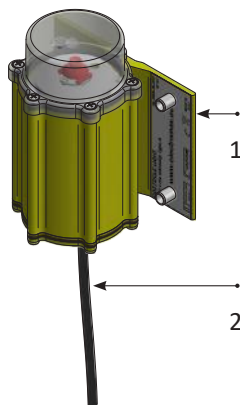


# PULSAR

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> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td><b>AL</b></td></tr> <tr> <td>Category (Obstruction Lighting)</td><td><b>OBS</b></td></tr> <tr> <td>Product Indicator</td><td><b>XX</b></td></tr> <tr> <td> <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> </td><td></td></tr> <tr> <td>Power Supply</td><td><b>XXX</b></td></tr> <tr> <td> <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> </td><td></td></tr> </table>	Series Indicator (Airfield Lighting)	<b>AL</b>	Category (Obstruction Lighting)	<b>OBS</b>	Product Indicator	<b>XX</b>	<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>		Power Supply	<b>XXX</b>	<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>	
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Description	<b>Housing</b> - Powder coated aluminium RAL 1004 (aviation yellow) <b>Dispenser</b> - clear polycarbonate <b>Cable gland</b> - nickel plated brass <b>Fasteners</b> - stainless steel										
	Light fixtures are provided with anti condensation valve.										
Environment	<b>Temperature range:</b> - 55° to +55° <b>Degree of protection:</b> IP 67										
Electrical Characteristics	<table><tr><td></td><td>Type A</td><td>Type B</td></tr><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></table>			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	
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	Electrical Connections										
<div><div>1. Light Fixture 2. Cable - 2m</div><div></div></div>											
<b>Types of power supply:</b> <ul style="list-style-type: none"><li>Low intensity obstruction light - Simple:<div><b>230V AC</b> power supply - 3 core cable <b>12V DC, 24V DC, 48V DC</b> power supply - 2 core cable <b>700mA</b> power supply - 2 core cable</div></li><li>Low intensity obstruction light - Double - from alarm and redundancy device:<div>3 core cable: <b>V+</b> LED 1 <b>V+</b> LED 2 <b>V-</b> common</div></li></ul>											

**Mounting Types**

Φ30 mm up to Φ70 mm pipe



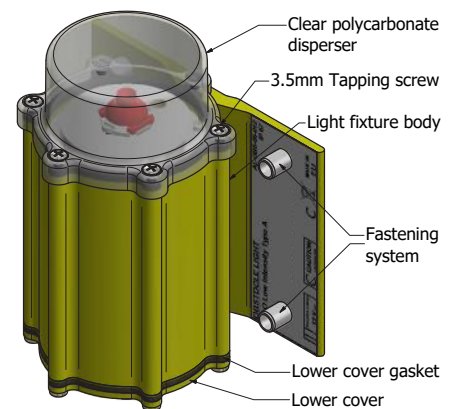
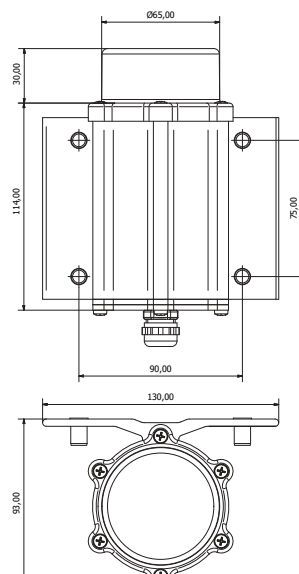
Vertical flat surface



