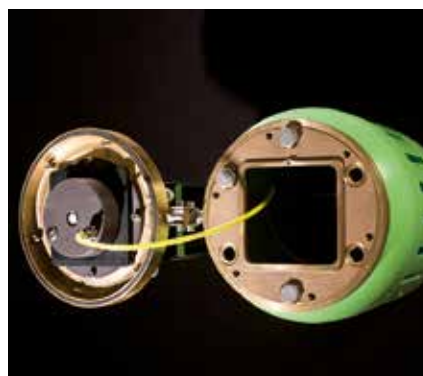


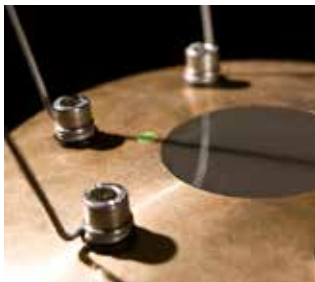
## MPV LED

Heavy duty ice buoy  
LED lantern

The MPV LED is a LED lantern designed to be used in most severe ice conditions, and is capable of surviving the crushing pressure and dynamic forces of ice in winter conditions.

- Rugged bronze alloy housing for installation in harsh marine environments
- Designed to be fully water proof – can withstand submersion down to 100 meters
- Integrates firmly into buoy top – presents a very low profile to lateral forces from ice
- Enables battery replacement through lantern without removing the lantern from buoy
- Visual range from 2 to 6 NM (Tc = 0,74)
- Standard IALA colours Red, Green, White and Yellow
- Extremely low power consumption; ideal for primary battery operation
- Integrated flasher with day light switch
- Adjustable intensity and range
- Programmable with Sabik standard IR programming devices
- Integrated 365 day event log
- Optionally integrated GPS synchronization
- Optionally integrated GSM Remote monitoring





**Bird spikes**  
Stainless steel as standard.  
Easy to replace.



**Hinged**  
The primary battery can be changed easily as hinged flanges allow the lantern to open safely in sea conditions. The lantern acts as the waterproof door to the battery cabin.



**Bronze Alloy**  
The special bronze alloy is corrosion resistant and will survive continuous abuse from moving ice blocks.



**Polycarbonate lens**  
The low profile optical lens is designed to give minimum exposure to ice forces and is supported by the lantern structure sufficient to protect the unit in arctic conditions.



**GPS**  
GPS unit and antenna integrated in the lantern for wireless synchronization and for position monitoring. The integrated GPS antenna is moulded and survives ice pressure.



**GSM**  
GSM unit and antenna integrated in the lantern for remote monitoring and control. For more information please see the LightGuard Section.



**Additional cable entry**  
Equipped as standard with two cable entries. If the second entry is needed e.g. for a solar module, a standard M20 cable gland can be fitted.



