

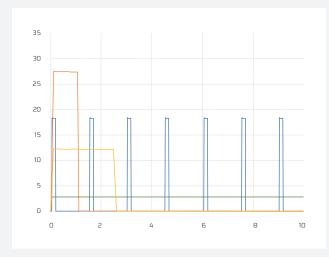
### Digital controller for pulsed LEDs

# ampyr° LED-M 4C-30/40

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



Front view ampyr LED-M 4C-30/40 (4-channel)



Example of the freely configurable signal shapes per channel

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

#### **PRODUCT HIGHLIGHTS**

- Pulseable up to 100 kHz at highest pulse stability
- Low overshoot
- Rectangular pulses
- · Excellent flash reproducibility
- 4 independent channels with parameter monitoring
- LED current up to 30 A, resolution in mA range

#### **AREAS OF APPLICATION**

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

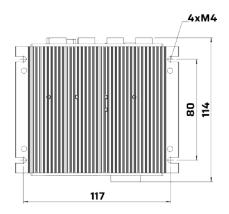


# *ampyr*° LED-M 4C-30/40

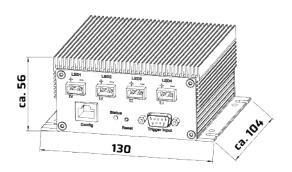
## Technical data

Input	parameters
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Supply voltage	$9$ to $48\mathrm{V}_{\mathrm{DC}}$	
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 <sub>10-90</sub>	3 µs	
Fall time t <sub>90-10</sub>	1 µs	
Efficiency (P <sub>out</sub> / P <sub>in</sub> )	to 97 %	
Output voltage	0 to V <sub>in</sub> -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 μs60 s, jitter < 0,1 μs	
Pulse delay	5 μs60 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	O 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,	



Top view ampyr LED-M 4C-30/40 (4-channel) dimensions in mm



2× clip for DIN rails, operating instructions, software

Front view ampyr LED-M 4C-30/40 (4-channel) dimensions in mm