ICARO

Aircraft Warning Lights

GENERAL CATALOGUE

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BRIGHT IDEAS





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INTRODUCTION



irena 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 performances, 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 solution 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.



IGH 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.

EDIUM 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.

OW 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 interim devices on taller structures, low intensity devices are used for night marking only.















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CERTIFICATIONS









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TYPICAL APPLICATIONS









INFRA-STRUCTURES

WIND









BUILDINGS

AWL 810/AB | PART NO -

BEACON (24V DC) PSU (110/240V AC) SIDE BRACKET 51010 51011 51013

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

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 incadescent bulbs).

KEY CHARACTERISTICS -

LED technology

Product life >10 years

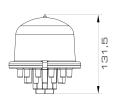
Low consumption

Stabilized light output

INSTALLATION -

Pole mounting | Direct (3/4" NPT-F)

Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"























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TYPICAL APPLICATIONS









INFRA-STRUCTURES TURBINES

WIND









BUILDINGS

WATER

AWL 810/AB TWIN I PART NO -

BEACON (24V DC) PSU (110/240V AC) SIDE BRACKET 51014 51011 51013

TWIN 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°.

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

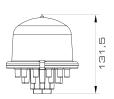
Twin operations with the same device (back-up circuit included)

Crepuscolar sensor for automated operations

INSTALLATION -

Pole mounting | Direct (3/4" NPT-F)

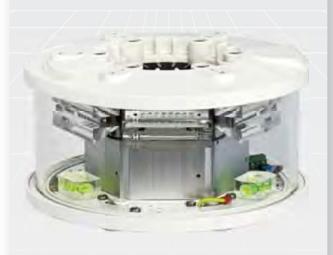
Side mounting I To side walls, side poles or side structures using the accessory "Side bracket"







































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TYPICAL APPLICATIONS



CRANES



PYLONS



INFRA-STRUCTURES











BUILDINGS

AIRPORTS

AWL 864/BC | PART NO

BEACON 20/55V DC BEACON 240V AC FLAT MOUNTER SIDE BRACKET

51016 51017 51031

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

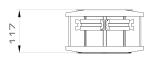
Low consumption

Stabilized light output

INSTALLATION -

Flat mounting I To flat surfaces using the accessory "Flat mounter"

Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"











TWIN **BACK-UP** CIRCUIT INCLUDED















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TYPICAL APPLICATIONS











INFRA-STRUCTURES

WIND









AWL 864/BC TWIN I PART NO

BEACON 20/55V DC BEACON 240V AC FLAT MOUNTER SIDE BRACKET

51018 51019 51031

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

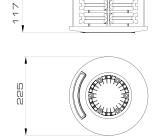
Stabilized light output

Twin operations with the same device (back-up circuit included)

INSTALLATION -

Flat mounting I To flat surfaces using the accessory "Flat mounter"

Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"









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TYPICAL APPLICATIONS



PYLONS





INFRA. STRUCTURES

WIND









BUILDINGS

CHIMNEYS

AWL 865.866/A I PART NO

BEACON 20/55V DC BEACON 240V AC FLAT MOUNTER SIDE BRACKET

51020 51021 51031

MEDIUM INTENSITY —

AIRCRAFT WARNING LIGHT

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 malfunctioning.

KEY CHARACTERISTICS

LED technology

Product life >10 years

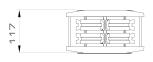
Low consumption

Stabilized light output

INSTALLATION -

Flat mounting I To flat surfaces using the accessory "Flat mounter"

Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"











TYPE A + TYPE BC













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TYPICAL APPLICATIONS











INFRA-STRUCTURES TURBINES

WIND









BUILDINGS

AWL 864+865.866/BC+A | PART NO -

BEACON 20/55V DC BEACON 240V AC FLAT MOUNTER SIDE BRACKET

51022 51023 51031

DUAL MEDIUM INTENSITY—

AIRCRAFT WARNING LIGHT

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

With an induced air heatsink base, this device is the ideal solution for an efficient 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

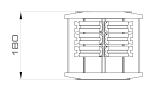
Low consumption

Stabilized light output

Dual functionality (Type A + Type B/C)

Flat mounting | To flat surfaces using the accessory "Flat mounter"

Side mounting I To side walls, side poles or side structures using the accessory "Side bracket"



























