

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.

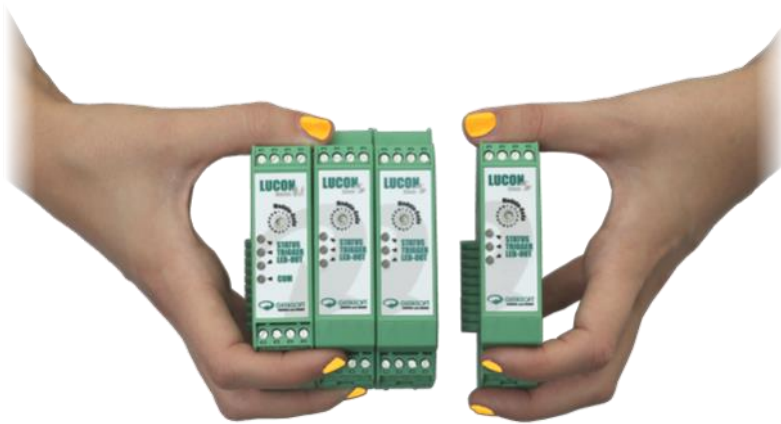
Every illumination can be operated in strobe mode, continuous or triggered mode. The mode can be set independent for every channel.

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.



Benefit:

- 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.

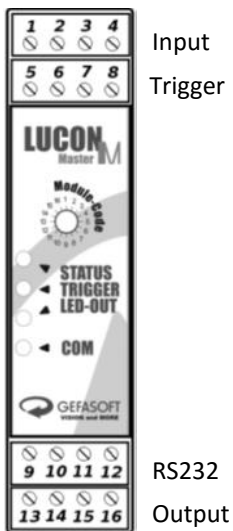
All system parameters like power, voltage, timings can be saved to EEPROM for each single channel.



		LUCON®-M (Master)	LUCON®-S (Slave)
Article number		00020425	00020426
Supply voltage	V DC	10 – 40	
max. power rating	A	2	1,8
Output voltage	V	0,7 – 35	
Output power	mA	0 – 1600	
Adjustable power step size	mA	1	
Output accuracy	mA	30% @1mA * 2% @50mA * 1,9% @1600mA *	
Latency	ms	via ext. trigger: < 0,01ms * via serial communication: < 4ms (incl. communication) *	
Trigger input	ms	low-Level: < 2V / high-Level: > 7,5V (-40 to +40V max.)	
Interface		RS232 @ 57600bps	(TWI via Master Module)
Strobe width	ms	0,001 – 500	
Trigger delay	ms	0 - 5000	
Mounting		35mm DIN rail, EN50022; venting slots top side	
Dimensions (W x D x H)	mm	22,6 mm x 92mm x 99 mm	
Weight	g	97	92
Operation temperature		0° C — 50° C	
Temperature limit		80° C (internal auto shut down)	
Storage temperature		-50° C — +85° C	
Recommended power supply		Load-stabilized DC power supply with minimal residual ripple e.g. Puls GmbH, ML oder QS20-Serie	

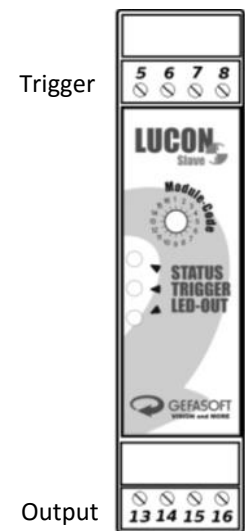
* values measured with Luxeon III Star LED (Philips Lumileds)

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



Pin	Assignment	Description
1	GND	Supply GND
2	GND	Supply GND ¹
3	Vcc	Supply +10...40V
4	Vcc	Supply +10...40V ¹
5	GND	Trigger GND (if necessary)
6	nc	—
7	Trigger	-40V to +40V ; HIGH > 7,5V
8	ACK	dig. Out (if necessary)
9	TXD	RXD PC or PLC
10	RXD	TXD PC or PLC
11	nc	—
12	GND	RS232 GND
13	+	LED light +
14	nc	—
15	-	LED light -
16	nc	—

¹ required if you connect >8 slave modules to one master



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