

SECURITY DOOR CONTROLS
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INSTALLATION INSTRUCTIONS

PROGRAMMING MANUAL AUTO-PROG ADVANCED PROGRAMMER FOR AUTO ENTRYCONTROL OPERATORS



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1. AUTO-PROG

1.1 INSTALLATION AND CONNECTIONS



CARRY OUT THE FOLLOWING OPERATIONS WITH THE POWER SUPPLY DISCONNECTED

1. Disassemble the parts (?Fig. 1).

2. Break the cable passage insert as needed.



Referencing ?Fig.2, the AUTO-PROG is designed for the cables to enter from the back (1) or from underneath (2).

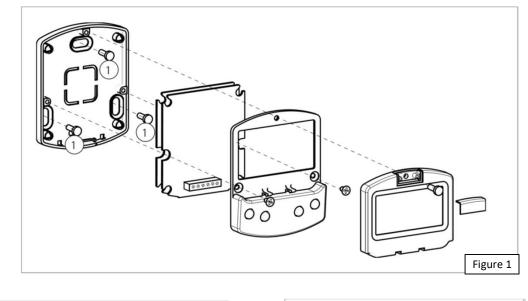
3. The AUTO-PROG may be used as a handheld device or fixed to a surface. If a fixed location is desired, determine the position and attach it using the slotted mounting holes & suitable screws (Fig. 1 (1)).

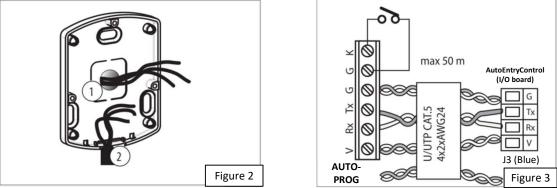
4. Connect the AUTO-PROG to the AutoEntryControl I/O board using a 4 pair twisted U/UTP AWG24 cable with a maximum length of 164 feet (Fig. 3). Be careful to observe polarity!



An optional key switch device may be connected between terminals G and K in order to enable/ disable the AUTO-PROG.

5. Reassemble the parts indicated in (?Fig. 1).





1.2 SWITCHING ON AND THE HOME SCREEN

 Turn power on to the AutoEntryControl
 The display will momentarily show the following in sequence:



in which the Bootloader version appears, then



in which the fi?rmware version appears, and lastly



The content of this home screen is explained ?below in Figure 4 below.

3. The 4 buttons are used to select controls that, depending on the screen, appear on the display above them.

4. By pressing the relative button on the home screen (Fig. 4) you can:

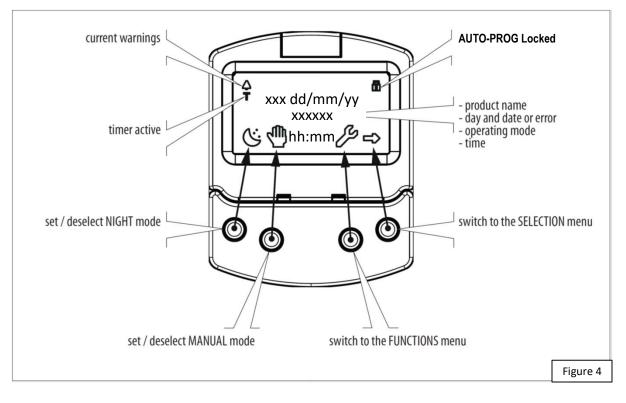
?- \bigcirc = set the NIGHT mode

🤲 = set the MANUAL mode

-? *c* ?= switch to the FUNCTIONS menu that includes all the AutoEntryControl con?guration particleters.

-? = switch to the SELECTION menu that includes additional operating modes.

By pressing the button to set the NIGHT or MANUAL mode, the relative icon is highlighted and the description of the operating mode is updated on the display. Once NIGHT or MANUAL mode has been set by pressing the respective button, press it again to return to the previous mode.



(i)

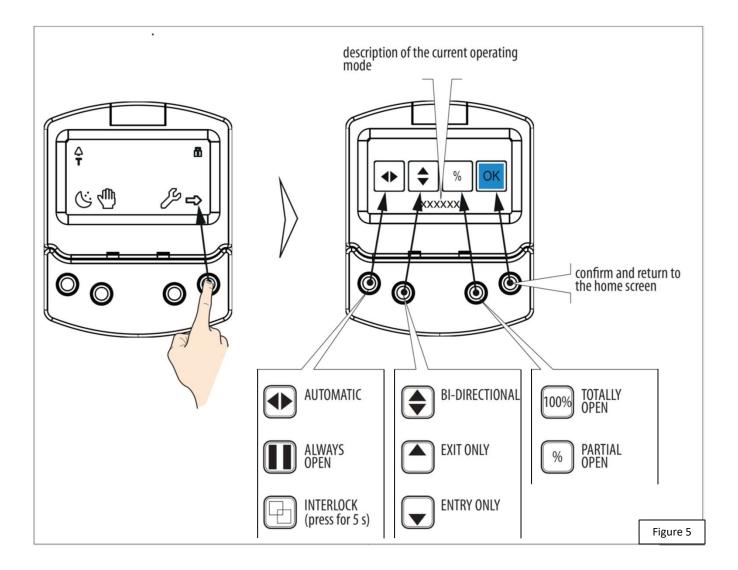
1.3 SELECTION MENU

To access the SELECTION menu from the home screen, press the \rightarrow button (?Fig. 5).

Four new icons appear on the display that defi?ne the operating modes that can be set. The possible combinations can be obtained by pressing the corresponding buttons (Fig. 5). After having set the operating mode, press the OK button to confi?rm and return to the home screen.

