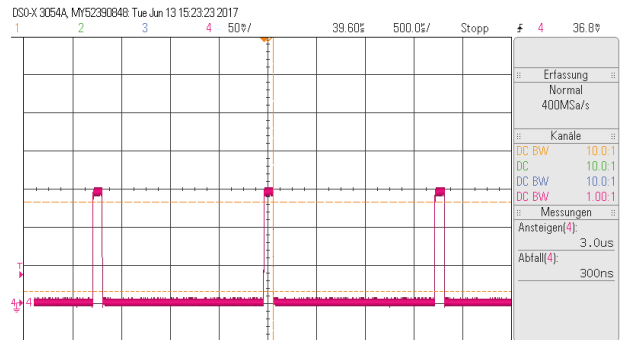
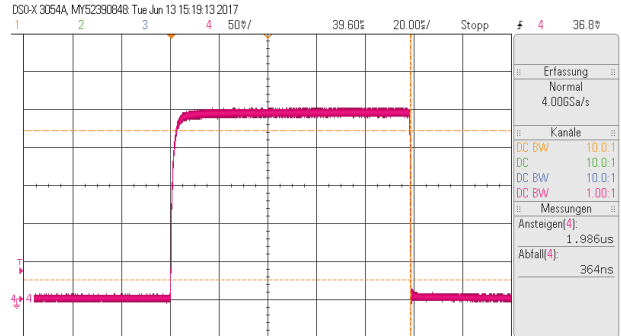


2 OR 4 CHANNELS ALLOWS SIMPLE CONTROL OF HIGH-POWER LEDs AND LED GROUPS



HIGHLIGHTS

- 2 or 4 independent constant current outputs with full parameter control
- Lowest overshoot, highest pulse stability
- Output current: up to 3 A DC, up to 30 A pulsed in 8 mA steps
- Stable and reproducible control for lighting systems
- Interfaces: USB or Ethernet
- Active self-protection

APPLICATIONS

- Machine vision
- Camera based inspection
- High speed LED illumination
- Forensic
- Security

ADJUSTABLE PARAMETERS

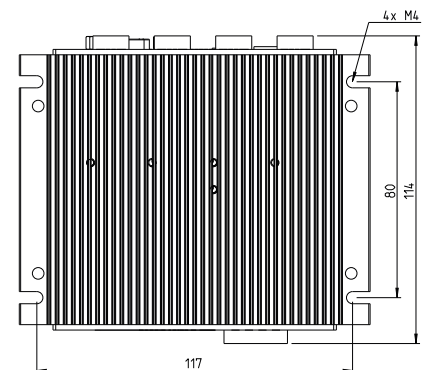
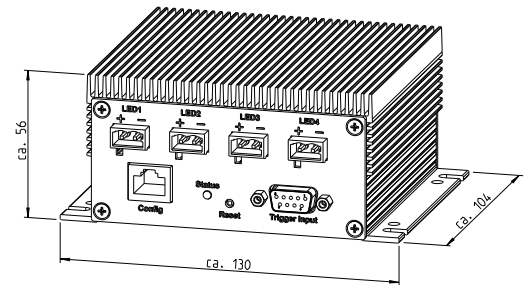
- Mode settings
- Pulse delay
- Pulse width
- LED current

LED driver configuration			
Setting	Current value	New value	Help
LED 1 mode	OFF	OFF	OFF: LED is constantly disabled. ON: LED is constantly enabled. PULSE: The LED will be pulsed according to the setup below if triggered by the external trigger signal.
LED 2 mode	OFF	OFF	
LED 1 current	0 mA	0 mA	The LED intensity can be varied by this setting. The input value is rounded down to the next valid setting. Maximum: 30000 mA
LED 2 current	0 mA	0 mA	
LED 1 delay length	5 µs	5 µs	Length of the delay before the pulse. This setting is relevant only for the PULSE mode. Maximum: 10000 µs
LED 2 delay length	5 µs	5 µs	10000 ms
LED 1 pulse length	5 µs	5 µs	Length of the LED pulse. This setting is relevant only for the PULSE mode. Maximum: 10000 µs
LED 2 pulse length	5 µs	5 µs	10000 ms
LED 1 max. frequency	2576880376 Hz		This is the maximum allowable pulse frequency. Higher pulse frequencies are not allowed and might DAMAGE THE DEVICE PERMANENTLY.
LED 2 max. frequency	2576880376 Hz		
Status	Ok, 20°C		OK: The device is ready for use. Overtemperature: The device is too hot. Cool it down and cycle power or press the reset button. Setup: The current settings would overheat the device. The device is deactivated.
Submit			

Screenshot internal web server

Technical data		2-channel & 4-channel
Input parameters		
Input voltage V_{in}	9 VDC ... 48 VDC	
Trigger input	Off: < 1 V, On: > 2 V (max. 5 V)	
Max. pulse frequency	200 kHz	
Output parameters		
Output channels	Two or four independent output channels 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... V_{in} up to -1 V	
Max. power dissipation	10 W	
Parameters adjustable via software		
Output current	0 ... 30 A in 8 mA steps, up to 3 A cw, up to 30 A pulsed	
Output pulse length	5 μ s...60 s, Jitter < 0,1 μ s	
Pulse delay	5 μ s...60 s, Jitter < 0,1 μ s	
Safety		
Monitoring	Diode temperature, housing temperature, internal temperatures, parameter monitoring (pulse length / current)	
Model		
Dimensions	130 x 104 x 56 in mm	
Weight	0,5 kg	
Connection cable	Up to 10 m	
Interfaces	Ethernet or USB	
Environment temperature	0...40°C	
Mounting	Mounting holes, Clip for DIN-rail	
Description	Linear regulator. All channels should be equipped with similar LEDs or LED groups. Input voltage has to be set according to the connected LEDs.	

Order	
Scope of delivery	Device, 1x clip connector 4-pole, 2x or 4x clip connector 2-pole, 2x DIN rail clips, manual, software
Order example	LED-Pulse-Controller 2K10 ETH (2-channel, Ethernet) LED-Pulse-Controller 4K10 USB (4-channel, USB)
Since there are many customer-specific configuration options with the basic device types and accessories, please do not hesitate to contact us.	



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