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PRODUCT DATA SHEET

DIGITAL CONTROLLER FOR PULSED LEDS

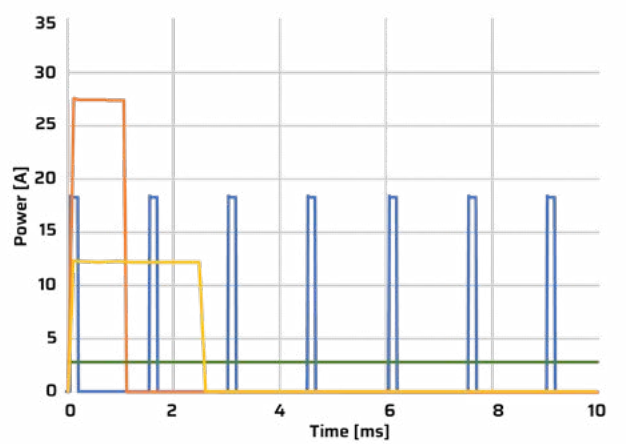
LED PULSE CONTROLLER

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4 channels allow easy control of
of high power LEDs and LED groups



Front view LED Pulse Controller (4-channel)



Example of the freely configurable signal shapes per channel

The digital 4-channel controller is suitable for controlling LEDs and LED groups. It enables precise adjustment of the LED current, pulse length and delay within a wide adjustment range, independently for each channel. The operating modes OFF, Steady, Follow and PULSE external, repeat or single can also be selected independently for each channel.

Our LED Pulse Controller is available in 'Standard' and 'High-Resolution' versions.

PRODUCT HIGHLIGHTS

- Pulseable up to 100 kHz with maximum pulse stability
- Low overshoot (square pulses)
- Excellent reproducibility of the pulse shape
- 4 independent channels with parameter monitoring
- LED current up to 30 A, resolution in the mA range

AREAS OF APPLICATION

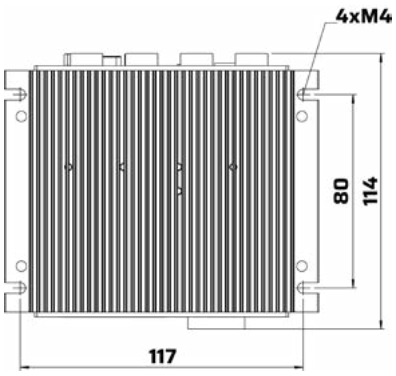
- Camera-based inspection
- Industrial image processing
- High-speed LED lighting
- Stroboscopic illumination
- Hyperspectral imaging

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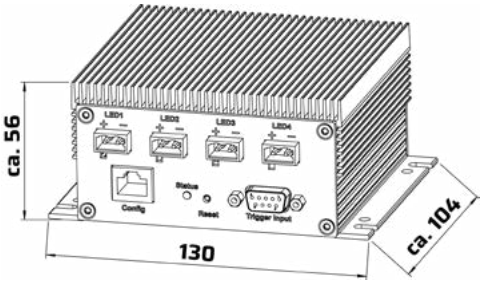
LED PULSE CONTROLLER

Technical data

Input parameters		
Supply voltage	9 to 48 V_{DC}	
Trigger input:	Low: 0 to 0,8 V / high: 2,4 to 5 V	
Maximum pulse frequency	100 kHz	
Output parameters		
Output channels	4 independent constant current outputs with parameter monitoring	
Rise time t_{10-90}	3 µs	
Fall time t_{90-10}	1 µs	
Efficiency (P_{out} / P_{in})	to 97 %	
Output voltage	0 to V_{in} -1 V	
Total power dissipation	10 W	
Software adjustable parameters		
Output current	Standard variant: 0 to 30 A in 8 mA steps, up to 5 A CW, up to 30 A pulsed	High-Resolution variant: 0 to 3 A in 1 mA steps, up to 1.5 A DC, up to 3 A pulsed
Pulse length adjustment	5 µs...60 s, jitter < 0,1 µs	
Pulse delay	5 µs...60 s, jitter < 0,1 µs	
Security		
Monitoring	LED current, housing temperature, internal temperatures, parameter monitoring (pulse length/current)	
Execution		
Weight	0.5 kg	
Dimensions	See illustration	
Interfaces	Ethernet or USB	
Ambient temperature	0 to 40 °C	
Mounting	Mounting holes, clip for DIN rails	
Accessories		
Scope of delivery	Device, 1× female connector 4-pin, 4× female connector 2-pin, 2× clip for DIN rails, operating instructions, software	



Top view LED Pulse Controller (4-channel)
dimensions in mm



Front view LED Pulse Controller (4-channel)
dimensions in mm

Errors and omissions excepted. Subject to change without notice in the interest of technical progress.

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