

ENGINEERING ANSWERS



Smart LED Driver Concepts. Lighting Systems for Special Requirements and Custom Solutions.



PASSION AND EXPERTISE FOR EXTRAORDINARY SOLUTIONS.

We are experts when it comes to developing custom LED solutions.

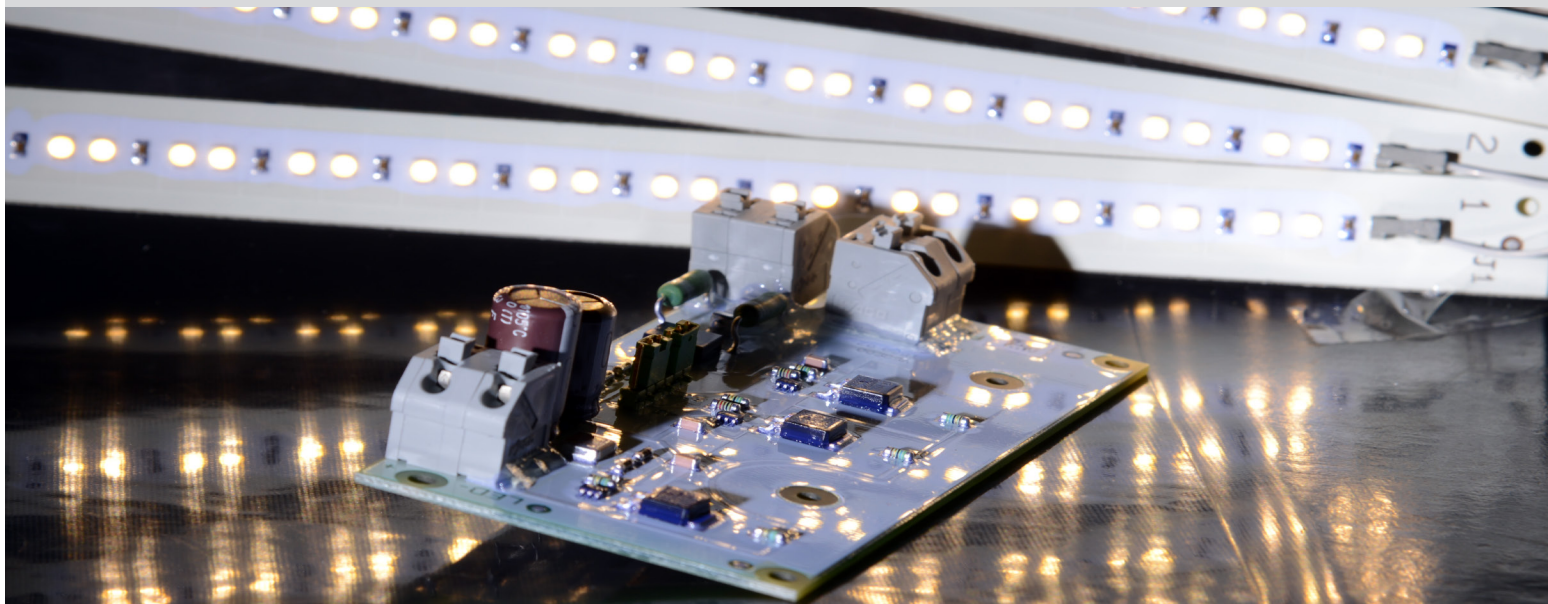
Our LED systems for challenging environmental conditions and extreme requirements are our contribution to your success.

In addition to special LED modules for urban areas, we are also active in the field of cruise ships and marine lighting: our objective is to always provide technically superior solutions.

You are familiar with your area of application, but unsure when it comes to the related demands? We will gladly work with you to draw up a specification profile and verify the feasibility of your individual application.

KEY FEATURES

- ◆ Flicker-free lighting
- ◆ Minimal ageing of LEDs
- ◆ Adjustment to ageing effects
- ◆ No leakage current thanks to Y-capacitors
- ◆ Great savings
- ◆ Dazzle-free
- ◆ Excess temperature protection
- ◆ DALI, control phase, etc.
- ◆ Natural illumination
- ◆ Light distribution
- ◆ Soft start function
- ◆ DC and AC
- ◆ Solar
- ◆ Military standards
- ◆ Onboard drivers
- ◆ and many other advantages

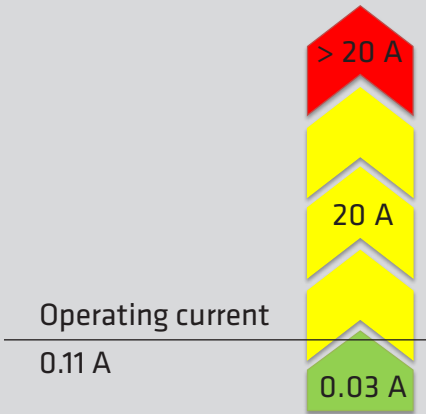


LOW START-UP CURRENT

- ◆ 0.03 amperes

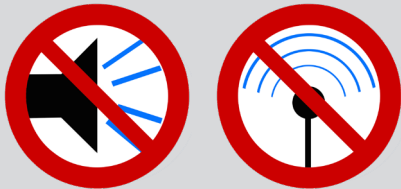
Starting current < operating current
 No current peaks when the lights are turned on

- ◆ Supports all triggering characteristics of automatic circuit breakers / disconnectors
- ◆ Small cable cross-sections
- ◆ Longer service life
- ◆ Multiple lights can be served by a single supply line



LOW CABLE / AIR RADIATION

- ◆ Thanks to our patented circuit designs, radiation via cables / the air is extremely low: 100 times better than the industry standard
- ◆ This is very significant for sensitive areas such as hospitals and airports
- ◆ Silent operation



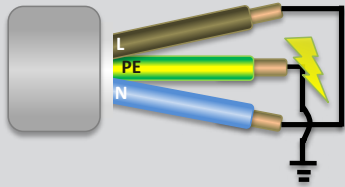
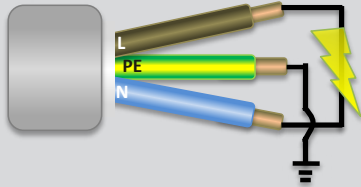
TOP SURGE VOLTAGE PROTECTION

L from N

2	x 20 kV (at 10 kA)
10	x 10 kV (at 5 kA)
100	x 4 kV (at 2 kA)
1,000	x 2 kV (at 1 kA)

L + N from PE

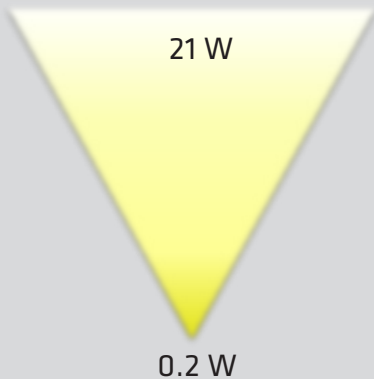
∞	x 8 kV
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EXTREME DIMMING

Energy factor 105
 50 to 4,000 lumen

→ Very high potential for energy savings



Contact

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