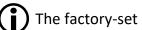


The description of the operating mode on the display is updated with the description of the one that has been set in the selection menu.



1.4 FUNCTIONS MENU

To access the FUNCTIONS menu from the home screen, press the 🖌 button (?Fig. 6). The display prompts for a 4-digit password to be entered.



The factory-set password is: 0000

- Set the first pw digit using the
- Confi?rm using the OK button to move to the next digit.

and **T**

buttons.

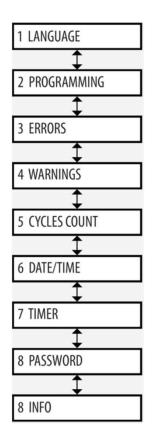
- When all 4 digits have been entered, if the password is correct, access the FUNCTIONS menu on the right. Select the item from the menu using the A and

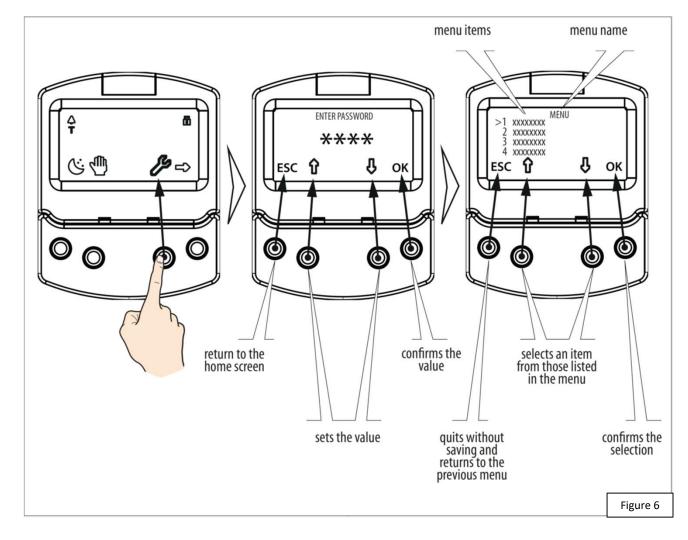
- **b**uttons.
- Confi?rm using the OK button to enter.



Press ESC at any time to return to the home screen.

All the possible menu functions are shown on the next few pages (see Table A). A description of each menu option is detailed following Table A, in Section 1.5.





1 LANGUAGE 1 ITALIANO 2 ENGLISH 3 FRANCAIS	
2 ENGLISH	
4 DEUTSCH	
5 ESPANOL	
6 NEDERLANDS	
2 PROGRAMMING	
1 INPUTS / OUTPUTS	
1 INPUTS I1-18	
0 DISABLED	
1 EXTERNAL OPEN NORMALLY OPENED / NORMALLY CLOSED	
4 INTERNAL OPEN NORMALLY OPENED / NORMALLY CLOSED	
7 AUTOMATIC OPEN NORMALLY OPENED / NORMALLY CLOSED	
8 SEMIAUTOM. OPEN NORMALLY OPENED / NORMALLY CLOSED	
10 KEY NORMALLY OPENED / NORMALLY CLOSED	
11 PARTIAL OPEN NORMALLY OPENED / NORMALLY CLOSED	
20 CLOSING SAFETY NORMALLY OPENED / NORMALLY CLOSED TEST ENABLED / DISABLI	
21 OPENING SAFETY NORMALLY OPENED / NORMALLY CLOSED TEST ENABLED / DISABLE	Ð
22 OVERHEAD PRES. SENS NORMALLY OPENED / NORMALLY CLOSED	
30 EMERGENCY OPEN NORMALLY OPENED / NORMALLY CLOSED	
31 EMERGENCY OPEN WITH MEM NORMALLY OPENED / NORMALLY CLOSED	
34 EMERGENCY CLOSE NORMALLY OPENED / NORMALLY CLOSED	
35 EMERGENCY CLOSE WITH MEM NORMALLY OPENED / NORMALLY CLOSED	
36 FIRE ALARM NORMALLY OPENED / NORMALLY CLOSED	
40 ALWAYS OPEN NORMALLY OPENED / NORMALLY CLOSED	
41 EXIT ONLY NORMALLY OPENED / NORMALLY CLOSED	
42 ONLY IN NORMALLY OPENED / NORMALLY CLOSED	
43 NIGHT NORMALLY OPENED / NORMALLY CLOSED	
44 MANUAL NORMALLY OPENED / NORMALLY CLOSED	
45 PARTIAL NORMALLY OPENED / NORMALLY CLOSED	
46 INTERBLOCK ON NORMALLY OPENED / NORMALLY CLOSED	
60 TIMER 2 OUTPUTS 01/02	
0102	
0 DISABLED	
1 GONG NORMALLY OPENED / NORMALLY CLOSED	
2 ERROR NORMALLY OPENED / NORMALLY CLOSED	
4 EMERGENCY ACTIVATE NORMALLY OPENED / NORMALLY CLOSED	
5 TEST NORMALLY OPENED / NORMALLY CLOSED	
6 DOOR NOT CLOSED NORMALLY OPENED / NORMALLY CLOSED	
7 DOOR OPENED NORMALLY OPENED / NORMALLY CLOSED	
8 DOOR OPENING NORMALLY OPENED / NORMALLY CLOSED	
9 LIGHT TIME 190 S NORMALLY OPENED /	NORMALLY
10 INTRUSION ACTIVE NORMALLY OPENED / NORMALLY CLOSED CLOSED	
11 CLOSING SAFETY NORMALLY OPENED / NORMALLY CLOSED	
12 SAFETIES NORMALLY OPENED / NORMALLY CLOSED	
3 OP/CLRELAY	
S OF/CLRELAT NORMALLY OPENED / NORMALLY CLOSED	
4 EXTERNAL SELECTOR	
POSITION 1POSITION 2	
0 DISABLED	
1 NIGHT	
2 OPENED	
3 EXIT ONLY	
4 MANUAL	

