 2016					

Bologna, January the 1st 2016

& Meant



Installation Sequence

- 1. Perform A Risk Assessment for the system and resolve by design as many risks as possible
- 2. Secure the card into a suitable enclosure
- 3. Mount the motors as detailed in their relevant instructions
- Use suitable cabling for the motors and accessories (BUS devices must be wired using a minimum 2 core, 0.5mm multi-stranded screened cable (the screen MUST be attached to the Earth Terminal)
- 5. Wire the electronic control board as per Page 4 for the motors and power supply
- 6. Please note that J3 Terminal block comes with the Stop, FSW CL and FSW OP pre-linked for first run-up of the system as shown on Page 3
- 7. Power up the E145 Board (please note that the board will take 5-10 seconds to boot-up)
- 8. Verify the status of the LED's and Display are as per Page 3
- 9. Depending on the installation, verify that the LED's on the encoders correspond to those described on Page 5
- 10. Wire in an OP-A trigger as per Page 4, alternatively program a remote control as shown on Page 11.
- 11. Familiarise yourself with how to program the E145S control board as per Page 6 $\,$
- 12. Begin Basic Programming of the E145S on Page 7
 - a. If Hydraulic motors are used, please note that "F1" and "F2" MUST be set to "50" as torque adjustment is performed on the motors as detailed in the motor manual
 - b. Check Rotation of the motors by using Function "n1" and "n2" for motor 1 and 2 respectively as shown on Page 7
 - c. If using encoders, "EN" must be set to "y" and "bu" function should be followed as shown on Page 7
 - d. Verify that the Gates are in the closed position as detailed on Page 8
- e. Run Time Learning "tL" function and follow procedure as detailed on Page 8 13. Provide an opening command to verify that the system works correctly
- 14. Adjust Operating Logic according to the customer requirement, brief details on Page 10
- 15. Connect Safety Devices to the system as deemed required by the Risk Assessment carried
- out previously
 - a. Hard Wired Safety Edges can be wired in J11 Terminals as per Page 3 and correct "So" or "Sc" function adjusted to match on Page 7
 - b. Wireless Safety Edges can be connected via the BUS 2easy connection if using the FAAC XTR and XTS Wireless Receiver system, the "bu" function must also be readdressed as shown on Page 7
 - c. If not using the FAAC XTR and XTS System please treat the input on J11 as required by the Wireless Safety Edge system being used
 - d. Traditional Photocells can be wired and configured as per Page 4
 - e. FAAC BUS 2easy Photocells can be wired and configured as per Page 5, the "bu" function must also be re-addressed as shown on Page 7
 - f. XGuard Laser Curtains would be configured as Traditional Photocells in 14.c
- 16. Connect any additional activation commands as per Page 4
- 17. If using either Safety Edges or Inherent Obstacle Detection as part of the Risk Assessment, there are useful Functions that can be modified to assist in attaining compliance on Page 9
- 18. If using XGuard Laser Curtains please test these in accordance with BS EN 12445/12453
- 19. Hand over all relevant documentation to the end customer as required by the Technical File and the Supply of Machinery (Safety) Regulations 2008



E145S LED Display at first Power On



J11 Terminals

The new J11 Terminal to allow the direct connection of resistive safety edges or N/C safety inputs comes pre-linked and configured to N/C setting, hence the relevant EDGE 1 or EDGE 2 LED being lit on first Power On.



J3 Terminals

DL7, DL6 and DL5 will only be illuminated if the following terminals are linked out (please note that the board comes with links in place). The links are just to be used for test purposes only and safety devices should be wired in, as detailed in the instructions further below. In no circumstances should the system be handed over to the end user with these links still in place unless it is being controlled via Dead-Man operation and by trained users only.



Electrical Connections



Connection of Traditional Photocells

The E145S Control Board allows for the use of traditional photocells (n/c with relay). Below is a layout drawing showing the basic positions normally covered. The wiring diagram is for Fail-Safe enabled photocells. In order to comply with the standards, all devices used for safety should either have a circuit monitored by the control board or be self-monitoring. FAAC Control boards are able to perform the monitoring by the use of a Fail-Safe function, whereby the test negative is momentarily dropped (please note that this may not be compatible with non-FAAC equipment). This function is enabled by entering Advanced Programming (detailed below) and setting function **o1 to 01**.





