



# ALTO

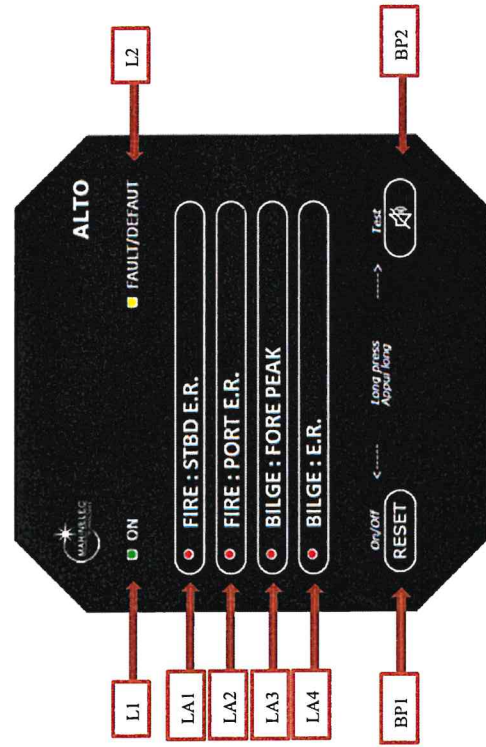
## ALARM DETECTION PANEL

# ALTO USER QUICK START MANUAL

## 1 PRESENTATION

It's essential to respect the recommendations contained in this manual. In particular, Marinelec Technologies wiring diagram must be strictly respected, by means of cables with 0.75mm<sup>2</sup> section.

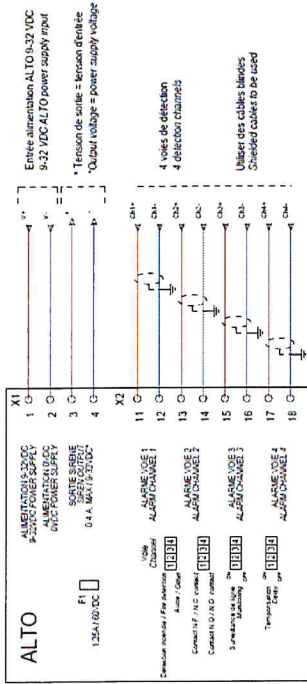
### 1.1 Visual indications



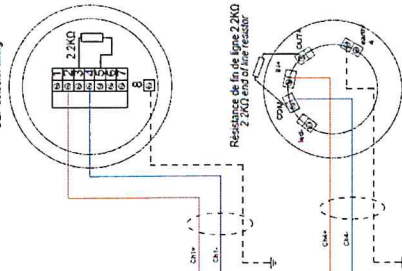
L1: Green indicator « POWER ON »  
L2: Yellow indicator «FAULT »

- : ON when the ALTO is powered on (when On/Off mode is disabled)
- : ON if, at least one input channel is faulty.
- This LED lit at the same time as LA1, LA2, LA3 or LA4.
  - => Unacknowledged fault
  - => Acknowledged fault
- : Fast blinking (4Hz)
- : Steady
- : Indicate an alarm or fault on the first channel (same definition for LA2, LA3 et LA4)
- : Fast blinking (4Hz)
- : Slow blinking (1Hz)
- : Steady
- => Unacknowledged alarm
- => Acknowledged alarm
- => Alarm reset
- => On/Off (Sensitive application)
- => Stop the audible signal
- => Indicator + buzzer test

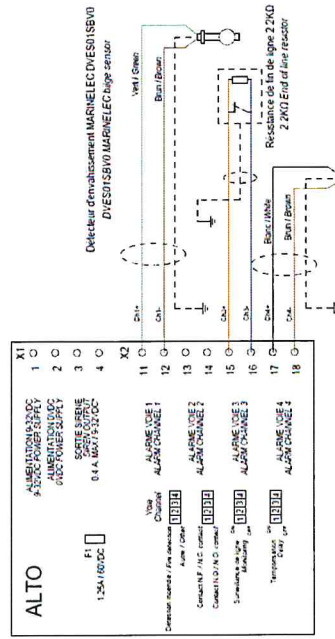
BP1: Button (RESET)  
BP2: Button (STOP SOUND)



Raccordement d'un détecteur DEF DEF detector wiring



Raccordement d'un détecteur APOLLO APOLLO detector wiring



Exemple configuration des voies Channels settings example		1	3	4
Voie / Channel		SA	NO	NO
Détection incendie Fire detection		NO	NO	NO
Autre / Other		NO	NO	NO
TYPE		NO	NO	NO
MONITORING		NO	NO	NO
DELAY 10s		NO	NO	NO

