

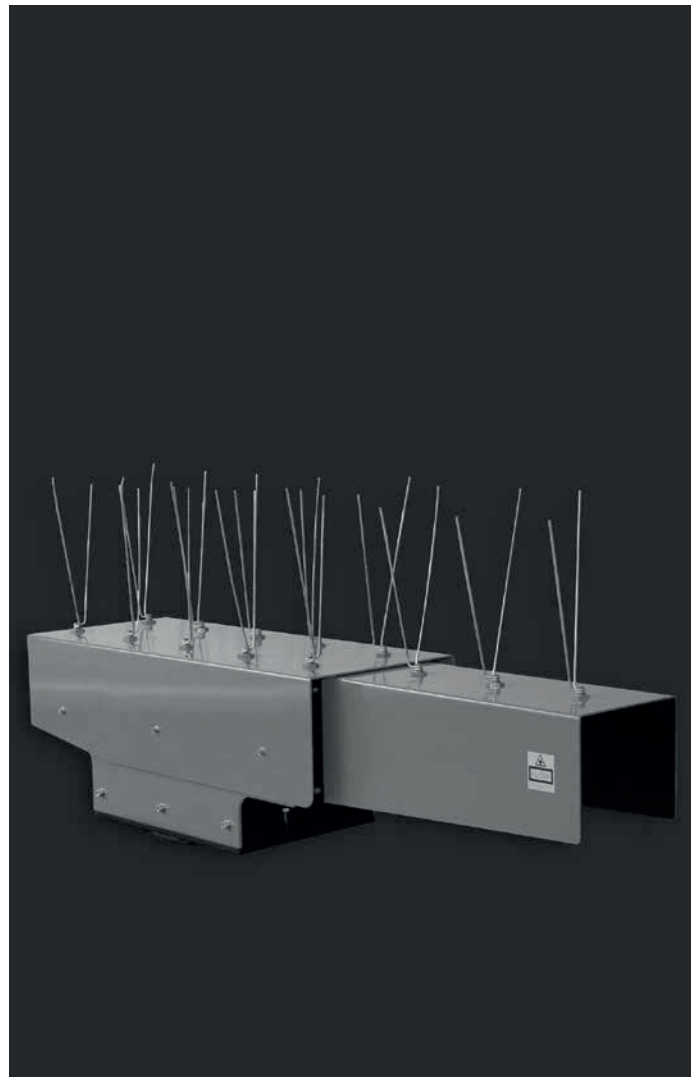


## E8593

**LED Projector sector light,  
up to 21 M / 4 M daytime range**

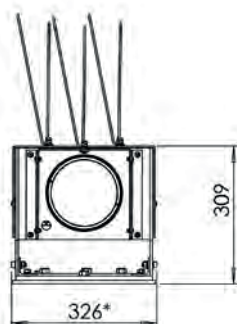
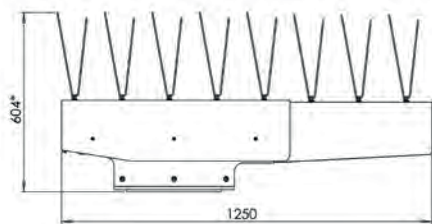
The E8593 is a high-performance, power efficient high intensity marine LED Projector sector light with beam configuration tailored to customer requirements at the factory. All E859X Lanterns feature factory configured Day and Night mode, luminous intensity, fast PWM control generating reduced intensities, as well as Fixed-and-Flashing (FFL) rhythmic characters or Slow Flash Front (SFF). The field proven E8593 supports Opposite-Isophase sector signal control reducing the latency of spatial awareness update for the mariners: the white sector signal is active during the eclipse of coloured sectors and vice versa, resulting in immediate awareness about leaving the white sector without the delay caused by the common eclipse.

- **Power efficient Day/Night light signalling system for port entry lights or leading line systems replacement**
- **Factory-customized sector configuration with precision of  $\leq 0.05^\circ$  (3')**
- **Day and Night mode luminous intensities down to 10%**
- **Internal LED diagnostics with condition output**
- **Optional Opposite-Isophase sector signal control**
- **Available with triaxial acceleration sensor for Structural Health Monitoring of the AtoN mast**
- **Easy to install – requires only aiming the composite beam vertically**
- **No planned maintenance needed**



**Optical performance**

Number of sectors	3 (R, W, G)		
Typical luminous intensity of the light signal per colour	250,000 cd		
Nominal range, Night / Day (T=0.74)	up to 21 M / 4 M		
Subtense angle per sector (total approximately 75°)	≤ 1.2°	≤ 1.2°	≤ 2.5°
Vertical divergence angle	1.2°	2.5°	1.2°
Power consumption in flash	≤ 45 W	≤ 90 W	≤ 90 W
Achievable boundary resolution	~ 0.1° (6'... 9')		
Beam direction adjustment in field conditions, Hor/Vert	± 180° / ± 2°		



**Main technical specification**

Light source	High Power Light Emitting Diode (LED) clusters
Vertical divergence	1.2° or 2.5° (FWHM)
Lens material	optical glass
Enclosure material	polycarbonate optical unit potted in resin on aluminium bottom plate, marine grade aluminium sides and protective cover, painted steel mounting plate
Weight	< 50 kg
Operating environment	-40 °C to +55 °C
Power supply voltage	12 VDC (10–24 VDC)
Power consumption in flash	up to 90 W depending on configuration
Degree of ingress protection	IP 67
Overall height (excl. bird deterrents)	309 mm, width 326 mm, depth 1250 mm
Focal plane height	205 mm
Installation	3 x 14mm on 200 mm circle
Cable length	2 m / 6 m

**Order Overview E8593**

**Product codes**

Since this product is usually ordered in AtoN site specific configuration, simple ordering codes covering all possible alternatives are not available.

**Product code example: E8593.GWR.F2.G1**

- Projector sector light for IALA Region B with integrated Flasher E8672 and GPS capability

**Option matrix**

Sector lights for IALA Region A	E8593.RWG
Sector lights for IALA Region B	E8593.GWR

**Accessories**

Bird deterrent rod set (incl. screws)	8264.050
Cable Connector, 90deg, female 6 + PE-position	C016 30F006 100 10
Programmable Flasher, integrated	E8672
Programmable Flasher with GPS, integrated	E8672.G
TelFiCon™-Flasher for complete AtoN telematics, integrated	E9272