- Control unit for lights
- Self installation of the twin light

START-S0XL

Manual and awainings

230 Vac Input	-1-
230 Vac Input	-2-
Group of lights 3	-3-
Light common	-4-
Group of lights 2	-5-
Group of lights 1	-6-

230 Vac

CONTACT -16-
CONTACT 17-

LIGHT 3
230 Vac

LIGHT 2
230 Vac

LIGHT 1
230 Vac

+ Antenna	-7-
– Antenna / **Comm Services**	-8-
Out 12 Vac (J1-AC)	-9-
Out 12Vac (J1-AC) / +12Vdc (J1-DC)	-10-
- 12 Vdc (J1-DC) / **Comm Services**	-11-
Light 2	-12-
Light 1	-13-
Light 3 / Light Sensor	-14-
BUS-DATA SYSTEM	-15-

BUS-DATA
SYSTEM

N.O.   N.O.   N.O.

CE RoHS
COMPLIANT
2002/95/EC

Foreword

This manual provides all the specific information you need to familiarize yourself with and correctly operate your unit. Read it very carefully when you purchase the instrument and consult it whenever you have doubts regarding use and before performing any maintenance operations.

Safety precautions

Using the unit improperly and performing repairs or modifications personally will void the warranty. Nologo declines any responsibility for damages due to inappropriate use of the product and due to any use other than the use the product was designed for. Nologo declines any responsibility for consequential damages except civil liability for the products.

Environmental protection measures

Information regarding the environment for customers within the European Union. European Directive EC 2002/96 requires that units bearing this symbol on the unit and/or on the packaging be disposed of separately from undifferentiated urban wastes. The symbol indicates that the product must not be disposed of with the normal household wastes. The owner is responsible for disposing of this product and other electrical and electronic equipment through specific waste collection facilities indicated by the government or local public agencies. Correct disposal and recycling help prevent any potentially negative impact on the environment and human health. To receive more detailed information regarding disposal of your unit, we recommend that you contact the competent public agencies, the waste collection service or the shop where you purchased the product.

Introduction

START S0 XL is a new generation electronic circuit board with times count and digital deceleration. It has been built to meet many needs: for sliding gates, swinging and roller systems. Its reduced size makes it suitable for use it in all motors that are designed for internal electronics.

Small dictionary

START	START control
Vac	Vac (alternate current)
Vdc	Vdc (direct current)
NC	Normally closed
NO	Normally open
Contact	Isolated contact

Index

Technical caracteristics

Power supply	Vac	**230**
Operating temperature	^{0}C min/Max	**20°C÷+60°C** **EN 600068-2-1** **EN 600068-2-2**
Level Waterproof	IP	**45**
Box		**abs**
Dimensions	mm	**b67 x h110 x t32**