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FPM)= 1**F** 20 DAY





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TYPICAL APPLICATIONS -



CRANES







INFRA-STRUCTURES

WIND

BUILDINGS



AWL 856.857/AB | PART NO





BEACON 240V AC (120°) BEACON 240V AC (360°) FLAT MOUNTER SIDE BRACKET

51024 51025 51031

HIGH INTENSITY

AIRCRAFT WARNING LIGHT

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

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

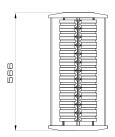
Stabilized light output

120° or 360° versions available

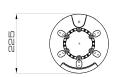
INSTALLATION -

Flat mounting I To flat surfaces using the accessory "Flat mounter"

Side mounting I To side walls, side poles or side structures using the accessory "Side bracket"



























IRRADIATION BEAM

SIDE VIEW VERTICAL IRRADIATION



HORIZONTAL LIGHT = 10° VERTICAL LIGHT = 120° TOP VIEW HORIZONTAL IRRADIATION



HORIZONTAL LIGHT = 360

CERTIFICATIONS



TYPICAL APPLICATIONS



AWL HELIX | PART NO

BEACON (24V DC) PSU (110/240V AC) SIDE BRACKET 51012 51011 51013

LOW INTENSITY

HELIPAD PERIMETER LIGHT

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).



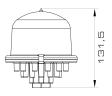
KEY CHARACTERISTICS

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

INSTALLATION -

Pole mounting | Direct (3/4" NPT-F)

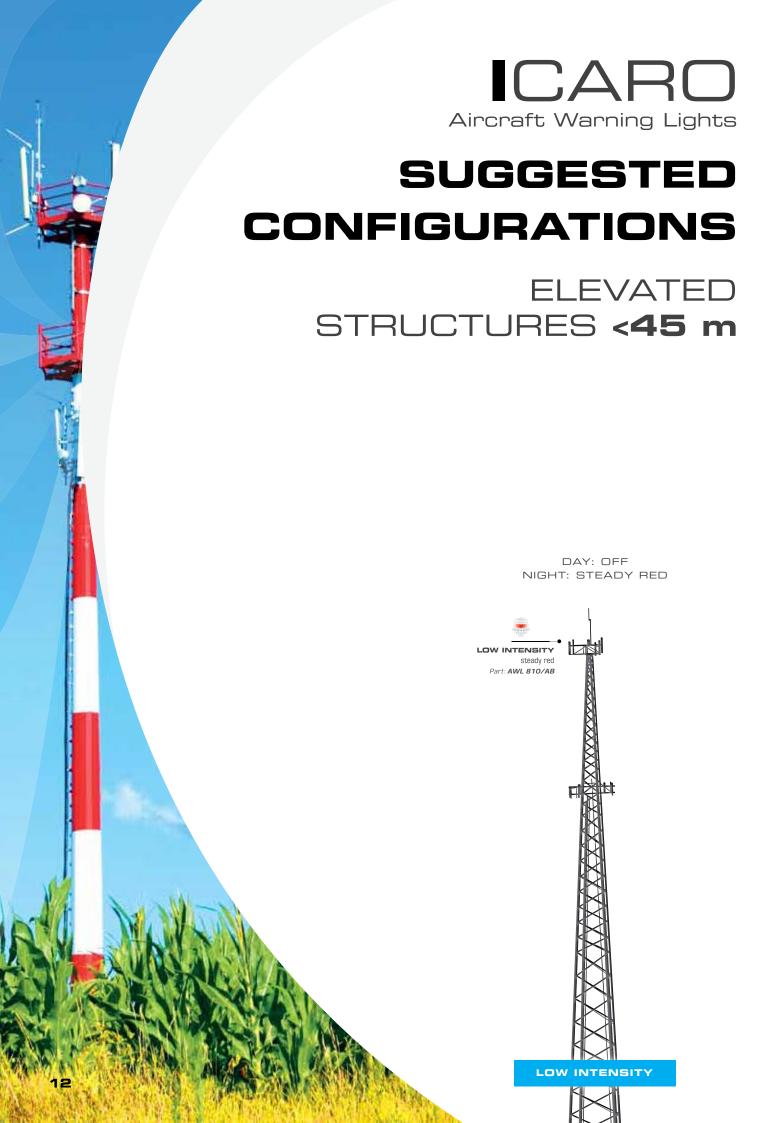
Side mounting | To side walls, side poles or side structures using the accessory "Side bracket"









