

## **VLB-92**

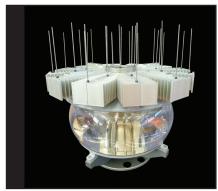
13NM - 22NM @ 0.74T

The VLB-92 is state of the art long range LED beacon. It is intended for applications requiring very high intensity.

Depending on the configuration, the beacon is able to produce a range from 13-22NM at a transmissivity of 0.74T.

- Effective intensity settings (5,800-240,000cd)
- Day/night transition level settings (40-250 lux range)
- Programmable flash characters, including IALA recommended characters
- Programmable custom character
- Synchronisation control including master/slave options and sync delay
- Synchronising delay can be set from 0 to 9.9 seconds
- · Low voltage cut-out setting
- Optional security code







#### **Monitoring**

- Using the VegaWeb internet monitoring unit via the data connector
- Using the AIS Aton transponder
- Using the hardwire data connections to third party transponder



## **Functionaltity and Features VLB-92**

#### **About the VLB-92**

The VLB-92 is Sabik Marine's brightest all-round beacon. It is ideally suited to replace incandescent beacons used as landfall lights.

The LEDs are connected with redundancy in mind. If one LED malfunctions, the remaining LEDs will continue with only a slight localised reduction in intensity, but the beacon will still be within specification.

The core strength of the VLB-92 is that it can sustain an output of 80,000cd per tier on a fixed character (up to 50°C outside temperature). This is due to a large heatsink, efficient optics and high performance LED driver.

The VLB-92 also has automatic Schmidt-Clausen correction to ensure short flashes are still visible at the required range.

#### **Features**

- RS232 or RS485 Data Port for monitoring and software configuration
- Optional integrated GPS Synchronization using the VSU-29 GPS Sync Unit
- Beacon alarm output
- ON/OFF control inputs
- ON/OFF status output
- Hardwire synchronisation

#### **Standards**

**Electromagnetic Interference**: EN55015:2006; 2007:Amd1; 2009: Amd2 radiated

**Emissions**: EN61000-4-2:2008 Electrostatic Discharge Immunity: Level 4. EN61000-4-3: 2006 +A1: 2007, +A2 2010 Radiated

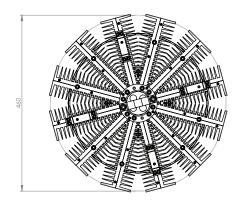
**Immunity:** Class 1. EN6100-4.5:2005 Class 3 Surge Immunity, 0.5kV lead-to-lead.

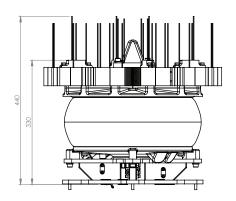
**Shock**: MIL-STD-202G, Method 213B, Cond H.10g shock vertical and 35g horizontal

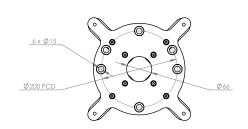
**Vibration:** MIL-STD-202G, Method 204D Cond B 2g peak.

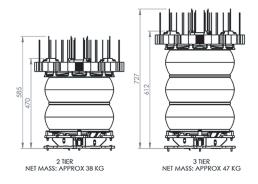


# **Technical Specification VLB-92**





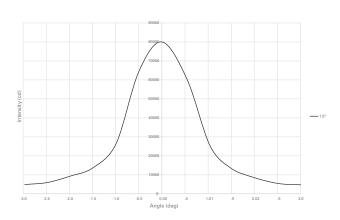




### **Optical Performance**

Maximum intensity	240000cd
Light source	96 LEDs per tier
Colours	White
Effective intensity	Multiple level day and night Automatic Schmidt-Clausen correction
Vertical divergence	±0.8° @ 50% peak intensity ±1.6° @ 10% peak intensity
Horizontal divergence	360° (IALA Rec E-200-3)
Flash Character	246 standard characters + 1 custom 20 factory set custom characters

### **Vertical profile**





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Body	Anodised marine grade aluminium
Lens	Machined cast acrylic
Bird spike	28 spikes, 316 stainless steel
Base	2 part painted cast marine grade aluminium

#### **Environmental**

Degree of Protection	IP68 1.5m, 30min
Temperature	-30°C to 50°C
Salt	Continuous exposure to salt water and spray
Ice loading	20kg/m2 on external surface
Wind	200kph

#### **Electrical performance**

Voltage	24V nominal, 20 - 36VDC
Protection	Short circuit/reverse polarity
Transient voltage	500V-200A surges
Standby Current	50mA per unit @ 24V 100 mA @ 12V
Overheat protection	Beacon enters protection mode with reduced light intensity
Day/Night transition	3 photo sensors, 9 program settings Accuracy of sensor ±20 lux
Input/Output	Override On/Off >=60 VDC input Max sink-current 1.6mA

## **Order Overview VLB-92**

### **Option matrix**

VSU-29	GPS sync
REMOTE-02	Infrared remote

#### **Product code**

<b>Code</b> VLB-92-W-1.6-24-Y	Note
Y	Tiers