CE RoHS COMPLIANT 2002/95/EC

1   Installation of the control unit

230 Vac Group no.3
alternatively to a N.O. command,
you can connect a light sensor.

JUMPER J1

AC - 12 Vac **mors 9-10**

DC - 12 Vdc **mors 10-11**
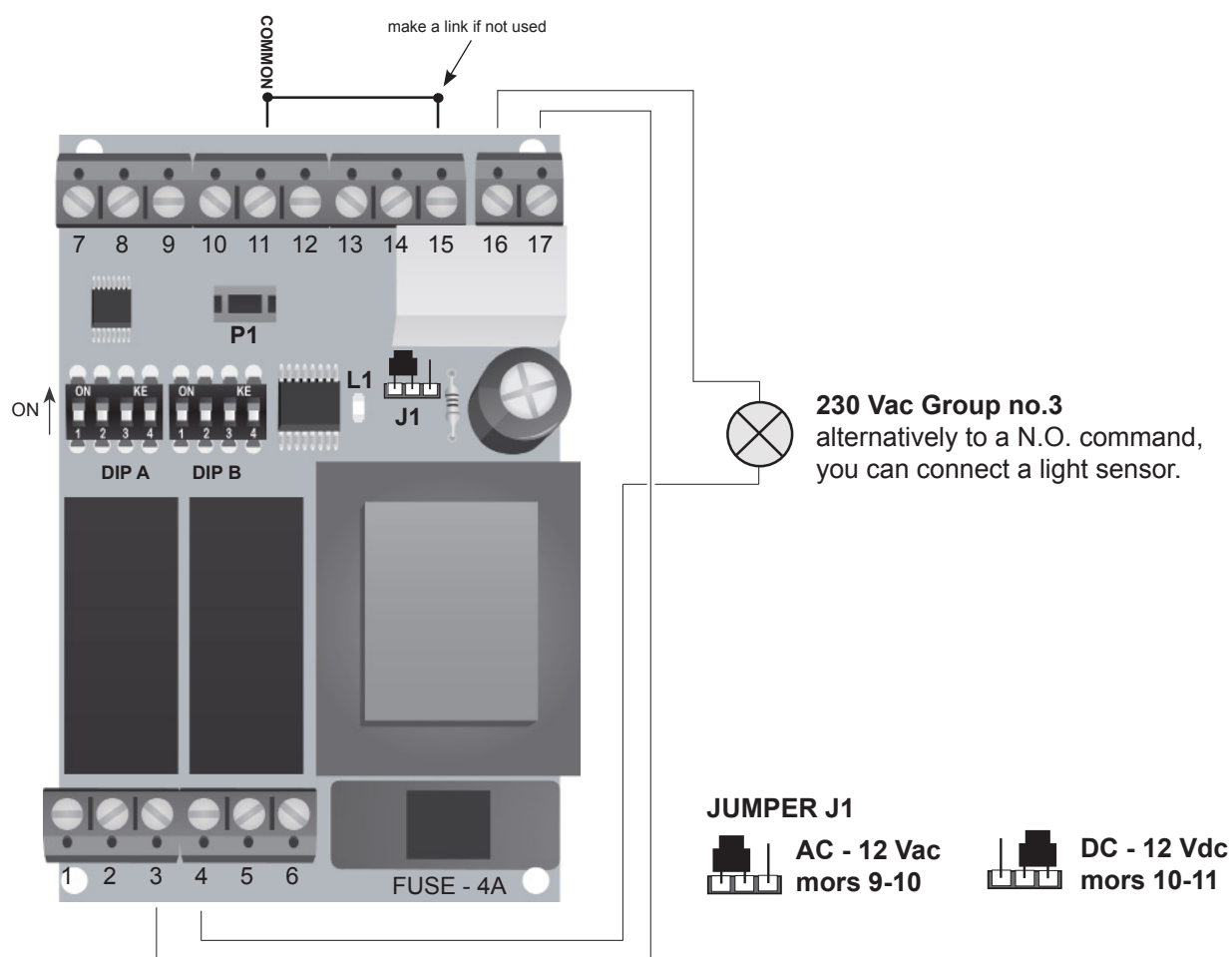
1	230 Vac power supply
2	
3	230 Vac Light no.3
4	Lights common
5	230 Vac Light no.2
6	230 Vac Light no. 1

16-17	Isolated contact for light group no.3

7	Positive pole of the antenna: **+**
8	Negative pole of the antenna: **-**
9	12 Vac Output (J1 - AC) Max 60 mA
10	12 Vac Output (J1- AC) / + 12 Vdc Output (J1 - DC) Max 60 mA
11	Common - 12Vdc (J1 - DC) / **common services and securities**
12	N.O. command Light no.2
13	N.O. command Light no.1
14	N.O. command Light no.3 / Light sensor
15	Bus Data System **(make a link if not used)**

2   Connection of the antenna

If you use only a small cable for the antenna,
for the frequency 433.92 Mhz, cut it at 17cm
and connect it to the terminal board no.7
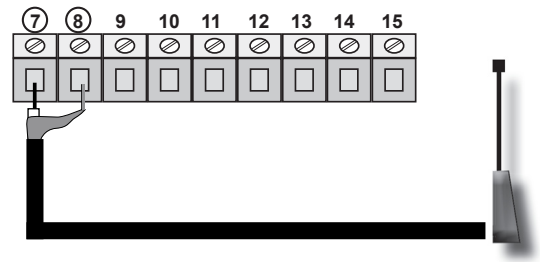
3   Remote control: cancellation of the memory

The control unit dispose of a **BUTTON P1** for different operation and to cancel all the codes. To do this operation make as follow:

The output shuold be deactivated (no contacts) lights have to be turned off. **This operation is possible only when the automation is closed.**

1	Press and keep pressed the **BUTTON P1**, **LED L1** will fix
2	After 6 seconds **LED 1** turn off and then you can release **BUTTON P1**. **LED L1** will flash 4 times then only once to manage fixed codes. (only one flash see next chapter). Memory has been cancelled.

3.1   Remote controls: code managing

The integrated receiver can manage fixed code and HCS rolling code remote controls.

The output should be deactivated. This operation is possible only when the automation is closed.

