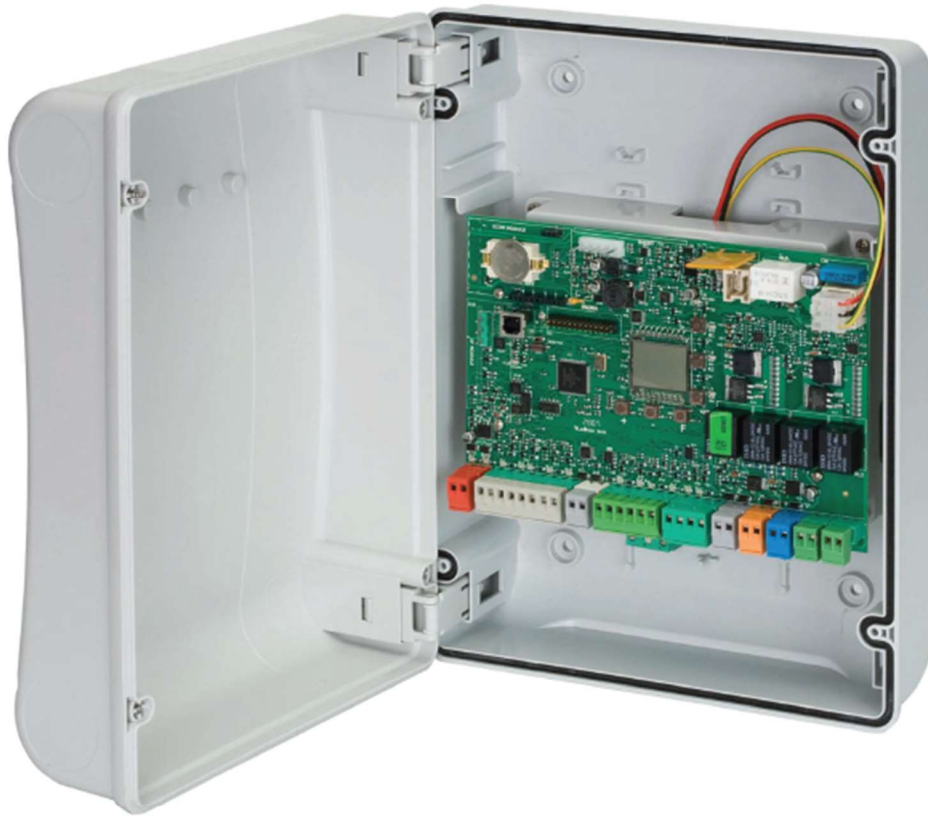


E124



FAAC

Pre-installation Checks



Please ensure that the correct cabling has been installed prior to commissioning of the system, as incorrect cabling can prevent the unit from operating correctly immediately or after installation.

BUS-2EASY ENCODER and PHOTOCELLS Cable Specification: 2 core 0.5mm² Multi-Strand Shielded Cable with the Sheath connected to the Earth at one end. Please do not share BUS-2EASY devices with other DC Voltage devices as it leads to electrical noise causing interference with the digital data on BUS-2EASY.

Motor Cable Specification: Minimum 2 core 2.5mm² Multi-Strand Cable for a recommended distance of 10mtrs, further distances are possible but will require thicker cable.

E124 control unit – rapid guide

WARNINGS

- Important! For the safety of people, it is important that all the instructions be carefully observed.
- Incorrect installation or incorrect use of the product could cause serious harm to people.
- Carefully read the instructions before beginning to install the product and keep them for future reference.
- The symbol  indicates notes that are important for the safety of persons and for the good condition of the automated system.
- The symbol  draws your attention to the notes on the characteristics and operation of the product.
- Before attempting any work on the control unit (connections, maintenance), always turn off power.
- Install, upstream of the system, a differential thermal breaker with adequate tripping threshold,
- Connect the earth cable to the relevant terminal.
- Always separate power cables from control and safety cables (push-button, receiver, photocells, etc.). To avoid any electrical disturbance, use separate sheaths or a screened cable (with the screen earthed).

CE DECLARATION OF CONFORMITY

Manufacturer: FAAC S.p.A.
Address: Via Calan, 10 - 40069 Zola Predosa BOLOGNA - ITALY
Declares that: The E124 control unit

conforms to the essential safety requirements of the following EEC directives

2006/95/EC Low Voltage Directive
 2004/108/EC Electromagnetic Compatibility Directive

Additional note:

This product underwent tests in a typical uniform configuration
 (all products manufactured by FAAC S.p.A.).

