



Class A, B and C compliant in accordance with USCG 8th District, CFR 33 Part 67 for artificial island and structures; and CFR 33 Part 66 for 3 and 5-mile private navigation aids.



OVERVIEW

The PMAPI-NS35 is a 3 - 5NM weather-protected marine lantern with a high intensity LED light source that can be combined with optional GPS synchronization and External IO port

- LEDs on a protected metal core PCB for maximum useful life
- Flexible electronic configurations
- Use on offshore platforms, port and harbor, aquaculture, fixed or floating structures

KEY FEATURES

- **Rugged, weather-resistant construction materials:** High impact resistant polycarbonate for ice, ultraviolet exposure, salt air and seawater spray at a wide range of ambient temperatures
- **High intensity, energy efficient fan beam LED array:** Maximum visible range up to 6NM at 0.85T pending flash character in optimal conditions
- **IR Remote:** Powering on & off, set / retrieve configuration parameters such as flash pattern, effective intensity, day/night control, etc.
- **IALA approved colors:** Single color LED engine - white, yellow, red or green
- **Integrated bird deterrent:** No additional accessories required
- **Longevity** - Estimated average service life of 10 years

PERFORMANCE FEATURES

- **Intensity control:** Effective lantern intensity set on Schmidt-Clausen method
- **Flash character control:** 256 programmable flash characters and 2 custom flash characters
- **Day/Night transition level settings:** Programmable for active at all times or only after sunset. Day / Night level settings (sunset / sunrise transition) can be field programmed
- **Calendar control** - Programmable season on/off date
- **Input protection** - Lantern power input is reversed polarity protected for field repair
- **Ripple delay** - 0.05 to 12.7 seconds & master/slave sync options
- **Storage mode** - Automatic storage mode with adjustable automatic wake up
- **Programmable sleep and test modes**
- **Dynamic compensation circuitry for the candela low output, based on internal temperature, LED flash duration and LED color, to always keep the same programmed output intensity**

OPTIONAL FEATURES

- **GPS Synchronisation:** Optional internally mounted hardware will allow the lantern to flash in-sync with other PMAPI and third party lanterns that are GPS synced
- **External I/O port:** Allows connection to an external monitoring device or for hardwired synchronisation to other lanterns

OPTICAL CHARACTERISTICS

LED Color	WHITE	YELLOW	RED	GREEN
Light source	12 White LEDs	12 Yellow LEDs	12 Red LEDs	12 Green LEDs
Visible range (NM) ¹	3 - 5	3 - 5	3 - 5	3 - 5
Effective intensity range (cd) ²	10 - 77	10 - 77 ³	10 - 77	10 - 77
Horizontal divergence	360°	360°	360°	360°
Vertical divergence at 50% intensity	7°	7°	7°	7°
Peak intensity (cd)	325	130	325	325

Notes:

¹ Visible range based on IALA standards at atmospheric transmissivity of 0.74

² Effective intensity computed from Blondel Rey method

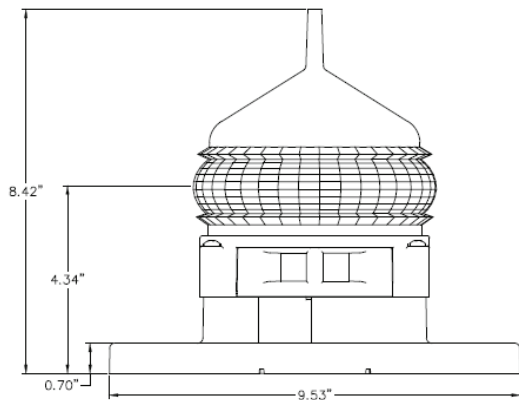
³ Maximum Effective Intensity limited by ambient temperature and flash length.

PHYSICAL SPECIFICATIONS

Operating temperature range (°C)	-30°C to +50°C
Operation humidity (%)	100
IP Rating	IP68*
Body material	UV stabilized polycarbonate
Lens material	Acrylic
Mounting	3 - 4 hole, Ø 200mm

DIMENSIONS

Width (mm / in)	242mm / 9.53"			
Depth (mm / in)	242mm / 9.53"			
Height (mm/in)	NS35 214 mm / 8.42 in			
Weight (kg/lb)	1.18 kg / 2.6 lb			



STANDARDS

EMI/EMC	EN55015:2013 radiated and conducted emissions* EN61547:2009 Immunity FCC 47 CFR Section 15 Class A*
Optical Test	IALA Recommendation E-122 (2001) and E-200-3 Part 3 (2008)
Colour	IALA Recommendation E-200-1 Part 1
Daylight	IALA Recommendation 1038
Power Supply	IEC60945 Section 7 normal and peak voltage, and reverse polarity protection
Ingress	IP68 to IEC60529
Shock	MIL-STD-202G Method 213B Cond H*
Vibration	MIL-STD-202G Method 204D Cond B*
Immersion	MIL-STD-202G Method 104A Cond B withstands immersion to 1m depth*

ORDERING

Catalog number scheme: PMAPI-NS35-DC-C-XX

C = Colour (G = Green, R = Red, W = White, Y = Yellow)

G = Green

R = Red

W = White

Y = Yellow

XX = Options:

00 = No Options

01 = GPS

02 = GPS and External IO

03 = External IO

Example: PMAPI-NS35-DC-G-02 = 12VDC External Power, Green with GPS and External IO

PMIR-1 = IR Remote

**All values are subject to change without notice.*