2 MOTION		
1 OPENING2 CLOSING		
1 SPEED	110	
2 SLOWDOWN	SLOWDOWN SPACE 0°90°	SLOWDOWN SPEED 13
3 STRENGTH	010	
4 STRENGTH DURATION	0.13.0 s	
5 ACCELERATION	110	
6 DECELERATION	110	
3 TIMING		
1 PAUSE TIME)30 s	
2 PAUSE TIME)30 s	
3 NIGHT PAUSE TIME])90 s	
4 NIGHT SENSOR NIGHT)90 s	
4 MOTOR LOCK KIT		
1 FUNCTION		
DISABLED		
NIGHT		
EXIT ONLY		
NIGHT + MONODIR		
ALWAYS		
2 LOCK DELAY)60 tenths of a second	
3 RELEASE TYPE		
WHEN OPENING		
CLOSED		
5 INSTALLATION		
1 ARM TYPE		
SKID		
ARTICULATE		
2 SENSOR TYPE		
DOOR MOUNTED SYSTEM		
OPS AND BEAM		
3 START SETUP	ARE YOU SURE ?	
4 PUSH AND GO		
0 DISABLED		
1 ENABLED		
2 FAST FOOD		
5 PARTIAL STOP SEC.		
DISABLED		
ENABLED	0° 00°	
6 LEAF DELAY 7 SCP)°90°	
DISABLED		
ENABLED		
8 REVERSE STROKE		
DISABLED		
ENABLED		
9 INOUT STATE	N1IN8 0102	
10 DOOR STATUS		
11 OTHER BOARD DATA	/_MAIN V_ACC POS I_MO	DT
6 INTERCOM		
1 FUNCTION		
DISABLED		
INTERMODE		
INTERLOCK	WITH MEMORY / WITHOUT MEMOR	Y
2 LEAVES		
2 LEAVES + INTERBLOCK	WITH MEMORY / WITHOUT MEMOR	Y
2 MASTER/SLAVE NR.		5
3 INTERCOM REG.		
4 NODE LIST		

7 MISCELLANEOUS	
1 DEFAULT DEFAULT	
ACTIVATE	
NO	DO YOU WANT TO LOAD DEFAULT CONFIG ?
2 BOARD'S DISPLAY	
STOPPED	
NOT BLOCKED	
3 INTRUSION	
DISABLED	
ENABLED	
4 KPEVO KEY	
WITHOUT USER PSW	
BLOCK	
5 CONSECUTIVE OBST.	
CLOSING	010
OPENING	010
6 TEST ERROR	
DISABLED	
ENABLED	
3 ERRORS	
The display shows any current errors	
4 WARNINGS	
the display shows any current warnings	
5 CYCLES COUNT	
1 CYCLES NUMBER	
ABSOLUTE	
RELATIVE	
2 MAINTENANCE	
MAINTENANCE DATE	MAINTENANCE CYCLES
3 CYCLES RESET ARE YOU SURE ?	resets the number of cycles
6 DATE/TIME	
1 SET DATE	
2 SET TIME	
3 DAYLIGHT SAV TIME	
DISABLED	
ENABLED	
7 TIMER	
1 TIMER STATE	
DISABLED	
ENABLED	
2 MONDAY	
3 TUESDAY	
4 WEDNESDAY	
5 THURSDAY	
6 FRIDAY	
7 SATURDAY	
8 SUNDAY	
9 MON - SUN	
10 MON - FRI	
11 JOLLY	
12 JOLLY SLOTS	
SLOT 1	
SLOT 2	
SLOT 3	
SLOT 4	
SLOT 5	
SLOT 6	
APPLY (appears only if selected MON – St	JN OF MUN - FKI)

	FU	NCTION: 0	NO FUNCTION	
	FU	NCTION: 1	AUTO BIDIR TOTAL	
	FU	NCTION: 2	AUTO OUT TOTAL	
	FU	NCTION: 3	AUTO BIDIR PARTIAL	
	FU	NCTION: 4	AUTO OUT PARTIAL	
	FU	NCTION: 5	TOTALLY OPEN	
	FU	NCTION: 6	PARTIAL OPEN	
	FU	NCTION: 7	AUTO IN TOTAL	
	FU	NCTION: 8	AUTO IN PARTIAL	
	FU	NCTION: 9	NIGHT	
	FU	NCTION: 10	PARTIAL NIGHT	
			BEGINN	ING hh:mm
			END	hh:mm
8 PASSWORD				
	CIAN PSW			
	ANGE TEC PS	W	REINSERT TEC PSW	NEW PSW INSERTED
2 USER P	ANGE <mark>U</mark> SER I	DCW	REINSERT USER PSW	NEW PSW INSERTED
9 INFO	ANGL USER I			
E950E	BOOT	VER *.*		
E950E	APP	VER *.*		
KP EVO	APP	VER *.*		
11 240	ALL	7LN .		