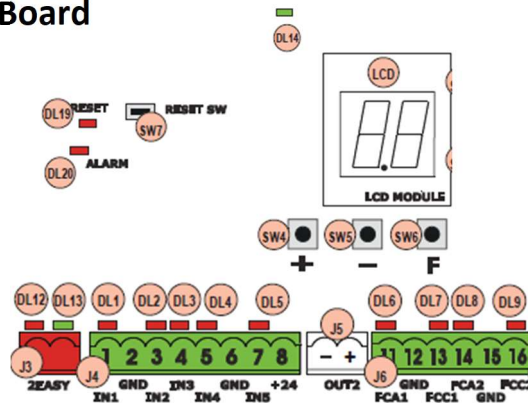
Bologna, 01 March 2014

CEO
 A.Marcellan



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/e124-control-board>)

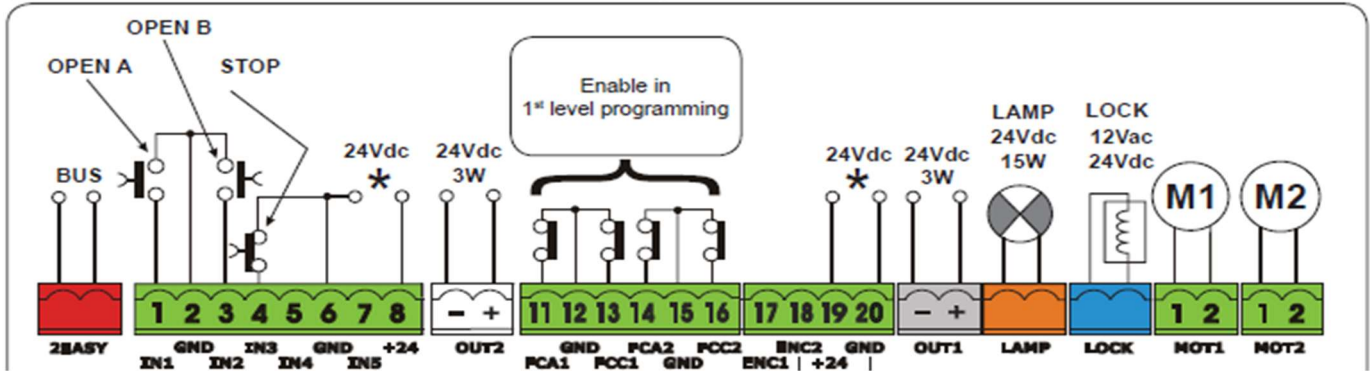
Key Components of E124 Board



Description of Key Components

LCD	SIGNALS AND PROGRAMMING DISPLAY	DL8	"FCA2" STATUS LED -LIMIT SWITCH OPEN – IF GATE CLOSED ON
SW4	"+" PROGRAMMING BUTTON	DL9	"FCC2" STATUS LED -LIMIT SWITCH CLOSED – IF GATE CLOSED OFF
SW5	"-" PROGRAMMING BUTTON	DL12	LED FOR BUS-2EASY DEVICE ACTIVE
SW6	"F" PROGRAMMING BUTTON	DL13	LED FOR BUS-2EASY DIAGNOSTICS
SW7	"RESET SW" SOFTWARE RESET BUTTON	DL14	LED SIGNALING PRIMARY POWER ON
DL1	"IN1" STATUS LED – DEFAULT OPEN A - NORMAL STATE OFF	DL19	LED FOR WHEN "SW7" IS PRESSED
DL2	"IN2" STATUS LED – DEFAULT OPEN B - NORMAL STATE OFF	DL20	LED SIGNALLING "ALARM"
DL3	"IN3" STATUS LED – DEFAULT STOP - NORMAL STATE ON	J3	CONNECTOR FOR CONNECTION OF BUS-2EASY DEVICES
DL4	"IN4" STATUS LED – DEFAULT FSW OP - NORMAL STATE ON	J4	CONNECTOR FOR TERMINAL BOARD INPUTS
DL5	"IN5" STATUS LED – DEFAULT FSW CL - NORMAL STATE ON	J5	CONNECTOR FOR OUTPUT 2 (OUT2)
DL6	"FCA1" STATUS LED -LIMIT SWITCH OPEN – IF GATE CLOSED ON	J6	CONNECTOR FOR TRAVEL LIMITS
DL7	"FCC2" STATUS LED -LIMIT SWITCH CLOSED – IF GATE CLOSED OFF		

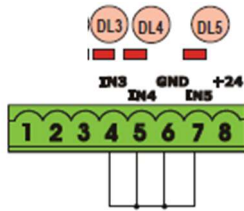
ELECTRICAL CONNECTIONS



CONNECTION OF TRADITIONAL SAFETY DEVICES



With the E124 control unit, you can use both traditional photocells (N.C. contact with relay) and/or photocells with BUS-2EASY.



