

Heliport Controller V3



Compliance to standards

ICAO:

Annex 14, Volume II - Heliports

EMC emission:

EN55032 (CISPR32) Class B

EN61000-3-2 Class A

EN61000-3-3

EAC TP TC 020

EMC immunity:

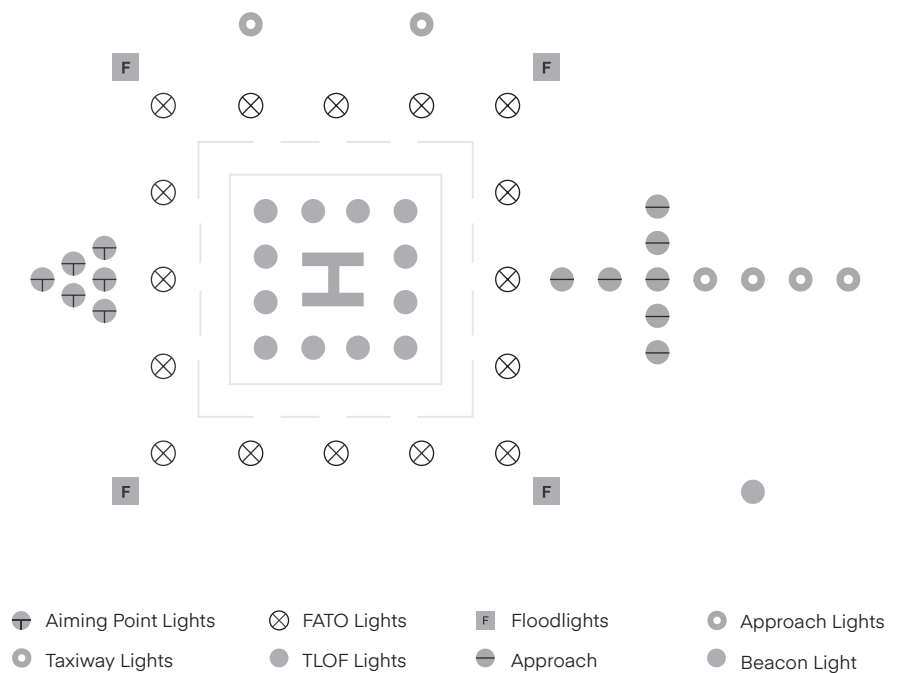
EN61000-4-2,3,4,5,6,8,11

EN55024, light industry level, criteria A

EAC TP TC 020

Application

Heliport lights power supply



Features

The controller has 8 different circuits ON/OFF factory configurable:

- 48V DC - max 500W, dimmable
- 1,4A constant current - max 500W, dimmable
- 230V AC - max 2000W - not dimmable

The system can be controlled in four different variants, as follow:

- Front-panel buttons
- Remote console through RS485 protocol communication
- GSM communication
- ARCAL remote control

Settings:

- Brightens level control (dimming) - 10%, 30% and 100%
- Stand by
- Total OFF
- Circuits ON/OFF

LCD Display showing:

- Voltage
- Total power - Watt
- Brightness level
- System Status
- Individual circuits ON or OFF
- Errors occurred
- GSM network
- Available control rights

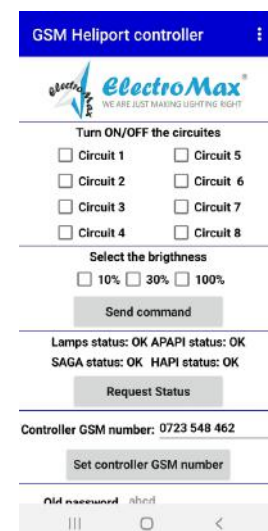


Monitoring errors:

- Lights error - if after two consecutive power readings the total power is different with more than 5W then there is a possible error of the lights. A message is displayed on the LCD and BEEP.
- Circuit error, if after two consecutive power readings the total power is different with more than 20W then there is a possible error of the circuit. A message is displayed on the LCD and BEEP.
- 3 independent contact readings for devices like: APAPI, SAGA, HAPI - dry contact monitoring errors.

GSM control and monitoring:

- Using an Android smartphone application it is possible to control all the functions of the system.
- A maintenance mobile number can be set, used by system to send a message if any error that occurs.
- The system status can be required through GSM application.



