

Suitable for Maritime

GKPIAm & GKPIAex Induction Lamps

Optimized lighting engineered for harsh environments



RED DOT SCANDINAVIA



- **Reliable** Proven reliable during real time testing over a one year period with 24hr continues operation with no failures or downtime.
- **Sustainable** Long life time cycle makes the GKPIA the most sustainable fixture on the marked.
- **Economical** Calculations based on energy reduction and investment makes the GKPIA up to 75% cheaper then HPS lamps. Low energy use also contributes to lower CO2 emission.

- **Environmental** With no toxic gases or parts that dose not fulfill the EU requirements, the lamp is fully recyclable.
- **People friendly** The soft bright light enhances work environment, and thereby minimizing the human failure rate and optimizing safety.
- **Two models**
GKPIAm – without ATEX
GKPIAex – with ATEX zone II certification

The overall financial aspects of the induction lamps from RDS are exceptional. Cash-flow and better work environment can be achieved instantly, which will support a solid production platform form where people and companies will benefit.

“Replacement of 500W Halogen to 200W Induction lighting create a better work environment – the light experience is better. The lamps have proven to be a longlasting solution and the operation cost is reduced significantly, not only in energy savings but also in terms of bulb replacements which is reduced to none. During a one year periode with 24hr continues operation, no downtime or failures has been experienced with the induction lamps.”

Member of



- Lars Helleberg, Marine Engineer

**REAL-TIME
LIFE SPAN
>100.000 h
0,3% FAILURE RATE**



Dual Certified ATEX
– IECEx cable Gland

Specifications

Metal surfaces in stainless steel 316. Cable Gland (501/421). Double powder Coating. Gas-tight silicon rubber Seal. Tempered Glass. Easy cable assembly inside the Lamp. Mounting bracket is attached. IP 65.

Lamp type	Lumen effect (LM/W)	Power Factor*	Life span (hours)	Start up	Restart	Colour Rendering Index (CRI/RA)	Perception	Failure rate**
Induction GKPIAm	70-98	98 %	>100.000	0 sec.	0 sec.	> 80	Soft	0,3 %
Fluorescent tube	90	30 % - 40 %	8.000	0 sec.	0 sec.	70	Soft	10 % - 20 %
HPS	70-120	44 % - 67 %	8.000	8 min.	10 min.	< 40	Blinding	15 % - 25 %
Metal Halide	60-80	90 %	12.000	0 sec.	0 sec.	> 90	Strong blinding	> 20 %
LED	65-105	92 %	15-30.000	0 sec.	0 sec.	> 80	Strong blinding	10 % - 20 %

*) Power Factor is the value of electrical appliances ability to draw power from the grid in synchrony with the voltage. 100 % is optimal. **) Failure rate is variable due to environment and usage.

Induction vs. Metal Halide and High Pressure Sodium

Comparison	GKPIAm Induction Lamp	Metal Halide	High Pressure Sodium
Warranty	Up to 5 years Lamp, Ballast, Fixture	Lamp: 0 - 1 year Ballast: 3 - 5 years	Lamp: 0 - 1 year Ballast: 3 - 5 years
Bulb hour replacement	> 100.000 hours 1 every 11 years	12.000 hours 1 every year	24.000 hours 1 every year
Lumen Failure Rate	10 % @ 70.000 hours	> 30 % @ 6.000 hours	> 30 % @ 6.000 hours
Lamp Operating Temperature	60-90 Degree C	315-425 Degree C	315-425 Degree C
Watts Used	100 W - 200 W	400 W - 600 W	400 W - 600 W
Re-strike	Yes - Instant	No	No
Flicker / Glare	None	High	High
Environmental Impact	Low	High – high mercury content	High – high mercury content
Lamp Failure rate	0,3 %	> 20 %	> 20 %

Application

