
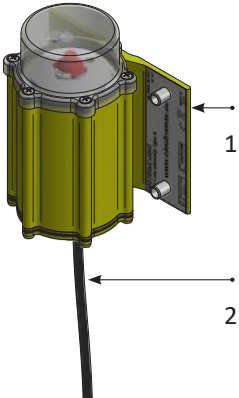


# PULSAR

Low Intensity Obstruction Lighting



<b>Compliance to standards</b>	<p><b>ICAO:</b> International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 - Aerodrome Design and Operations, Paragraph 6</p> <p><b>Romania CAA</b> (Romanian Civil Aeronautical Authority): No. 12408 from 30.05.2008</p>
<b>Application</b>	<p>Marking of aerial obstacles, such as: towers, buildings, antennas</p>
<b>Features</b>	<p>Designed and built with simplicity and ease of maintenance in mind. High power LED technology in 100000 hours estimated lifetime. Lightweight, low-energy and environment friendly lighting fitting. Extensive use of aluminium alloys reduces fitting weight and eases handling in the field.</p>
<b>Product Code</b>	<p><b>AL - OBS - XX - XXX</b></p> <p>Series Indicator (Airfield Lighting) <b>AL</b> Category (Obstruction Lighting) <b>OBS</b> Product Indicator <b>XX</b></p> <ul style="list-style-type: none"> <li><b>05</b> - Low Intensity Obstruction Lighting type A Single</li> <li><b>06</b> - Low Intensity Obstruction Lighting type A Double</li> <li><b>07</b> - Low Intensity Obstruction Lighting type B Single</li> <li><b>16</b> - Low Intensity Obstruction Lighting type B Double</li> </ul> <p>Power Supply <b>XXX</b></p> <ul style="list-style-type: none"> <li><b>230</b> - Power Supply: 100-230 VAC</li> <li><b>048</b> - Power Supply: 48 VDC</li> <li><b>024</b> - Power Supply: 24 VDC</li> <li><b>012</b> - Power Supply: 12 VDC</li> </ul>

<p><b>Description</b></p>	<p><b>Housing</b> - Powder coated aluminium RAL 1004 (aviation yellow) </p> <p><b>Dispenser</b> - clear polycarbonate</p> <p><b>Cable gland</b> - nickel plated brass</p> <p><b>Fasteners</b> - stainless steel</p> <p>Light fixtures are provided with anti condensation valve.</p>									
<p><b>Environment</b></p>	<p><b>Temperature range:</b> - 55<sup>o</sup> to +55<sup>o</sup></p> <p><b>Degree of protection:</b> IP 67</p>									
<p><b>Electrical Characteristics</b></p>	<table border="1" data-bbox="544 1034 1461 1308"> <thead> <tr> <th></th> <th>Type A</th> <th>Type B</th> </tr> </thead> <tbody> <tr> <td>Power consumption</td> <td>1.5 W</td> <td>2.5 W</td> </tr> <tr> <td>Power supply</td> <td colspan="2">                     Power Supply: 100-230 V AC                      Power Supply: 48 V DC; 24 V DC; 12 V DC                      Power Supply: 700 mA - constant current                 </td> </tr> </tbody> </table> <p>Electrical Connections</p> <ol style="list-style-type: none"> <li>1. Light Fixture</li> <li>2. Cable - 2m</li> </ol>  <p><b>Types of power supply:</b></p> <ul style="list-style-type: none"> <li>• Low intensity obstruction light - Single:             <ul style="list-style-type: none"> <li><b>230V AC</b> power supply - 3 core cable</li> <li><b>12V DC, 24V DC, 48V DC</b> power supply - 2 core cable</li> <li><b>700mA</b> power supply - 2 core cable</li> </ul> </li> <li>• Low intensity obstruction light - Double - from alarm and redundancy device:             <ul style="list-style-type: none"> <li>3 core cable: <b>V+</b> LED 1</li> <li><b>V+</b> LED 2</li> <li><b>V-</b> common</li> </ul> </li> </ul> <p>Note: 2 extra cores for alarm signal when internal module is used</p>		Type A	Type B	Power consumption	1.5 W	2.5 W	Power supply	Power Supply: 100-230 V AC Power Supply: 48 V DC; 24 V DC; 12 V DC Power Supply: 700 mA - constant current	
	Type A	Type B								
Power consumption	1.5 W	2.5 W								
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**Mounting Types**

Φ30 mm up to Φ70 mm pipe



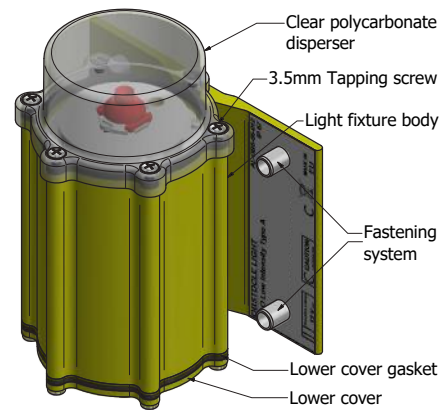
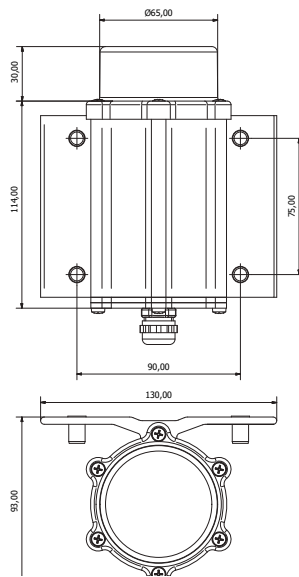
Vertical flat surface



