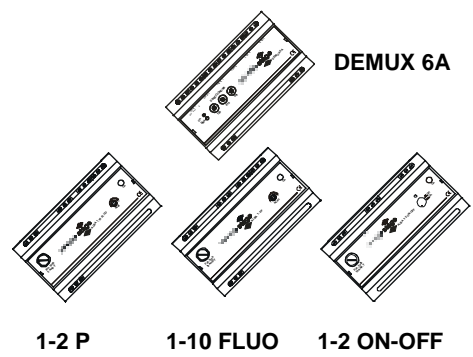


## ALBA series / DEMUX 6A



---

# Contents

---

1.- General description	3
2.- Characteristics	3-4
3.- Measurements	5
4.- Installation	5
5.- Connection	6-7
6.- Operation	8-11
7.- Maintenance	12
8.- Most common problems	13
9.- Statement of conformity	14

---

# 1. General description

---

The ALBA range dimmers have been created to cover the lighting needs in small places, where the ambient lights must be adapted to various scenes.

With this dimmer range we could dim lights with resistive and or inductive electrical charge together.

DEMUX 6A complement the range which we could control the lighting by DMX-512.

The ALBA range is ready to be installed in electrical boxes with DIN supports. It make easy the installation and the connection.

---

## 2. Characteristics

---

- Fast assembly on Din support
- Connections by terminals
- Electrical protection by fuse
- Control modes:
  - By 0-10v DC signal
  - Local potentiometer
  - External potentiometer
  - External push buttons

## 2.1 Technical information

	<b>ALBA 1-2 P</b>	<b>ALBA 1-10 FLUO</b>	<b>ALBA 1-2 ON-OFF</b>
Power supply	230v 50Hz single phase		
Max. Power	2.000w	1.000w	2.000w
Fuse protection 5x20	10 Amp. T	5 Amp. T	10 Amp. T
Wire section	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5 mm <sup>2</sup>
Power supply connector:	Terminals		
Signal connector:	Terminals		
Control modes			
0-10v signal DEMUX 6A	✓	✓	✓
External 0-10v DC signal		✓	
Local potentiometer	✓	✓	
External potentiometer	✓	✓	
Local push button			✓
External push button	✓		✓
Weight	0.4Kg	0.4Kg	0.4Kg

	<b>DEMUX 6A</b>
Power supply	220v 50Hz
Electrical protection:	Self-protected
wire section:	1.5mm
Power supply connector:	Terminals
Signal connector:	Terminals
Digital signal:	DMX-512
Output signal:	0-10v DC x 6
Weight	0.4Kg

---

## 3. Measurements

---

All range comply with the following measurements:

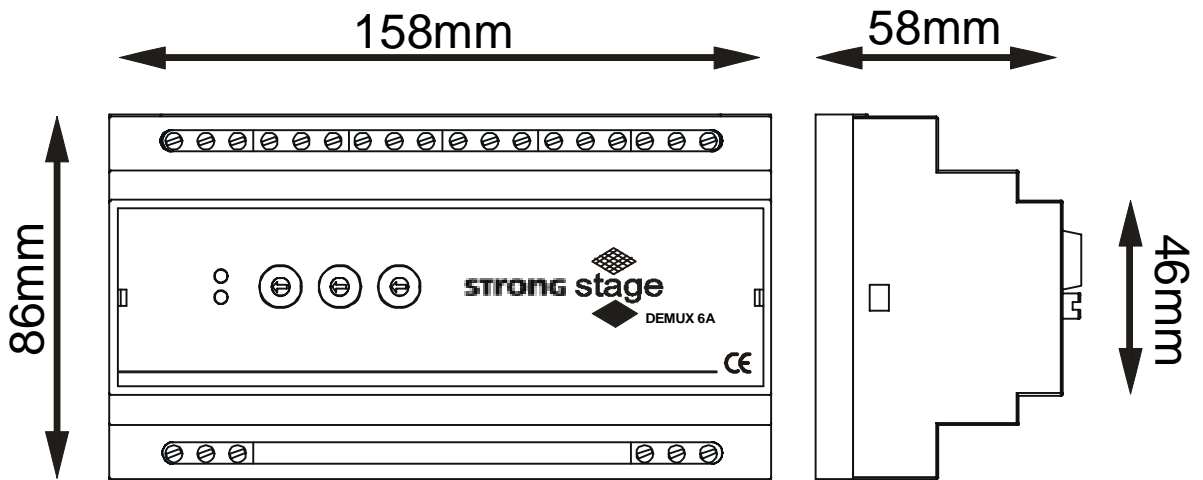


Fig.- 1

---

## 4. Installation

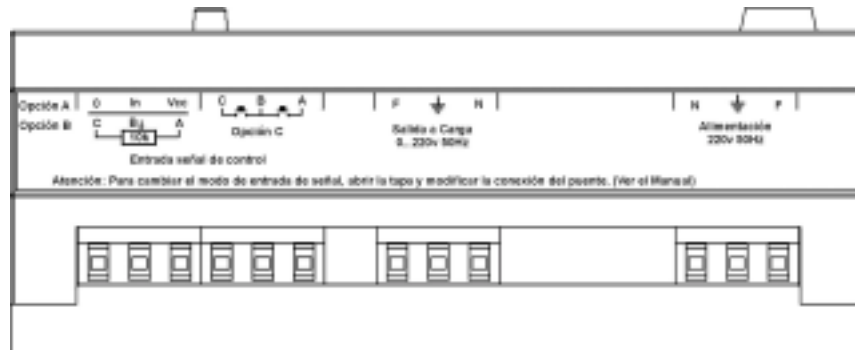
---

All ALBA range and the DEMUX6A are ready to be installed in a electrical boxes with DIN support. The distribution in the electrical box is leaved to the technical installer opinion.

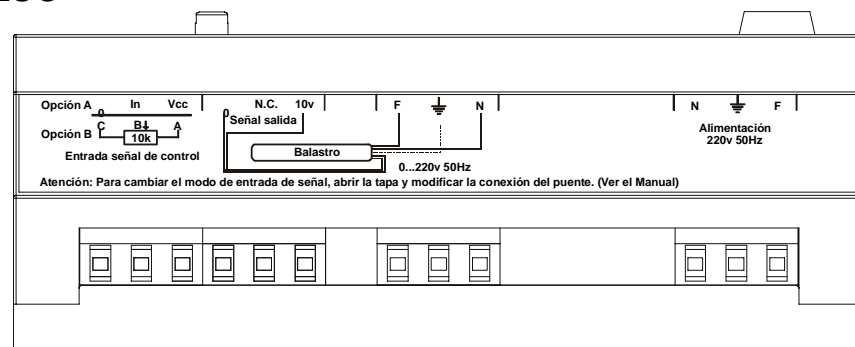
Is advisable be sure the ALBA isn't in high ambient temperatures or humidity places.

# 5.- Connections

## ALBA 1-2P



## ALBA 1-10 FLUO



## ALBA 1-2 ON-OFF



## DEMUX 6A

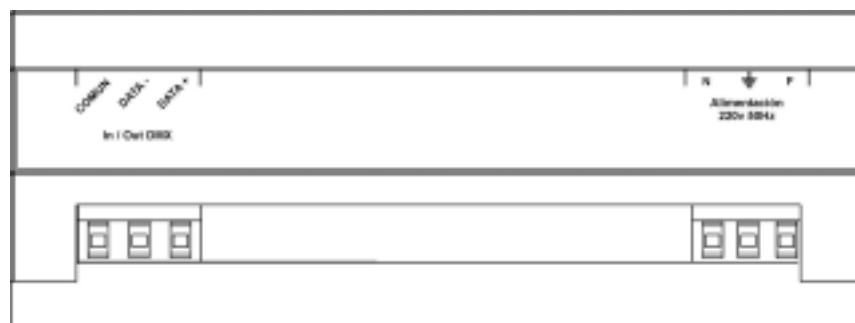


Fig. 2

---

## 5.1. Mains connection

The ALBAs have to be connected at 230v 50Hz, the connection will be made by terminals placed at the top side.

The DEMUX 6A mains connection will be made by terminals placed at the bottom side.

---

## 5.2. Signal connection

Like the mains connection, the signal connection will be made by terminals at top or/and bottom sides.

---

## 5.3. DEMUX 6A connection

The DMX signal connection have to be respected such as show the figure 2.

The outputs signals have to be connected at the top side as it's shown in the figure 3.