**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:**

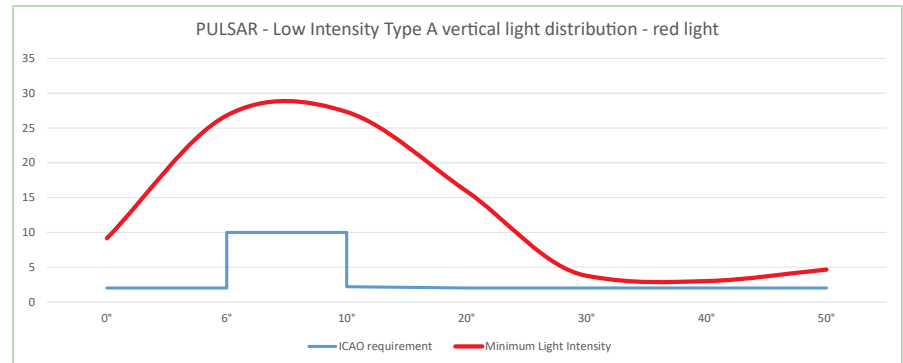


ATEX version can be produced for group II zone 2 and zone 22. In this case the beacon is powered through an intrinsic barrier mounted in a power supply case located outside the area with potentially explosive atmosphere.

**Photometric  
Characteristics**

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

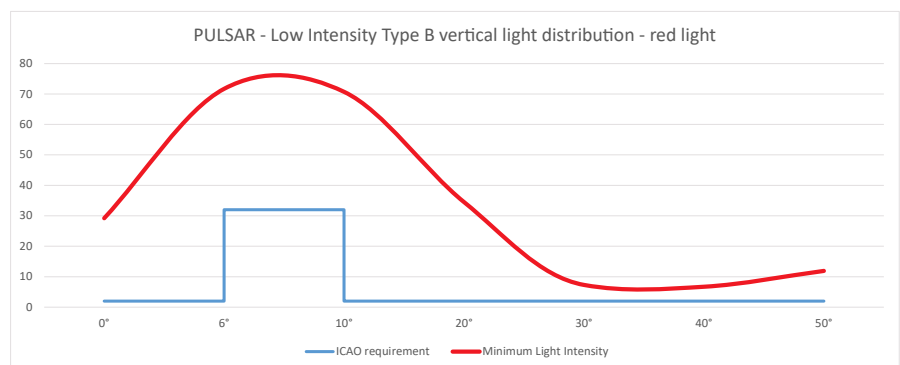
**PULSAR - Low Intensity Type A Single or Double**



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

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

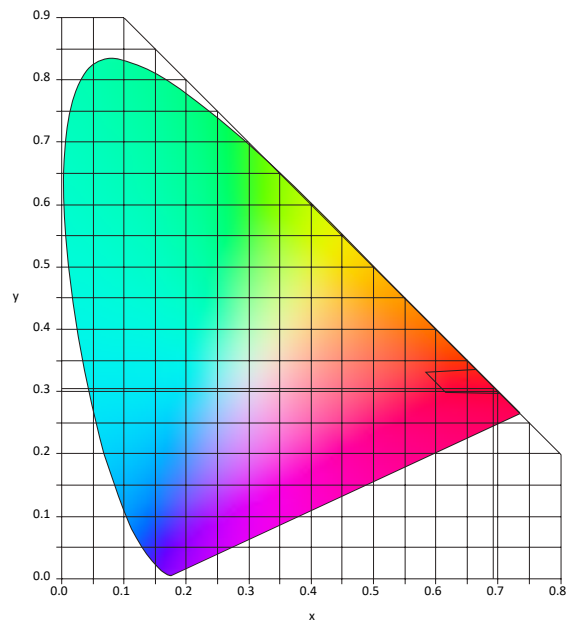
Vertical elevation angle	0°	6°	10°	20°	30°	40°	50°
Required minimum intensity [cd]	Visible enough	>32	>32	Visible enough	Visible enough	Visible enough	Visible enough
Measured minimum intensity [cd]	9.14	26.8	27.3	15.9	3.76	3.00	4.54



