

Light signboard

FAE Aluminum / AC voltage / tailor made

Faz/engineering®
Innovative and industrial signage and applications

by **Fazim**/Group



Reference :

FAEALU + Voltage + CA + Color(s)

Example : FAEALU230CAR

Specify sizes and options, ...

Provide détail design of the silkscreen.

Generalities

The LED light signboard or light-box «FAE» in Aluminum, are used to signal one or more events, warn a danger, gives the information a precaution . They have a text or an picture, backlit, fixe or flashing. It is possible to add a choice of several audio signals through a built-in high power speaker.

Description

- Body : in aluminum brushed appearance, Sizes : determining (in millimeter), with or without fixing brackets. polycarbonate pane (UL94-V0). Silkscreen tailor made. IP44, possibility IP55.
- Terminals : Passage of the wire cable gland, terminal connections inside on PCB. Additional connectors to tensions and options added.
- Front face : 6 high brightness LED for about a 50mmx25mm text area lighted. Colors choice : red (R), green (V), amber (A), white (BC), blue (BE) or multicolored (RGB). vinyl silkscreen on Plexiglass pane. Please consulting us for several silkscreens possibilities.

Technical specifications

- Supply voltage (+/-20%), 50/60Hz, and consumption for a lenght of 6 LED, in fixed light:

Voltages Colors	12Vac	24Vac	48Vac	127Vac	230Vac	400Vac
Buzzer / siren	280 mW	240 mW	-	-	-	-
R, V, A, Be, Bc	700 mW	1.4 W	-	-	-	-
RVB	2.2 W max	-	-	-	-	-

- Conformities : Norms EN55015, EN61547, EN61000-6-2, EN61000-6-4, ROHS, Reach, CE.
- Sound power : 85 to 90dB at 1 meter.
- Lifetime (MTBF*) : 100 000 hours.
- Operating temperature : -30°C à +70°C. (22°F to 158°F).
- IP protection standard : IP 44 possibility IP55 (optional).

(* : mean time between failure)

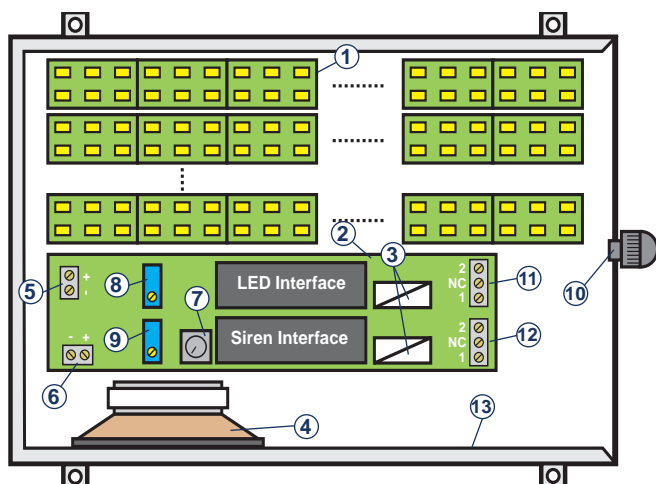
Avantages

- Insensitivity to vibrations, mechanical shocks.
- Resistance to moisture and water splashes.
- Electrical shocks resist : 5KV during 50µs.
- Immunity against magnetic fields.
- Assembly and disassembly easy, fast and secure .
- Exceptionally long life and unparalleled.
- Low power consumption and heat dissipation.
- Custom writing, custom silk-screen printing ability.



Electrical connections

• Internal view :

