



PEL7

Long Range PEL Sector Light 25,2 NM by night, 6,2 NM by day

The PEL7 is a highly accurate long range projector sector light suitable for both day and night use. PEL7 has a new high power LED light source and it replaces PEL6 in Sabik's product offering. PEL7 is the latest generation of the original PEL light and the most powerful member of our legendary PEL product family originally created by Vega in 1972. Long life LEDs minimize the need for maintenance. Sector alignment and sector boundaries are exceptionally accurate. The analogue oscillating boundary provides precise positional awareness for the navigator when the vessel deviates from optimal course. Wide vertical divergence reduces installation tower heights, reducing installation cost.

- **The most accurate sector light at the market**
- **Provides precise positional awareness with the analogue oscillating boundary**
- **Mounting is identical to PEL6, drop in replacement**
- **Maintenance free LED light source**
- **Modular light source for fast field replacement**
- **Range 40,8 NM by night and 8,2 NM by day @0,85T**
- **Up to 7 sectors with oscillating boundary**
- **Wide vertical divergence**
- **Automatic day and night detection and change over**



Performance

Product	Maximum horizontal divergence	Vertical divergence	Peak intensity red	Peak intensity green	Peak intensity white	Power consumption @ peak intensity
PEL7-3D5	3.5°	2.8°	270 000 cd	250 000 cd	860 000 cd	120 W
PEL7-05D	5°	3.6°	130 000 cd	130 000 cd	440 000 cd	120 W
PEL7-10D	10°	7.1°	33 000 cd	33 000 cd	110 000 cd	120 W

Electrical specification

Nominal operating voltage	24 VDC (12 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	Rear: 3xM12, Front: 2xM12 (Identical with PEL-6)
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-180

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
PEL7-3D5	2788x330x427	50	3000x600x680	95	109.7x13x16.8	110.2	118.11x23.6x26.8	209
PEL7-05D	2075x321x420	45	2400x600x680	85	81.7x12.6x16.5	99.2	94.5x23.6x26.8	187.4
PEL7-10D	1489x321x420	40	1800x600x680	75	58.6x12.6x16.5	88.2	70.7x23.6x26.8	165.3

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

Functional features

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
PEL7-ddd-S	
ddd	Horizontal subtense (3D5, 05D or 10D)
S	Sector OB = Oscillating boundary FX = Fixed boundary