If no safety devices such as traditional photocells and Emergency Stop Button fitted, please link the terminals as above and confirm the as shown above LED's are lit.

PHOTOCELLS BUS-2EASY

ADDRESSING THE BUS-2EASY PHOTOCELLS



Important: the same address must be given to both transmitter and receiver.

Make sure that there are not two or more photocell pairs with the same address.

If you are not using any BUS-2EASY accessory, leave free connector BUS-2EASY

The following shortened table shows the programming operations of the dip-switch inside the transmitter and the receiver of the BUS-2EASY photocells. The full manual contains the full list.

Dip 1	Dip 2	Dip 3	Dip 4	Type
OFF	OFF	OFF	OFF	OPENING
OFF	OFF	ON	OFF	OPENING
ON	OFF	OFF	OFF	CLOSING
ON	OFF	ON	ON	CLOSING
OFF	ON	OFF	OFF	OPENING AND CLOSING
OFF	ON	OFF	ON	OPENING AND CLOSING
ON	ON	ON	ON	OPEN PULSE

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

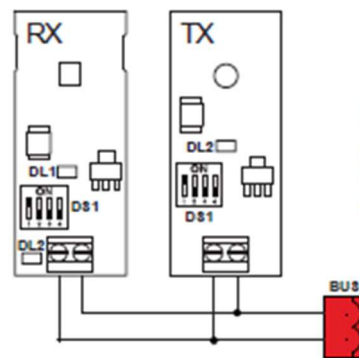
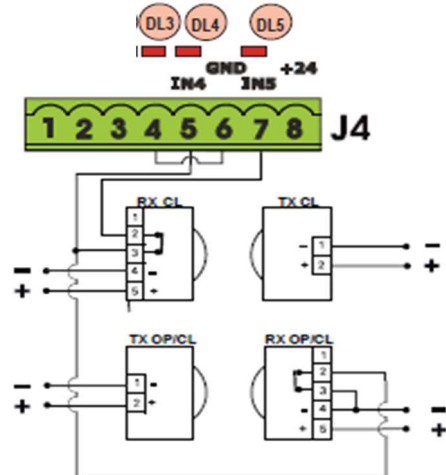
LED DL15 (Red)

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.
OFF	Board in Sleep mode (if used).

The below shows a typical wiring of a set of photocells outside across the opening (closing safety) and a set of photocells inside beyond the arc of the gate (opening and closing safety) and the STOP circuit linked out and confirming the as shown below LED's are lit.



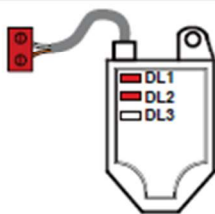
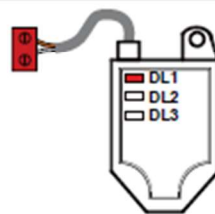
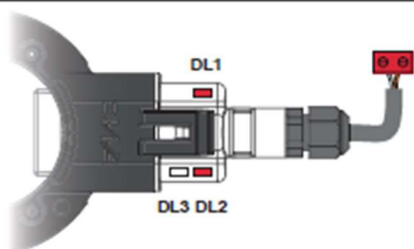
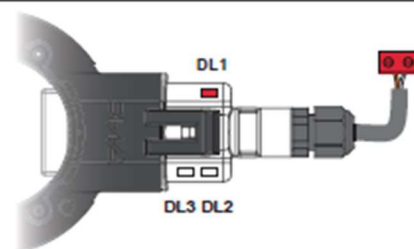
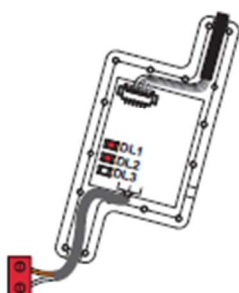

DL1 = Alignment
DL2 = BUS-2EASY/
power supply status
DS1 = Programming
dip-switches