1.5 PROGRAMMING menu descriptions

When activated: - if the door is not already open, it opens and remains open - if the door is already open, it closes - if the door is already open, it closes - if the door is already open, it closes Active in the BI-DIRECTIONAL, EXIT ONLY and ONLY IN modes. When activated, the door closes and remains closed as long as the input is active. When released, the door returns to normal operation.
--

Emergency close with memory

When activated, the door closes and remains closed as long as the input is active. When released, the door remains closed until it is Reset

Fire alarm

When activated, the door closes, regardless of the operating mode that has been set, with the lock kept in the released position. It has priority over any commands that may be active.

Always open

When activated, the ALWAYS OPEN mode is set.

Exit only

When activated, the EXIT ONLY mode is set.

Entry only

When activated, the ONLY IN operating mode is set.

Night

When activated, the NIGHT mode is set.

Manual

When activated, the MANUAL mode is set.

Partial

When activated, the PARTIAL mode is set.

Interblock ON

When activated, the INTERLOCK mode is set.

Timer

When activated, the TIMER mode is set.

OUTPUTS (01-02)

Each output can be set to NC or NO according to the device connected to it.

The outputs on terminal board J5 of the I/O board can be con?gured with the following functions:

Disabled

No associated function.

Gong

The output is activated and deactivated at 1-second intervals when the safety devices are engaged.

Error

The output is activated if there is an error.

Emrg. active

The output is activated when an Emergency is triggered.

Test

The output commands a FAILSAFE test on the inputs that are confi?gured as safety devices on which the option of running a TEST before movement has been enabled.

Door not closed

The output remains active until the door is closed.

Door open

The output remains active as long as the door is open.

Door opening

The output remains active as long as the door is moving.

Light

The output is activated, for a programmable length of time, when the door is open in NIGHT mode.

Intrusion active

The output is activated when an intrusion is in progress (i.e. when an unexpected movement of the door from its closed position is detected).

Closing safety

The output is activated when a closing safety device is active. Safeties

The output is activated when a closing or opening safety device is engaged.

OP/CL RELAY

Specifies the logic of the door status relay (NC/NO). **EXTERNAL SELECTOR**

CATERINAL SELECT

Specifies the operating mode associated with positions 1 and 2 of the selector on the side of the unit.

■ PROGRAMMING MOTION OPENING/CLOSING

Speed

Sets the speed of movement.

Slowdown

Specifies the space (in degrees of rotation of the AUTO shaft) and the deceleration speed (on 3 levels) of the door before reaching the ?final open / closed positions.

Strength

Specifies the maximum crushing force.

Strength duration

Specifies the maximum thrust time before an obstacle is recognized. Acceleration

Specifies how quickly the door reaches the set opening speed when starting from stop.

Deceleration

Specifies how quickly the door stops.

■ PROGRAMMING TIMING PAUSE TIME

Defines the pause time of the door when opened by a command, before closing automatically.

PAUSE TIME P&G

Sets the door pause time when opened by a Push & Go command, before closing automatically.

Night PAUSE TIME

Sets the door pause time when opened by a command in NIGHT mode, before closing automatically.

NIGHT SENSOR DELAY

When NIGHT mode is set, the internal detector remains active for the amount of time set in this parameter, to allow it to be opened only once. The internal detector is disabled immediately after opening and in any case upon expiry of the set delay.

PROGRAMMING MOTOR BLOCK KIT FUNCTION

Specifies the operating mode in which the lock is activated. LOCK DELAY

Specifies the opening delay time of the door to allow the lock to be released.

RELEASE TYPE

Specifies when power is disconnected from the lock after it has been mechanically released:

Opening = during the opening phase

Closed = when the door is closed again

 PROGRAMMING INSTALLATION ARM TYPE Specifies the type of transmission arm installed (shoe or slide) 	PROGRAMMING MISCELLANEOUS CONFIG. DEFAULT Shows whether the parameters have been modifi?ed, and if so,
START SETUP	resets the factory defaults after confirmation.
Carries out a Setup cycle after confirmation. PUSH AND GO	BOARD'S DISPLAY Not active.
Carries out a Setup cycle after confirmation. PUSH AND GO Sets the function that commands the automatic opening of the door after an initial manual push: Disabled = Push & Go not enabled Enabled = Push & Go enabled Fast food = Push & Go enabled in "FAST FOOD" mode (manual opening, motorized closing) PARTIAL STOP SEC. Specifies the detection area of the safety in opening: Disabled= obstacle detection active over the entire opening stroke Enabled= obstacle detection NOT active in proximity to the opening stop LEAF DELAY Specifies the opening delay between the doors of 2 leaf models. SCP Specifies the function that pushes the door with a greater force in the final section of the closure. It is useful to activate this function if there is high friction or if the seals are particularly rigid. Mecause activating the SCP function also reduces the sensitivity of the electronic anti-crushing system in the ? final section of closing, DO NOT activate the SCP function in "low energy" mode. REVERSE STROKE	 BOARD'S DISPLAY Not active. INTRUSION Sets the function in which the door resists attempts to open it manually. KPEVO KEY You can choose between: Block = the user must enter the user password in order to access the menus that he is authorised to use. Without user psw = the user doesn't need to enter the user password in order to access the menus that he is authorised to use. CONSECUTIVE OBST. Specifies the maximum number of consecutive obstacle detections in the same direction of movement, before stopping in an error condition. TEST ERROR Specifies the e?ect that the TEST will have when it detects a safety device fault: Disabled = the door will remain stationary in an error condition Enabled = the door will continue to operate at minimum speed ERRORS In this menu, the display indicates any current errors that there
Sets the function that makes the door carry out a short reverse stroke before opening to make it easier to the release the lock. 2 EASY REG. Registration of BUS 2easy devices. INOUT STATE	 may be in real time. WARNINGS In this menu, the display indicates any current alerts that there may be in real time. CYCLE COUNTER
The display indicates the status (on / off?) of inputs I1-I8 and outputs O1-O2 in real-time. DOOR STATUS	The AutoEntryControl has two counters: - total, non-resettable - partial, resettable
The display indicates the status of the automation in real-time. OTHER BOARD DATA The display indicates useful diagnostics information in real-time.	This menu allows you to view the cycles performed by the automation and reset the partial counter. It is also possible to set a deadline for scheduled maintenance
 PROGRAMMING INTERCOM FUNCTION Sets the operating mode. MASTER/SLAVE NR. Sets the network ID of the unit. INTERCOM REG. Registers the units of the network (to be performed only on the AUTO with ID1). NODE LIST Shows the ID of the units registered (on the master). 	It is also possible to set a deadline for scheduled maintenance according to: - date (optional) - number of cycles (from 1000 to 1000000) Alert 60 will be displayed as soon as one of the two settings (date or number of cycles) is reached. Logging in with the user password only allows data to be viewed.
I	