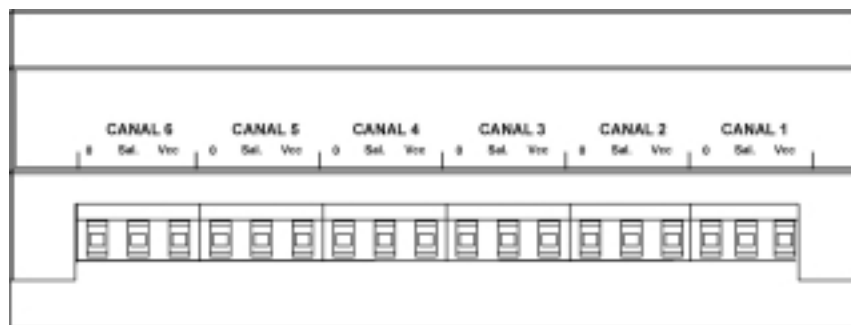


Fig.3

---

## 6.- Operation

---

### 6.1. Control modes

Each ALBA has different control modes.

For example, if an ALBA 1-2P is used with an external potentiometer, we must connect it as it's shown in the B option figure 4.

#### Warning!!

**The external potentiometer value should be 10k**

**In any case it's not possible to use more than one control mode on the same ALBA dimmer. It's impossible to use the local and external potentiometer at the same time.**

**To select the control mode you have to configure the jumpers located inside the alba's as it's explained in section 6.2**

#### ALBA 1-2P

---

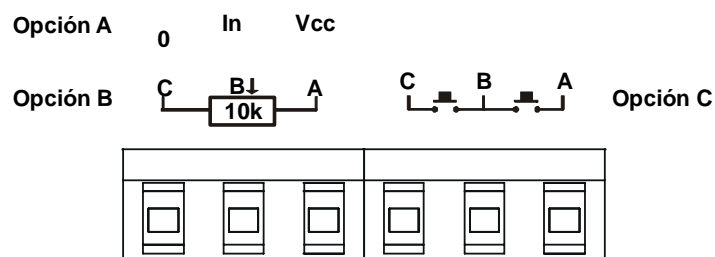


Fig.4

Using the external 0-10v DC mode it has to be connected through a DEMUX 6A output as it's shown in option A, the ground to the 0 terminal, the positive to Vcc terminal and the signal control to the IN terminal.

Another option for controlling ALBA 1-2P is by two pushbuttons between A-B and B-C. One for increase the light and the other one to decrease.

#### ALBA 1-10 FLUO

---

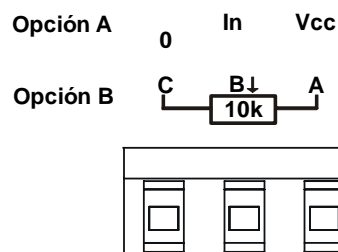


Fig.5

The ALBA 1-10 FLUO has the same options A and B as ALBA 1-2P has and furthermore, can be controlled directly by an analogic 0-10v DC signal between terminals "0" and "In".



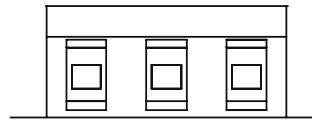
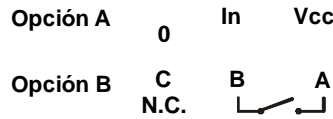


Fig.6

The A option is used as ALBA 1-2P case, which we can connect a DEMUX 6A output to control externally.

With the B option only use terminal A and B to connect a external **SWITCH**.

**Warning!!**

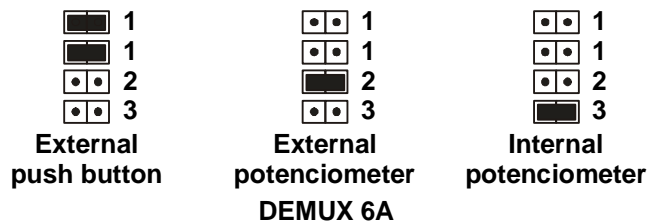
**To work with DEMUX 6A the Vcc output have to be connected at ALBA's terminal Vcc.**

**6.2. Interior configuration modes**

The ALBA 1-2P and ALBA 1-10 FLUO have to be configurate before their work. To do that you must take out the top cover, unlocking a flap on both sides.

On the electronic board there is some jumpers that they should be modifieds according the mode choise, see figure 7.

ALBA 1-2P



ALBA 1-10 FLUO

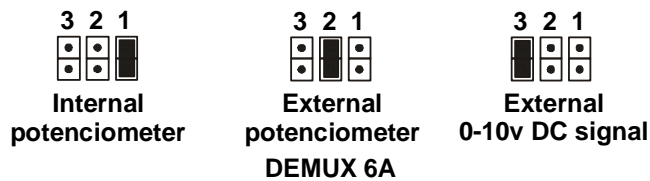


Fig.7

**Is not necessary any interior configuration to the ALBA 1-2 ON-OFF**

---

## 6.3.ALBA's to DEMUX 6A connection

At all cases the connection from ALBA's to DEMUX6A must be the same for each DEMUX 6A channel. It must be connected such as show in figure 8.