BUS 2-EASY ENCODER CONNECTION

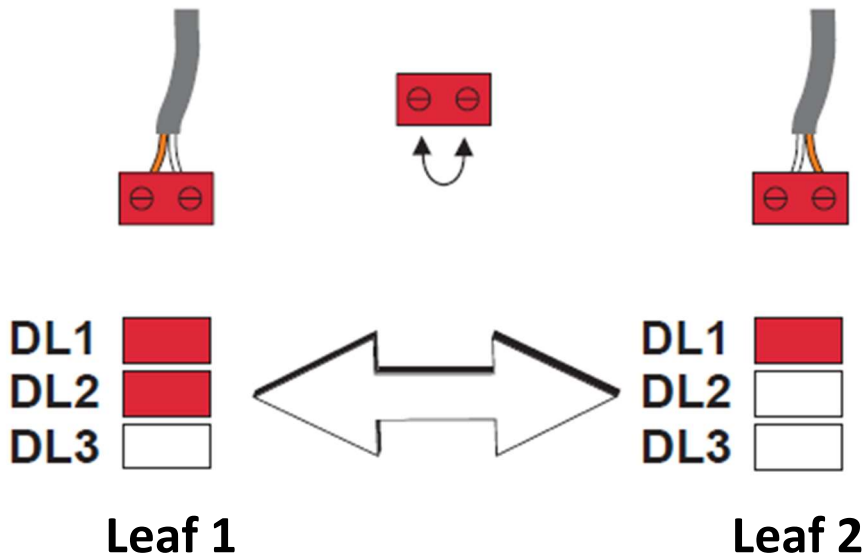
 Leaf 1 opens as first and closes as second



1. Connect the 2 encoder cables to the BUS-2EASY input (red terminal) on the board.
2. Check that the encoder is connected correctly according to the table. The LEDs must be checked with the leaf stopped

	Leaf 1 (DL1, DL2 on)	Leaf 2 (DL1 on)
Absolute encoder		
Relative encoder S700H/S800H		
Absolute encoder S800H ENC		

 If necessary, swap the 2 connecting wires to obtain the correct coupling of the encoder with the leaf as indicated in the following figure.



PROGRAMMING

Programming is divided in two levels:

- BASIC programming
- ADVANCED programming

	1	2	3	
BASIC PROGRAMMING	<p>1A. PRESS AND HOLD F : THE FIRST FUNCTION APPEARS</p>	<p>RELEASE F: THE FUNCTION VALUE IS DISPLAYED</p>	<p>USING + OR -, SCROLL THE AVAILABLE VALUES UNTIL THE THE DESIRED ONE</p>	<p>PRESS F: TO MOVE TO THE NEXT FUNCTION</p>
ADVANCED PROGRAMMING	<p>1B. PRESS AND HOLD F AND THEN ALSO + : THE FIRST FUNCTION APPEARS</p>	<p>RELEASE THE KEYS: THE FUNCTION VALUE IS DISPLAYED</p>		<p>FUNCTION St (LAST BASIC OR ADVANCED FUNCTION)</p> <p>SELECT y TO SAVE THE PROGRAMMING OTHERWISE SELECT no TO EXIT THE PROGRAMMING WITHOUT SAVING</p>




The function is displayed only while the button is pressed

For simple programming of the motor type and logic only Basic Programming is required as below. The first parameter that **MUST** be set is the "cF". This will then allow correct configuration to proceed. Please note that until SETUP as been completed the display will show a flashing "50", which is SETUP requested.


BASIC PROGRAMMING

Display	Basic Function	cF						
		0	1	2	4	3	6	5
cF	<p>0 Configures the parameters with DEFAULT values corresponding to an installation with non-FAAC operators. (see column cF 0).</p> <p>1 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC 412, 413/415, 770, 390, 770N (see column cF 1).</p> <p>2 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC 391 (see column cF 2).</p> <p>3 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC S700H/S800H (see column cF 3).</p> <p>4 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC 418. (see column cF 4).</p> <p>5 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC S450H (see column cF 5).</p> <p>6 Configures the parameters with DEFAULT values corresponding to an installation with operators FAAC S800H ENC (see column cF 6).</p> <p>PC Mixed configuration from a PC/MAC</p> <p> At the time of changing the set motor type on the board, the relevant defaults are uploaded.</p>	0	1	2	4	3	6	5
dF	<p>DEFAULT:</p> <p>y indicates that all the set values correspond to the default values.</p> <p>no indicates that one or more set values are different from the default.</p> <p>Set y if you want to restore the default settings.</p>	y	y	y	y	y	y	y

