

BROCHURE

NS SERIES BRIDGE LIGHT

Medium Intensity LED Bridge Light 4 NM at 0.74T | 4.8 NM at 0.85T

OVERVIEW

The NS SERIES BRIDGE LIGHT is the new standard in LED bridge lighting for marking channels, obstructions and safe passage of bridges over navigable waters throughout the USA. The LEDs are on a protected metal core PCB for maximum useful life with flexible electronic configuration. Use as Green Channel Center, 180° Red Channel Margin, and White Channel Main lights.

KEY FEATURES

- AC/DC input: 120-240 VAC or 12-24 VDC input options
- Sectored lens: 180° form fitting sectored lens (Optional)
- Zero condensation: designed specifically for inversion with strategically placed vent
- 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 4NM at 0.74T
- IR Remote: Powering on & off, set / retrieve configuration parameters such as flash pattern, effective intensity, day/night control, etc.
- USCG approved colors: Single color LED engine Red, Green or White
- Longevity Estimated average service life of 10 years

PERFORMANCE FEATURES

- Intensity control: Effective lantern intensity set on Schmidt-Clausen method
- 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
- 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

 External I/O port: Allows connection to an external monitoring device or for hardwired synchronization to other lanterns

SWING ARM ASSEMBLIES

- Customized to meet customer requirements
- Available in aluminum, anodized aluminum or galvanized steel
- Includes locking mechanism for easy maintenance
- Includes customer choice of NEMA 4X junction boxes or rigid metal conduit boxes

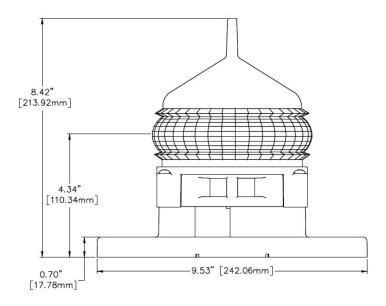


PHYSICAL SPECIFICATIONS				
Width	242mm / 9.53"			
Depth	242mm / 9.53"			
Height	214 mm / 8.42 in			
Weight	1.18 kg / 2.6 lb			
Operating Temperature Range	-30°C to +°50C			
Operating Humidity	100			
IP Rating	IP68*			
Body Material	UV stabilized polycarbonate			
Lens Material	Acrylic			
Mounting	3 - 4 hole, Ø 200mm			

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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*			
Vibrating	MIL-STD-202G Method 204D Cond B*			
Immersion	MIL-STD-202G Method 104A Cond B withstands immersion to 1m depth*			
Ice	Standard			

OPTICAL CHARACTERISTICS					
LED Color	White	Red	Green		
Light Source	12 White LEDs	12 Red LEDs	12 Green LEDs		
Visible Range (NM) ¹	4	4	4		
Effective Intensity Range	10 - 151³	10 - 151³	10 - 151³		
Horizontal Divergence	180° or 360°	180° or 360°	180° or 360°		
Vertical Divergence (at 50% intensity)	10°	10°	10°		
Peak Intensity	32	32	32		

 $^{1}\mbox{V}$ is ible range based on IALA standards at atmospheric transitivity of 0.74



IALA Recommendation 0-113 and USCG 33 CFR 118 Approved. Lights required by the regulations shall be of sufficient candlepower as to be visible against the background lighting at a distance of at least 2,000 yards on 90 percent of the nights of the year. They are located as prescribed, with colors and arcs of visibility as specified.





² Effective intensity computed from Blondel Rey method

³ Maximum Effective Intensity limited by ambient temperature and flash length