ICARO is Sirena's range of high-end Aircraft Warning Lights engineered to last and perform

icaro@sirena.it

www.icaroawl.com
Aircraft Warning Lights

Our **configurator application**

will guide you to select the best AWL solution for your obstacle marking needs.

[www.icaroawl.com/webconfigurator]
# Aircraft Warning Lights

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Sirena designs, engineers and manufactures signaling devices since 1974. From Industrial Signaling Devices to Evacuation Systems, through Aircraft Warning Lights and Automation Devices, our expertise allows to deliver Customers with the highest quality signaling devices available on today’s market.

With 40 years of intense know-how and a presence in over 60 countries worldwide, Sirena is the best choice when it comes to satisfying your signaling needs.

ICARO is Sirena’s Aircraft Warning Lights range. Engineered entirely on LED base, ICARO’s Low, Medium and High intensity devices are one of the best products available today. High performance, easy installation and virtually zero maintenance, allow Customers and Installers to add considerable value to their projects. All devices are ICAO and FAA certified as well as CE marked.

Our expert Team will guide you to the right choice and will help you to determine the best and most cost efficient solutions for your projects.

With a complete range of devices (Low Intensity Type A and B, Medium Intensity Type A, B and C and High Intensity Type A and B), ICARO is the complete solution you are looking for.

Sirena is ISO 9001, 14001 and 18001 certified. www.icaroawl.com
**HIGH INTENSITY**

High Intensity Aircraft Warning Lights compliant to ICAO Type A, B and FAA L-856, L-857 regulations.

100% LED based, these devices offer a white light with a maximum intensity of 200,000 Cd satisfying the most demanding applications.

Typically installed on structures over 150 meters, high intensity devices are used for day and twilight marking.

---

**MEDIUM INTENSITY**

Medium Intensity Aircraft Warning Lights compliant to ICAO Type A, B, C and FAA L-864, L-865, L-866 regulations.

100% LED based, these devices offer a white/red light with a maximum intensity of 20,000 Cd satisfying the most demanding applications.

Typically installed on structures over 45 meters, medium intensity devices are used for day, twilight and night marking.

---

**LOW INTENSITY**

Low Intensity Aircraft Warning Lights compliant to ICAO Type A, B and FAA L-810 regulations.

100% LED based, these devices offer a red light with a minimum intensity of 32 Cd satisfying the most common applications.

Typically installed on structures below 45 meters and as intermediate devices on taller structures, low intensity devices are used for night marking only.
LOW INTENSITY
AIRCRAFT WARNING LIGHT

Low intensity aircraft warning light engineered according to ICAO Low Intensity Type A/B and FAA L-810 regulations.

With a lightweight heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a red steady light, its optical reflector guarantees a 360° horizontal beam radiation and a vertical beam between +6° and +10°.

Also available with a 70 Cd light intensity output, on-board crepuscular sensor and flashing light option.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to incandescent bulbs).

KEY CHARACTERISTICS

LED technology
Product life >10 years
Low consumption
Stabilized light output
Crepuscular sensor for automatic activation (part no 51045)
Beacon-fault report (clean electrical contact) (part no 51045/51046)

CERTIFICATIONS

ICAO
FAA Advisor Circular AC150/5345-43F

TYPICAL APPLICATIONS

CRANES
BUILDINGS
PYLONS
WATER TANKS
INFRASTRUCTURES
WIND TURBINES
CHIMNEYS
AIRPORTS

INSTALLATION

Pole mounting | Direct (3/4” NPT-F)
Side mounting | To side walls, side poles or side structures using the accessory “Side bracket”

DRAWINGS, DIMENSIONS AND WEIGHTS

AWL 810/AB | PART NO
AWL 810/AB 12/30V DC 51010
AWL 810/AB 70CD 12/30V DC 51045
AWL 810/AB 70CD 12/30V DC 51046
PSU 110/240V ACDC 51011
SIDE BRACKET 51013
Low intensity aircraft warning light engineered according to ICAO Low Intensity Type A/B and FAA L-810 regulations.

