

# LUCON®

The compact LUCON® light controller by GEFASOFT provides multiple modes of operations to drive LED illuminations in many form factors from a variety of suppliers.

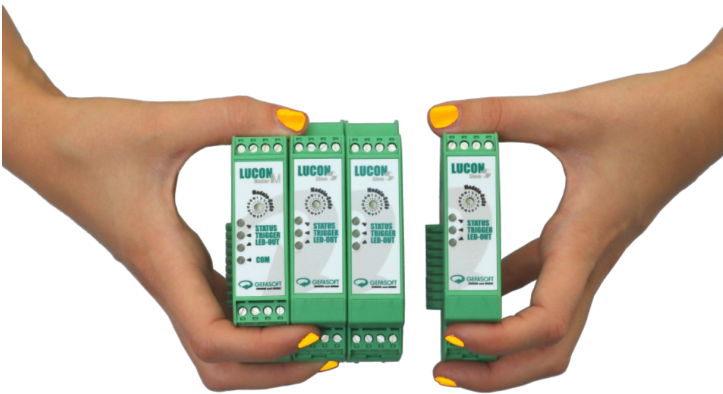
Every illumination can be operated in strobe mode, continuous or triggered mode. The mode can be set independent for every channel.

## Features:

- Master module, with one output channel integrated
- Add up to 15 slave modules for modular extension, every slave module drives one channel
- A total of 16 light sources can be independently controlled from one master module
- Per channel independent settings of parameters and operation mode (strobe, cont., triggered)



The status LED's on the LUCON® front side provide a quick overview of the actual system status.



## Benefits:

- No cooling or ventilation required
- Flexible extension of system configuration
- Safety circuit to protect the connected light source
- Simple DIN rail mounting

The user can adjust parameters for various light situations and save the settings.

All system parameters like power, voltage, timings can be saved to EEPROM for each single channel .



		LUCON®-M (Master)	LUCON®-S (Slave)	LUCON®-C (Com)
Article number		00020425	00020426	00038732
Supply voltage	V <sub>DC</sub>	10 - 40		
max. power rating	A	2 (12 or 24) <sup>2</sup>	1,8	0,2 (12 or 24) <sup>2</sup>
Output voltage	V	0,7 - 35		-
Output current	mA	0 - 1600		-
Adjustable power step size	mA	1		-
Output accuracy	mA	30% @1mA <sup>1</sup> 2% @50mA <sup>1</sup> 1,9% @1600mA <sup>1</sup>		-
Latency	ms	Über ext. Trigger: < 0,01ms <sup>1</sup> Über serielle Kommunikation: < 4ms (inkl. Kommunikation) <sup>1</sup>		
Trigger input	ms	low-Level: < 2V / high-Level: > 7,5V (-40 V to +40 V max.)		-
Interface		RS232 @ 57600bps	(TWI via Master- oder Com-Modul)	RS232 @ 57600bps RJ45 @ UDP
Strobe width	ms	0,001 - 500		-
Trigger delay	ms	0 - 5000		-
Mounting		35 mm DIN Hutschiene, EN50022; Kühlschlitze nach oben		
Dimensions (W x D x H)	mm	22,6 mm x 92 mm x 99 mm		
Weight	g	97	92	92
Operation temperature		0 °C - 50 °C		
Temperature limit		80 °C		
Storage temperature		-50 °C - +85 °C		
Recommended power supply		Last-stabilisiertes Gleichspannungsnetzteil mit minimaler Restwelligkeit z.B. Puls GmbH, ML oder QS20-Serie		

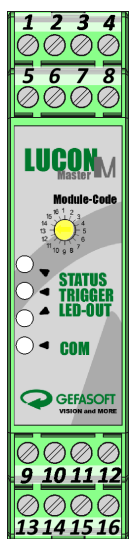
<sup>1</sup>) values measured with Luxeon III Star LED (Philips Lumileds)

<sup>2</sup>) With up to 8 channels / slaves max. 12 A, with up to 16 channels / slaves max. 24 A.

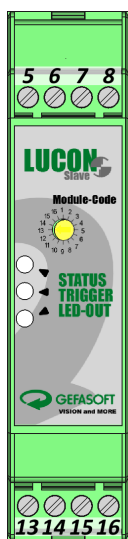
Terminals LUCON®-M (Master): Power supply, Trigger, RS232, Output

Terminals LUCON®-S (Slave): Trigger, Output

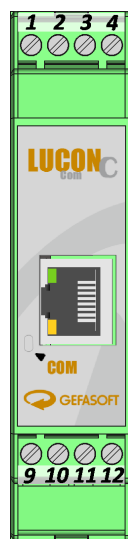
Terminals LUCON®-C (Com): Power supply, RS232, Ethernet



LUCON®-M (Master)



LUCON®-S (Slave)



LUCON®-C (Com)

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Type	Pin	Assignment	Description
Power supply	1	GND	Supply GND
	2	GND	Supply GND <sup>1</sup>
	3	Vcc	Supply +10...40V
	4	Vcc	Supply +10...40V <sup>1</sup>
Trigger	5	GND	Trigger GND (if necessary)
	6	nc	-
	7	Trigger	-40 V to +40 V ; HIGH > 7,5V
	8	nc	-
RS232	9	TXD	RXD PC or PLC
	10	RXD	TXD PC or PLC
	11	nc	-
	12	GND	RS232 GND
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



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