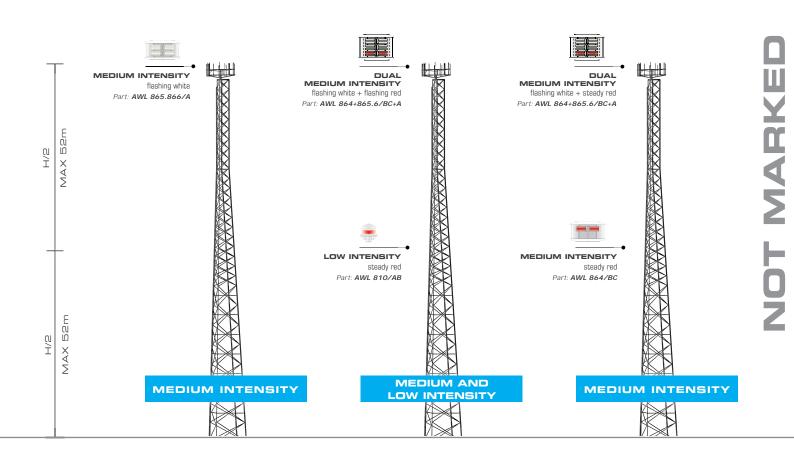


ELEVATED STRUCTURES <105 m

DAY: FLASHING WHITE NIGHT: FLASHING WHITE

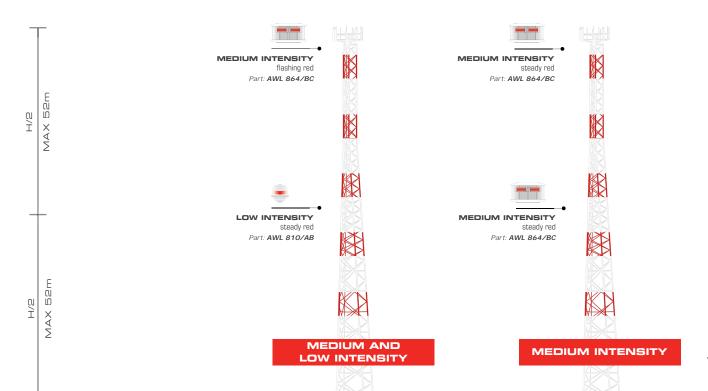
DAY: FLASHING WHITE NIGHT: FLASHING RED

DAY: FLASHING WHITE NIGHT: STEADY RED



DAY: OFF NIGHT: FLASHING RED

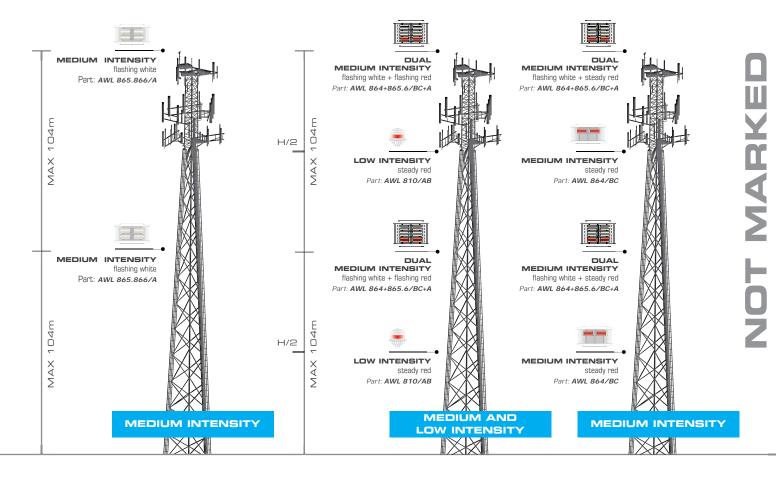
DAY: OFF NIGHT: STEADY RED



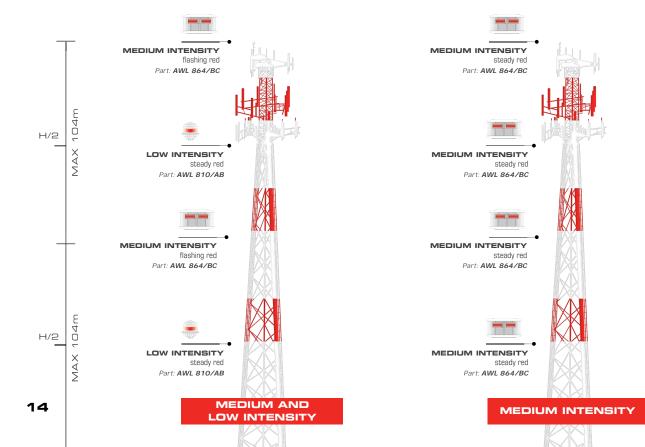
ELEVATED STRUCTURES <150 m

DAY: FLASHING WHITE NIGHT: FLASHING WHITE

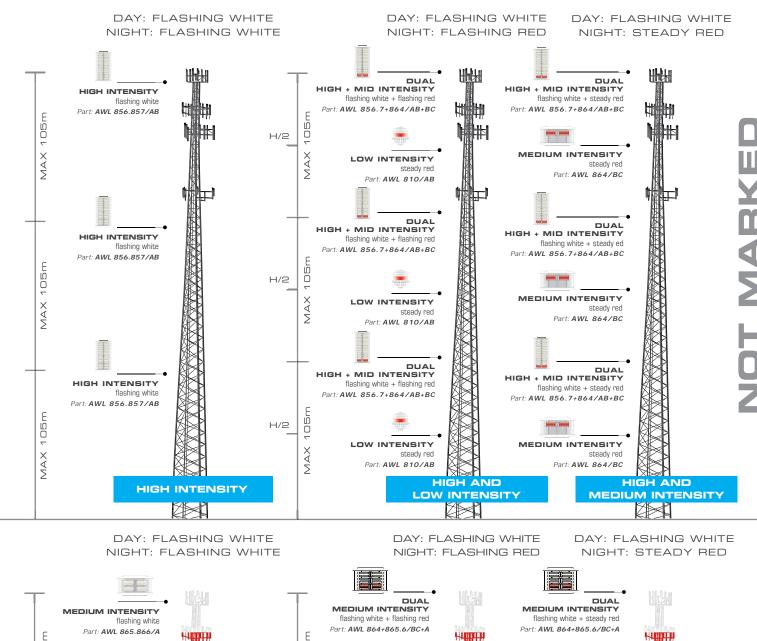
DAY: FLASHING WHITE NIGHT: FLASHING RED DAY: FLASHING WHITE NIGHT: STEADY RED

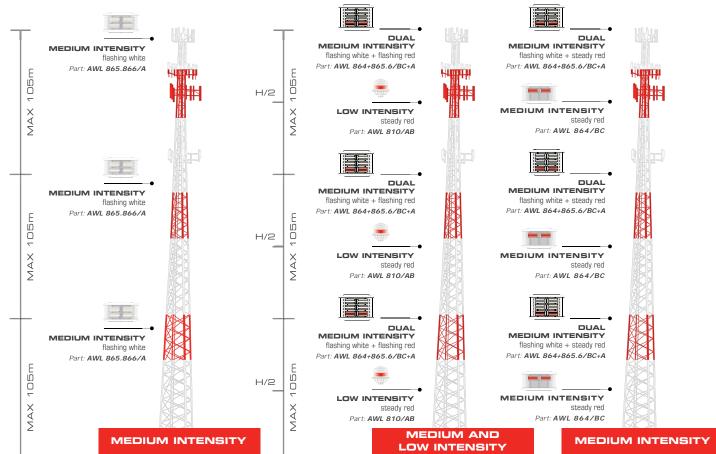


DAY: OFF NIGHT: FLASHING RED DAY: OFF NIGHT: STEADY RED



ELEVATED STRUCTURES >150 m







AWL 86X/85X FLAT MOUNTER (includes 2 mounters)

51031



AWL 810/HELIX SIDE BRACKET AWL 86X/85X SIDE BRACKET 51013 51030



AWL 810/HELIX PSU

51011

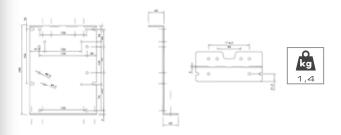


AWL GPS SYNC MODULE

51032

FLAT MOUNTER

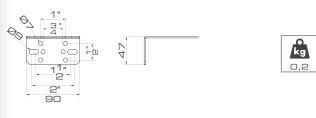
Stainless steel flat mounter, can be used to mount Medium Intensity and High Intensity AWL to flat surfaces



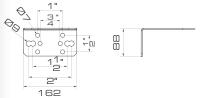
SIDE BRACKETS

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)

810/HELIX



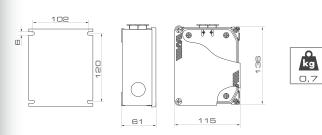






AWL 810/HELIX PSU

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



AWL GPS SYNCRONISATION MODULE

Syncronisation module, allows syncronous and catenary flashing via GPS signal wirelessly





OUR CONFIGURATOR APPLICATION

WILL GUIDE YOU TO SELECT THE BEST AWL SOLUTION FOR YOUR OBSTACLE MARKING NEEDS.



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

icaro@sirena.it

www.icaroawl.com





MADE IN ITALY

Engineered, Developed and Assembled in Rosta, Italy

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