



PEL4

Medium Range PEL Sector Light 22,9 NM by night, 4,9 NM by day

The PEL4 is a precise aid to navigation. When sailing through hazardous waters, the PEL4 will provide sharp visual feedback whether you are inside or outside a sector. If combined with oscillating boundary, the exact position within the sector will also be known.

The PEL4 is equipped with LED technology and is bright enough to be used day and night. It is energy efficient and maintenance free as well. This makes it solar-power friendly and removes costly re-lamping visits.

- **Horizontal divergence available from 3.5° to 20°**
- **Weatherproof enclosure suitable for external mounting**
- **Maintenance-free LED (easy to replace if needed)**
- **Constant-current LED drivers**
- **Fully programmable IALA flash characters**
- **Range 36,6 NM by night and 6,1 NM by day @ 0,85T**
- **Adjustable day and night intensity from 0.3% to 100%**
- **Automatic day/night detection and change-over**
- **Optional security code**
- **Programmable low-voltage cut-out**
- **Selectable master/back-up operation mode**
- **Digital input/output**
- **Optional oscillating boundary**



Performance

Product	Maximum horizontal divergence	Vertical divergence	Peak intensity red	Peak intensity green	Peak intensity white	Power consumption @ peak intensity
PEL4-3D5	3.5°	2.6°	77 500 cd	77 500 cd	350 000 cd	51 W
PEL4-05D	5°	3.75°	50 000 cd	50 000 cd	225 000 cd	51 W
PEL4-10D	10°	6.7°	20 200 cd	20 200 cd	91 000 cd	51 W
PEL4-20D	20°	12°	5 200 cd	4 400 cd	13 000 cd	51 W

Electrical specification

Nominal operating voltage	12 VDC / 24 VDC
Operating voltage range	10 - 30 VDC

Structure and materials

Light source	High power light emitting diode (LED)
Lens	Acrylic and glass
Body	Marine-grade aluminium, fasteners: stainless steel
Installation	5°, 10°, 20°: 3xM12 3.5° Rear: 3xM12; Front: 2xM12
Cable length	2.5 m / 8.2 ft
Ingress protection	IP67
Temperature range	-30° to +50°C / -22° to +122°F
Warranty	3 years

Accessories

AIS remote monitoring	LightGuard AIS
GPS synchronization	VSU-29
Power source	PS-120

Optical specification

Boundary resolution	< 1 minute of arc
Sector alignment	Fully adjustable
Number of sectors	3 colour sectors and with oscillating boundary 5 or 7
Sector colours	White, red, green

Remote monitoring	I/O port
Programming	Infra red programmer
Synchronization	Wire sync, optional: GPS
Oscillating boundary	Optional
Flash character	246 standard + 1 custom character
Day / night mode	Automatic and programmable 0.3% - 100% intensity

Product code

Code	Note
PEL4-ddd-S	
ddd	Horizontal subtense (3D5, 05D, 10D or 20D)
S	Sector OB = Oscillating boundary FX = Fixed boundary

Dimensions

Product	Product dimensions (LxWxH) mm	Product weight kg	Packing dimensions (DxWxH) mm	Gross weight kg	Product dimensions (LxWxH) inch	Product weight lb	Packing dimensions (DxWxH) inch	Gross weight lb
PEL4-3D5	1918x321x370	47	2180x390x550	75	75.5x12.6x14.5	103.6	85.8x15.3x21.6	165.3
PEL4-05D	1532x316x364	35	1790x390x550	62	60.3x12.4x14.3	77.2	70.4x15.3x21.6	136.6
PEL4-10D	960x316x364	32	1130x390x550	50	37.8x12.4x14.3	70.5	44.5x15.3x21.6	110.2
PEL4-20D	830x305x360	24	1030x510x460	40	32.67x12x14.17	52.9	40.5x20.1x18.1	88.2

