

# Radio Obstruction Light Controller



<p><b>Compliance to standards</b></p>	<p><b>EMC emission:</b>  EN55032 (CISPR32) Class B  EN61000-3-2 Class A,  EN61000-3-3,  EAC TP TC 020</p> <p><b>EMC immunity:</b>  EN61000-4-2,3,4,5,6,8,11  EN55024, light industry level, criteria A  EAC TP TC 020</p> <p><b>SR EN 61439-1: 2012</b>  Low-voltage switchgear and controlgear assemblies  Part 1: General rules</p> <p><b>SR EN 61439-2: 2012</b>  Low-voltage switchgear and controlgear assemblies.  Power switchgear and controlgear assemblies assemblies</p> <p><b>SR EN 60204-1: 2007 - AC: 2013</b>  Safety of machinery  Electrical equipment of machines - Part 1: General requirements</p>
<p><b>Application</b></p>	<p>Controller for obstruction lights used for marking obstacles, such as: towers, buildings, antennas.</p>
<p><b>Product Code</b></p>	<p><b>AL - OBS - 20 - AX</b></p> <p>Series Indicator (Airfield Lighting) <b>AL</b></p> <p>Category (Obstruction Lighting) <b>OBS</b></p> <p>Product Indicator <b>20</b></p> <p style="padding-left: 40px;"><b>20</b> - Obstruction Light Controller</p> <p>Description of product type (accessory) <b>AX</b></p>

<p><b>Description</b></p>	<p><b>Housing</b> - powder-coated metal (gray)  <b>Cable gland</b> - nickel plated brass</p> <p>Device used to control medium and low intensity beacons.</p>
<p><b>Features</b></p>	<p>The cabinet is equipped with a photocell with 9 sensitivity levels (100lx - 900lx). The Sensitivity is set from a button on the front panel. The photocell is mounted on the front panel of the controller. Based on the photocell, the change is made from day mode to night mode and vice versa.</p> <p>The controller sends a radio synchronization signal to the beacons every 10 minutes or when switching from day mode to night mode (and vice-versa). Every 10 seconds, each beacon is interrogated; the beacon responds and sends back any operating errors (if present).</p> <p>The controller is equipped with a test button. By pressing this button you will switch from day mode to night mode (and vice-versa).The test takes about 10 seconds.</p>
<p><b>Front Panel Descriptions</b></p>	<p>The diagram illustrates the front panel layout of the Obstruction controller. At the top center is the LCD Display. Below it are the TWILIGHT SETTING button and the TEST button. Further down are four indicator lights labeled SENSOR, TEST, TWILIGHT SETTING, and FAILURE. A Photocell is located below the indicator lights. At the bottom right is the Mains power switch, which has OFF and ON positions. A battery symbol is shown on the left side of the panel.</p>

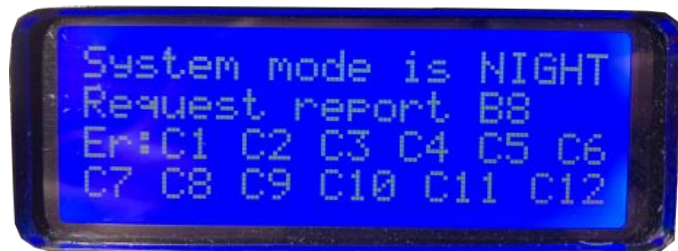
Errors

**Types of errors:**

**LED error** - occurs when the power supply or the LEDs fail. It is signaled through a message on the display (L XX).  
XX - the ID (number) of the faulty beacon.

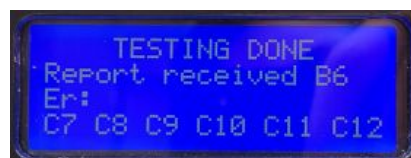


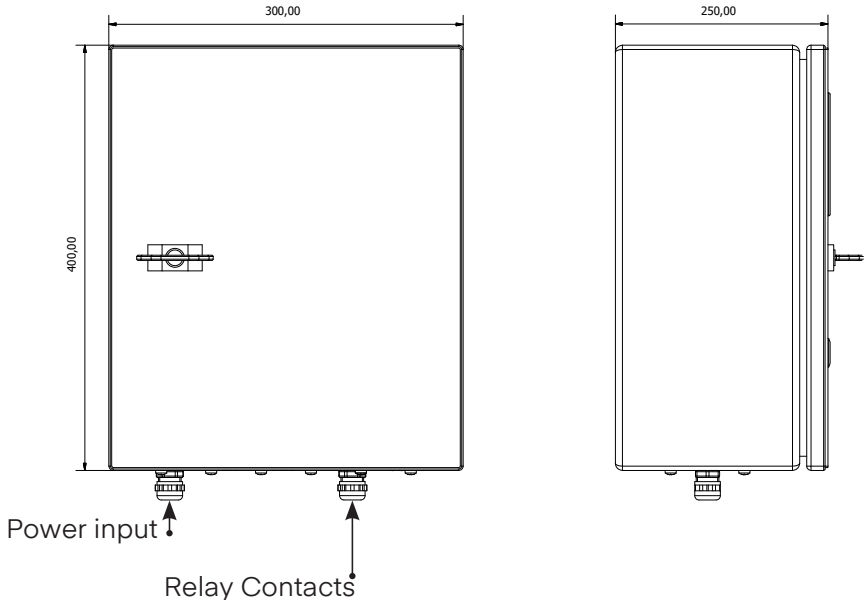
**Communication error** - occurs when a beacon does not answer 2 successive queries. It is signaled through a message on the display (C XX).  
XX- the ID (number) of the faulty beacon.



In case of an error, there is a relay that changes its state and the front panel LED is turned on. The relay contacts are for BMS (Building Management System ).

**Testing process**



<p><b>Environment</b></p>	<p><b>Temperature range:</b> - 40° to +55°  <b>Degree of protection:</b> IP 66</p>
<p><b>Mechanical Characteristics</b></p>	<p><b>Dimensions:</b> 400 × 300 × 250 mm      <b>Weight:</b> 5 kg</p> 
<p><b>Electrical Characteristics</b></p>	<p><b>Power supply</b>      110-240V, 50/60Hz</p> <p><b>Protections</b>      Over load  Over voltage  EMI filter  SPD protection</p>

**Accessory**

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