

PR-50 LED

Medium Intensity

LED LEADING LIGHT

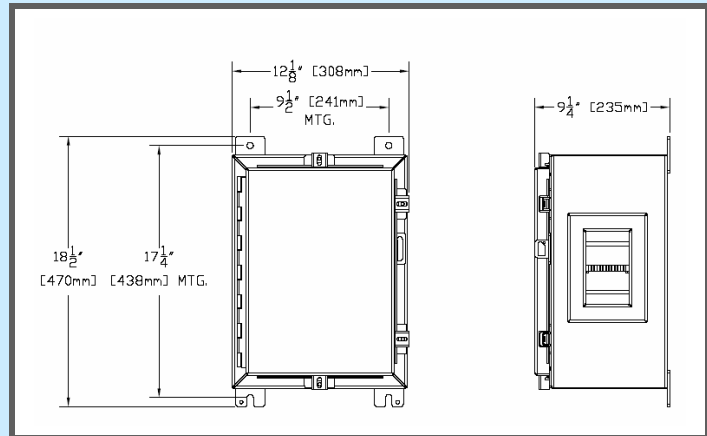


The PR-50 LED is a medium intensity, directional, signaling lantern suitable for leading lights and multicolor port traffic signaling systems intended to operate as both nighttime and daytime signals.

The key advantage of the PR-50 LED is ability to obtain several years of unattended operation utilizing newly developed LED technology.

The PR-50 LED features high flux LED's mounted at the focal point of a stainless parabolic reflector with a specialized dichroic hybrid spectral metal coating. The LED's are mounted on metal core PCB located at the focal point of the mirror. A **patented** passive heat pipe cooling system transports the heat away from the LED's and into the reflector housing. Housed in a weatherproof stainless steel enclosure, groups of reflectors are stacked to optimize optical performance. The array system is driven by highly efficient proprietary electronics. The PR-50 LED control electronics, enclosed in a weatherproof fiberglass housing mounted on the side of the beacon, provides flash control, current limiting to the LED, photocell input, and synchronization terminal. The controller has a nominal input of 12 Volts DC. 24 VDC and 120-240 VAC 50-60 HZ input voltages are optional.

Beacon dimensions are 470 mm x 308 mm x 235 mm. Shipping Weight is 20 KG.



The PR-50LED Beacon is optimized to project a high intensity, 30-degree, horizontal beam. Vertical divergence is 2.4 degrees.

Using direct emitting colored LED technology, the PR-50 LED is able to generate colored signals with exceptional ranges. A total of 35 watts of LED arrays may be mounted in the housing.

Photometric Data

LED POWER	BLUE	AMBER	GREEN	RED	WHITE
10 WATT	640	1140	1600	1140	2280
20 WATT	1285	2280	3200	2280	4560
35 WATT	2250	4000	5600	4000	8000

Patent No.: US 7,461,952

FORM 040910

