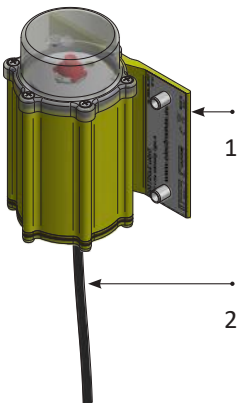


PULSAR

Low Intensity Obstruction Lighting



Compliance to standards	<p>ICAO: International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 - Aerodrome Design and Operations, Paragraph 6</p> <p>Romania CAA (Romanian Civil Aeronautical Authority): No. 12408 from 30.05.2008</p>												
Application	<p>Marking of aerial obstacles, such as: towers, buildings, antennas</p>												
Features	<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>												
Product Code	<p>AL - OBS - XX - XXX</p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td>AL</td></tr> <tr> <td>Category (Obstruction Lighting)</td><td>OBS</td></tr> <tr> <td>Product Indicator</td><td>XX</td></tr> <tr> <td> <ul style="list-style-type: none"> 05 - Low Intensity Obstruction Lighting type A Single 06 - Low Intensity Obstruction Lighting type A Double 07 - Low Intensity Obstruction Lighting type B Single 16 - Low Intensity Obstruction Lighting type B Double </td><td></td></tr> <tr> <td>Power Supply</td><td>XXX</td></tr> <tr> <td> <ul style="list-style-type: none"> 230 - Power Supply: 100-230 VAC 048 - Power Supply: 48 VDC 024 - Power Supply: 24 VDC 012 - Power Supply: 12 VDC </td><td></td></tr> </table>	Series Indicator (Airfield Lighting)	AL	Category (Obstruction Lighting)	OBS	Product Indicator	XX	<ul style="list-style-type: none"> 05 - Low Intensity Obstruction Lighting type A Single 06 - Low Intensity Obstruction Lighting type A Double 07 - Low Intensity Obstruction Lighting type B Single 16 - Low Intensity Obstruction Lighting type B Double 		Power Supply	XXX	<ul style="list-style-type: none"> 230 - Power Supply: 100-230 VAC 048 - Power Supply: 48 VDC 024 - Power Supply: 24 VDC 012 - Power Supply: 12 VDC 	
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Power Supply	XXX												
<ul style="list-style-type: none"> 230 - Power Supply: 100-230 VAC 048 - Power Supply: 48 VDC 024 - Power Supply: 24 VDC 012 - Power Supply: 12 VDC 													

Description	Housing - Powder coated aluminium RAL 1004 (aviation yellow) Dispenser - clear polycarbonate Cable gland - nickel plated brass Fasteners - stainless steel										
	Light fixtures are provided with anti condensation valve.										
Environment	Temperature range: Degree of protection:	- 55° to +55° 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	
		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									
	Electrical Connections										
<div><div>1. Light Fixture 2. Cable - 2m</div><div></div></div>											
Types of power supply: <ul style="list-style-type: none">Low intensity obstruction light - Simple:<div>230V AC power supply - 3 core cable 12V DC, 24V DC, 48V DC power supply - 2 core cable 700mA power supply - 2 core cable</div>Low intensity obstruction light - Double - from alarm and redundancy device:<div>3 core cable: V+ LED 1 V+ LED 2 V- common</div>											

Mounting Types

Φ30 mm up to Φ70 mm pipe



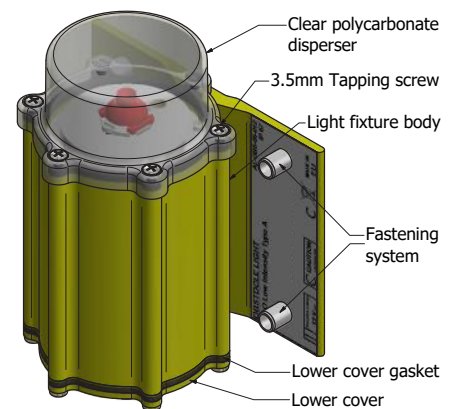
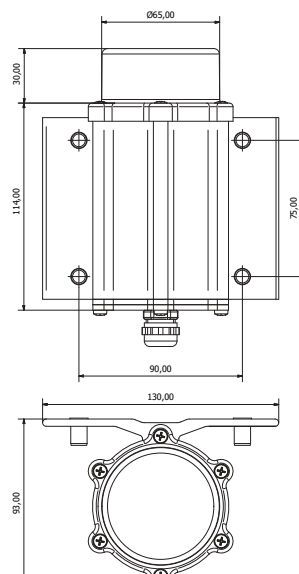
Vertical flat surface



