

PR-500 TRAFFIC CONTROL SIGNAL



The PR-500 Beacon is a highly polished anodized aluminum parabolic reflector mounted in a weatherproof anodized aluminum enclosure. The reflector is optimized for linear halogen lamps to project a high intensity, 180 degree, horizontal beam. Horizontal divergence is " 45 degrees to 50% of peak intensity. Vertical divergence is 2.4 degrees.

The PR-500 is supplied with 2000-hour quartz halogen lamps mounted in a two-place automatic lampchanger making it possible to obtain one year of unattended operation.

When equipped with two linear 1500 watt lamps, a single PR-500 has a maximum nighttime range of 25 nautical miles and a daytime range of 7 miles.

Each beacon is furnished with an automatic two place lampchanger. Optional controls include solid state flasher, daylight control, lampout monitoring, remote control, hardwired and Uniflash®-II wireless synchronizing system, and screens to provide red, green or yellow color selection. The controller with flasher, monitor circuits, and daylight control are located in a fiberglass housing and mounted on the side of the beacon. The PR-500 does not require a lantern house.

IALA, IAPH, and PIANC have established a uniform system of port traffic signals to direct ship movements in a seaport. Only lights are used for the signals. In all cases, the Main Message is sent by three lights arranged vertically. Exemption and Auxiliary Messages, if required, are displayed to the left and right of the Main Message respectively. Special attention is drawn to the Serious Emergency signal by flashing the all-red display. All other signals are either fixed or slowly occulting (but not both) .

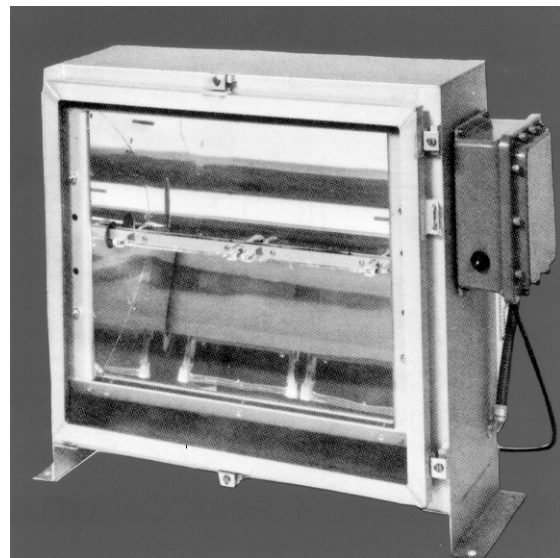
The PR-500 is easily adapted to this traffic control system. In a typical port traffic signal

configuration, the PR-500 has two sets of remotely controlled louvers(one red, one green). With both sets of louvers horizontal, the PR-500 shows a white light. Consequently a single PR500 can perform the function of three different colored lights both fixed and flashing.

PHOTOMETRIC DATA

LAMP WATTAGE	CANDELA
Two 150 WATT	35,000
Two 300 WATT	85,000
Two 400 Watt	175,000
Two 500 Watt	250,000
Two 1000 Watt	550,000
Two 1500 Watt	830,000

Color filter factor for red and green are 0.25 and yellow is 0.65. Minimum recommended flash length is one second. 1500 watts maximum power for clear lens without venting. 800 watts maximum power for colored lens without venting.



PR-500 BEACON

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