With a lightweight heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a red steady light, its optical reflector guarantees a 360° horizontal beam radiation and a vertical beam between +6° and +10°.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to incandescent bulbs).

The device is equipped with two separate LED circuits and, thanks to the current sensor installed on board, it automatically switches to the secondary circuit when main fails, with the possibility of sending an alarm signal.

**KEY CHARACTERISTICS**

- **LED technology**
- **Product life**: >10 years
- **Low consumption**
- **Stabilized light output**
- **Twin operations with the same device** (back-up circuit included)
- **Crepuscular sensor for automatic activation** (part no 51014)
- **Beacon-fault report** (clean electrical contact)

**INSTALLATION**

- **Pole mounting**: Direct (3/4” NPT-F)
- **Side mounting**: To side walls, side poles or side structures using the accessory “Side bracket”

**TYPICAL APPLICATIONS**

- **CRANES**
- **PYLONS**
- **INFRA-STRUCTURES**
- **WIND TURBINES**
- **BUILDINGS**
- **WATER TANKS**
- **CHIMNEYS**
- **AIRPORTS**

**CERTIFICATIONS**

- FAA Advisor Circular AC150/5345-43F

**DRAWINGS, DIMENSIONS AND WEIGHTS**
**MEDIUM INTENSITY AIRCRAFT WARNING LIGHT**

Medium intensity aircraft warning light engineered according to ICAO Medium Intensity Type B/C and FAA L-864 regulations.

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a steady/flashing red light, its optical lenses guarantee a 360° horizontal beam radiation and a vertical beam of +3°. Can be configured to Type B (flashing) or Type C (steady).

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

**KEY CHARACTERISTICS**

- LED technology
- Product life >10 years
- Low consumption
- Stabilized light output
- Beacon-fault report (clean electrical contact)

**INSTALLATION**

- Flat mounting | To flat surfaces using the accessory “Flat mounter”
- Side mounting | To side walls, side poles or side structures using the accessory “Side bracket”

**DRAWINGS, DIMENSIONS AND WEIGHTS**

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<td>SIDE BRACKET</td>
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</table>
**AWL 864/BC TWIN**

**TWIN MEDIUM INTENSITY AIRCRAFT WARNING LIGHT**

Medium intensity aircraft warning light engineered according to ICAO Medium Intensity Type B/C and FAA L-864 regulations.

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a steady/flashing red light, its optical lenses guarantee a 360° horizontal beam radiation and a vertical beam of +3°. Can be configured to Type B (flashing) or Type C (steady).

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with two separate LED circuits and, thanks to the current sensor installed on board, it automatically switches to the secondary circuit when main fails, with the possibility of sending an alarm signal.

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

**KEY CHARACTERISTICS**

- **LED technology**
- **Product life >10 years**
- **Low consumption**
- **Stabilized light output**

**INSTALLATION**

- **Flat mounting** To flat surfaces using the accessory “Flat mounter”
- **Side mounting** To side walls, side poles or side structures using the accessory “Side bracket”

**TYPICAL APPLICATIONS**

- CRANES
- PYLONS
- INFRA-STRUCTURES
- WIND TURBINES
- BUILDINGS
- WATER TANKS
- CHIMNEYS
- AIRPORTS

**AWL 864/BC TWIN | PART NO.**

- AWL 864/8 TWIN: 20/55V DC 51018
- AWL 864/8 TWIN: 20/55V DC 51057
- AWL 864/8 TWIN: 240V AC 51019
- AWL 864/8 TWIN: 240V AC 51058
- FLAT MOUNTER: 51031
- SIDE BRACKET: 51030
Medium intensity aircraft warning light engineered according to ICAO Medium Intensity Type A and FAA L-865/L-866 regulations.