**Mechanical Characteristics**

**Length - Width:** 130 mm / 93mm

**Total height:** 160 mm **Weight:** 1.3 kg



**Packaging:** 180 x 160 x 100 mm 1 kg

**Optional**

**Explosive Atmosphere:**

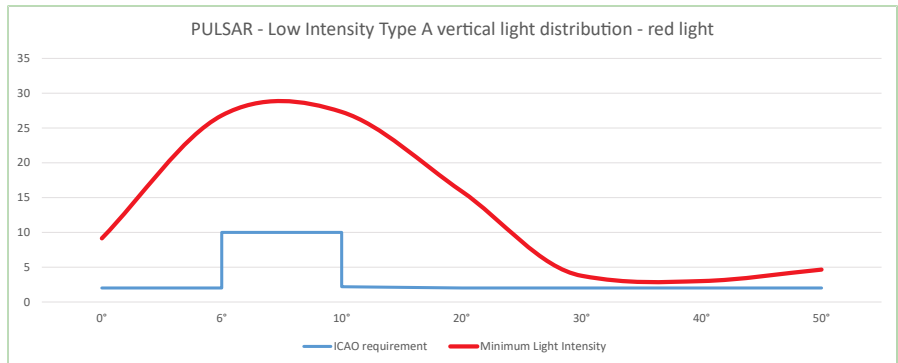


ATEX version can be produced for group II zone 2 and zone 22. In this case the beacon is powered through an intrinsic barrier mounted in a power supply case located outside the area with potentially explosive atmosphere.

Photometric Characteristics

Horizontal output: **360°**  
 Light colour: **Red light**

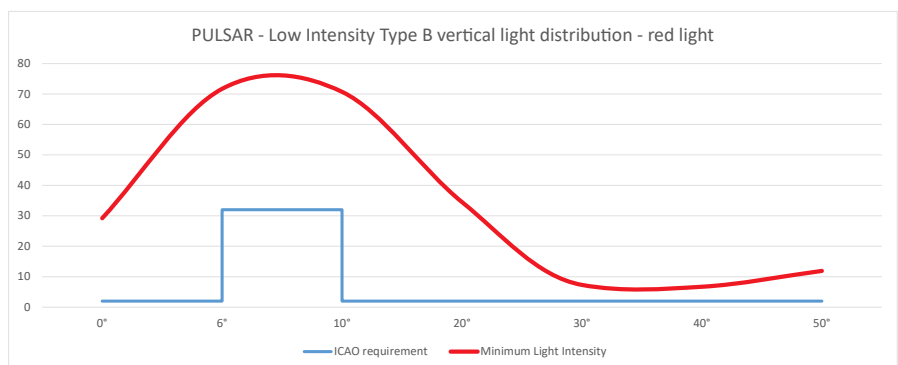
**PULSAR - Low Intensity Type A Single or Double**



The brightness intensity values complies with:  
**ICAO requirements Annex 14 Vol.1 table.6-3**

**PULSAR - Low Intensity Type B Single or Double**

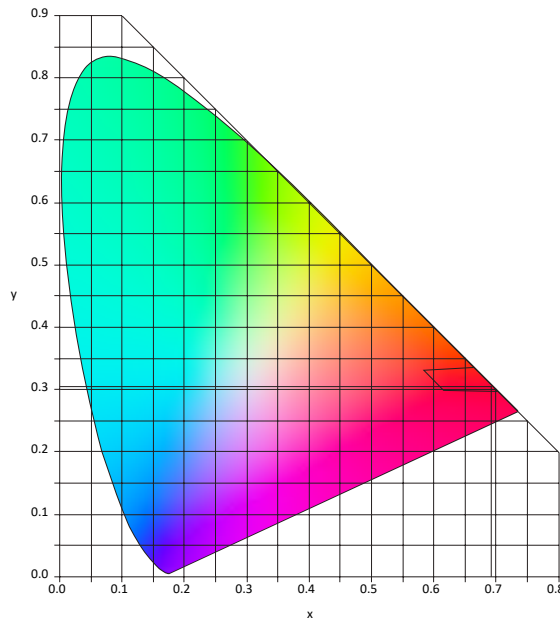
Vertical elevation angle	0°	6°	10°	20°	30°	40°	50°
Required minimum intensity [cd]	Visible enough	>32,5	>32,5	Visible enough	Visible enough	Visible enough	Visible enough
Measured minimum intensity [cd]	29,2	71,70	70,70	34,5	7,30	6,70	11,90



The brightness intensity values complies with:  
**ICAO requirements Annex 14 Vol.1 table.6-3**