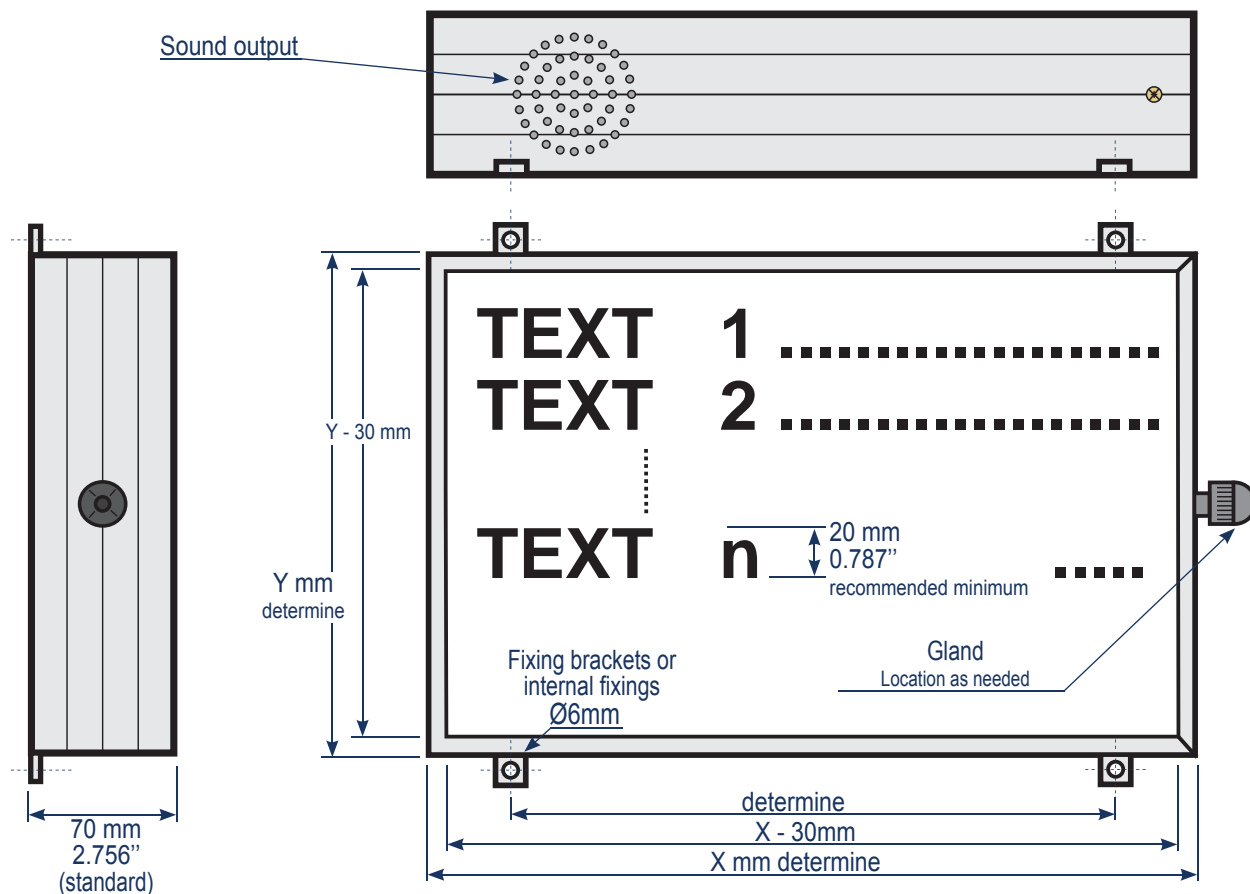


• Description :

- 1 : LED PCB, Variable amount of LED as text and / or image light.
- 2 : Supply voltage PCB, LED interface (optional) and siren interface (optional).
- 3 : Fuse protection interfaces.
- 4 : Speaker.
- 5 : Output terminal connected to the LED circuits.
- 6 : Output terminal connected to the speaker.
- 7 : Choice, change sounds (optional).
- 8 : Flashing speed setting, or light intensity (optional).
- 9 : Sound setting of the speaker (optional).
- 10 : Gland for the arrival of the power cable box.
- 11 : Input terminal of the power source and / or LED interface:
 - 1 : (Phase 1) or (Phase 2 / Neutral)
 - NC : Not connected
 - 2 : (Phase 2 / Neutral) or (Phase 1)
- 12 : Output terminal siren interface :
 - 1 : (Phase 1) or (Phase 2 / Neutral)
 - NC : Not connected
 - 2 : (Phase 2 / Neutral) or (Phase 1)
- 13 : Inner slide.

Mechanical specifications

- Fixing : Wall mounting, spacing to determine, 4 drillings Ø6mm, with or without fixing brackets.



Options et warranty

- Options : On request, other voltages, other voltage frequencies, other sizes, other shapes, siren, flashing LED, Plastic enclosure (see also FAEABS), IP55, wiring output, gland location, test lamp terminal (EL), push button test lamp, supply voltage filter, voltage threshold, LED two-colors, colors mixing RGB, other silkscreens, ...
- Warranty : 24 month manufacturer. No terminal or other metallic thing must be welded or lose the guarantee.
- Recommendation : Cable section, more or equal to 0.6mm² (AWG 20) up to 24Vac, and more or equal to 1mm² (AWG 17) beyond 24Vac. Cable ends must be finished with any crimp terminal.