Please note that if you have a mixed system i.e. A S700H/S800H and a S800H ENC or 413 and 418, this will require the use of Easyboard software. A Windows laptop or Mac Laptop with a Type A to Type B USB lead will be required. Available to download from https://faac.biz/documents/?drawer=Software*EasyBoard

Display	Basic Function	cF						
		0	1	2	4	3	6	5
LO	FUNCTION LOGICS: E Semi-automatic EP Semi-automatic Step-by-Step S Automatic Safety Devices SA Automatic with reversal during pause SP Automatic Step-by-Step Safety Devices AI Automatic 1 A Automatic AP Automatic Step-by-Step At Automatic timer b Semi-automatic "b" bC Mixed (Pulses for opening / Dead-man commands for closing) C Dead-man CU Logic modified from a PC/MAC  <i>Other more detailed programming possibilities are feasible by programming with a PC (see dedicated instructions).</i>	E	E	E	E	E	E	E
PA	PAUSE TIME A (visualised only if the selected logic allows automatic reclosing): Pause time following a TOTAL opening command. It has only effect if a logic with pause time was selected. Can be adjusted from 0 to 59 sec. in one-second steps. Next, the viewing changes in minutes and ten seconds (separated by a dot) and time is adjusted in 10-second steps, up to the maximum value of 9.5 minutes. <i>E.g.: if the display shows 2.5, the pause time will be 2 min. and 50 sec.</i>	30	30	30	30	30	30	30
Pb	PAUSE TIME B (visualised only if the selected logic allows automatic reclosing): Pause time following a PARTIAL opening command. It has only effect if a logic with pause time was selected.	30	30	30	30	30	30	30
Mn	NR. OF MOTORS: You can select the number of motors present in the system: 1 = 1 motor 2 = 2 motors	02	02	02	02	02	02	02
F1	MOTOR 1 POWER: You can adjust the maximum power of motor 1, which is the same during both opening and closing. 01 = minimum power 50 = maximum power  <i>If the power is modified, we recommend performing a new SETUP - see the related paragraph.</i>  <i>Other more detailed programming possibilities are feasible by programming with a PC (see dedicated instructions).</i>	25	25	40	35	40	35	35
F2	MOTOR 2 POWER (visualised only with the function Mn = 2): You can adjust the maximum power of motor 2, which is the same during both opening and closing.	25	25	40	35	40	35	35
SP	SPEED: Adjusts the motion speed of the motors. There are 10 levels. The value is relative and not absolute, because the speed value refers to the weight of the leaf measured during the SETUP cycle 01 = minimum speed 10 = maximum speed	08	08	08	08	08	08	08

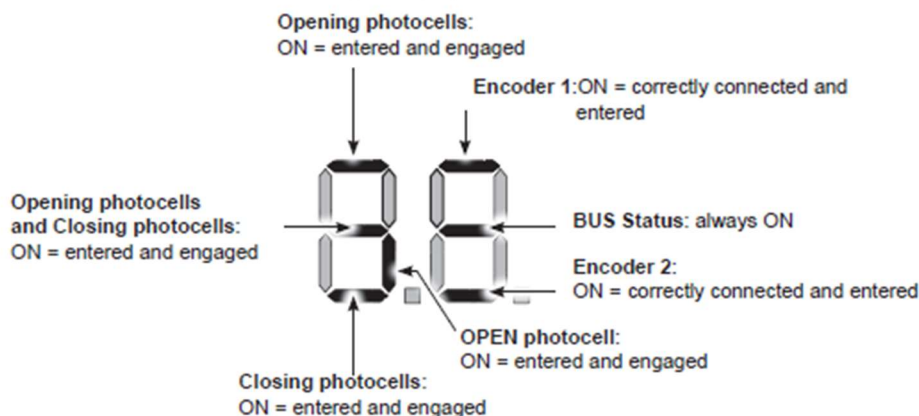
Please note that for the majority of systems the default power and speed settings will be sufficient to allow the first setup. These values will generally require further adjustments if force limitation is being used as part of the safety systems and a new setup should be run after the power settings are changed.