Connection of FAAC BUS 2Easy Photocells

The E145S Control Board also allows for the use of FAAC BUS 2easy photocells which allow for simpler cabling and a reduced power consumption. FAAC BUS 2easy photocells also remove the need for additional wiring for a monitoring circuit as it is carried through our proprietary FAAC BUS 2easycommunication protocol (Please note that FAAC BUS photocells are only compatible with FAAC Control Boards and those using the BUS Terminal or using the BUS Relay Interface Board).



Connection of FAAC BUS 2easy Safecoders and S800 Encoders

The E145S Control Board also allows for the use of FAAC BUS 2easy Safecoders and the S800 Encoders on the 230v versions. This allows for the control board to have positional accuracy and allows for the possibility of inherent obstacle detection (Force Testing with the use a calibrated instrument to BS EN 12445/12453 norms (such as the Microtronics Blueforce Tester, available from FAAC UK) will be required to confirm suitability but please note that additional devices maybe required such as Safety Edges).



BUS 2easy Encoder LEDs Status

LED	ON	FLASHING	OFF			
DL1	Power present	Power present	Power absent			
	Communication present	Communication absent	Communication absent			
	DL1 must always be on to confirm correct encoder/board connection.					
	Leaf 1	1	Leaf 2			
DL2	DL2 indicates the leaf on which the encoder is installed; it must be on for leaf 1 and off for leaf 2.					
	Stationary leaf	Leaf in motion	Stationary leaf			
DL3	DL3 indicates pulse reading during leaf movement using steady flashing. In stationary status of the leaf, the DL3 can be either on or off.					

In case of incorrect connection (DL2 on or off for both of the encoders), during the BUS 2easy accessories learning procedure, the DL1 leds of both encoders are FLASHING.





Verification of BUS 2easy Connections on J10 Terminal

The J10 Terminal on the E145S Control Board has two diagnostic LED's (DL15 – Red and DL14 – Green). These LED's assist in ensuring that any devices connected on the FAAC BUS 2easy network are installed correctly.

To check the condition of the BUS-2EASY connection, verify the LED on the board:

LED DL15 (Red)				
ON	Safety device engaged or pulse generator active			
OFF	NO safety device engaged neither pulse generator active			
LED DL14 (Green)				
ON steady	Normal activity (led ON even if there are no devices).			
Slow blinking (blink every 2,5 sec)	BUS-2EASY line short-circuit.			
Rapid blinking (blink every 0.5 sec)	Error in the BUS-2EASY connection. Repeat the device entry. If the error occurs again, check: - That there are no more than one device in the system with the same address. - Calling error (number > or < the connected BUS devices). - FAIL SAFE error on the BUS device.			

E145S Control Board Programming

Programming is split over two levels:

- Basic Programming
- Advanced Programming



Basic Programming

Basic	Function	Default	Basic Function	Default
CF	MOTOR TYPE:		Br SLIDING LEAF BRAKING (only displayed	05
	Motors for swing gates		with the $CF = 2$ or $CF = PC$ function):	
	2 Motors for sliding gates		00 = braking disabled	
	PC Mixed configuration from a PC/MAC		1U = maximum braking time	
	(e.g.: one swing and one slide)		LEAF CLOSING DELAY (only displayed with	05
d٢	DEFAULT:	Ч	the $fin = c$ function):	
	Indicates that all the set values are default values			
	on Indicates that at last 1 set value is		BUS-Zeasy DEVICE REGISTRATION:	no
	different from the default values.		neously for at least 5 s (the display flashes	
	Select $\boldsymbol{\exists}$ if you wish to restore the default		during this time).	
	configuration.		님 will appear once confirmation of the com-	
LO	OPERATING LOGIC:	E	pleted registration is given.	
	E. EP. S. SH. SP. HI. H. HP. HE.		Kelease + and The status of the BUS-Zeasy devices will appear on the display	
	D. DL. L. LU Pefer to the specific paragraph for a description		Encoder 1:	
	of the operating logics.		Opening photocells: ON = connected a	and registe-
00	PAUSE A TIME (only displayed with Auto-	20	ON = registered and committed red correctly	
	matic logic):	50		
	Can be adjusted from DD to 9.5 minutes.		Opening and clo-	
РЬ	PAUSE B TIME (only displayed with Auto-	30	sing photocells:	Status:
	matic logic):		ON = registered and alw	ays ON
	Can be adjusted from UU to 9.5 minutes.		committed Enc	oder 2:
Πn	NUMBER OF MOTORS:	2 (swing)		- CON-
	I = I motor	(sliding)	Closing photocells: OPEN Photocell: regi	stered cor-
C 1			ON = registered and com- ON = registered rect	ly
FI		25	mitted and committed	
	50 = maximum power		MOTOR 2 dead-man DRIVE mode (only	
60	MOTOR 2 POWER (only displayed with the		displayed with the $\Pi_{\Box} = 2$ function):	
FC	$f_{\rm in} = 2$ function):	62	+/R1	
	OI = minimum power		● OPENS (displaying □P) for as long as	
	50 = maximum power		-/R2	
En	ENCODER USE:	00	(LOSES (displaying cl.) for as long as	
	9 = encoders on both motors		the button is pressed	
	no = disabled encoders		MOTOR 1 dead-man DRIVE mode:	
FR	LIMIT SWITCH WHEN OPENING (only	no	+/R1	
	displayed with the $LF = 1$ or $LF = PL$		OPENS (displaying oP) for as long as	
	and a second limit switches disabled		-/R2	
	\Box = the limit switch determines when the		(LOSES (displaying cl.) for as long as	
	movement is stopped		the button is pressed	
	02 = the limit switch determines when			
	deceleration begins		UP):	
FC	LIMIT SWITCH WHEN CLOSING (only displa-	no	Refer to the relative paragraph.	
	yed with the $\Box P = 1$ or $\Box P = P \Box$ function):		G⊢ STATUS OF THE AUTOMATED SYSTEM:	ч
	Π = the limit switch determines when the		set the selection:	2
	movement is stopped		9 to SAVE and EXIT programming	
	02 = the limit switch determines when		to EXIT programming WITHOUT SAVING	
	deceleration begins		press F to confirm; when completed, the statu	s
- 50	EDGE1: SAFETY IN OPENING	nc	display once again:	c
	$\Box \equiv$ sensitive edges with NC contact		OD = CLOSED	
6	$r = resistive sensitive edges 8.2 k\Omega$		OI = OPEN	
d	nnect a sensitive edge or another device that, whe iring opening, causes the gate to reverse	n activated	O2 = Stationary and then "OPENS"	
A	DO NOT connect more than one resistive sensitive edge on each confi	wred input = $-E$	OB = Stationary and then "CLOSES"	
		Jurea input – r e	UH = In "PAUSE"	
20	- EDGE2: SAFETY IN CLOSING	nc	US = Upening US = Cloring	
	= resistive edges with NC contact		00 = Closing 00 = EAU SAEE in progress	
(onnect a sensitive edge or another device that whe	en activated	E = Verifving BIIS-2easy devices	
d	uring closing, causes the gate to reverse.		09 = Pre-flashes and then "OPENS"	
1	\sum DO NOT connect more than one resistive sensitive edge on each con	figured input $= -E$	ID = Pre-flashes and then "CLOSES"	
			II = Emergency open	
			12 = Emergency close	
			HP = Hold position	



<u>Set-Up – Time Learning (tL – function)</u>

50 flashes on the display indicating that a SET-UP must be performed.

All safety devices are disabled during SET-UP; therefore, prevent any transit in the leaf movement area.

The connected BUS-2easy accessories are always registered during SET-UP.

The deceleration spaces can be configured and modified from the Advanced Programming (-1 and -2) without having to repeat the SET-UP.

Refer to the complete instructions if there are limit switches.

SETUP WITHOUT ENCODER

If a system without an encoder is installed, the leaves will require mechanical stops.

- Access BASIC programming and go to the EL function. The -- will appear when the F button is released.
- 2. Verify that the leaves are closed. Otherwise:
- Keep the -/R2 button pressed to close leaf 2
- Keep the +/R1 button pressed to close leaf 1

If the corresponding leaf opens when the +/R1 and/ or -/R2 buttons are pressed, disconnect the power and invert the phase wires of the corresponding motor on the J2 terminal board, (terminals 2-3 for the leaf 1 motor and terminals 5-6 for the leaf 2 motor).

