

PEL-7

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

The PEL-7 is a highly accurate long range projector sector light suitable for both day and night use. PEL-7 has a new high power LED light source and it replaces PEL-6 in Sabik's product offering. PEL-7 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 PEL-6, 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



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Performance

Product	Horizontal divergence	Vertical divergence @ 50% peak intensity	Peak intensity red	Peak intensity green	Peak intensity white	Power consumption @ peak intensity
PEL-7-3D5	3.5°	2.8°	270 000 cd	250 000 cd	860 000 cd	120 W
PEL-7-05D	5°	3.6°	130 000 cd	130 000 cd	440 000 cd	120 W
PEL-7-10D	10°	7.1°	33 000 cd	33 000 cd	110 000 cf	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 GPS synchronization	LightGuard AIS		
GPS synchronization	VSU-29		
Power source	PS-240		

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

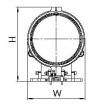
Remote monitoring	I/O port		
Programming	Infra red programmer		
Synchronization	Wire sync, optional: GPS		
Oscillating boundary	Optional		
Flash character	246 standard + 1 custom character		
Day / night mode	Automatic and programmable 0.3% - 100% intensity		

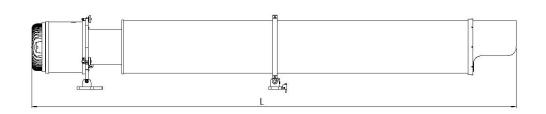
Product code

Code	Note
PEL-7-ddd-S	
ddd	Horizontal subtense (3D5, 05D or 10D)
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
PEL-7-3D5	2788×330×427	50	3000×600×680	95	109.7×13×16.8	110.2	118.11×23.6×26.8	209
PEL-7-05D	2075×321×420	45	2400×600×680	85	81.7×12.6×16.5	99.2	94.5×23.6×26.8	187.4
PEL-7-10D	1489×321×420	40	1800×600×680	75	58.6×12.6×16.5	88.2	70.7x23.6x26.8	165.3





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