Display	Basic Function	cF						
		0	1	2	4	3	6	5
En	ENCODER USE: You can enable/disable the use of encoders (both BUS and GATECODER encoders): y = encoders on both motors no = encoders disabled  <u>When using configurations 3, 5 or 6 it is mandatory to use the encoder, no is not selectable</u>	no	no			y		y
FA	LIMIT SWITCH WHEN OPENING: Lets you set or disable use of the opening limit switch on swing-leaves. no = opening limit switches disabled 01 = the limit switch determines the stopping of motion 02 = the limit switch determines the start of deceleration	no	no			no		no
FC	LIMIT SWITCH WHEN CLOSING: Lets you set or disable use of the closing limit switch on swing-leaves. no = closing limit switches disabled 01 = the limit switch determines the stopping of motion 02 = the limit switch determines the start of deceleration	no	no			no		no
Cd	DELAY FOR CLOSING LEAF (visualised only with the function fn = 2):	05	05			05		05
bu	BUS-2EASY DEVICES ENTRY: See the related paragraph.	no	no			no		no

BUS-2EASY DEVICE ENTRY

1. Access BASIC programming and scroll through the functions up until bu. When F is released, the display will show the BUS-2EASY devices status (see the figure).
2. Perform the entry: simultaneously press and hold + and - for at least 5 sec (during this time, the display will blink).
3. y will appear as a confirmation of entry completion.
4. Release the + and - buttons. The status of the BUS-2EASY devices will be displayed.





 If no BUS device has ever been entered in the board, the display will read no.



The below in the figure is what should be seen as an example for a double gate that is using encoders.



In STAND BY (gate closed and in stand-by) with BUS-2EASY Encoder on leaf 1 and leaf 2 and BUS-2EASY Photocells correctly connected and entered.

m2	MOTOR 2 dead-man DRIVE mode (visualised only with the function fn = 2) +  OPENS (visualising oP) until the button is held down -  CLOSES (visualising cL) until the button is held down	--	--	--	--
m1	MOTOR 1 dead-man DRIVE mode +  OPENS (visualising oP) until the button is held down -  CLOSES (visualising cL) until the button is held down	--	--	--	--


Display	Basic Function	cF						
		0	1	2	4	3	6	5
EL	WORK TIME LEARNING (SETUP): See the related paragraph.	--	--	--	--	--	--	--

Perform the SET-UP as follows:

1. Enter BASIC programming and go to the parameter **EL**, when F is released -- will appear.

2. Ensure that the gate leaves are closed. Otherwise, proceed as follows:

- Press and hold -/R2 to close leaf 2
- Press and hold +/R1 to close leaf 1

 Should pressing +/R1 and/or -/R2 command opening of the corresponding leaf, cut off power and, on terminal board J11 or J12, invert the cables of the corresponding motor.

3. With the gate leaves closed, launch SETUP by pressing and holding **+** and **-** until **S1** begins to flash on the display (about 3 sec).

4. Release **+** e **-**. Leaf 1 begins its opening movement.

Operation WITHOUT Safecoder

Leaf 1 automatically acknowledges the mechanical stop.

Operation WITH Safecoder or S800H ENC

Leaf 1 automatically acknowledges the mechanical stop. It will in any case be possible to stop leaf movement at any time and in the desired point by sending an OPEN A pulse.

5. On the display **S2** will flash (only if 2 motors have been selected): leaf 2 begins opening.

Operation WITHOUT Safecoder

Leaf 2 automatically acknowledges the mechanical stop.

Operation WITH Safecoder or S800H ENC

Leaf 2 automatically acknowledges the mechanical stop. It will in any case be possible to stop leaf movement at any time and in the desired point by sending an OPEN A pulse.

Steps 4 and 5 with function FA:

FA = 01 (the limit switch determines the stopping of motion) the OPEN A pulse for stopping motion is ignored.

FA = 02 (the limit switch determines the start of deceleration) with Safecoder installed or operator S800H ENC send an OPEN A pulse only after involving the opening limit switch, without Safecoder or with operators different than S800H ENC, make sure that the limit switch is engaged before the mechanical stop.

6. On the display **S3** will flash (only if 2 motors have been selected): leaf 2 begins closing.

Operation WITHOUT Safecoder

Leaf 2 automatically acknowledges the mechanical stop.

Operation WITH Safecoder or S800H ENC

Leaf 2 automatically acknowledges the mechanical stop. It will in any case be possible to stop leaf movement at any time and in the desired point by sending an OPEN A pulse.

7. On the display **S4** flashes: leaf 1 begins closing.

Operation WITHOUT Safecoder

Leaf 1 automatically acknowledges the mechanical stop

Operation WITH Safecoder or S800H ENC

Leaf 1 automatically acknowledges the mechanical stop. It will in any case be possible to stop leaf movement at any time and in the desired point by sending an OPEN A pulse.

Steps 6 and 7 with function FC:

FC = 01 (the limit switch determines the stopping of motion) the OPEN A pulse for stopping motion is ignored.