- With the leaves closed, keep buttons + and pressed (approx. 3 sec) until 51 flashes on the display.
- Release + and -. Leaf 1 begins its opening movement. Stop the leaf movement by sending an OPEN A pulse as soon as it reaches the mechanical stop.
- (if In = 2) 52 will flash on the display. Leaf 2 begins its opening movement. Stop the leaf movement by sending an OPEN pulse as soon as it reaches the mechanical stop.
- (if fl∩ = 2) 5∃ will flash on the display. Leaf 2 begins its closing movement. Stop the leaf movement by sending an OPEN pulse as soon as it reaches the mechanical stop.
- 54 will flash on the display. Leaf 1 begins its closing movement. Stop the leaf movement by sending an OPEN pulse as soon as it reaches the mechanical stop.
- The board will automatically exit the programming. The OO on the display (status of the automated system) confirms that the SET-UP has been completed correctly. The SO flashing on the display indicates that it is necessary to repeat the SETUP.

SETUP WITH ENCODER

- If there are mechanical stops, the SETUP does not require OPEN A pulses.
- Access BASIC programming and go to the En function. Set y to enable BUS encoders.
- Go to the EL function. The -- will appear when the F button is released.
- 3. Verify that gate leaves are closed. Otherwise:
- Keep the -/R2 button pressed to close leaf 2
- Keep the +/R1 button pressed to close leaf 1
- If the corresponding leaf opens when the +/R1 and/ or -/R2 buttons are pressed, disconnect the power and invert the phase wires of the corresponding motor on the J2 terminal board, (terminals 2-3 for the leaf 1 motor and terminals 5-6 for the leaf 2 motor).
- With the leaves closed, keep buttons + and pressed (approx. 3 sec) until 51 flashes on the display.
- Release + and -. Leaf 1 begins its opening movement and will stop as soon as it reaches the mechanical stop. If there is no mechanical stop, stop the leaf movement at the desired point by sending an OPEN A pulse.
- 6. (if fln = 2) 52 will flash on the display. Leaf 2 begins its opening movement and will stop as soon as it reaches the mechanical stop. If there is no mechanical stop, stop the leaf movement at the desired point by sending an OPEN A pulse.
- (if fln = 2) 53 will flash on the display. Leaf 2 begins its closing movement and will stop as soon as it reaches the mechanical stop. If there is no mechanical stop, stop the leaf movement at the desired point by sending an OPEN A pulse.
- 54 will flash on the display. Leaf 1 begins its closing movement and will stop as soon as it reaches the mechanical stop. If there is no mechanical stop, stop the leaf movement at the desired point by sending an OPEN A pulse.
- The board will automatically exit the programming. The OO on the display (status of the automated system) confirms that the SET-UP has been completed correctly. The SO flashing on the display indicates that it is necessary to repeat the SETUP.



