



**Thiesen-Electronics LED-Lights are
100% Made in Germany!**

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Thiesen Electronics GmbH
The Pioneer of LED-Aircraft Lighting-Technology!

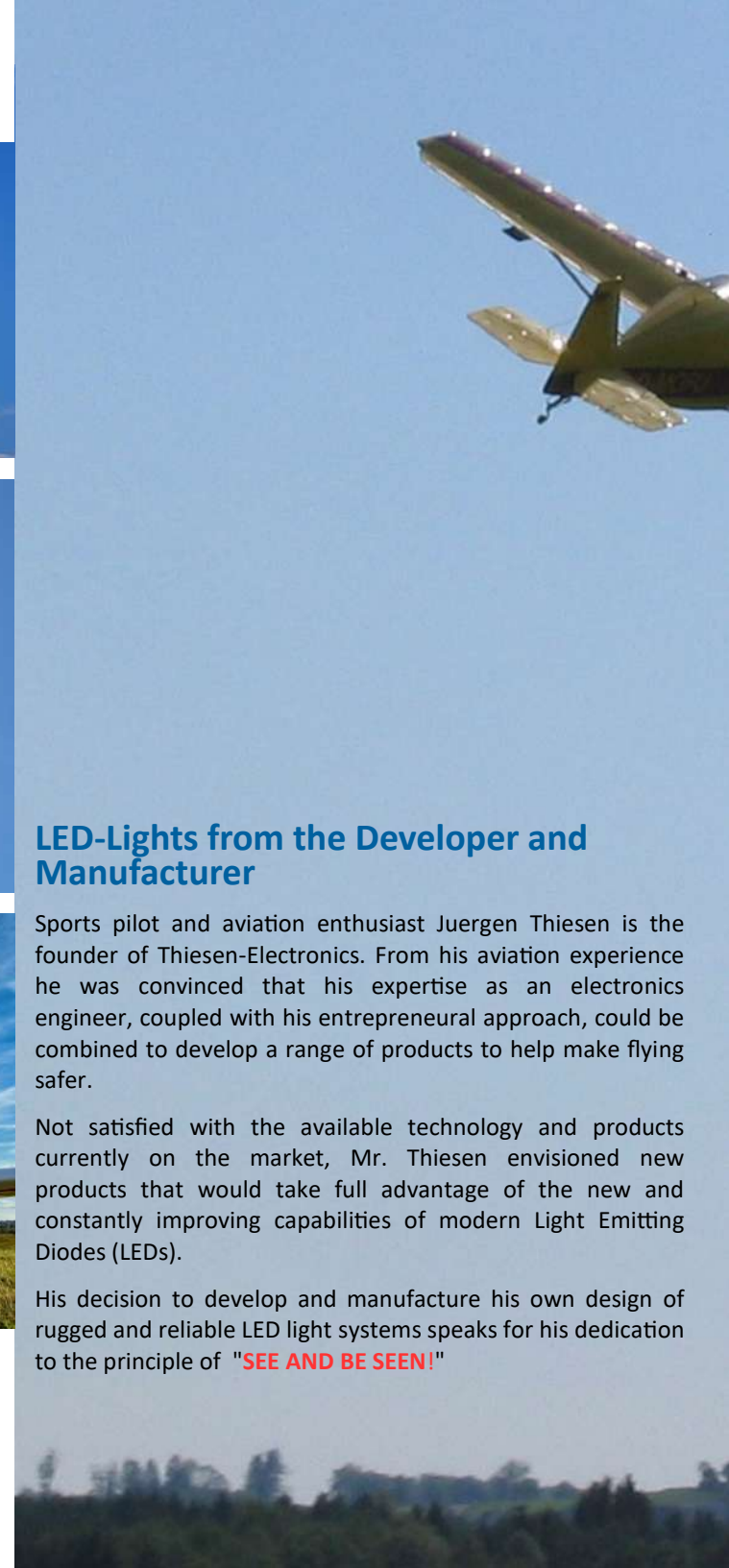


LED-Lights from the Developer and Manufacturer

Sports pilot and aviation enthusiast Juergen Thiesen is the founder of Thiesen-Electronics. From his aviation experience he was convinced that his expertise as an electronics engineer, coupled with his entrepreneurial approach, could be combined to develop a range of products to help make flying safer.

Not satisfied with the available technology and products currently on the market, Mr. Thiesen envisioned new products that would take full advantage of the new and constantly improving capabilities of modern Light Emitting Diodes (LEDs).

His decision to develop and manufacture his own design of rugged and reliable LED light systems speaks for his dedication to the principle of "**SEE AND BE SEEN!**"



FLARM - Interface

In order to make your aircraft more conspicuous, and attract extra attention from other aircraft on a potential collision course, Thiesen Electronics has developed **Anti Collision Lights** that can be linked to your on board ADSB/FLARM system.

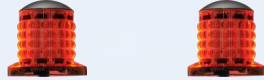
FLARM is a traffic awareness and collision avoidance technology used in General Aviation, Light Sport, Ultra Light, Sailplane and even Unmanned Aircraft equipped with the ADSB/FLARM systems.