FC = 02 (the limit switch determines the start of deceleration) with Safecoder installed or operator S800H ENC send an OPEN A pulse only after involving the closing limit switch, without Safecoder or with operators different than S800H ENC, make sure that the limit switch is engaged before the mechanical stop

8. **S5** flashes on the display: both leaves open at full speed.

9. **S6** flashes on the display: both leaves close at full speed.

10. The board will automatically exit the programming menu and will display the automated system status (**00**) to confirm that the SETUP procedure has been completed correctly. If the procedure is not completed correctly, on the display **S0** will start flashing, indicating that a new SETUP procedure must be performed.

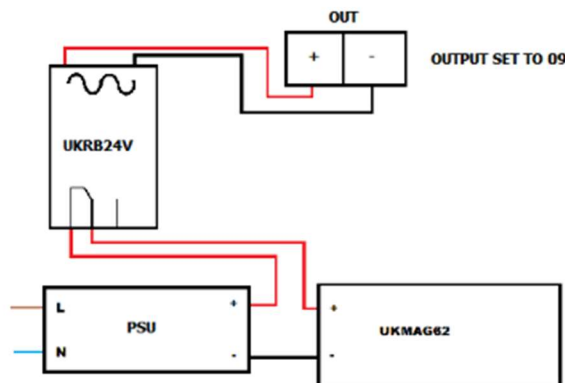
St	AUTOMATED SYSTEM STATUS: You can exit programming, choosing whether or not to save the configuration you just performed. 1. set the choice: S to SAVE and EXIT the programming no to EXIT the programming WITHOUT SAVING 2. press the button F to confirm; at the end the display returns to visualize the automated system status: 00 = CLOSED 01 = OPEN 02 = Stationary then "OPENS" 03 = Stationary then "CLOSES" 04 = In "PAUSE" 05 = Opening 06 = Closing 07 = FAIL SAFE in progress 08 = checking BUS-2EASY devices in progress 09 = Pre-flash then "OPENS" 10 = Pre-flash then "CLOSES" 11 = Emergency open 12 = Emergency close HP = Hold position	S
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The above is the Status references is what will be seen under normal operation, even if the alarm LED is illuminated. To identify the error the signalling Errors and Alarms procedure should be followed.

The following parameters from Advanced Programming may also need to be changed if the SETUP continues to fail.

<p>EC</p>	<p>ANTI-CRUSHING SENSITIVITY: Varying this function varies the amount of time after which, in case of obstacle, the board commands reversal of the leaves, or it will command a stop if the leaves are in the contact point search space (see the parameter r8). The fourth consecutive obstacle detected in the same direction and position will be defined as a contact point and the leaf will stop in that position. 01 = minimum sensitivity (maximum time before reversal) 10 = maximum sensitivity (minimum time before reversal)</p>	<p>01</p>	<p>06</p>	<p>05</p>	<p>05</p>
<p>US</p>	<p>ULTRA-SENSITIVITY: This function activates an obstacle detection system, based on the control of the variation of the current absorbed by the motor, causing immediate leaf reversal. y = active no = excluded</p>	<p>no</p>	<p>no</p>	<p>y</p>	<p>y</p>


The following shows the typical wiring of a Maglock using either OUT 1 or OUT 2 with a relay and separate power supply, which are configurable in the Advanced Programming by holding “F” and “+” together.



<p>o1</p>	<p>OUT 1: You can set the output OUT1 (open collector N.O.) in one of the following functions: 00 = always active 01 = FAIL-SAFE 02 = INDICATOR LIGHT (off = closed; on = during opening and open/in pause; flashing = during closing) 03 = COURTESY LIGHT (stays on for the duration of the movement (even in SETUP) in addition to the set time of function t1) 04 = ACTIVE ERROR 05 = automated system OPEN or in PAUSE 06 = automated system CLOSED 07 = automated system MOVING 08 = automated system in EMERGENCY 09 = automated system in OPENING 10 = automated system in CLOSING 11 = electric lock control before OPENING and before CLOSING 12 = safety device ACTIVE 13 = TRAFFIC LIGHT function (active when OPENING and with automated system OPEN) 14 = timed output which can be activated from the second radio channel OMNIDEC (see function t1) 15 = output which can be activated from the second radio channel OMNIDEC (step-by-step function) 16 = active during movement of leaf 1 17 = active during movement of leaf 2 18 = Intrusion detection 19 = System working on battery  If t1 is displayed, it indicates that the output is used as a TIMER set from the PC/MAC software.</p>	<p>00</p>	<p>00</p>	<p>00</p>	<p>00</p>
<p>t1</p>	<p>OUT 1 TIMING (visualised only with the function o1 = 03 or o1 = 14): You can adjust the timing of OUT 1 output if a timed function has been selected with a time from 1 to 59 minutes in 1-minute steps for functions 03-14</p>	<p>01</p>	<p>01</p>	<p>01</p>	<p>01</p>
<p>o2</p>	<p>OUT 2: You can set the output OUT2 (open collector N.O.). See the options as o1.</p>	<p>02</p>	<p>02</p>	<p>02</p>	<p>02</p>
<p>t2</p>	<p>OUT 2 TIMING (visualised only with the function o2 = 03 or o2 = 14): Adjustable as t1.</p>	<p>01</p>	<p>01</p>	<p>01</p>	<p>01</p>