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a flashing white light, its optical lenses guarantee a 360° horizontal beam radiation and a vertical beam of +3°.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

**KEY CHARACTERISTICS**

- LED technology
- Product life >10 years
- Low consumption
- Stabilized light output
- Beacon-fault report (clean electrical contact)

**INSTALLATION**

- Flat mounting: To flat surfaces using the accessory “Flat mounter”
- Side mounting: To side walls, side poles or side structures using the accessory “Side bracket”

**TYPICAL APPLICATIONS**

- CRANES
- PYLONS
- INFRASTRUCTURES
- WIND TURBINES
- BUILDINGS
- WATER TANKS
- CHIMNEYS
- AIRPORTS

**CERTIFICATIONS**


FAA Advisor Circular AC150/5345-43F

**DRAWINGS, DIMENSIONS AND WEIGHTS**

- AWL 865.866/A PART NO
  - AWL 865.866/A 20/55V DC 51020
  - AWL 865.866/A 240V AC 51021
  - FLAT MOUNTER 51031
  - SIDE BRACKET 51030
Dual Medium Intensity Aircraft Warning Light

Medium intensity aircraft warning light engineered according to ICAO Medium Intensity Type A + Type B/C and FAA L-865/L-866 + L-864 regulations.

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with both a steady/flashing red light (Type BC) and a flashing white light (Type A), its optical lenses guarantee a 360° horizontal beam radiation and a vertical beam of +3°.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

Key Characteristics

- LED technology
- Product life >10 years
- Low consumption
- Stabilized light output
- Dual functionality (Type A + Type B/C)
- Beacon-fault report (clean electrical contact)

Installation

Flat mounting | To flat surfaces using the accessory "Flat mounter"
Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"

Typical Applications

- Cranes
- Pylons
- Infrastructures
- Wind Turbines
- Buildings
- Water Tanks
- Chimneys
- Airports

Drawings, Dimensions and Weights

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HIGH INTENSITY AIRCRAFT WARNING LIGHT

High intensity aircraft warning light engineered according to ICAO High Intensity Type A/B and FAA L-856/L-857 regulations.

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting quality obstruction beacon.

Provided with a flashing white light, its optical lenses guarantee a 120°/360° horizontal beam radiation and a vertical beam of +3°/7°. Can be configured to Type A (100,000 Cd twilight use) or Type B (200,000 Cd day use).

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

KEY CHARACTERISTICS

- LED technology
- Product life >10 years
- Low consumption
- Stabilized light output
- 120° or 360° versions available
- Beacon-fault report (clean electrical contact)

INSTALLATION

- Flat mounting: To flat surfaces using the accessory “Flat mounter”
- Side mounting: To side walls, side poles or side structures using the accessory “Side bracket”

TYPICAL APPLICATIONS

- CRANES
- PYLONS
- INFRA-STRUCTURES
- WIND TURBINES
- BUILDINGS
- WATER TANKS
- CHIMNEYS
- AIRPORTS
DUAL HIGH + MID INTENSITY

**AIRCRAFT WARNING LIGHT**

**DUAL** high + medium intensity aircraft warning light engineered according to ICAO High Intensity Type A/B and FAA L-856/L-857 regulations (high) and ICAO Medium Intensity Type B/C and FAA L-884 regulations (medium).

With an induced air heatsink base, this device is the ideal solution for an efficient and long lasting obstruction beacon.

**HIGH** | Provided with a flashing white light, its optical lenses guarantee a 120°/360° horizontal beam radiation and a vertical beam of +3°/7°. Can be configured to Type A (100.000 Cd twilight use) or Type B (200.000 Cd day use).

**MEDIUM** | Provided with a steady/flashing red light, its optical lenses guarantee a 120°/360° horizontal beam radiation and a vertical beam of +3°. Can be configured to Type B (flashing) or Type C (steady).

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to xenon discharge bulbs).

The device is equipped with three spirit balls for perfect installation and can send an alarm signal in case of malfunction.

**KEY CHARACTERISTICS**

- **LED technology**
- **Product life >10 years**
- **Low consumption**
- **Stabilized light output**
- **120° or 360° versions available**
- **Dual functionality** (High Intensity Type A/B + Mid Intensity Type B/C)
- **Beacon-fault report** (clean electrical contact)

**INSTALLATION**

- **Flat mounting** | To flat surfaces using the accessory “Flat mounter”
- **Side mounting** | To side walls, side poles or side structures using the accessory “Side bracket”

**DRAWINGS, DIMENSIONS AND WEIGHTS**

**AWL 856.7+864/AB+BC** | PART NO

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**CERTIFICATIONS**

- FAA Advisor Circular AC150/5345-43F

**TYPICAL APPLICATIONS**

- **CRANES**
- **PYLONS**
- **INFRA-STRUCTURES**
- **WIND TURBINES**
- **BUILDINGS**
- **WATER TANKS**
- **CHIMNEYS**
- **AIRPORTS**
CONTROL UNITS

Installing multiple signaling devices on the same obstruction structure (pylon, antenna, building, etc.) is defined as System.

