

LED-PULSE-CONTROLLER



4 CHANNELS ALLOW SIMPLE CONTROL OF HIGH-POWER LEDS AND LED GROUPS

The 4-channel digital controller is suitable for driving LEDs and LED groups. It allows the precise adjustment of the LED current, pulse width and delay in a wide parameter range independently for each channel. The operating modes OFF, DC and PULSE can also be selected independently for each channel.

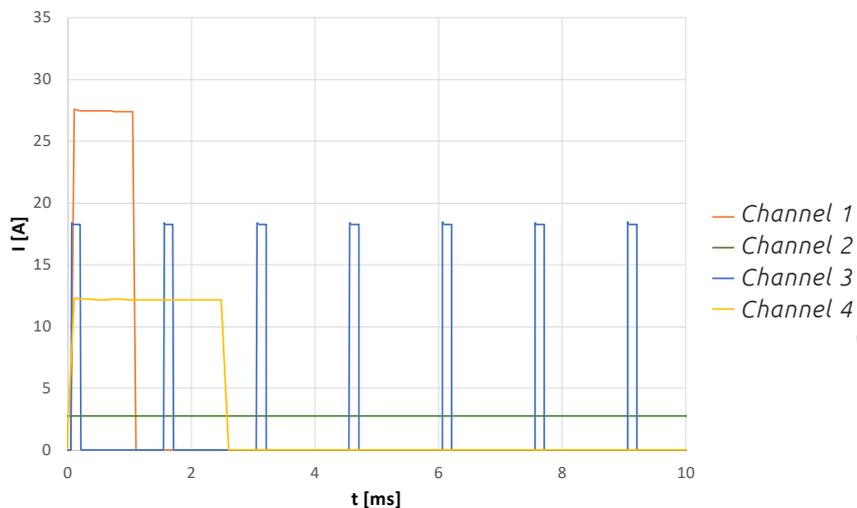


Figure 1: Example of the freely configurable signal shapes per channel

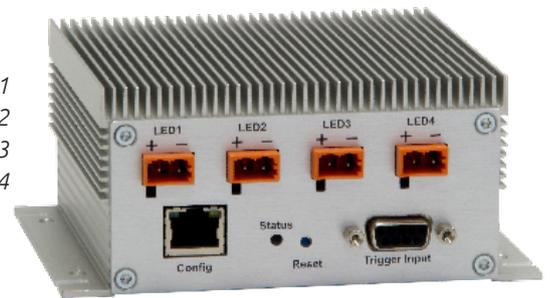


Figure 2: Front view 4-channel LED pulse controller

HIGHLIGHTS

- Lowest overshoot, highest pulse stability
- 4 independent constant current outputs with parameter monitoring
- Available as standard and high resolution (HR) version
- Output current: up to $3 A_{DC}$ or 30 A pulsed in 1 or 8 mA steps
- Stable and reproducible control for lighting systems
- Interfaces: USB or Ethernet

APPLICATIONS

- Camera-based inspection
- Industrial image processing
- High-Speed LED Lighting
- Stroboscopic illumination
- Hyperspectral imaging

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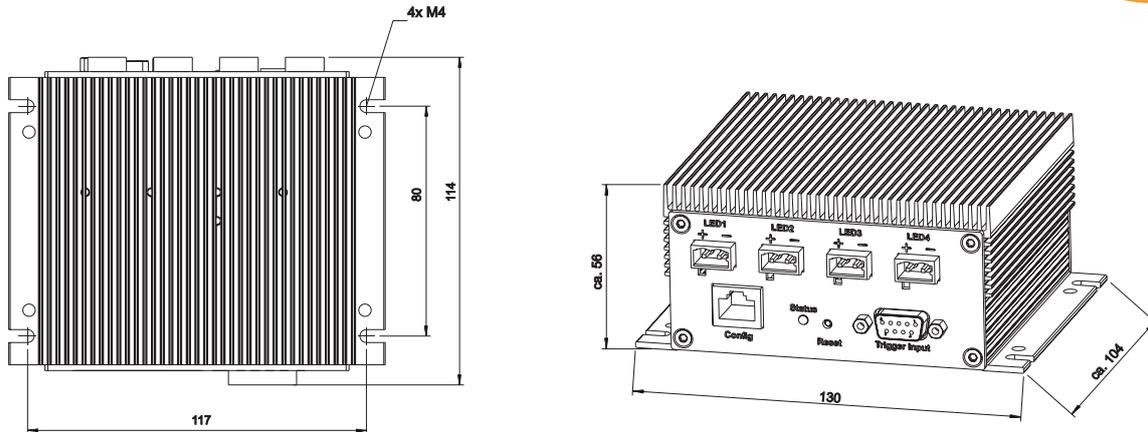


Figure 3: Dimensions LED Pulse Controller

Technical data		
Input parameters		
Supply voltage	9 to 48 VDC	
Trigger input	low: 0 to 0.8 V / high: 2.4 to 5 V	
Maximum pulse rat	100 kHz	
Output parameters		
Output channels	4 independent constant current outputs with parameter monitoring	
Rise time t_{10-90}	3 μ s	
Fall time t_{90-10}	1 μ s	
Efficiency (P_{out} / P_{in})	up to 97 %	
Output voltage	0 to $V_{in} - 1$ V	
Total power dissipation	10 W	
Software adjustable parameters		
Output current	0 to 30 A in 8 mA steps, up to 3 A CW, up to 30 A pulsed	0 to 3 A in 1 mA steps, up to 1.5 A DC, up to 3 A pulsed
Pulse length adjustment	5 μ s...60 s, Jitter < 0,1 μ s	
Pulse delay	5 μ s...60 s, Jitter < 0,1 μ s	
Security		
Monitoring	LED current, housing temperature, internal temperatures, parameter monitoring (pulse length/	
Execution		
Weight	0,5 kg	
Dimensions	see figure 3	
SInterfaces	Ethernet or USB	
Ambient temperature	0 to 40°C	
Mounting	mounting holes, clip for DIN rails	
Accessories		
Scope of delivery	Device, 1x female connector 4-pin, 4x female connector 2-pin, 2x clip for DIN rails, Operating instructions, software	
Note		
As there are many customer-specific configuration possibilities with the basic device types and accessories, please contact us.		

Errors and changes in terms of technical progress reserved.