Advanced Programming

Adv	anced Function	Default	Adv	anced Function	Default	
Ьо	TIME OF MAXIMUM POWER AT START-UP	01	F5	OUT 2 TIMING (only displayed with the o?	50	
-5	FINAL STROKE WHEN CLOSING (FLUID	00		= 03 or 02 = 14 function:		
	HAMMER) (NOT displayed with the $FC =$		<u> </u>	Adjustable like E1.		
	function)		AS	MAINTENANCE REQUEST - CYCLE COUNTER (linked to the subsequent 2 functions)	no	
٢S	REVERSE STROKE WHEN OPENING (NOT displayed with the $\Box B = 1$ function)	no	<u> </u>		00	
	LEAF OPENING DELAY (only displayed with	00		CICLE PROGRAMMING (THOUSANDS)	00	
Ud	the $\Pi_{\Omega} = 2$ function)	UC	nd	CYCLE PROGRAMMING (TENS)	00	
сI	LEAF 1 DECELERATION:	20	SE	STATUS OF THE AUTOMATED SYSTEM:	9	
	The deceleration space can be adjusted as a	00	—	Refer to 51 Basic Function.		
	percentage of the total travel of leaf 1.		Ou	t 1 Options available		
	Adjustable from UU to $\exists \exists \%$, in 1% steps.			= always active		
	OI = minimum deceleration space		ĬŨĬ	= FAIL-SAFE		
	99 = maximum deceleration space		50	= INDICATOR LIGHT (off = closed; on	= during oper	ning an
-P	LEAF 2 DECELERATION (only displayed with	20	na	in pause; flashing = during closing)	duration of	the mo
	the $\Pi_{\Box} = 2$ function):		0.0	(even in SETUP) in addition to the set til	me of function	
	The deceleration space can be adjusted as a perceptage of the total travel of loaf 2		04	= ACTIVE ERROR		
	Adjustable from OO to 99% in 1% steps.		1 82	= automated system OPEN or in PAUSE	-	
	OO = no deceleration		107	= automated system CLOSED = automated system MOVING		
	OI = minimum deceleration space		08	= automated system in EMERGENCY		
	99 = maximum deceleration space		1 12	= automated system in OPENING		
PF	PRE-FLASHING	no	I II	= automated system in CLOSING		
РЬ	CLOSING PHOTOCELLS	00	iż.	= safety device ACTIVE		
0.1	ADMAD FUNCTION	110	13	= TRAFFIC LIGHT function (active when C	PENING and	with aut
Hd	ADMAP FUNCTION	no	14	system OPEN)	m the second	l radio a
EC	ANTI-CRUSHING SENSITIVITY (only displa-	05	1.1	OMNIDEC (see function L)	in the second	
	Varying this function alters the time after which		15	= output which can be activated from	the second	radio c
	the board commands the leaves to reverse their		IC.	OMNIDEC (step-by-step function)		
	direction in case of an obstacle or to stop if they		LК	= active during movement of leaf 2		
	are in the contact point search space (refer to the $-\Theta$ function)		18	= active during breach alarm		
	The fourth consecutive obstacle detected in the		Us	eful Functions to protect agai	nst the ri	sk of
	same direction and position will be defined as		im	pact/crushing on the main edg	e	<u> 3 </u>
	a contact point and the leaf will stop in this				-	
	position.		Ple	ase note that if you are using eithe	r safety ed	jes or
	before reversal)			erent obstacle detection (such as	encoders),	
	IO = maximum sensitivity (minimum time		124	453 norms and the results mus	t fall withi	n the
	before reversal)		val	ues there in and in accordance	e with the	e risk
r8	MECHANICAL STOP SEARCH ANGLE (only	4.0	ass	sessment already undertaken.		
	displayed with the $E_{\Box} = 9$ function and		FI	Allows the static thrust force of motor 1 to be adju	ictor	
	The mechanical ston search angle within			NOTE: For hydraulic operators, set the force value t	o maximum	
	which the board stops the movement without			and adjust it via the bypass screws.		
	reversing if an obstacle is encountered or the		53	Allows the static thrust force of motor 2 to be adju	usted	
	mechanical stop itself can be adjusted.			NOTE: For hydraulic operators, set the force value t	o maximum	
	Can be adjusted from 0.3 to 20 degrees.			and adjust it via the bypass screws.	1.4	
	 I degree steps apply when adjusting between and 9 9 degrees 		En	Enables the encoders to be read by the electronic bo	of obstacles	
	1 degree steps apply when adjusting between			(set En=9).	or obstactes	
	10 and 20 degrees.		D l	Allows the closing delay of motor 1 to be modified	d in order to	
LA	ADDITIONAL OPERATING TIME only displa-	03		obtain a phase shift between the two leaves and r	educing the	
	yed with the $E_{\Pi}=n_{\Theta}$ and F_{\Box} and $F\overline{A}=$			risk of crushing between the two moving leaves.	danted The	
	no or D2 functions)			impact at slow speed allows the dynamic force to	be reduced.	
Ы	OUT 1:	00	5-	Allows the space of reduced speed of leaf 2 to be a	dapted. The	
	Default $UU =$ always active. Output can be			impact at slow speed allows the dynamic force to	be reduced.	
			EC	Allows the obstacle inversion sensitivity to be adj	usted.	
٤I	OUT 1 TIMING (only displayed with the of	02	67	Allows the space before the mechanical stops in	which the	
_				between 1 and 49 mm).	(set a value	
od	Default $\Box = I ED$ - Refer to the options in -1	02	'			
	verault OC - LCD - Refer to the options in OI.					