Photometric Characteristics

Red light colour emitted by the light fixture, with the trichromatic coordinates:



x=0,698  
y=0,302  
z=0,000

The measured trichromatic coordinates correspond to colour range requirements in:

**ICAO Annex 14 - Aerodromes Vol.1, fig. A1-1-1b. Colours for aeronautical ground lights (solid state lighting)**

Type A Single

Type A Double

Type B Single

Type B Double



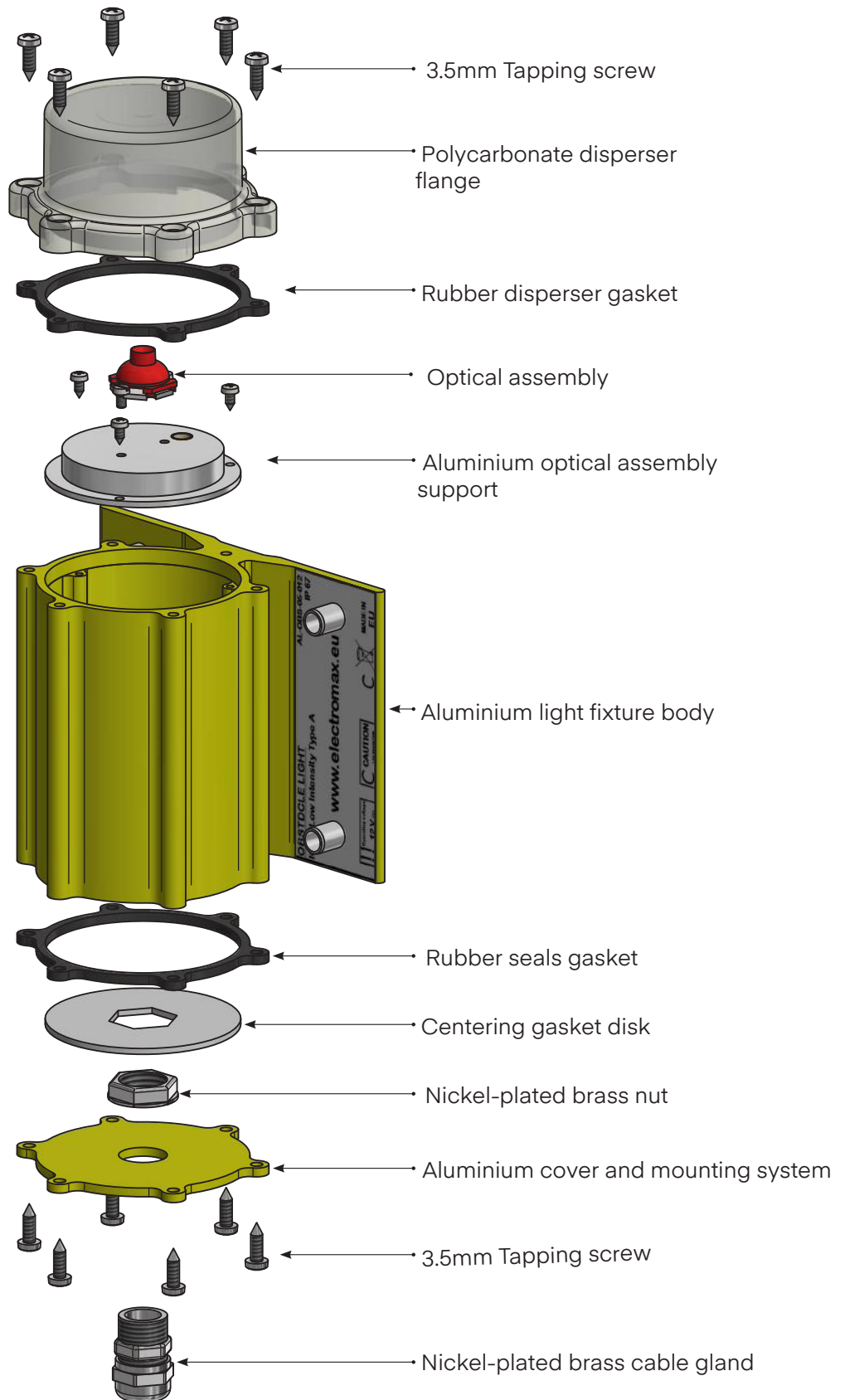
1 LED high power Red - Light

2 LED's high power Red - Light

1 LED high power Red - Light





2 LED's high power bright Red - Light

**Spare parts**



**Accessory**

To order accessories please call our customer support.  
 For contact details please refer to our website - [www.electromax.ro](http://www.electromax.ro)

<b>Product Code</b>	<b>Description</b>	<b>Image</b>
<b>AL-OBS-08-XXX</b>	Basic controller, alarm and redundancy device (48 V DC or 230V AC power supply)	
<b>AL-OBS-08-XXX-FT-AT</b>	Advance controller, alarm and redundancy device (with integrated twilight switch and overload protection)	
<b>AL-158-AX</b>	Integrated Redundancy Alarming Twilight sensor	
<b>AL-OBS-10-XXX</b>	Internal twilight sensor	
<b>AL-OBS-11-AX</b>	Solar panel power supply	





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