

## LUCON<sup>®</sup> 2 - The compact lighting control

LUCON<sup>®</sup> 2 is a precision light controller with current and voltage regulation to control any LED illumination setup in machine vision and image acquisition applications. The lighting can be controlled in a continuous mode as well as in a flash mode. Currents of up to 20 A are possible.

By regulating current and voltage, high efficiency and thus lower heat generation is achieved.



### Advantages:

- currents of up to 20 A per channel
- flexibility and scalability through modular design
- easy configuration via integrated website
- ethernet and serial interface

The modular master/slave architecture allows the LUCON<sup>®</sup> 2 lighting controllers to be used in a wide range of applications. One LUCON<sup>®</sup> 2 module supplies power to one LED light channel. In total, up to 16 independent lighting systems can be controlled in this way. Since a LUCON<sup>®</sup> 2 master consists of both a communication and a power section, it serves as the configuration interface for the user and all light channels. A LUCON<sup>®</sup> 2 slave, on the other hand, has only a power section.

All connected channels can be configured conveniently and easily via a single interface on the master module. The respective channel configuration is stored decentrally in each module separately.

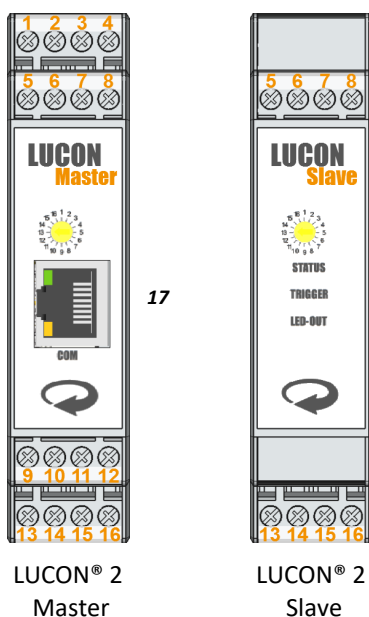


	LUCON® 2 Master	LUCON® 2 Slave
Article number	00039600	00039601
Supply voltage (V <sub>IN</sub> )	12 to 48 V <sub>DC</sub>	
Output voltage (V <sub>OUT</sub> )	0,7 V <sub>DC</sub> to (V <sub>IN</sub> - 2) V <sub>DC</sub>	
Output power	Up to 3 A continuous <sup>1)</sup> or up to 20 A pulsed	
Step width	0,1 mA (1 mA to 50,0 mA) 0,5 mA (50,5 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)	
Trigger input	High-Level: 3 V - 24 V Low-Level: 0 V - 1,4 V max. 30 V / 10 mA	
Trigger output	Open Collector max. 30 V / 50 mA	
Interface	RS232 @ 57600bps RJ45 @ UDP (with configuration website)	
Flash duration	0,005 - 59000 ms	
Switch-on delay	0,023 - 59000 ms	
Installation	35 mm DIN top-hat rail, EN50022; cooling slots upwards	
Dimensions (w x d x h)	22,6 mm x 92 mm x 99 mm	
Weight	130 g	106 g
Operation temperature	0 °C - 50 °C	
Overtemperature (shutdown, internal)	80 °C	

<sup>1)</sup> If a limit temperature is exceeded, the output switches off automatically. Observe total current over all modules, must not exceed 24 A

Ports LUCON® 2 Master: Supply, Trigger, RS232, Output, Ethernet

Ports LUCON® 2 Slave: Trigger, Output



Type	Pin	Assignment	Description
Supply	1	GND	Supply GND
	2	GND	Supply GND <sup>1</sup>
	3	Vcc	Supply +12 - 48 V
	4	Vcc	Supply +12 - 48 V <sup>1</sup>
Trigger	5	TRO-	Trigger Out -
	6	TRO+	Trigger Out +
	7	TRI-	Trigger In -
	8	TRI+	Trigger In +
RS232	9	TXD	RXD PC o. SPS
	10	RXD	TXD PC o. SPS
	11	nc	-
	12	GND	GND of RS232
Output	13	+	LED light +
	14	nc	-
	15	-	LED light -
	16	nc	-
RJ45	17	Ethernet	network

<sup>1)</sup> required if more than 8 power modules are connected