1	Press and release **BUTTON P1**, **LED L1** will lit for 6 seconds. Then:
2	In 6 seconds press and release **BUTTON P1** again, **LED L1** flash once and then it will lit for 6 seconds
3	In 6 seconds press and release **BUTTON P1** again, **LED L1** flash once and it will lit for 6 seconds
4	In 6 seconds press and release **BUTTON P1**, **LED L1** flashes twice and then constantly, now you can memorize *ROLLING CODE HCS remote controls.*

In case you want to memorize the compatible fixed code remote controls, follow passages 1-2-3 and wiat **LED1** turn off. The first learned transmitter establish the code's type taht the receiver has to manage, it means that the transmitter has to have the same code's type. Concerning the rolling codes it is possible to activate or disactivate the key'scontrol and the rolling counter. With this function you can choose the security level of the receiver.

LED L1 indicate the type of codes: **1 FLASH** "only fixed code remote controls" **2 FLASHES** "only rolling code remote controls: like SMART, SMILE"

3.2   Remote Control: memorization of the codes

The control unit dispose of **P1** button to memorize the codes. If you memorize a SMILE-C make sure that all buttons has a code otherwise it need to be generated. In case you want to memorize a SMILE-H (rolling code remote control) you don't need to generate any code. All outputs should be deactivated, all lights should be turn off. **LED L1 should flash constantly (see Activation of the codes in the following chapter) .**

	Memorize the first channel of the remote control for the **LIGHT GROUP no.1**

1	Press and release **BUTTON P1** in the control unit, **LED L1** will lit for 6 seconds.
2	Press in 6 seconds time the button of the remote control (we suggest the first channel). To confirm the operation **LED L1** will flash 5 times. The code has been memorized.

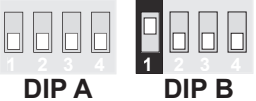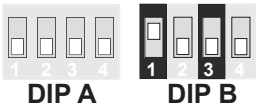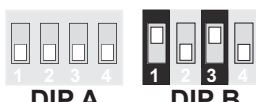|	Memorize the first channel of the remote control for the **LIGHT GROUP no.2**

1	Press and release **BUTTON P1** in the control unit, **LED L1** will lit for 6 seconds.
2	In 6 seconds press and release **BUTTON P1** again, **LED L1** will lit on for 6 seconds. Then
3	Press in 6 seconds time the button of the remote control (we suggest the second channel) . To confirm the operation **LED L1** will flash 5 times. The code has been memorized.

	Memorize the first channel of the remote control for the **LIGHT GROUP no.3**
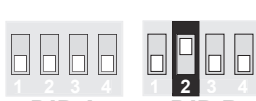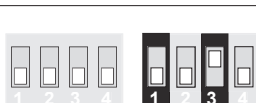
1	Press and release **BUTTON P1**, **LED L1** will lit on for 6 seconds. Then
2	In 6 seconds press and release **BUTTON P1** again, **LED L1** will lit on for 6 seconds. Then
3	In 6 seconds press and release **BUTTON P1** again, **LED L1** will lit on for 6 seconds. Then
4	Press in 6 seconds time the button of the remote control (we suggest the third channel) . To confirm the operation **LED L1** will flash 5 times. The code has been memorized.

If **LED L1** should flash slowly it means that the memory is full and it cannot accept any other command. In case of 20bit remote control the memory capacity is of 22 different codes if you need more capacity connect an extra receiver like RX2 -RX4 with capacity from 200 codes up to 3000 codes.

If you are not sure of that operation , start from point 1 again but before reset the memory of the receiver. Read the previous chapter "Cancellation of the memory"

4   Logic DIP A - DIPB

We can see the function of the control unit with DIP A and DIP B:

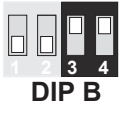|			
DIP A DIP B	**DIP A** **1-2-3-4**	**Bus Data System**	You can enter the ID of the control unit with DIPA, you can connect maximum 15 devices in the same BUS DATA SYSTEM.
DIP A DIP B	**DIP B** **1 ON**	**Twilight**	If you put in ON you can have the twilight function in the output LIGHT1.
DIP A DIP B	**DIP B** **1 ON** **3 OFF**	**Automatic activation**	The intput of LIGHT1 works forced activation, when the contact is closed.
DIP A DIP B	**DIP B** **1 ON** **3 ON**	**Automatic deactivation**	The input LIGHT1 works in forced deactivation, when the contact is open.
DIP A DIP B	**DIP B** **2 ON**	**Recharge time in the output**	The STABLE function will be deactivated in the timed outputs.
DIP A DIP B	**DIP B** **1 OFF** **3 ON**	**Activation of the timing LIGHT 1**	Timing on the output LIGHT 1
DIP A DIP B	**DIP B** **4 ON**	**Activation of the timing LIGHT 2**	Timing in the output LIGHT 2

5   Function in the output LIGHT 3

Here you can change the function of the LIGHT 3 from standard use up to STABLE function:

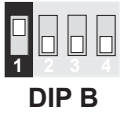|		
1		Activate the output **LIGHT 3**
2	**P1**	Press and release **BUTTON P1**
3		If the output **LIGHT 3** is standard, it will stable and vice versa

6   Time memorization

Outputs **LIGHT 1** and **LIGHT 2** can be automatically deactivated. The time is between 6 secons up to 18 hours.