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:

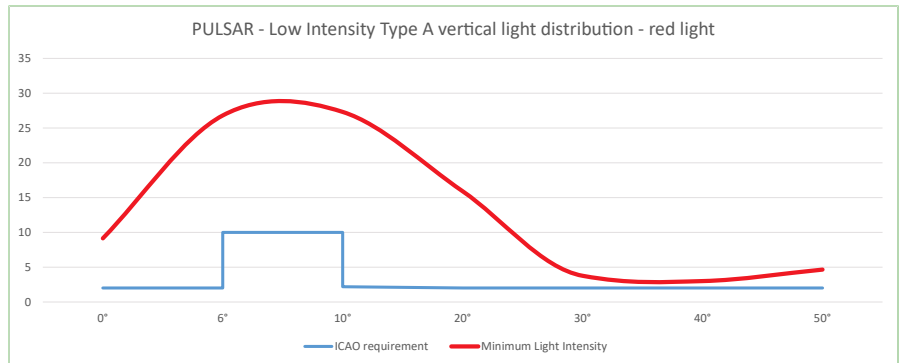


ATEX version can be produced for group II zone 2 and zone 22. In this case the beacon is powered through an intrinsic barrier mounted in a power supply case located outside the area with potentially explosive atmosphere.

**Photometric
Characteristics**

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

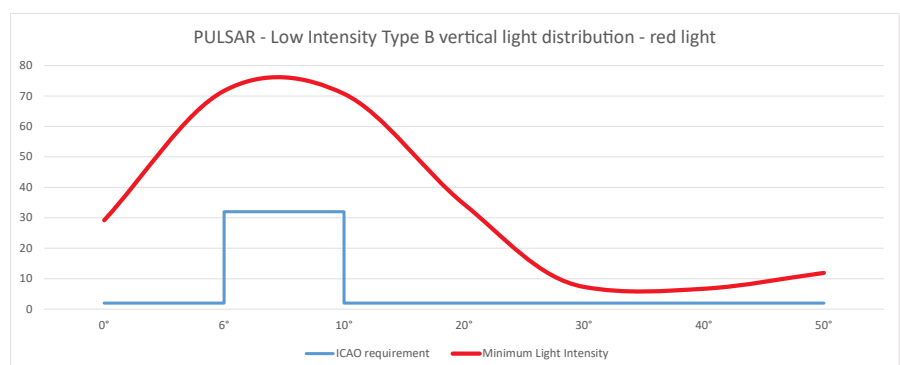
PULSAR - Low Intensity Type A Single or Double



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

PULSAR - Low Intensity Type B Single or Double

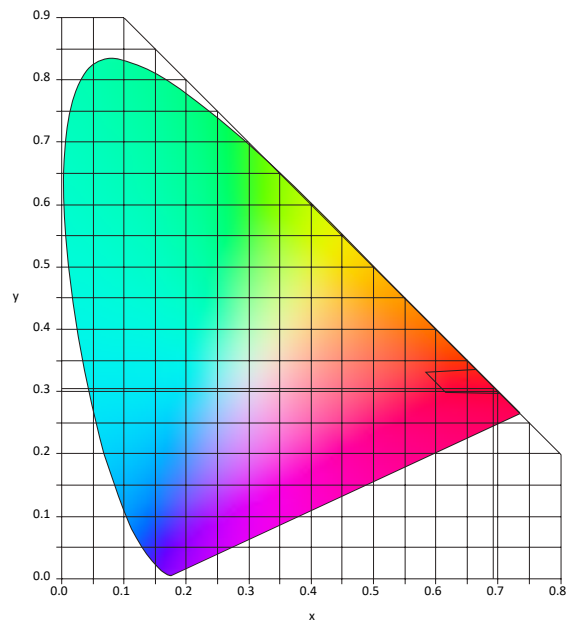
Vertical elevation angle	0°	6°	10°	20°	30°	40°	50°
Required minimum intensity [cd]	Visible enough	>32	>32	Visible enough	Visible enough	Visible enough	Visible enough
Measured minimum intensity [cd]	9.14	26.8	27.3	15.9	3.76	3.00	4.54



