

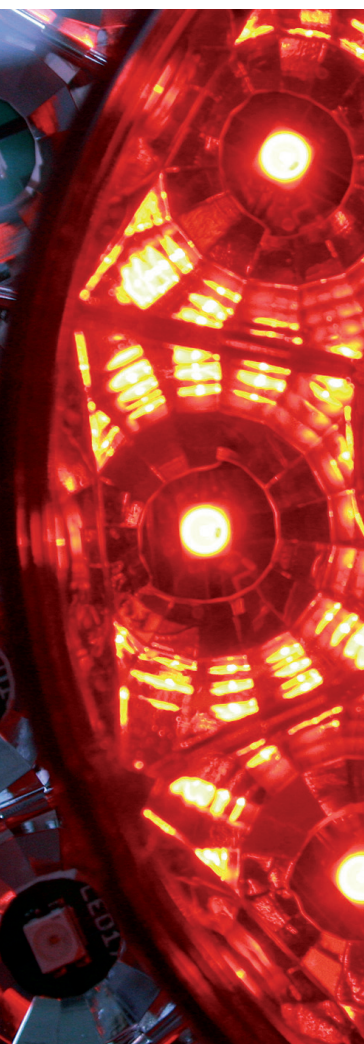
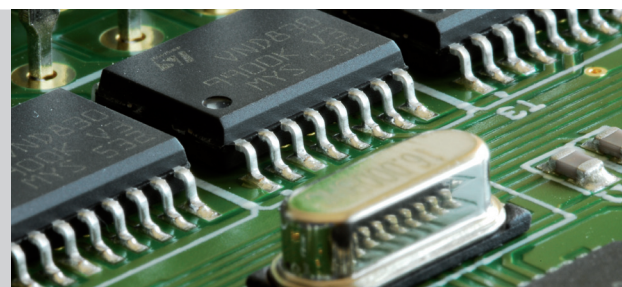


JaegerCANtrol^{LED}

Electronic control device for LED-lamps



This new module makes it possible to control even such trailers problem-free and without power loss which are equipped with efficient light-emitting diodes instead of conventional light bulbs.



Within the last years, light-emitting diodes – LEDs for short – have made a huge leap in their development. The use of red and yellow LEDs in backlights is nothing of a rarity but recent state-of-the-art. The advantages of this technology are obvious: LED-lamps have an extremely high economic life-time and although being much more energy-saving in the power consumption, they show a higher degree of efficiency than conventional light or halogen bulbs. Moreover, they feature a very quick reaction time, which is an improvement – above all regarding signal lights like break lights and flashers – compared to the current systems.

All these advantages lead to the consequence that light emitting diodes are not only used in cars but also in trailers. However, problems may arise at the interface between car and trailer when transmitting electrical signals. A light bulb works on a power of 21 W whereas an LED-lamp only needs approx. 1-3 W. Trailer control devices which are not adjusted to light emitting diodes indicate the difference in power as a fault in the trailer lighting. In this way, the lamp failure indicator cannot work

reliably. All present solutions to the problem work on the basis of a load resistor being connected ahead of the LED. Downside of this method is that the excess power becomes a power loss.

At this point, the new ERICH JAEGER trailer control module comes into play. By approaching the problem electronically, the power for the trailer can be regulated in a way that no power loss is generated and unnecessary heat development can be avoided. However, the module is not limited to being applied for trailers with LED-technology, but can also be used for conventional lighting systems: The electronics automatically detects the lighting system at hand. This guarantees a functioning failure indicator. Furthermore, the trailer module can be directly controlled via the CAN-data-bus thus enabling a problem-free integration into the vehicle supply system.