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



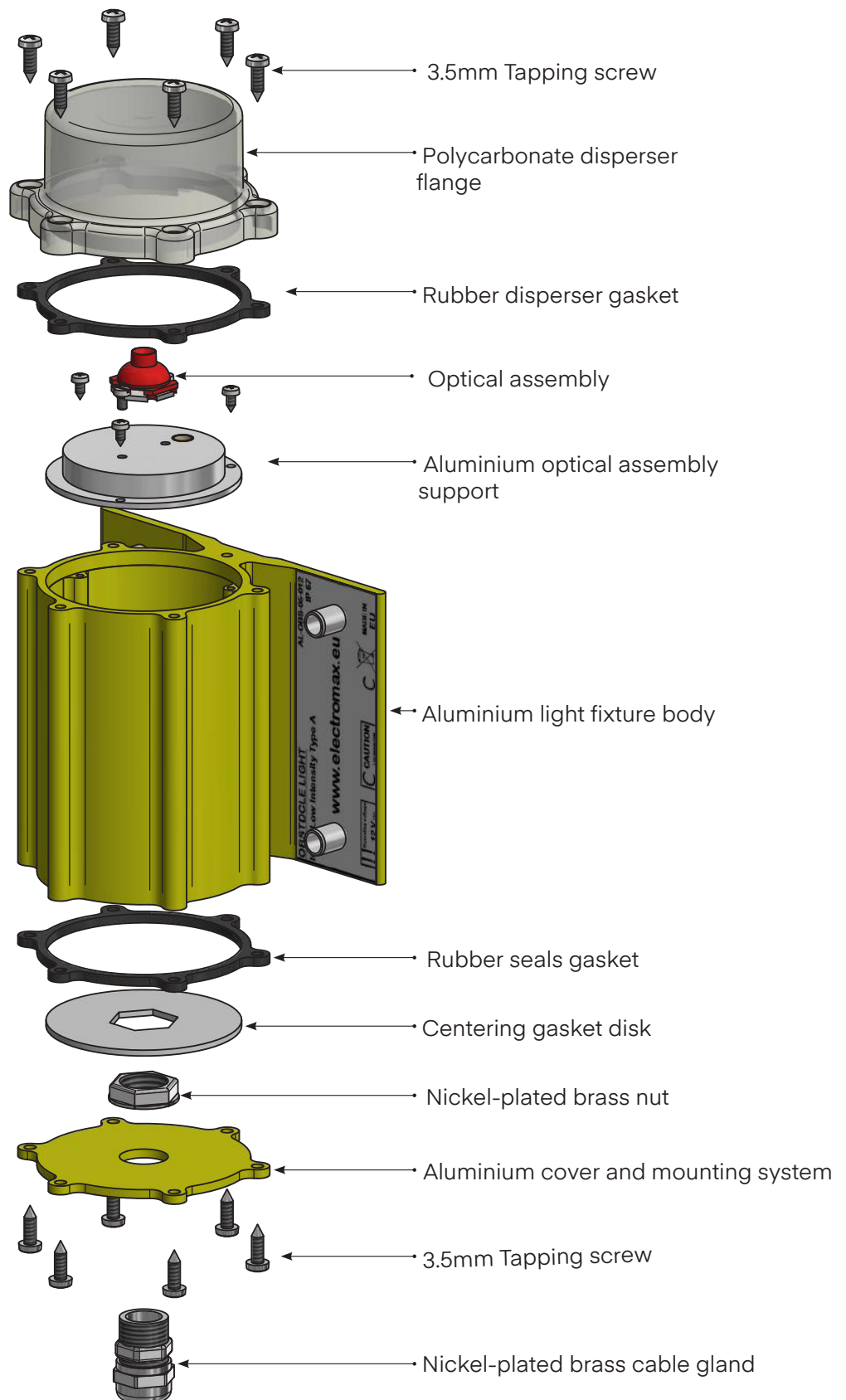
1 LED high  
power Red -  
Light

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)

Product Code	Description	Image
<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-OBS-09-048</b>	External twilight switch	
<b>AL-OBS-10-XXX</b>	Internal twilight sensor	
<b>AL-OBS-11-AX</b>	Solar panel power supply	





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