



Data sheet

Constant current LED control gear
27 W, Multiple Output Series, DALI
SELV output

Kompakt III LED

Luxtronic®

LED control gear

More than 25 years of experience in the design and development of electronic lighting products, the close cooperation with test authorities and the joint research in the sector of explosion protection enable the company Hadler to develop products in accordance with market trends which will exactly meet the requirements. Function and, above all, safety will take priority over other requirements.

Furthermore, in accordance with the company philosophy, Luxtronic ballasts also reflect the "second idea": Features offering an additional benefit and using the full competence of the company Hadler to allow for a unique position in the market. Both large-scale and small-scale series of the Luxtronic ballasts can be produced in a cost-effective way. The proximity to the market allows for short delivery times.

Michael Lamkowski
Head of Research & Development

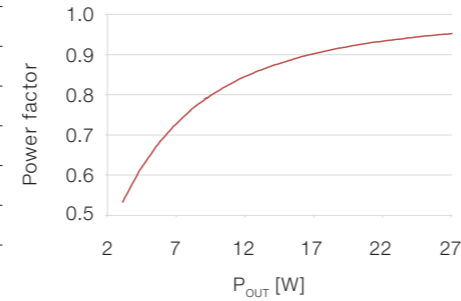


Table of contents

3 C 127 55 6	LED Control Gear 350 / 500 / 700 mA, 27 W, 220 - 240 V, DALI	4

Supply

Rated supply voltage	220 - 240 V
Rated supply frequency	50 - 60 Hz
Supply voltage range	198 - 264 V
Supply current	0.147 - 0.033 A
Power factor	0.45 C - 0.95, see graph
Total harmonic distortion THD _i	10.0 % - 21.0 %



Output

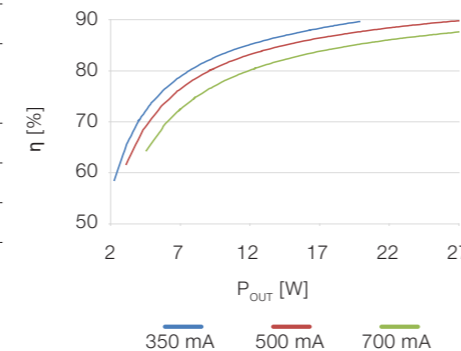
Output type	Constant current
Output voltage	6 - 57 V
I rated	350 / 500 / 700 mA
P rated	2.1 - 27.0 W
Output current accuracy	± 5 %
Output low-frequency ripple (≤ 120 Hz)	≤ 5.0 %
Output P _{st} ^{LM}	≤ 1.00
Output SVM	≤ 0.40
Output dimming characteristic	AM, PWM with 3,4 kHz at < 12.5 %

Control Interface

Dimming interface	DALI-2
Dimming curve	linear, logarithmic
Dimming range	0.5 % - 100 %
Interface current	≤ 1.7 mA consumption

Efficiency

Stand-By power consumption	≤ 0.40 W
No-Load power consumption	≤ 0.50 W
Electrical efficiency at full load	90 %, see graph



Temperature, Lifetime

Ambient temperature range t _a	-25 - 55 °C		
Maximum case temperature t _c	75 °C		
t _a	45 °C	50 °C	55 °C
t _c	65 °C	70 °C	75 °C
Lifetime	100,000 h	75,000 h	50,000 h

DC / Emergency operation

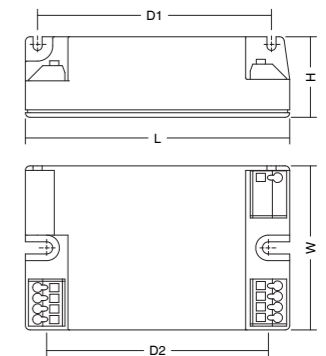
Rated DC supply voltage	176 - 275 V
DC supply current	0.175 - 0.013 A
EOF _i factory settings	15 %
EOF _i range	0.5 % - 100 %
Time to light	≤ 0.5 s
Intended for use in luminaires for high-risk task area lighting	
Note that thermal overload protection is active in AC and DC mode	

Dimensions

Length x width x height	87.0 x 54.0 x 27.0 mm
Mounting hole distances D1 / D2	77.0 / 74 - 82 mm
Mounting hole diameter	M4 max.

Ordering data

Weight	0.11 kg
Packaging unit	90 pcs.
Order no.	3 C 127 55 6



Thermal protection

Protected acc. to EN 61347-1, Annex C	yes
Limitation of heating	110 °C
Type of protection acc. to clause	C.5 e
Thermal derating starting above t_c	75 °C, typical
Thermally limited output level at 75 °C	50 %, typical
The unit decreases the output power to maintain a full lifetime	

Electrical safety

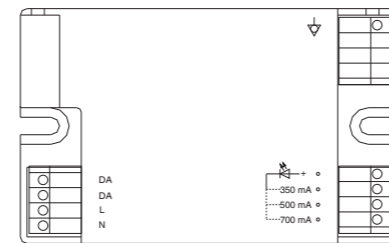
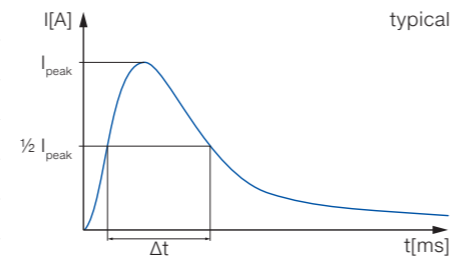
Use without earthing permitted	yes
Output working voltage U_{out}	60 V
Impulse withstand category	II
Controlgear is protected against accidental contact with live parts.	

Inrush current

Pulse amplitude I_{peak}	8.8 A		
Pulse duration Δt	27 μs		
<small>(measured with network impedance 720 mΩ)</small>			
Max. No. of ECG per circuit-breaker	-	char. B	char. C
	10 A	50 pcs.	50 pcs.
	16 A	80 pcs.	80 pcs.

Wiring

Maximum output cable length	200 cm
Input wire cross section	0.50 - 1.50 mm ²
Output wire cross section	0.50 - 1.50 mm ²
Interface wire cross section	0.50 - 1.50 mm ²



Standards

- EN 55015
- EN 61000-3-2
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62384
- EN 62386-207 (DT6)
- DiiA Specifications of DALI Parts 251 (DT50), 252 (DT51) and 253 (DT52)

Markings



Controlgear insulation coordination

	output	housing	EQUI	DALI
supply	SELV	basic	double/reinforced	basic
DALI	double/reinforced	basic	double/reinforced	
EQUI	basic	basic		
housing	basic			

Mains surge immunity acc. to EN 61000-4-5

Coupling line to line	≥ 1.0 kV
Coupling line to ground	≥ 2.0 kV



<http://www.hadler-gmbh.de/en/luxtronic/all-products/>

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