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

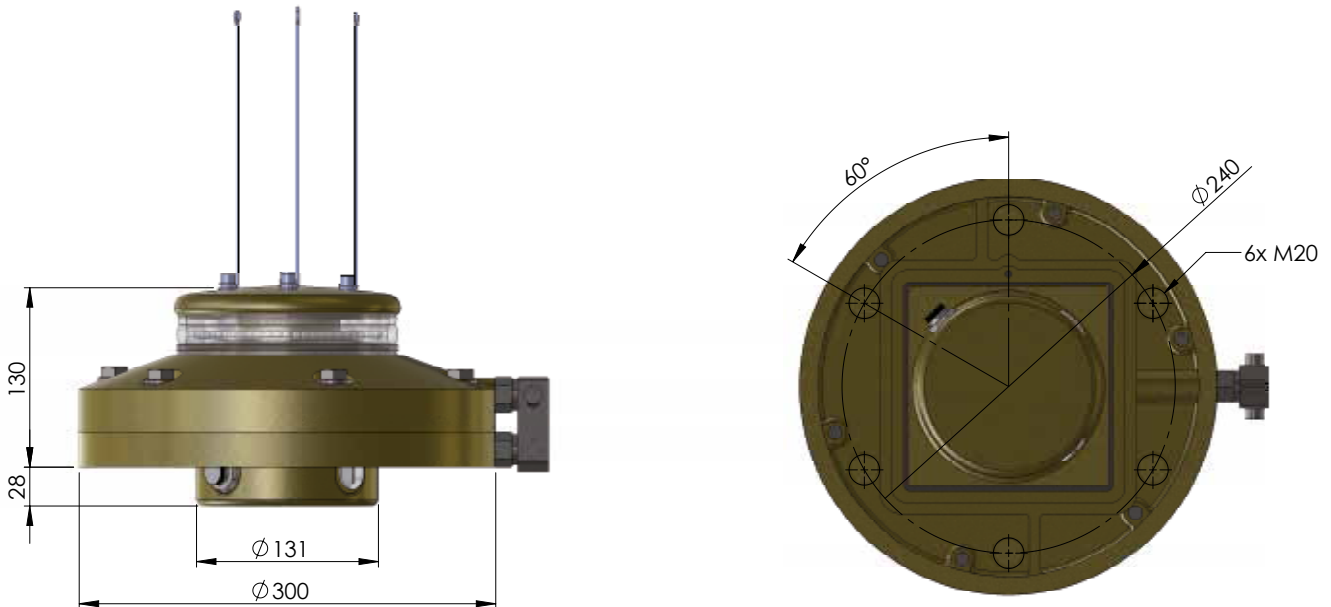


**Installation**  
The lantern is integrated with the buoy top for maximum support against lateral forces.



**OFBS**  
The Optical Feedback System (OFBS) enables built-in monitoring of LED degradation over time.

## Technical Specification MPV LED



### Optical performance

#### Maximum fixed intensity

At full power 6 W **120 cd**      **160 cd**      **240 cd**      **120 cd**

### Main Technical Specification

<b>Lens visual/Mechanical diameter</b>	160 mm
<b>Lens material</b>	UV stabilized Polycarbonate
<b>Light source</b>	Light Emitting Diodes (LEDs)
<b>Vertical divergence (wide lens)</b>	10° @ 50% (±1°) of peak intensity 20° @ 10% (±2°) of peak intensity
<b>Unit lifetime</b>	Up to 10 years
<b>Weight</b>	25 kg
<b>Temperature range</b>	-40°...+60°C
<b>Supply Voltage</b>	10 – 32 VDC
<b>Solar Panel Charger</b>	16 ampere PWM charger
<b>Power consumption</b>	6 watts
<b>Degree of protection</b>	IP 68

## Order Overview MPV LED

### Option matrix

<b>OPT 1: Optical Feedback System</b>	Integrated LED performance measurement
<b>OPT 4: GPS sync</b>	Integrated GPS sync including GPS antenna
<b>OPT 9: LightGuard GSM + GPS</b>	Integrated GSM based monitoring including GSM/GPS antennas
<b>OPT 10: LightGuard GSM</b>	Integrated GSM based monitoring including GSM antenna
<b>OPT 11: Control card</b>	Control card for secondary battery
<b>OPT 12: Aux card with I/O</b>	Aux card including I/O ports
<b>OPT 13: Aux card with RS485 and I/O</b>	Aux card including RS 485 and I/O port
<b>Shock &amp; Tilt Sensor</b>	Integrated 3-axis G sensor for tilt and shock sensing

W = Wide (10° @ 50 % of peak intensity)

<b>Red</b>	MPV LED1WR	H = with hinge
<b>Yellow</b>	MPV LED1WY	J = without hinge
<b>Green</b>	MPV LED1WG	
<b>White</b>	MPV LED1WW	

### Product code example: MPV LED1WG.4

- **MPV LED1** is Sabik code for a MPV LED
- **WG** is the code for a wide lens in green
- **4** is a selection of option 4 GPS synchronization