DATE/TIME

This menu allows you to set or modify the date, time?.



To keep the settings even if there is no mains power, which is necessary for the TIMER to work correctly, a battery must be installed on the Logic board.

TIMER

This menu includes all the parameters for con?guring the TIMER function

function.

When the TIMER is enabled, the operating mode of the door during the programmed time bands is set automatically. A maximum of 6 daily time bands can be de?ned, and an operating mode, selected from those available, assigned to each one. Each time band has a start time and an end time. The time bands must not overlap.



When the TIMER is enabled, the T icon appears on the home screen.

To manually change the operating mode set by the TIMER, it ?rst has to be disabled.

In order for the TIMER to work correctly, a battery must be installed on the Logic board.

In order to quickly program groups of days of the week with the same time bands, it is possible to simultaneously select all the days of the week (MON - SUN) and all weekdays (MON - FRI). Once the time bands that have been de?ned here have been confi?rmed using the APPLY option, they will overwrite any time bands that have already been programmed for individual days. If it is necessary to program speci?c days or periods (e.g. recurring holidays), you may use the JOLLY function. A maximum of 6 JOLLY time bands can be speci?ed and an operating mode, selected from those available, assigned to each one. Each time band has a start time and an end time. The time bands must not overlap.

The JOLLY time bands are then assigned to a maximum of 6 INTERVALS. An interval can be a single day or a series of



If a single day is de?fined, the start and end date of the interval must be the same. The interval must refer to same calendar year (example: for the period from 12/25 to 01/06, 2 intervals must be created, from 12/25 to 12/23 and from 01/01 to 01/06).

PASSWORD

This menu allows passwords to be set or modifi?ed.

To access the FUNCTIONS menu you are prompted to enter a 4-digit password.

The AutoEntryControl has two passwords available, with diff?erent access rights (See Table ?B below)

TABLE B. Access	permissions and	passwords
	TECHNICIAN PSW	USER PSW
LANGUAGE	×	~
PROGRAMMING	~	Θ
ERRORS	~	~
WARNINGS	~	~
CYCLES COUNT	~	✓ (*)
DATE/TIME	~	~
TIMER	~	~
PASSWORD	~	✓ (*)
INFO	~	~
* with restrictions		

(i)

The user is only allowed to modify the user password.

2. DIAGNOSTICS

2.1 LEDS CHECK

I/O BOARD LEDS

Each input on the I/O board, has a LED that indicates the physical state of the contact:

TABLE C. I/O board LEDs

LED	0	٠
DL 1	accessories power on	accessories power off
DL 2 - DL9	open contact	closed contact

LOGIC BOARD LEDS

*

fast flashing

There are 4 LEDs on the Logic board:

TABLE	D. Logic boa	rd LEDs			
LED	0	•	*	+	¥
DL 1 green	no USB	USB connect- ed		§	
DL 2 red	normal con- dition	error	S e t u p quested	re-Setup gress	in pro-
DL 3 blue	no power or board failure	/	normal o dition	con-	/
DL 4 yellow	board pa- rameters the same as trim- mer and DIP switch values	board pa- rameters different to trimmer and DIP switch values			/
• 0	off on lashing				

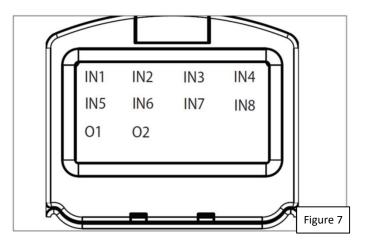
2.2 INPUTS AND OUTPUTS STATUS CHECK

The status of each input and output can be checked via the AUTO-PROG.

Go to menu 2.5.9. The display indicates the status of the logic as shown in ?Figure 7. Example:

IN1 = input active

IN1 = input not active



2.3 AUTOMATION STATUS CHECK

The current status of the door automation system can be checked via the AUTO-PROG.

Go to menu 2.5.10. The display shows information regarding the status of the door automation as shown below in Table E.

TABLE E. Door Status
CLOSED
OPENING
OPEN
PAUSE
NIGHT PAUSE
CLOSING
EMERGENCY ACTIVATE
MANUAL
NIGHT
STOP
SECURITIES TEST
ERROR
SETUP in progress

2.4 WARNINGS

Warnings provide information regarding the status or current phase of the door operator and alerts that may prevent it from operating. It is possible to check any current warnings via the AUTO-PROG.

