

PRB - 21 SEALED BEAM LAMP ARRAY

Where mains electricity is available the PRB-21 revolving sealed beam lamp arrays provide a major light of up to 26 nautical miles range.

Where a light of very high intensity is needed but mains electricity is not available, it is necessary to install small automatic diesel generator sets in duplicate, or triplicate configuration.

PRB-21 LAMP ARRAY

Panels of lamps can be supplied to provide many flashing characters.

(e.g. fl5, fl10, fl15, fl120 sec: fl(2)10, fl(2)20: fl(3)20: fl(4)20 sec: fl(2+1)20, fl(3+1)20etc).

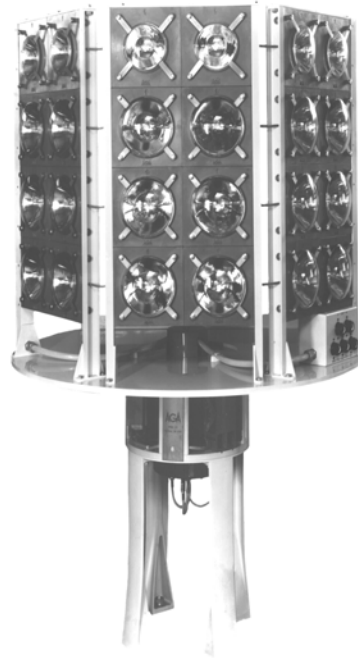
FEATURES

The number of service lamps in a panel determines the intensity of the flash

The speed of rotation of the array of panels determines the length of flash and influences the effective beam intensity

Lamps arranged so that if one fails, the complete array is not extinguished but operates at reduced intensity

Lamps normally operate at 28volts whereby a life of 1000 hours is provided, but can be reduced to 25 volts providing an extended burning life in excess of 2000 hours



It is usual to fit low power battery operated lamps to each panel to provide reduced range back up during periods of mains failure. The battery is normally sized to provide one or two nights reserve supply for these lamps

The battery is maintained from the station's power supply by an automatic battery charger

Photo-electric daylight control

Pharos Marine  **Automatic Power**

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PRB-21 SPECIFICATIONS

LUMINOUS RANGE TABLE*								
Panel plans	Service lamps per panel (28 volts)	Total power watts	Stationary intensity	Luminous range T=0.74				
				5 secs	10 secs	15 secs	20 secs	30 secs
1	4	720	960,000	0.13	0.25	0.38	0.5	0.75
	6	1060	1,440,00	22.2	23.3	23.8	24.1	24.4
	8	1440	1,920,000	23.2	24.3	24.9	25.1	25.5
	10	1800	2,400,000	24.0	25.1	25.6	25.9	26.2
	12	2160	2,880,000	24.6	25.7	26.2	26.3	26.9
	16	2860	3,840,000	25.1	26.1	26.7	27.0	27.4
				25.8	26.9	27.5	27.8	28.1
				5 secs 0.25	10 secs 0.5	15 secs 0.75	20 secs 1.0	30 secs 1.5
2	4	1440	960,000	23.3	24.1	24.4	24.6	24.9
	6	2160	1,440,000	24.3	25.1	25.5	25.7	25.9
	8	2860	1,920,000	25.1	25.9	26.2	26.4	26.7
	10	3600	2,400,000	25.7	26.3	26.9	27.1	27.3
	12	4320	2,880,000	26.1	27.0	27.4	27.6	27.8
	16	5760	3,840,000	26.9	27.8	28.1	28.3	28.5
	Reserve (6 volts)			5 secs 0.11	10 secs 0.22	15 secs 0.33	20 secs 0.44	30 secs 0.66
As 1 above	1	34	80,000	15.8	16.9	17.4	17.7	18.1
	2	62	160,000	17.4	18.5	19.1	19.4	19.8
	4	119	320,000	19.1	20.2	20.9	21.1	21.5
				5 secs 0.22	10 secs 0.44	15 secs 0.66	20 secs 0.89	30 secs 1.33
As 2 above	1	62	80,000	16.9	17.7	18.1	18.3	18.5
	2	119	160,000	18.5	19.4	19.8	20.0	20.2
	4	233	320,000	0.2	21.1	21.5	21.7	21.9

Power stated for reserve lamps includes 5 watts for pedestal rotation

Range figures include 10% reduction for glazing losses

** The above intensity and range figures are for reference only. Please consult Pharos Marine for your particular requirements.*