A central control unit must be used to control all MEDIUM and HIGH INTENSITY systems. A dedicated control unit can be used for multiple installation of LOW INTENSITY devices.

The control unit simplifies main operation activities (activation, control of potential anomalies, etc.), as well as possible maintenance procedures.

LOW INTENSITY devices can be controlled with a single control unit.

MEDIUM INTENSITY devices may require one single unit to control the whole system, according to installation scenarios.

HIGH INTENSITY devices require a dedicated control unit in any installation scenarios. Each control unit controls one device only: a system with multiple HIGH INTENSITY devices on the same obstruction structure requires more control units (1:1 ratio), connected in a MASTER/SLAVE network.

LOW INTENSITY

ICARO Control Units for AWL Low Intensity devices can control up to 8 devices

MEDIUM INTENSITY

ICARO Control Units for AWL Medium Intensity devices are available in two versions:

- Control Unit for max. 4 AWL Medium Intensity devices
- Control Unit for max. 8 AWL Medium Intensity devices

HIGH INTENSITY

ICARO Control Units for AWL High Intensity devices are available in four versions:

- Control Unit for 1 AWL High Intensity device 120°
- Control Unit for 1 AWL High Intensity device 360°
- Control Unit for 1 AWL High Intensity device DUAL 120°
- Control Unit for 1 AWL High Intensity device DUAL 360°

SYSTEM DESIGN SUPPORT

Our Team of experts can assist designers and installers with professional support in terms of norms and system configuration.

icaro@sirena.it
**FLAT MOUNTER**

Stainless steel flat mounter, can be used to mount Medium Intensity and High Intensity AWL to flat surfaces.

**SIDE BRACKETS**

Stainless steel side mounter, allows lateral mounting to walls, side poles or side structures. Available for AWL 810/HELIX (Low Intensity AWL) and for AWL 86X/85X (Medium and High Intensity AWL).

**AWL 810/HELIX PSU**

110/240V ACDC Power Supply Unit for AWL 810 and HELIX devices.

PSU can control up to two AWL 810/AB devices.

For AWL 810/AB TWIN and AWL HELIX we recommend using one power supply unit for each device.
SUGGESTED CONFIGURATIONS

ELEVATED STRUCTURES <45 m

DAY: OFF
NIGHT: STEADY RED

LOW INTENSITY
steady red
Part: AWL 810/ AB
ELEVATED STRUCTURES <105 m

- **Day:** Flashing white  
  **Night:** Flashing white
  
  **Medium Intensity**
  Part: AWL 865.866/A

- **Day:** Flashing white  
  **Night:** Flashing red
  
  **Dual Medium Intensity**
  Part: AWL 864-865.865.864/A

- **Day:** Flashing white  
  **Night:** stead Red
  
  **Medium Intensity**
  Part: AWL 810/AB

- **Day:** OFF  
  **Night:** Flashing red
  
  **Low Intensity**
  Part: AWL 810/AB

- **Day:** OFF  
  **Night:** Steady red
  
  **Medium Intensity**
  Part: AWL 864/C
ELEVATED STRUCTURES >150 m

**Day:** Flashing white
**Night:** Flashing white

**Day:** Flashing white
**Night:** Flashing red

**Day:** Flashing white
**Night:** Steady red

**Day:** Flashing white
**Night:** Flashing white

**Day:** Flashing white
**Night:** Steady red

**Day:** Flashing white
**Night:** Steady red
**AWL 810/C**

**VEHICLE WARNING LIGHT**

Low intensity airport vehicle warning light engineered according to ICAO Low Intensity Type C regulations.