SIGNALLING ERRORS AND ALARMS

In case of **ERRORS** (conditions that stop gate operation) or **ALARMS** (conditions that do not compromise gate operation) it is possible to see the number related to the warning.

 These warnings will disappear in the following cycle only if the situation causing them is removed.

When there is an **ERROR**, the **ALARM LED** will go on steady. When an **ALARM** is triggered, the **ALARM LED** starts to flash.

By simultaneously pressing + and - the display will show corresponding error number.

N°	ERROR	SOLUTION
01	Board broken	Replace the board
02	Thermal protection active	Wait for the board to cool down, check for overloads
03	Motor 1 faulty	Check that the motor works and that the wiring is not interrupted or damaged
04	Motor 2 faulty	
05	Invalid SETUP	Repeat board SETUP
08	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 connected and entered BUS-2EASY devices
10	Motor 1 limit switch error	Check the limit switch connections for motor 1
11	Motor 2 limit switch error	Check the limit switch connections for motor 2
12	BUS-2EASY call	Ensure that the BUS devices are operating correctly and, if necessary, repeat BUS device acquisition
13	FAIL SAFE	Check that the safety devices (photoeyes) are operating correctly
14	Configuration error	Check that the board is configured correctly (basic and advanced programming) and, if necessary, repeat SETUP
15	Movement timeout reached	Check that the motors are blocked; check that any limit switches are activated correctly and that the mechanical stops are present.
16	Deep sleep	The board is in advanced energy-saving mode. No action required.
17	Motor 1 encoder fault	Check the connections or replace motor 1 encoder
18	Motor 2 encoder fault	Check the connections or replace motor 2 encoder
19	Incorrect memory data	Repeat BUS-2EASY device entry and/or re-program the board
45	Battery operation	No action required.
93	High absorption at +24V	Check that absorption by the accessories connected is within permitted limits
N°	ALARM	Solution/Description
20	Obstacle on MOTOR 1 (only with encoder)	Remove any possible obstacle on leaf 1
21	Obstacle on MOTOR 2 (only with encoder)	Remove any possible obstacle on leaf 2
22	MOTOR 1 current limited	Check the force set on motor 1
23	MOTOR 2 current limited	Check the force set on motor 2
25	LOCK 1 output short-circuit	Remove the cause of the short-circuit
26	LOCK 2 output short-circuit	Remove the cause of the short-circuit
27	Nr. of consecutive obstacles exceeded during opening	Remove any possible obstacle. Should the problem persist, repeat SETUP
28	Nr. of consecutive obstacles exceeded during closing	Remove any possible obstacle. Should the problem persist, repeat SETUP
30	XF radio code memory full	Cancel the radio codes that are not being used using the PC program or use an additional DEC/MINIDEC/ RP module
31	Tampering alarm	Movement was performed with automation in status St= 00 or 01 . Perform a manoeuvre cycle.
32	Emergency active	Check that the emergency input is not active (configuration only possible from PC/Mac)
35	TIMER active and TIMER function operating:	TIMER function is operating
40	Service request	Contact the installer for maintenance
50	The HOLD POSITION is operating (active on PC/MAC)	HOLD POSITION function is operating
60	TIMER active and error in TIMER data	Reload a correct TIMER configuration with the PC/MAC programme
62	Loss of time and date on the board (only if the TIMER is operating)	Reload the time and date with the PC/MAC programme and replace the BAT1 - CR2032 buffer battery
63	JOLLY TIMER is activated	JOLLY TIMER is enabled by terminal board J3
64	TIMER DISABLED is operating	TIMER is disabled by terminal board J3