LED 110

Marine LED light for buoys and small beacons

LED 110 is a maintenance free short range LED lantern. Using latest high power LEDs, Sabik intelligent electronics and our specially designed efficient optics, we have been able to achieve an excellent performance for the lantern. LED 110 is produced of polycarbonate for durability and low weight.

- Range 4 nm at Tc = 0.74 (5 nm at Tc = 0.85)
- Standard IALA colours Red, Green, White and Yellow
- Produced of durable polycarbonate plastic
- Integrated flasher with day-night switch
- Internal calendar, light can be switched off for winter
- Adjustable intensity and range
- Vertical divergence 8° @ 50% [±1°] of peak intensity
- Programming with a wireless Sabik PDA Programmer or with a PC/USB interface
- Integrated event log (Black box function) for 365 days
- Optionally integrated GPS synchronization
- Optionally integrated GSM remote monitoring

Lens
Bird deterrent top design.

Optical lens
New efficient omnidirectional lens.

PDA Programmer
Wireless two-way communication using a Windows based PDA programmer.

Programming with PC
Using Sabik USB interface.

Cable entry
From side or bottom of the lantern.

Sabik Easy Programmer
User friendly and compact wireless two-way programmer.

Installation
The bottom plate of the SC 110 supports installation on structure using 3 or 4 x M12 on a 200 mm radius or 3 x M8 on a 150 mm radius.

PTFE breathing
Vent for pressure release in the bottom of the lantern.

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Technical Specification LED 110

Main Technical Specification

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Lens visual/Mechanical diameter</td>
<td>166 mm</td>
</tr>
<tr>
<td>Lens material</td>
<td>UV stabilized Polycarbonate</td>
</tr>
<tr>
<td>Body material</td>
<td>UV stabilized Polycarbonate</td>
</tr>
<tr>
<td>Light source</td>
<td>High Power Light Emitting Diode (LED)</td>
</tr>
<tr>
<td>Vertical divergence</td>
<td>8° @ 50% (±1°) of peak intensity</td>
</tr>
<tr>
<td>Unit lifetime</td>
<td>Up to 10 years</td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40°…+60°C</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 67</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>9 – 30 VDC</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Max 1,3 watt</td>
</tr>
</tbody>
</table>

Optical performance

<table>
<thead>
<tr>
<th>Maximum fixed intensity</th>
<th>LED 110</th>
<th>30 cd</th>
<th>30 cd</th>
<th>50 cd</th>
<th>30 cd</th>
</tr>
</thead>
<tbody>
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<td></td>
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</table>

Order Overview LED 110

Option matrix

- LightGuard GSM: Integrated GSM based monitoring including GSM antenna
- LightGuard GSM + GPS: Integrated GSM based monitoring including GSM/GPS antennas
- GPS sync: Integrated GPS sync only unit including GPS antenna
- Optical Feedback System: Integrated LED performance measurement
- Shock & Tilt Sensor: Integrated 3-axis G sensor for tilt and shock sensing

Product codes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 110 WW</td>
<td>white</td>
</tr>
<tr>
<td>LED 110 WR</td>
<td>red</td>
</tr>
<tr>
<td>LED 110 WG</td>
<td>green</td>
</tr>
<tr>
<td>LED 110 WY</td>
<td>yellow</td>
</tr>
</tbody>
</table>