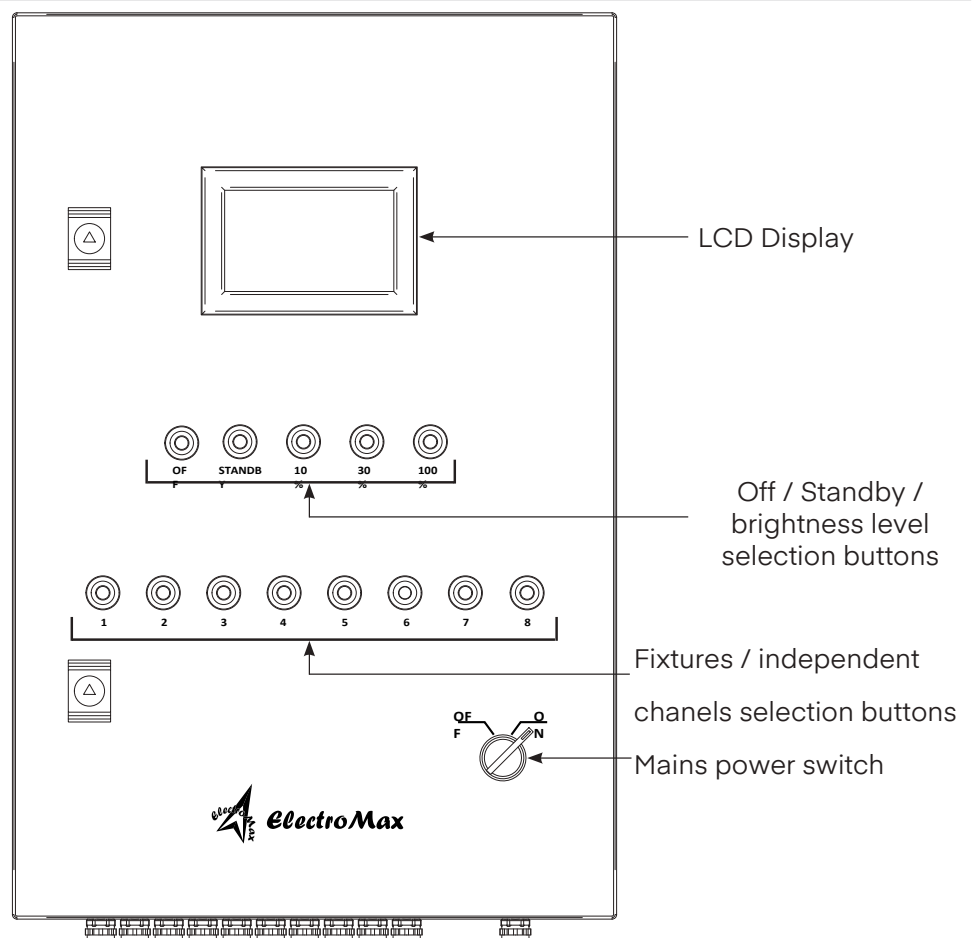
Product Code	<p>AL - 078 - AX</p> <p>Series Indicator (Airfield Lighting) AL</p> <p>Product Indicator 078</p> <p>Description of product type (accessory) AX</p>
Description	<p>Housing - powder-coated metal (gray)</p> <p>Cable gland - nickel plated brass</p> <p>When the lighting system includes a heliport beacon, the above intensities will automatically be changed for the beacon. So when the system will run at 10% power, the beacon will run at 3%, at 30% power, the beacon will run at 10% and 100% power is for both the beacon and the other lights(ref. ICAO 5.3.2.5).</p> <p>Light fixtures with 110-230V 50-60Hz power supply are turned OFF when the controller is in standby mode, otherwise they are ON, not being affected by the brightness levels.</p>
Environment	<p>Temperature range: - 20° to +55°</p> <p>Degree of protection: IP 65</p>
Mounting	<p>The controller must be installed in vertical position.</p> <p>Gripping is made through four 8mm holes on any flat surface.</p>

Electrical Characteristics

Power supply	110-240V, 50/60Hz
Output voltage/current	230 V AC 48V DC 1,4 A constant current
Max output power per channel	2000W (230V AC output voltage) 500W (48V DC output voltage) 500W (1,4A output current)
Electrical protection	Class I
Protections	Short circuit Over load Over voltage EMI filter SPD protection

CAUTION: Ground must be connected to avoid electrical injury and to ensure a proper functionality for surge and EMI protection!

Front Panel Descriptions



Accessory

To order accessories please call our customer support.
For contact details please refer to our website - www.signalight.com



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