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



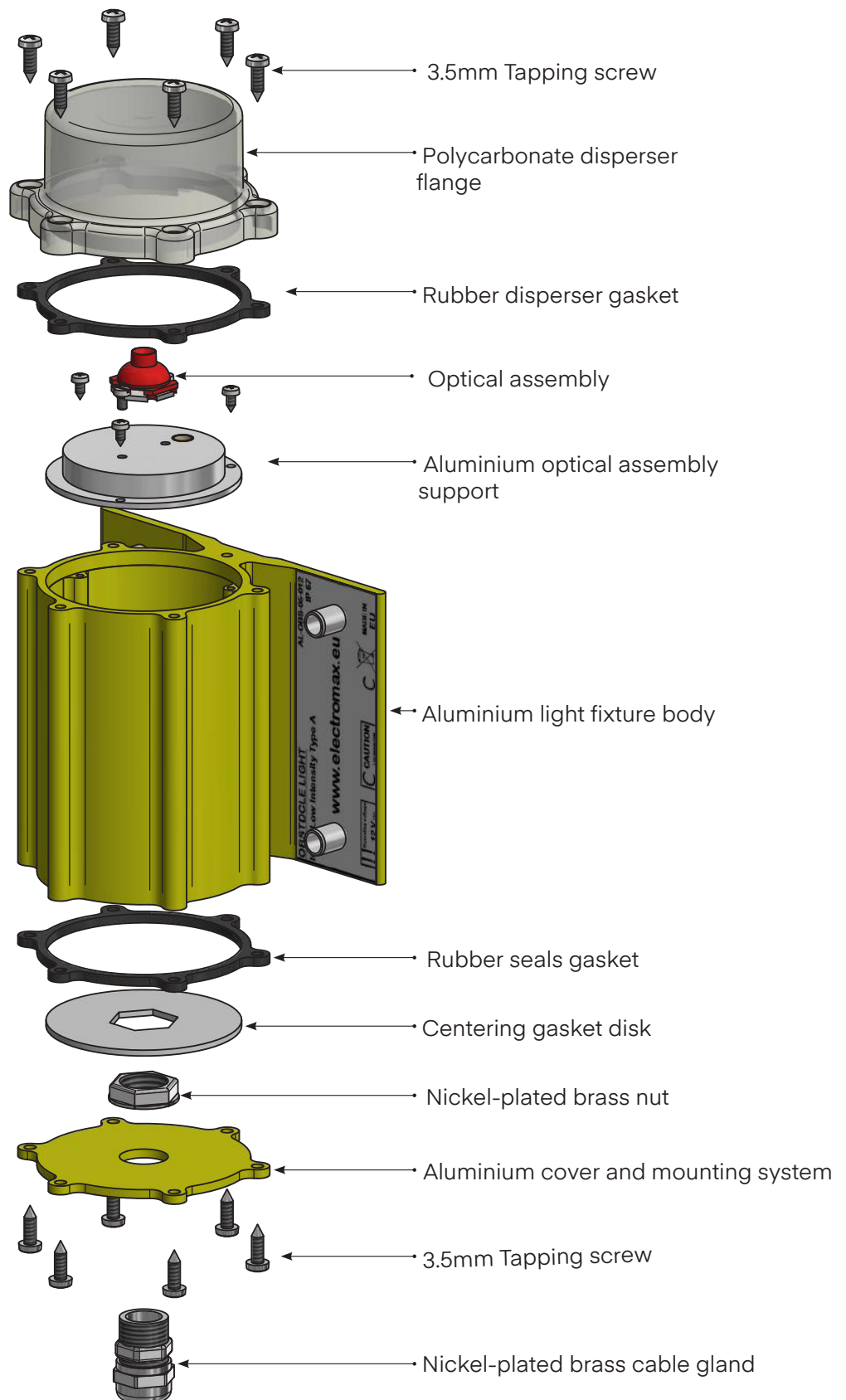
1 LED high
power Red -
Light

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

Product Code	Description	Image
AL-OBS-08-XXX	Basic controller, alarm and redundancy device (48 V DC or 230V AC power supply)	
AL-OBS-08-XXX-FT-AT	Advance controller, alarm and redundancy device (with integrated twilight switch and overload protection)	
AL-OBS-09-048	External twilight switch	
AL-OBS-10-XXX	Internal twilight sensor	
AL-OBS-11-AX	Solar panel power supply	



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