Marine Lanterns

LED 155

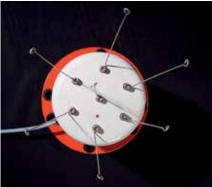
Marine LED lantern for buoys and minor beacons

LED 155 is a general purpose LED lantern commonly used on both fixed and floating structures. The lantern is modular in design. It can be configured with two different vertical divergencies and 1-3 tiers depending on operational requirements.

- Range up to 8 NM at Tc = 0,74 (12 NM at Tc = 0,85)
- Standard IALA colours Red, Green, White, Yellow and Blue/Yellow
- Rugged aluminium housing for installation in harsh marine environments
- Extremely low power consumption, suitable for solar and battery operation
- Integrated flasher with day-night switch
- Integrated 16A solar panel charger using pulse width modulation
- Adjustable intensity and range
- Available with narrow (6°) or wide (10°) vertical divergence
- Programmable with Sabik
 standard IR programming devices
- Integrated event log for 365 days
- Optionally integrated
 GPS synchronization
- Optionally integrated
 GSM Remote monitoring





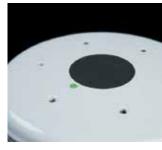






Bird spikes

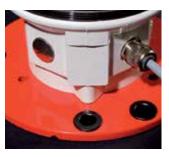
Stainless steel as standard. Easy to replace. Special spikes for protection against cormorants and other large birds on request.



GPS GPS unit and antenna integrated in the lantern for wireless synchronization and for position monitoring.



Light Guard GSM GSM unit and antenna integrated in the lantern for remote monitoring and control.



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 bottom plate supports installation on structure with 3 x M12 bolts on a 200 mm diameter. The mounting holes are galvanic isolated with plastic isolators. PTFE breathing vent for pressure release.



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



Simplex



Duplex

Red



Triplex







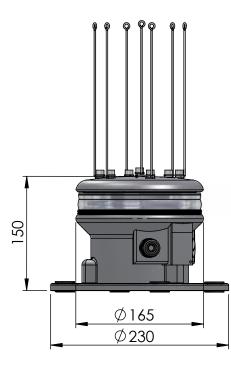
Green

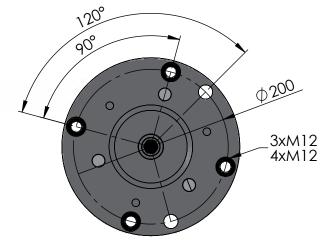


Yellow

Marine Lanterns

Technical Specification LED 155





Optical performance LED 155

Maximum fixed intensity, narrow lens (fixed structures)						
Simplex, 6 W	140 cd	240 cd	420 cd	200 cd		
Duplex, 12 W	266 cd	513 cd	720 cd	380 cd		
Triplex, 18 W	392 cd	756 cd	1080 cd	560 cd		

Maximum fixed intensity, wide lens (floating structures)						
Simplex, 6 W	120 cd	160 cd	250 cd	100 cd		
Duplex, 12 W	228 cd	342 cd	450 cd	190 cd		
Triplex, 18 W	336 cd	504 cd	675 cd	280 cd		

Optical performance LED 155 B/Y

Maximum fixed intensity					
Nominal 5 W	45 cd	45 cd			

Main Technical Specification LED 155

Lens visual/Mechanical diameter	160 mm		
Lens material	UV stabilized Polycarbonate		
Light source	Light Emitting Diodes (LEDs)		
Vertical divergence	6° or 10° @ 50% (±1°) and 10° or 20° @ 10% (±2°) of peak intensity		
Unit lifetime	Up to 10 years		
Veight	3,9 kg for single tier unit		
emperature range	-40°+60°C		
Supply Voltage	10– 32 VDC		
Solar Panel Charger	16 ampere PWM charger		
Power consumption	Max 6 watts / tier		
Degree of protection	IP68		

Main Technical Specification LED 155 B/Y

Lens visual/Mechanical diameter	160 mm		
Lens material	UV stabilized Polycarbonate		
Light source	Light Emitting Diodes (LEDs)		
Vertical divergence	10° @ 50 % (± 1°) of peak intensity		
Unit lifetime	Up to 10 years		
Weight	4,2 kg		
Temperature range	-40°+60°C		
Supply Voltage	10 – 32 VDC		
Power consumption	Max 6 watts		



Order Overview LED 155

Option matrix

OPT 1: Optical Feedback System	Integrated LED performance measurement		
OPT 4: GPS sync	Integrated GPS sync including GPS antenna		
OPT 7: External GPS	External GPS antenna		
OPT 9: LightGuard GSM + GPS	Integrated GSM based monitoring including GSM/GPS antennas		
OPT 10: LightGuard GSM	Integrated GSM based monitoring including GSM antenna		
OPT 11: Control card	Control card for secondary battery		
OPT 12: Aux card with I/O	Aux card including I/O ports		
OPT 13: Aux card with RS485 and I/O	Aux card including RS 485 and I/O port		
Shock & Tilt Sensor	Integrated 3-axis G sensor for tilt and shock sensing		

N = Narrow (6° @ 50 % of peak intensity) single tier (standard)		Two tiers (duplex)		Three tiers (triplex)	
Yellow	LED 155 1NY	Yellow	LED 155 2NY	Yellow	LED 155 3NY
Green	LED 155 1NG	Green	LED 155 2NG	Green	LED 155 3NG
White	LED 155 1NW	White	LED 155 2NW	White	LED 155 3NW

W = Wide (10° @ 50 % of peak intensity) single tier (standard)		Two tiers (duplex)		Three tiers (triplex)	
Yellow	LED 155 1WY	Yellow	LED 155 2WY	Yellow	LED 155 3WY
Green	LED 155 1WG	Green	LED 155 2WG	Green	LED 155 3WG
White	LED 155 1WW	White	LED 155 2WW	White	LED 155 3WW

Product code example: LED 155-3NROPT9

- LED 155 3 is Sabik code for a three-tier LED 155
- NR is the code for a Narrow Red lens with a selection of option 9 GSM monitoring together with GSM/GPS antennas

Order Overview LED 155 B/Y

Wreck marking lantern blue/yellow

Option matrix

OPT 4: GPS sync

GPS Synchro unit with GPS antenna integrated in the top of the lantern