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E145S Signalling Errors and Alarms

The ERROR LED (**DL13**) will flash to signalling an alarm. **Alarms** do not compromise operation.

The ERROR LED (**DL13**) will go on steady to signalling an error. **Errors** stop the operating. Remove the situation causing the error; it will disappear in the following cycle.

By simultaneously pressing + and - the display will show the number corresponding to the error/alarm in progress.

Error	Intervention required
Board broken	Replace the board
OS Invalid SETUP	Repeat board SETUP
BUS-2easy device error	Ensure that no two pairs of devices have the same address.
09 BUS-2easy output short-circuit	Check the connections of the con- nected and entered BUS-2easy devices
O Motor 1 limit switch error	Check the limit switch connections for motor 1
Motor 2 limit switch error	Check the limit switch connections for motor 2
2 BUS-2easy call	Ensure that the BUS devices are operating correctly and, if neces- sary, repeat BUS device acquisition
∃ FAIL SAFE	Check that the safety devices (pho- tocells) are operating correctly
14 Configuration error	Check that the board is configu- red correctly (basic and advanced programming) and, if necessary, repeat SETUP
Notor 1 encoder fault	Check the connections or replace motor 1 encoder
B Motor 2 encoder fault	Check the connections or replace motor 2 encoder
Sincorrect memory data	Repeat BUS-2easy device entry and/or re-program the board
∃ High absorption at +24V	Check that absorption by the ac- cessories connected is within per- mitted limits

Intervention required Alarm Obstacle on MOTOR 1 Remove any possible obstacle 20 (only with encoder/safeon leaf 1 ty edge) Obstacle on MOTOR 2 Remove any possible obstacle 21 (only with encoder/safeon leaf 2 ty edge) 25 LOCK 1 output short-Remove the cause of the short-circuit circuit LOCK 2 output short-Remove the cause of the short-26 circuit circuit Nr. of consecutive ob-Remove any possible obstacle. 27 stacles exceeded during Should the problem persist, repeat opening SETUP Nr. of consecutive ob-Remove any possible obstacle. 28 stacles exceeded during Should the problem persist, repeat closing SETUP Cancel the radio codes that are not ∃□ XF radio code memory full being used using the PC program or use an additional DEC/MINIDEC/ **RP** module A movement was made with the automated system in status St = - Breach alarm 00 or 01. Perform an operation cycle. TIMER active and TIMER fun-35 ction operating: Contact the installer for main-↓□ Service request tenance 50 The HOLD POSITION is operating (active on PC/MAC) TIMER active and error in Reload a correct TIMER configura-60 TIMER data tion with the PC/MAC programme Loss of time and date Reload the time and date with the 62 on the board (only if the PC/MAC programme and replace TIMER is operating) the BAT1 - CR2032 buffer battery JOLLY TIMER is enabled by terminal G] JOLLY TIMER is activated board J3 64 rating TIMER DISABLED is ope-TIMER is disabled by terminal board J3

E145S Operating Logics

The table below shows only the most commonly used Operating Logics on our control board. For further details, please refer to the main manual for the full list.

LO	GIC	Status of the automated system: stopped	Status of the automated system: in motion	Status: photocell action
E	Semi-automatic	An OPEN pulse opens the gate and the following one closes it	An OPEN pulse stops the gate when opening and reopens when the gate is closing	The photocells invert during motion
A	Automatic	An OPEN pulse opens the gate and closes automatically after the pause time	An OPEN pulse is ignored when the gate opens, is reapplied during the pause and reopens when the gate closes	The closing photocells reapply the pause
C	Dead-man (OPEN- B inputs become CLOSE)	Logic with two separate com- mands: pressed OPEN-A opens; pressed CLOSE closes	An OPEN-A pulse opens when the gate closes; a CLOSE pulse closes when it opens	The photocells invert during motion



Programming Remote Controls using the XF Receiver and OmniDec



Programming a new remote control to a new E145S System

Programming a new remote control from a working master remote control



Tutorial Videos available for programming remote controls

FAAC UK have created tutorial videos to assist the installer in the programming of remote controls. Please use the link below to navigate straight to our "YouTube" Channel or use your preferred web browser and navigate to "youTube.com" and search for "FAAC UK" and select our channel and look for the videos required.

https://www.youtube.com/user/FAACUK

