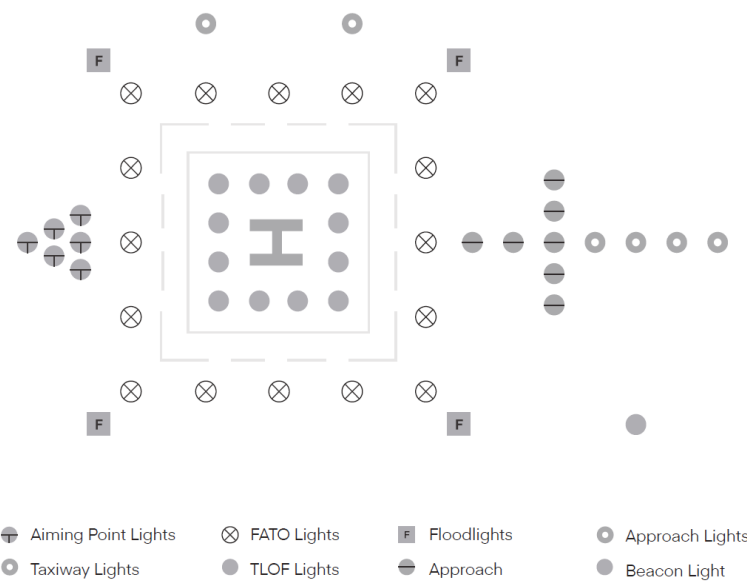
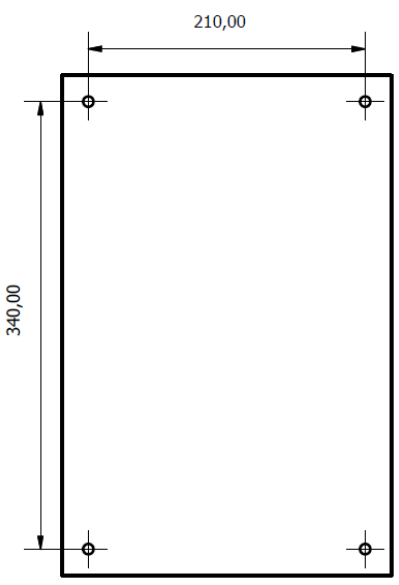


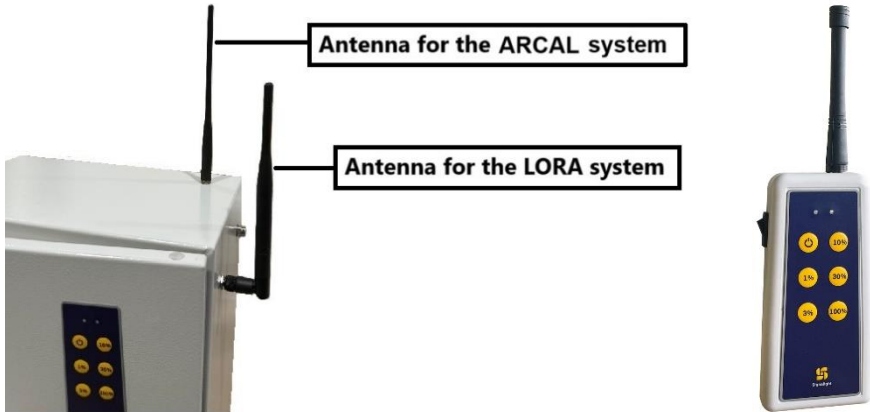
Radio Controller Air to Ground

For Polaris System



<p>Compliance to standards</p>	<p>FAA: AC-150/5345-49</p>
<p>Application</p>	<p>ARCAL (aircraft radio control of aerodrome lighting) is a system allowing pilots to turn ON the ground lights on desired brightness level.</p>  <p>The diagram illustrates a typical airport lighting layout. At the center is a runway with a 'T' symbol, surrounded by a grid of FATO (Final Approach and Touchdown) lights. To the left and right are taxiway lights. Floodlights are positioned at the corners. A series of approach lights leads to the runway, and a single beacon light is located at the bottom right. A legend below the diagram identifies the symbols for each light type.</p> <ul style="list-style-type: none"> ⊕ Aiming Point Lights ⊗ FATO Lights ⊠ Floodlights ○ Approach Lights ● Taxiway Lights ● TLOF Lights ● Approach ● Beacon Light
<p>Features</p>	<p>Designed and built with simplicity and ease of maintenance in mind.</p> <p>Functions:</p> <p>If the pilot clicks on the microphone 3 times in 5 seconds, the first relay will activate and the lamps will turn on at 10% brightness intensity.</p> <p>If the pilot clicks on the microphone 5 times in 5 seconds, the second relay will activate and the lamps will turn on at 30% brightness intensity.</p> <p>If the pilot clicks on the microphone 7 times in 5 seconds, the third relay will activate and the lamps will turn on at 100% brightness intensity.</p> <p>The three relays trigger the commands of the LORA radio remote control.</p>

<p>Product Code</p>	<p>AL -118 - AX - R</p> <p>Series Indicator (Airfield Lighting) AL Product Indicator 118 Description of product type (accessory) AX Radio POLARIS remote control R</p>
<p>Description</p>	<p>Housing - powder-coated metal (gray) Cable gland - nickel plated brass</p>
<p>Environment</p>	<p>Temperature range: - 100 to +550 Degree of protection: IP 65</p>
<p>Mounting</p>	<p>Mounting points 8mm at 4 locations</p>  <p>The controller must be mounted on a flat surface. In case of outdoor installation, IP protection must be ensured for fixing holes.</p>

<p>Mechanical Characteristics</p>	<p>Dimensions: 300 x 250 x 150 mm</p> <p>Weight: 4.8 kg</p>
<p>Electrical Characteristics</p>	<p>Power supply: 240V, 50Hz</p> <p>Protections: Short circuit Over load Over voltage</p>
<p>Local/Manual control</p>	<p>Local control</p> <p>The lights can also be controlled one way using a handled remote control.</p> <p>The remote control uses LORA technology and can be preconfigured at the factory to operate on one of the following frequencies: 868 MHz for Europe, 915 MHz for the United States, or optionally 433 MHz.</p> <p>The brightness of the lights can be adjusted to 1%, 3%, 10%, 30%, and 100% using the remote control.</p> <p>The range extends up to 10 km in direct line of sight under ideal conditions.</p> <p>For proper radio communication, there should be no obstacles between the antennas and the communication point.</p> 

Manual control

In addition to the commands from the ARCAL and LORA systems, the user can also control the system manually using the keypad integrated into the Radio Controller's door.

The brightness of the lights can be adjusted to 1%, 3%, 10%, 30%, and 100% using the keypad.

The black button turns the remote control on and off.



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