1	Make sure the outputs are not activated	
2	Put in **ON** the **DIPB 3** for **LIGHT 1** while put in **ON** the **DIPB 4** for **LIGHT 2**	**DIP B**
3	Activate the output **LIGHT 1** or **LIGHT 2**	
4	Press and release **BUTTON P1** and while away the time in which the output should remain on.	
5	Press and release **BUTTON P1**	**P1**
6	If the procedure was successful, the output will turn off automatically after the time stored. It is important that the **DIPB 3 or 4** remain in the **ON position**	

7   Memorization of the twilight: LIGHT 1

The memorization of the twilight for LIGHT 1 is automatic. Follow the instructions for the installation:
obviously you have to connect a twilight in the terminal board no. 11-14

1	Make sure the outputs are not activated	
2	Put **DIPB 1** in **ON**	**DIP B**
3	Activate the output **LIGHT 1**	
4	Press button **P1** for the light value of output **LIGHT 1:** **DIPB 3 OFF** for activate or **DIPB 3 ON** for deactivation	**P1**
5	Twilight memorized	

! **WARNING! during the memorization you need to put light in the output LIGHT 1 where the sensor has to commute.**

8 Declaration of CE conformity

(according to EC Directive 2006/42, Attachment II, part 1, ses. A)

The undersigned Ernestino Bandera, Administrator

DECLARES THAT:

$C\,E$

Company:	**EB TECHNOLOGY SRL**
Adress:	Corso Sempione 172/5
	21052 Busto Arsizio VA Italy
Product's name:	**START-S0XL**
	Control unit for lights

THE PRODUCT COMPLIES	with what is outlined in the European Community directive:
2006/42/CE	EC DIRECTIVE 2006/42 ISSUED BY THE EUROPEAN PARLIAMENT AND COUNCIL on May 17, 2006 harmonizing the legislation of the member countries regarding machinery.

Reference: Attachment II, part 1, ses. A (EC Declaration of Conformity issued by the manufacturer).

IL PRODOTTO E' CONFORME	with what is outlined in the following European Community directives, as modified by EEC Directive 2006/45/CE issued by the EUROPEAN COUNCIL on October 14, 2004
2006/95/CE	EEC DIRECTIVE 2006/95 ISSUED BY THE EUROPEAN COUNCIL on December 12, 2006 harmonizing the legislation of the member countries regarding electric materials for use within certain voltage limits

Reference to harmonized standards: EN 60335-1

2004/108/CE	EEC DIRECTIVE 2004/108/CE ISSUED BY THE EUROPEAN COUNCIL on December 15, 2004, harmonizing the legislation of the member countries regarding electromagnetic compatibility.

Reference to harmonized standards: EN 61000-6-2   EN 61000-6-3

IL PRODOTTO E' CONFORME	with the essential requirements of article 3 of the following European Community Directive, for the use for which the product is designede
1999/5/CE	EC DIRECTIVE 1999/5 ISSUED BY THE EUROPEAN PARLIAMENT AND COUNCIL on March 9, 1999 regarding wireless units and telecommunications terminals and their reciprocal recognition

Reference to harmonized standards: ETSI EN 300 220-3   ETSI EN 301 489-1   ETSI EN 301 489-3

The directive 2006/42/CE remind that it is not allowed the function of the product until the machine, for which the product is included, is not indentify and declared conformed to the 2006/42/CE directive.

Dairago, 1 october 2011
Administrator
Ernestino Bandera

EB TECHNOLOGY S.r.l.
Corso Sempione 172/5,
21052 Busto Arsizio VA Italy
tel. +39 0331.683310
fax.+39 0331.684423

posta@ebtechnology.it
www.ebtechnology.it

NOLOGO S.r.l.
via Cesare Cantù 26,
20020 Villa Cortese MI Italy
tel. +39 0331.430457
fax.+39 0331.432496

info@nologo.info
www.nologo.info

$C\,E$ RoHS COMPLIANT 2002/95/EC