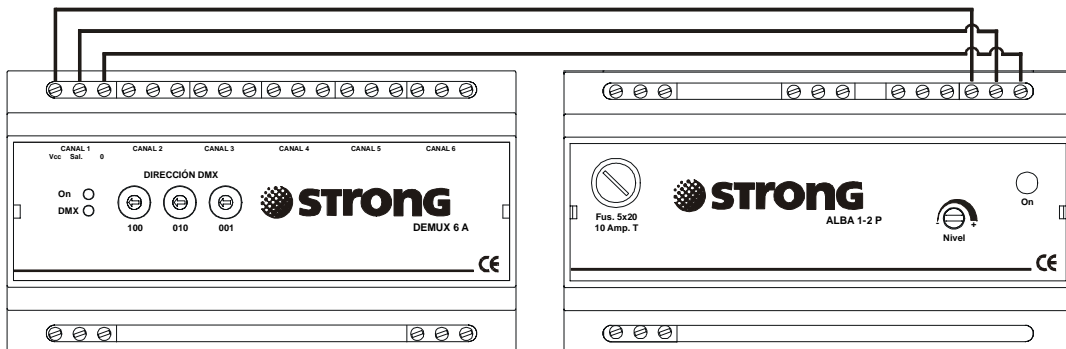


Fig.8

Previously the ALBA should be configured according to the control mode.

---

## 6.4.DEMUX 6A adress

We must assign a DMX direction. From this address the DEMUX 6A will assign the next five address to control 6 individuals channels.

To assign the address we'll do it from on cover circular switchs, selecting the units, tens and hundreds



Fig.9

---

## 6.5.Operation

Once the connection and the according configuration has been done, we could give mains supply to the ALBA. The neon on the cover will be lighted.

To dim the light will be enough changing the pontenciometer value or the signal control, depending the control mode selected.

---

## 7.- Maintenance

---

---

### 7.1. Regular cleaning

To prevent the build-up of dust and dirt which may impair the proper ALBA's operation, It should be cleaned regularly using a soft, slightly damp cloth (if the machine is very dirty, apply a little liquid detergent to the cloth).

**WARNING!: Do not use solvents or products containing alcohol. Make sure that no liquid gets inside the machine**

---

### 7.2. Changing a fuse

First turn off the mains supply and take out the fuse cover anticlockwise.

Remove the fuse, replace with a new one fuse and turn on the mains supply again.

**WARNING!: Use only the fuses indicated**

---

## 8.- The most common problems

---

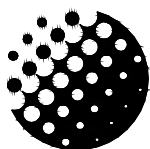
Problems	Usual causes	Solutions
<b>The ON pilot dosen't light up</b>	The supply dosen't reached the ALBA's or DEMUX 6A.	Check the mains supply connection.
	Fuse broke down	Change the fuse
<b>With external signal mode doesn't work</b>	Connection fault	Check the connection
	Wrong internal configuration	Check the internal configuration See 6.2. section
<b>DEMUX 6A doesn't light up the DMX indicator</b>	DMX signal fault	Check the DMX wire connections and its signal origin. See 5.3. section
<b>DEMUX 6A output doesn't work</b>	DMX address wrong	Check the DMX address. See 6.4. section
	Connection fault	Check all connections. See 6.3. section

If the problem persists in spite of these measures, please contact with the FRESNEL s.a. Technical Service.

Telf 34 93 274 54 28

Telf 34 93 360 02 30

Fax 34 93 274 47 47



**FRESNEL S.A.**

DC-01

**STATEMENT OF COMPLIANCE**

FECHA: 01/10/02

We hereby declare that the product:

Brand: **STRONG**  
Model: **ALBA 1-2 P**  
**ALBA 1-10 FLUO**  
**ALBA 1-2 ON-OFF**  
**DEMUX 6A**

Year of construction: **2006**

Complies with directive 73/23 in respect of the safety requirements for electrical material intended for use within specific voltage limits, and with directive 89/336 in respect of the electromagnetic compatibility of equipment, systems and installations.

Sole administrator

Ángel Torrecillas Redón

Barcelona, 1 de Octubre de 2004

**Fresnel S.A.**

Potosí 40  
08030 Barcelona

*Tel: 34 (93) 360 02 30*

*Fax: 34 (93) 274 47 47*

*E-mail: [strong@strong.es](mailto:strong@strong.es)*

*Internet: <http://www.fresnel.es>*