

The LUCON® 4C-20A-V is a precision light controller for LED lighting, providing ideal illumination for objects in industrial image processing applications. Thanks to its integrated current and voltage control, it is compatible with almost all LED lighting systems and has a wide range of applications.



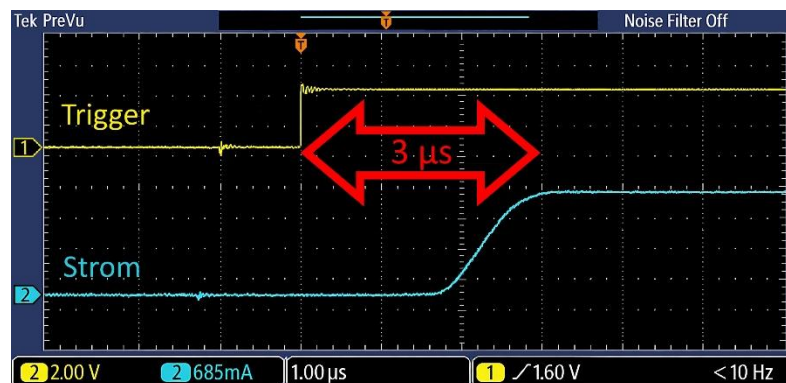
The lighting can be controlled in continuous or flash mode. Each channel can be configured completely independently of the others and deliver maximum power. The cross-connector module allows up to 24 LUCON® 4C-20A-V units to be connected together, enabling control of up to 96 lights.

Highlights

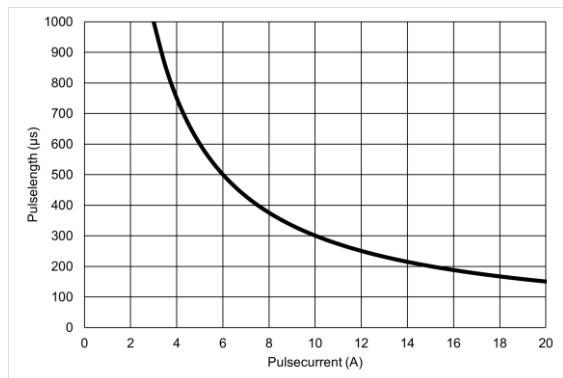
- Currents up to 20 A per channel
- Voltages up to 60 V per channel
- Modular design for up to 96 channels
- Configuration via integrated website
- Integrated error detection

Possible Applications

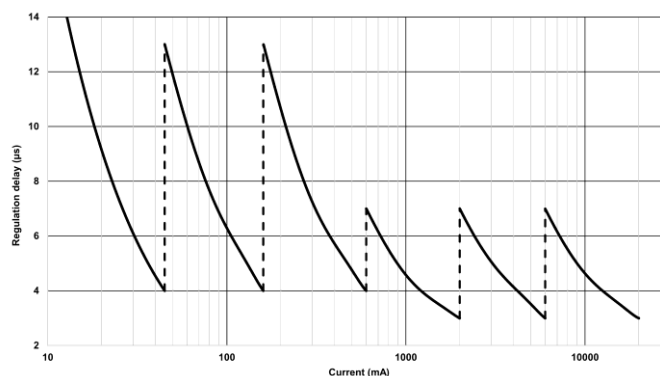
- Industrial machine vision
- Component characterization
- Control of diode lasers
- Operation of heating elements



Pulse delays of only 3 μs



Pulse length as a function of pulse current



Regulation delays for different currents

Technical Data

Power Supply

Voltage (V _{IN})	24 V _{DC} (+/- 10 %)
Current use (Idle)	100 mA

Lighting Outputs

Number of Channels	4 (completely independent)
Voltage (V _{OUT})	1 V _{DC} to 60 V _{DC}
Operating Modes	Continuous, Pulse, Switch

Output Current

Continuous	up to 3 A
Pulse	up to 20 A

Accuracy

Step size current	0,1 mA (1,0 mA to 45,0 mA) 0,5 mA (45,5 mA to 100,0 mA) 1 mA (101 mA to 500 mA) 5 mA (505 mA to 1500 mA) 10 mA (1510 mA to 3000 mA) 25 mA (3025 mA to 10000 mA) 50 mA (10050 mA to 20000 mA)
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Trigger Inputs

High-Level:	+ 11 V _{DC} to + 30 V _{DC}
Low-Level:	-3 V _{DC} to + 5 V _{DC}
min. trigger length	1 µs
Compliant	EN 61131-2 Type 1 and Type 3
Number of Inputs	4

Trigger Outputs

min. trigger length	1 µs
Trigger-Level:	+ 5 V _{DC} bis + 24 V _{DC}
Number of Outputs	4

Timings

Pulse Duration	5 µs bis 59.000.000 µs
Pulse Delay	3 µs bis 59.000.000 µs
Trigger-Frequency	up to 50 kHz

Parameterization

Commands	UDP
GUI	Integrated configuration website

Interfaces

Ethernet	RJ45
Default-IP	10.0.30.2
Default-Port	50 000
Expansion	cross-connector bus

Mounting

Installation	35 mm DIN rail, EN50022; cooling slots facing upwards
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Mechanical Data

Dimension (W x D x H)	107,6 mm x 111,0 mm x 60,6 mm
Weight	304 g

Environmental Conditions

Operating Temperature	+ 10 °C to + 60 °C
Over Temperature	80 °C

Ordering Information

Item Number	00047900
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