With a lightweight heatsink base, this device is the ideal solution for an efficient and long lasting quality warning beacon.

Provided with a flashing light, its optical reflector guarantees a 360° horizontal beam radiation and a vertical beam between +0° and +12°.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to incandescent bulbs).

Available in amber for use with ground operation vehicles and in blue for use with airport priority vehicles.

**KEY CHARACTERISTICS**

- **LED technology**
- **Product life >10 years**
- **Low consumption**
- **Stabilized light output**

**INSTALLATION**

- **Flat mounting** | Mounting on flat surfaces (DIN B configuration, 3 holes at 120° intervals)
- **Plug mounting** | Mounting to a DIN A plug
- **Magnetic base** | Mounting on metal surfaces. Powering via cigar plug cable provided

**CERTIFICATIONS**


**TYPICAL APPLICATIONS**

- **GROUND OPERATION VEHICLES**
- **PRIORITY VEHICLES**

**AWL 810/C | PART NO**

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**DRAWINGS, DIMENSIONS AND WEIGHTS**
FOLLOW-ME BAR
VEHICLE WARNING LIGHT

Multifunctional light bar available with Xenon (4 linear spotlights) or LED technology.

Permanent rear LED display (variable messages). 6 selectable languages (max. 20 pre-recorded messages for each language - max. 10 personalized messages - 10 characters).

FOLLOW-ME BAR offers different options suitable for all types of applications: radio controlled motorized search beam or camera, amber LED parking lights, H3 halogen spotlights.

Polycarbonate structure and domes.

Supplied with remote control console with backlit keys and display (version with message panel).

KEY CHARACTERISTICS

VOLTAGE
12V DC

LIGHT EFFECT
LED FLASHING EFFECT
STROBE: 10 Joules

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+80 °C

MECHANICAL FEATURES
Polycarbonate structure and domes

OPTICAL FEATURES
Powerful LED or 10 Joules Xenon technology allowing a high intensity flashing effect

DRAWINGS AND DIMENSIONS

CERTIFICATIONS

APPROVAL NUMBERS

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Also available
Light bars are available in different configurations with following options:

- Radio controlled motorized search beam
  Depth or flood light 55W - 120,000 Cd(p) or 100W - 150,000 Cd(p)

- Radio controlled motorized camera
  Fitted with mechanical zoom 22X + 10X digital
  High sensitivity lens allowing visibility even in dim lit environments

- Amber parking lights
  Frontal, side, rear LED spotlights

- Steady depth light
  H3 55W halogen spotlights (frontal - side - amber flashing rear)

FOLLOW-ME BAR | PART NO
PART NO'S AVAILABLE ON REQUEST
Low intensity helipad perimeter light.

With a lightweight heatsink base, this device is the ideal solution for an efficient and long lasting quality perimeter beacon.

Provided with a green steady light, this device has 2 light sources: horizontal and vertical. The horizontal light is equipped with an optical reflector that guarantees a 360° horizontal beam radiation and a vertical beam of +10°. The vertical light has a horizontal beam radiation of 360° and a vertical beam of 120°.

The LED circuit guarantees a long product life estimated in over 10 years, as well as low consumption (1/10 when compared to incandescent bulbs).

Certifications

IRRADIATION BEAM

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<td>HORIZONTAL LIGHT = 10°</td>
<td>HORIZONTAL LIGHT = 360°</td>
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Typical Applications

Helipads

AWL HELIX

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<tr>
<th>PART NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>51012</td>
<td>AWL HELIX 12/30V DC</td>
</tr>
<tr>
<td>51011</td>
<td>PSU 110/240V AC/DC</td>
</tr>
<tr>
<td>51013</td>
<td>SIDE BRACKET</td>
</tr>
</tbody>
</table>

Drawings, Dimensions and Weights

- BASE DOME
- LED SMD >32 CD 5W
- Low intensity helipad perimeter light.
Our configurator application will guide you to select the best AWL solution for your obstacle marking needs.

Available on:
- iOS Version
- Web Version

www.icaroawl.com/webconfigurator
ICARO is Sirena’s range of high-end Aircraft Warning Lights engineered to last and perform

icaro@sirena.it

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