Temporisation fortement déconseillée en détection incendie Delay strongly not advisable in fire detection mode  
Si surveillance de ligne, If monitoring line ON, une résistance de fin de ligne de 2,2kΩ est obligatoire 2.2kΩ end of line resistor is mandatory

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TYPE		NO	NO	NO
MONITORING		NO	NO	NO
DELAY 10s		NO	NO	NO

Si surveillance de ligne, une résistance de fin de ligne de 2,2kΩ est obligatoire (intégrée dans le détecteur D/ES01 SBV1)



## 2 INTRODUCTION

This document is a quick start manual presenting the essential functions of the equipment. For additional information, it's necessary to consult ALTO MANUAL available on our website

### 2.1 Function/Capability

ALTO is designed to monitor 4 sensors (fire sensors or dry contact sensors) and to generate visual and audible alarms when one of these sensors toggles.

### 2.2 Technical characteristics

**Power supply:** 9-32VDC  
**Consumption:** 0.3A @24VDC / 0.6A @12VDC  
**Cable inputs:** 1.5mm<sup>2</sup> capacity  
**Protection:** Fuse 1.25A 60VDC  
**Dimensions & Weight:** 110x110x34mm / 0.4kg (cutout dimension: 92x92mm)

### 2.3 SIREN output

Voltage level of SIREN output is equal to the power supply (9-32VDC). When an alarm or a fault appears, the output is toggled.  
**Voltage:** 9-32VDC  
**Maximum consumption:** 0.340A  
**Protection:** Resettable fuse 340mA.

### 2.4 Audible indications

The sound level of the internal buzzer reaches 80dB (@ 1m).

## 3 INSTALLATION

### 3.1 Setting

- Each channel is configurable with micro switches S1 to S4
- Fire alarm or technical alarm => S4
  - NO or NC => S3
  - With or without line monitoring => S2
  - With (10s) or without delay (10s) => S1

**Note: Switches have to be set when ALTO product is powered off!**

### 3.2 Labelling

To identify the area in alarm or in fault, MARINELEC provides numeric document with which you can print the labels (Available on our site: <http://www.marinelec.com/>), one plate with 4 labels for the commissioning and one A5 sheet of paper to print the labels after the commissioning.

Insertion of the label is made by the bottom of the ALTO product. It's impossible to insert the label if the ALTO product is mounted on its support. When the label is inserted, the tongue must be placed in the slot provided for this purpose. If the tongue is not placed in slot, the product is not protected against the water infiltration.

## 4 OPERATION

### 4.1 Power up

When power up, these tests are launched:

- Buzzer test: The buzzer rings twice (three times if ALTO is set for sensitive application).
- LEDs test: Luminous animation is launched.

### 4.2 Standby

In standby, only the green indicator is illuminated.

### 4.3 Fire alarm / Technical alarm

When an alarm is detected, the corresponding visual indicator is blinking with 1Hz frequency. The buzzer rings and it is synchronized with the channel's indicator. The SIREN output is toggled.

### 4.4 Fault

When fault is detected, the corresponding visual indicator is blinking with 4Hz frequency. The buzzer rings with 4Hz frequency. SIREN output is activated.

### 4.5 Alarms and faults Acknowledgement

Acknowledgement is used to silence the internal buzzer and external audible device.

This action can be done by pressing . The internal buzzer and output (SIREN) are stopped. LEDs stop flashing (faulty channel flashes and 12 flashes).

### 4.6 Alarms and faults reset

Reset is used to remove visual indicators when the causes have disappeared. This action is possible if all alarms are acknowledged.

This action can be done by pressing .

Note: It's not necessary to reset when the channel is set in technical alarm mode. The reset is automatic when the alarm detection disappears.

### 4.7 Test

A long press (3s) on the « ACK » button will launch a test to check the luminous indicators on the panel and internal buzzer.

- o 2 Beep => ALTO is set for standard application
- o 3 Beep => ALTO is set for sensitive application

/\*\*\*\*\* NOTE: (only for sensitive application!) \*\*\*\*\*/

### 4.8 On/Off function

To access this function, it's necessary to be in sensitive application mode. To enter in this mode, it's necessary to press "RESET" button 5 times within 10s. It's the same action to quit this mode and return in standard mode (default: ALTO product is set for standard mode). Mode type is saved in ALTO's memory.

With a long press (3s) on the « RESET » button, the « On/Off function » is enabled/disabled. In this mode, all indicators are not illuminated and all ALTO functionalities are disabled (fire alarms/ technical alarms). It's possible to exit this mode with a long press (3s) on "RESET" button.

Note: If ALTO product is powered off when in « On/Off mode », the product will be in « On/Off mode » at the next power up.

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