When an alert is given by the **FLARM** unit, the ACL flashing sequence accelerates according to the **FLARM** alert level. This increases the awareness of the pilot on the collision course.

Alert Level 1



Alert Level 2

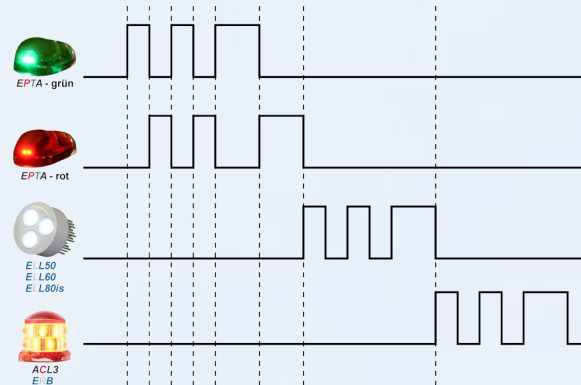


Alert Level 3



Intelligent Synchronization is Intelligent Power Management

The Thiesen "Intelligent Synchronization" system schedules the light pulses so that there is no overlap of the individual lighting flashes. As seen in the diagram below, this pulse scheduling reduces the battery and generator requirements as if only one light was on at any given moment.



ACL Flashes, Rotating Beacons

ACL3is, ERB, ACL4, ERB2, ERB-UL, ACL-UAV

Features : Intelligent synchronization
 Light Colour : Red
 Op Voltage : 10 – 17 Volts DC, expt. ERB-UV-LiPo
 Wattage : **ACL4** - 10 W Flash + FLARM
 ERB-UL - 12.8 W Rotating + FLARM
 ACL3is - 20 W Flash
 ACL-UAV-12V - 8 W Flash + FLARM, Rotating, Remote Control
 ACL-UAV-LiPo - 6.8 - 9 Volts DC (LiPo 2S), 5 Watts, Rotating, Remote Control
 Dimensions : 61 x 46 x 39 (L x W x H), Drillhole 4.5 mm



Rotating Beacons



Features : FLARM-Interface, intelligent synchronization
 Wattage : 16 Watts
 Dimensions : 61 x 46 x 56 (L x W x H), Drillhole 4.5 mm



Electronic Rotating Beacon with intelligent synchronization
 Wattage : 25 Watts
 Dimensions : 61 x 47 x 76 (L x W x H), Drillhole 4.5 mm

ACL-Module

Anti Collision Light flash bar with intelligent synchronization ACL-Module especially developed as a "rear-ACL" for gyrocopter and UAV.

Wattage : 20 Watts
 Dimensions : 165 x 15 x 20 mm (L x W x H)



Position Lights

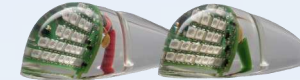
EPTA-NG

Electronic Position Light, Tail Light and Anti Collision Light. Three lights in one item. This light exceeds the requirements of FAR23 by far. With intelligent synchronization and FLARM-Interface.



Light Colour : Red and white, green and white
 Op Voltage : 10 – 17 Volts DC
 Wattage : 20 Watts
 Dimensions : 80 x 40 x 30 mm (L x W x H)

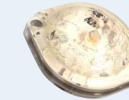
EPL - Electronic Position Light



Light Colour : Red resp. Green
 Op Voltage : 10 – 17 Volts DC
 Wattage : 4.5 Watts
 Dimensions : 93 x 40 x 28 mm (L x W x H)

TL-NG

Electronic Tail Light 'New Generation' with intelligent Synchronization and ACL-Function.
 Light Colour : Bright white
 Op Voltage : 10 – 17 Volts DC
 Wattage : 5 Watts
 Dimensions : 52.6 x 42 x 21.5 mm (L x W x H), Drillhole 4.5 mm



Landing Lights with integrated ACL function

ELL50

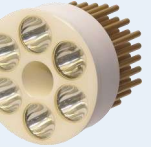


Electronic Landing Light with intelligent synchronization. Replaces 90 W halogen lamp.

Features : Landing Light and ACL in one item with intelligent synchronization
 Light Colour : Bright white
 Op Voltage : 10 – 17 Volts DC
 Wattage : 30 Watts
 Diameter : 50 mm
 Installation depth : 40 mm (ELL50)
 65 mm (ELL50L)

ELL60

Electronic Landing Light with intelligent synchronization. Specially developed heat sink. Replaces 180 – 200 W halogen lamp.



Features : Landing Light and ACL in one item with intelligent synchronization
 Light Colour : Bright white
 Op Voltage : 10 – 17 Volts DC
 Wattage : 60 Watts
 Diameter : 60 mm
 Installation depth : 50 mm

ELL80is

Electronic Landing Light with intelligent synchronization. Replaces 140 W halogen lamp.



Features : Landing Light and ACL in one item with intelligent synchronization
 Light Colour : Bright white
 Op Voltage : 10 – 17 Volts DC
 Wattage : 45 Watts
 Diameter : 80 mm
 Installation depth : 35 mm