Go to menu 4 to view the list of current alerts.

If there is at least one alert, a bell icon appears on the upper left corner of the home screen.

TABLE F. Warnings

IABI	LE F. Warnings
41	Date and time missing
	- Reset date/time via the AUTO-PROG (battery req'd)
42	Clock battery discharged or missing
44	Emergency active (including command memory)
45	Timer active
46	Timer function in progress
48	Night mode operation
49	Manual mode operation
50	Partial mode operation
51	Obstacle detected during closure
52	Obstacle detected during opening
53	Number of maintenance cycles on E ² prom corrupted - Carry out a Reset. - If the alarm persists, replace the Logic board
58	Searching for strike on closing
60	Maintenance requested
61	AUTO-PROG fault - Check that the correct device is connected and check the connections. - If the alarm persists, update the firmware - If the alarm persists, replace the Logic board
63	Intrusion in progress
65	Set-up in progress
68	 TEST alarm (only if the "test error" parameter is enabled) Check the operation of the connected devices If the alarm persists, replace the device If the alarm persists, replace the Logic board In this condition, the door moves at a slower speed.
69	Door opened by a semi-automatic command
ור	Slave Intercom mode
72	Intercom alarm - Check the connections - Check the ID - If the alarm persists, replace the Logic board
13	Slave Error / Alarm
٦ <mark>Ч</mark>	Interlock alarm - Check the connections
	- Check the ID - If the alarm persists, replace the Logic board

2.5 ERRORS

Errors are malfunctions that prevent the automation system from working. They are indicated by a steady red LED on the Logic board.

After every 5 minutes in which a fault condition persists and for a maximum of 20 consecutive times, the AutoEntryControl will perform a Reset to attempt to restore normal operation so as not to require any action if the condition that caused the error was temporary. If the fault persists, remove the cause in order to restore normal operation.

The type of error can be identifi?ed via the AUTO-PROG. The error code appears on the home page. Go to menu 5; the display provides information regarding the current error.

When an error occurs:

1. Check all the electrical connections

2. Carry out a reset.

3. If the problem persists, carry out the operations described in the Table G below, one at a time, until the problem is resolved.

TABL	TABLE G. ERRORS				
Error		Action required			
01	Board failure	- Replace the Logic board			
50	Eprom failure	- Replace the Logic board			
03	Motor driver failure	- Replace the Logic board - Replace the motor			
04	Accessories power supply fault	 Check that the accessories power supply is not short circuited Check that maximum load of the accessories has not been exceeded Replace the Logic board Replace the I/O board 			
05	Microcontroller error	- Reload/update the Logic board firmware - Replace the Logic board			
רס	Motor failure	- Replace the motor - Replace the Logic board			
09	Board voltage anomaly	- Replace the Logic board - Replace the I/O board			
11	Closing safety TEST failed	 Check the connections of the safety device Check that the safety device is working Replace the Logic board 			
15	Opening safety TEST failed	 Check the connections of the safety device Check that the safety device is working Replace the Logic board 			
15	Setup inhibited	- Make sure that Night or Manual mode has not been set. - Make sure that an Emergency command has not been activated			
16	Encoder fault	- Replace the Logic board			
18	Firmware not compatible	- Update with the correct firmware			
19	High mechanical friction	 Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction Replace the Logic board Replace the gearmotor 			
55	Programming data corrupted	 Reprogram the board or upload the program files that were saved to the USB storage device. Replace the Logic board 			

24	Consecutive obstacles in closing	 Remove the obstacle in closing. Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction
26	Lock failure	 Check the wiring of the lock Check that the maximum load of the lock has not been exceeded Replace the lock Replace the Logic board
21	Motor rotation fault	- Check the polarity of the motor cable
31	Consecutive obstacles in opening	 Remove the obstacle in opening Make sure that the leaf has been mounted correctly and that it moves smoothly, remove any friction
39	Setup data missing or corrupted	- Perform Setup - Replace the Logic board

OTHER BOARD DATA

Go to menu 2.5.11 of the AUTO-PROG. The display provides information on the following parameters:

- V MAIN : input voltage to the Logic board (Volts)
- V ACC : output voltage for accessories (Volts)
- POS : position of the rotating shaft (degrees)
- I MOT : current drawn by motor (Amperes)

2.7 FIRMWARE VERSIONS

Go to menu 9 of the AUTO-PROG to view the fi?rmware versions of the bootloader, the Logic board and the AUTO-PROG.

2.8 LOG DATA

The AutoEntryControl records the last 512 system events. A battery must be installed on the Logic board in order to save the list of events in memory even if the system is switched off?.

3. NETWORKING MULTIPLE OPERATORS

DESCRIPTION

The AutoEntryControl is capable of communicating with other AutoEntryControl units via a serial data network connection.

This enables the following modes of operation to be used (AUTO-PROG menu 2.6.1):

- INTERMODE: a master door from which to set the operating mode for all the other doors that are connected to the network.

- INTERLOCK: two single doors, where the opening of one is subject to the closing of the other and vice versa.

- 2 LEAVES: access consisting of a pair of doors.

- 2 LEAVES + INTERLOCK: two interlocked

accesses, each consisting of a pair of doors.



Every network connected AutoEntryControl should be programmed for the same network mode.

CONNECTION

The units in the network are connected via 3 daisy-chained connected wires between the grey J8 connectors of the I/O boards (?Figure 8).

The sequence in which the units are wired is unimportant, but it is essential that a DAISY-CHAIN connection is used.

