PELANGI

SECTOR LIGHT PEL3 and PEL6

PEL3 (25 degree) Sector Light

Sector light units in the series:

Horizontal total cover available as 3.5, 5.0, 7.5, 10.0, 15.0, 20.0 or 25.0 degrees. Note that as the width of beam increases the intensity will be reduced.

Mounting details for all PEL3 models:

3 x 10mm holes on 285mm P.C.D. as shown.

PEL6 (10 degree) Sector Light

Units in the series:

Horizontal total cover available as 3.5, 5.0, 7.5, 10.0, 15.0, 20.0 or 25.0 degrees. Note that as the width of beam increases the intensity will be reduced.

Mounting details:

Twin foot each with slotted holes as per drawing for each model with fine adjuster for accurate alignment (see drawing).

The PEL series of high precision sectored lanterns supplied for channel marking and leading line approaches where a single station is required due to space restrictions.

- Typical changeover between colour sectors at one mile 300mm or better gives extremely good channel definition.
- Colour sectors can be defined in minutes or seconds of arc if required at no extra cost.
- Wide range of prefocus, tungsten halogen or M36 halogen available to suit intensities required.
- Selection of 6 place lampchangers are available to suit the high steady burning duties.
- Phosphor bronze castings finished in high build epoxy powder provide long life and resistance against marine environment.
- All external brackets and fixings in 316 stainless steel.
- All internal brackets in chromium plated brass for longevity.

Optional extras include:

- White sector can be provided as original, 3 times brighter than coloured sectors or neutral density filter can be inserted to make all sectors appear the same.
- Colour sectors can be subdivided with oscillating boundaries to give the approaching mariner a feel for where he is within the sector.
- High intensity PEL6 can be fitted with an automatic night dimming filter which drops into place for night use, if full brilliance is being used during the day.
- Synchronising control panel can be provided if PEL is to be used with another lantern or optic.

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SECTOR LIGHT:Intensities PEL3 and PEL6

PEL-3 Peak Intensities in White, Red and Green Sectors (in candelas)

PEL-3 Total Subtense degrees		3.5 Deg	5.0 Deg	7.0 Deg	10 Deg	15 Deg	20 Deg	25 Deg
M28 (coated optics)	W	301,674	147,868	75,489	37,038	16,514	9,330	6,006
12V 100Watt	R	81,452	39,924	20,382	10,000	4,459	2,519	1,622
Tungsten Halogen	G	72,402	35,488	18,117	8,889	3,963	2,239	1,441
M28	W	220,430	108,045	55,159	27,063	12,066	6,817	4,388
12V 100 Watt	R	59,516	29,172	14,893	7,307	3,258	1,1841	1,185
Tungsten Halogen	G	52,903	25,931	13,238	6,495	2,896	1,636	1,053
M32	W	78,068	38,266	19,536	9,585	4,274	2,415	1,554
12V 50Watt	R	21,079	10,332	5,275	2,588	1,154	652	420
Tungsten Halogen	G	18,737	9,184	4,689	2,300	1,026	580	373
NAL 86	W	149,819	73,435	37,490	18,393	8,201	4,633	2,982
12V 100 Watt	R	40,451	19,827	10,122	4,966	2,214	1,2151	805
Prefocus Halogen	G	35,957	17,624	8,998	4,414	1,968	1,112	716
NAL 85	W	87,937	43,103	22,004	10,796	4,813	2,719	1,750
12V 75 Watt	R	23,743	11,638	5,941	2,915	1,300	734	473
Prefocus Halogen	G	21,105	10,345	5,281	2,591	1,155	653	420
NAL 84	W	65,139	31,928	16,300	7,997	3,565	2,014	1,296
12V 50 Watt	R	17,588	8,621	4,401	2,159	963	544	350
Prefocus Halogen	G	15,633	7,663	3,912	1,919	856	483	311
NAL 83	W	42,340	20,754	10,595	5,198	2,318	1,310	843
12V 35 Watt	R	11,432	5,604	2,861	1,403	626	354	228
Prefocus Halogen	G	10,162	4,981	2,543	1,248	556	314	202
NAL 82	W	22,799	11,175	5,705	2.799	1.248	705	454
12V 20 Watt	R	6,156	3,017	1,540	756	337	190	123
Prefocus Halogen	G	5,472	2,682	1,369	672	300	169	109
NAL 81	W	9,771	4,789	2,445	1,200	535	302	195
12V 10 Watt	R	2,638	1,293	660	324	144	82	53
Prefocus Halogen	G	2,345	1,149	587	288	128	73	47
NAL 12	W	39,083	19,157	9,780	4,798	2.139	1.209	778
12V 3.05 Amp	R	10,553	5,172	2,641	1,296	578	328	210
Prefocus Marine	G	9,380	4,598	2,347	1,152	514	290	187
NAL 11	W	24,753	12,133	6,194	3,039	1,355	766	493
12V 2.03 Amp	R	6,683	3,276	1,672	821	366	207	133
Prefocus Marine	G	5,941	2,912	1,487	729	325	184	118
NAL 9	W	11,725	5,747	2,934	1,440	642	363	233
12V 1.15 Amp	R	3,166	1,552	792	389	173	98	63
Prefocus Marine	G	2,814	1,379	704	346	154	87	56
NAL 8	W	7,817	3,831	1,956	960	428	242	156
12V 0.77 Amp	R	2,111	1,035	528	259	116	65	42
Prefocus Marine	G	1,876	920	469	230	103	58	37
NAL 7	W	4,560	2,235	1,141	560	250	141	91
12V 0.55 Amp	R	1,231	604	308	151	67	38	25
Prefocus Marine	G	1,094	536	274	134	60	34	22
NAL 6	W	1,954	958	489	280	107	60	39
12V 0.25 Amp	R	528	259	132	65	29	16	11
Prefocus Marine	G	469	230	117	58	26	15	9

PEL-6 Peak Intensities in White, Red and Green Sectors

PEL-6 Total Subtense degrees		3.5 Deg	5.0 Deg	7.0 Deg	10 Deg	15 Deg	20 Deg	25 Deg
M36 (coated Optic)	W	726,532	356,116	181,803	89,199	39,770	22,470	14,464
24V 250W	R	196,164	96,151	49,087	24,084	10,738	6,067	3,905
Tungsten Halogen	G	174,368	85,468	43,633	21,408	9,545	5,393	3,471
M28 (coated Optic)	W	301,674	147,868	75,489	37,038	16,514	9,330	6,006
12V 100 Watt	R	81,452	39,924	20,382	10,000	4,459	2,519	1,622
Tungsten Halogen	G	72,402	35,488	18,117	8,889	3.963	2,239	1,441

Notes:

1. The white sector is 4 times brighter than the coloured sectors. If this is considered a disadvantage a neutral density filter can be inserted to equal the red/green sectors.
2. For night observation of a PEL a night filter can be supplied to reduce the daylight intensity to between 1 & 10 % to achieve the same conspicuity as in the day. This is achieved by a combination of filter and lamp voltage reduction automatically by photocell. Halogen lamps cannot be dimmed below 50 percent without affecting colour. Lamp voltages are programmable on site however levels below 50 percent need to be provided by filter which is an optional extra and needs to be specified at time of order.
3. For lamp detail see separate leaflet. For mounting detail see individual drawing after model selection by intensity.

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