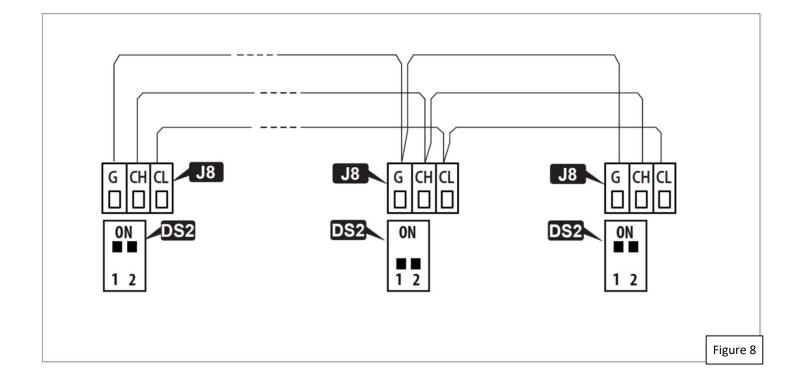
The 2 DIP switches on the I/O board must be set as follows:

- On the fi?rst and last units of the cascade connection: both ON.
- On intermediate units (if any): both OFF.

A unique ID (AUTO-PROG menu 2.6.2) must be assigned to each AutoEntryControl in the network as indicated below. Do not assign the same ID to more than one unit in the network.

REGISTRATION

After having wired up and assigned an address to each unit, registration (AUTO-PROG menu 2.6.3), must only be carried out on the AutoEntryControl that has been assigned ID1.



3.1 INTERMODE

?Figure 9 shows the ID to assign to the AutoEntryControl units in the network. The system consists of a Master unit and a maximum of 14 Slave units. The AutoEntryControl Master unit is the only one on which the operating mode should be set, which is then also applied immediately to all the Slave units.



With INTERMODE, it is not possible to change the operating mode of an individual unit.

The Master unit must be assigned ID1 and the Slave units with ID from 2 to 14.

3.2 INTERLOCK

?Figure 10 shows the ID to assign to the AutoEntryControl units in the network.

Either of the two units can be designated as the Master and the other as the Slave. In INTERLOCK mode, one door can open only if the other is closed. The available variations are shown below.

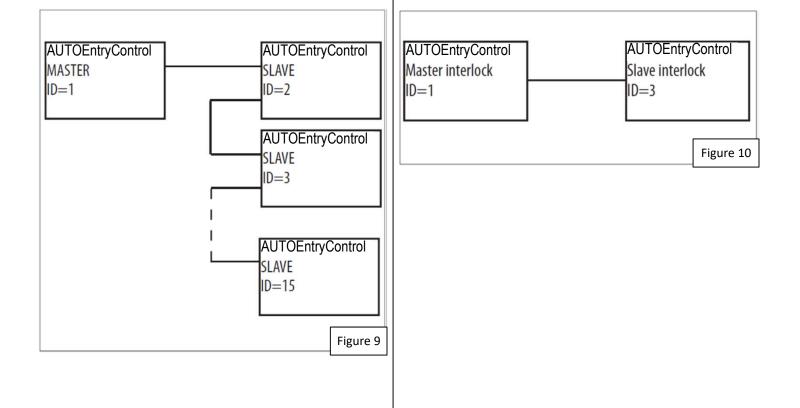
If the PARTIAL mode is associated with INTERLOCK, only the Master leaf opens.



Connect the devices and carry out the programming and Setup of the individual AutoEntryControl units before confi?guring the INTERLOCK using AUTO-PROG.

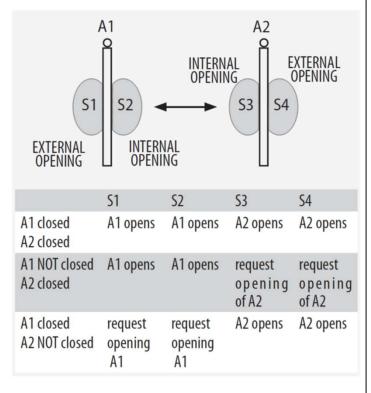
Select INTERLOCK.

on the Master unit to activate the K.



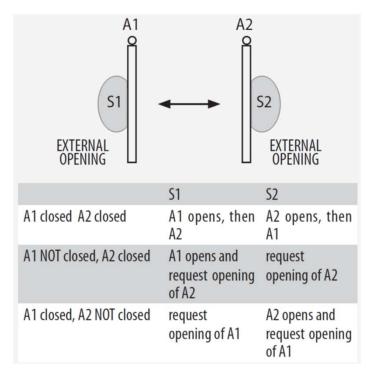
INTERLOCK WITH NO MEMORY

With 4 sensors: the second opening is not automatic. In order to open the door, the internal/external sensor must be triggered when the other door is closed. If the sensor is activated while the door is not yet closed, it has no e?ffect.



INTERLOCK WITH MEMORY

With 2 sensors or buttons: the second opening is automatic.



3.3 PAIR OF DOORS

?Figure 11 shows the ID to assign to the AutoEntryControl units in the network.

If the two doors overlap, the one that opens ?first is designated as the Master. If there is no overlap, either of the two units can be designated as the Master and the other as the Slave.

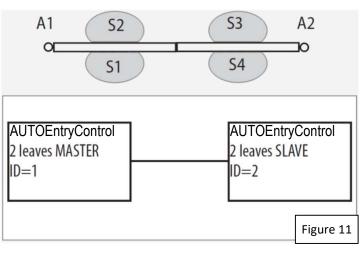
The movement of the 2 leaves is synchronized.



The internal / external door sensors and safety devices must be connected to their own unit; all other devices are connected only to the Master. Connect the devices and carry out the programming and Setup of the individual AutoEntryControl units before activating the 2 LEAF function.

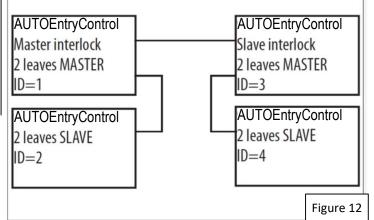
Only use the Master AutoEntryControl to change the operating mode.

The leaf opening / closing delay can be set in menu 2.5.6 of the AUTO-PROG.



3.4 INTERLOCKED PAIRS OF DOORS

?Figure 12 shows the ID to assign to the AutoEntryControl units in the network. This confi?guration integrates the 2 LEAVES function (on two pairs of doors) with the interlock function. Refer to the operating modes described above.



4. OPERATOR MAINTENANCE



Always shut off? the power supply before performing any maintenance operations. If the disconnect switch is not in view, apply a warning sign stating "WARNING - Maintenance in Progress". Restore the power supply only after ?finishing any maintenance work and restoring the area to normal.



Ĭ

Maintenance must be performed by a qualified installer or maintenance technician. Follow all safety recommendations and

instructions given in this manual.

Mark off? the work site and prohibit access/transit. Do not leave the work site unattended.

The work area must be kept tidy and cleared after maintenance has been completed.

Before starting work, wait for any hot components to cool down.

Do not make any modi?fications to the original components.

SDC shall bear no liability for damage or injury due to components that have been modifi?ed or otherwise tampered with.

The warranty shall be forfeited in the event of tampering with components. Only use SDC supplied spare parts.

4.1 INSERTING / REPLACING THE BATTERY

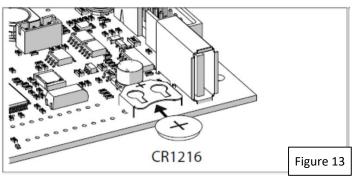


CARRY OUT THE FOLLOWING OPERATIONS WITH THE ELECTRICITY SUPPLY DISCONNECTED

1. Remove the cover.

2. Install or replace the CR1216 battery on the Logic board, as shown in ?Figure 13.

3. Reinstall the cover.



4.2 REPLACING THE FUSE



CARRY OUT THE FOLLOWING OPERATIONS WITH THE ELECTRICITY SUPPLY DISCONNECTED

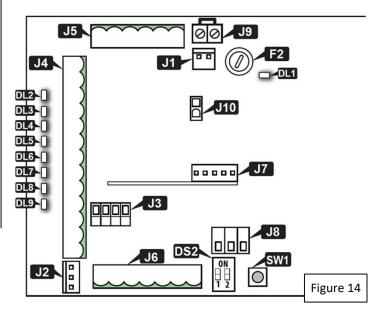
There is a power supply protection fuse on the I/O board. To replace it:

1. Contact the factory to obtain a replacement fuse or use a suitable replacement (Littelfuse P/N 02183.15HXP or similar).

2. Remove the cover

3. See Figure 14 below to locate fuse F2. Carefully replace the fuse.

4. Reinstall the cover.



5.3 ROUTINE MAINTENANCE

Table H lists the suggested operations which must be performed on a regular basis in order to keep the automation working reliably and safely; these are given purely as a guideline and should not be considered exhaustive. The installer/maintenance technician is ultimately responsible for drawing up the maintenance plan for the automation, supplementing this list or modifying the maintenance plan on the basis of the operational characteristics.

TABLE H. Scheduled Maintenance

TABLE H. Scheduled Maintenance	
Operations Frequency/months	
Structures	
Check the structures and the parts of the building to which the door and the automation is fixed: make sure there is no damage, cracking, breaks or subsidence.	12
Frame	
Check the frame: make sure that it is fixed correctly, that it is integral and that there is no deformation or damage. Tighten screws and bolts where necessary.	12
Check the leaf: that it is integral and that there is no deformation or damage.	12
Check the hinges: make sure that they are fixed correctly, that they are integral, correctly positioned in their seats and that there is no deformation or damage.	12
Lubricate hinges or locks, if necessary.	12
Generally clean of the area of movement of the door.	12
Check the presence and condition of pictograms that highlight the glass part of the door. If they are missing or damaged, replace them.	12
Operator	
Check that the cover/casing and all the movable guards are integral and that they are fastened correctly. Tighten screws and bolts where necessary.	12
Check the condition of the power cables, the sensor and accessory connection cables and the relative cable glands.	12
General cleaning.	12
Function set-up selector and keyboard	
Check that they are intact and operating correctly.	12
Sensors, protective devices and control devices	
Check that they are intact and operating correctly.	12
If applicable, check that the pictograms that identify the control devices for disabled persons are present and intact.	12
The door	
Check that the door operates properly in both directions with all the devices installed.	12
Check that the door moves smoothly and uniformly without making any unusual noises.	12
Check that the opening and closing speed is correct. For doors in "low energy" mode, make sure that the opening and closing times are within the limits permitted by the regulations.	6
For doors in "low energy", mode, make sure that it is possible to stop the movement of the door without excessive force (Max. 67N) at any point along its travel.	6
Check that the door operates correctly in every operating mode.	12
Check that the lock is working properly, if present.	6
Check that the safety system is working correctly (door reverses or stops when an obstacle is detected, that the door stops in the open position when there is an obstacle in the area of movement etc.)	6
Check the presence, integrity and legibility of the AUTOMATIC DOOR warning sign(s).	12