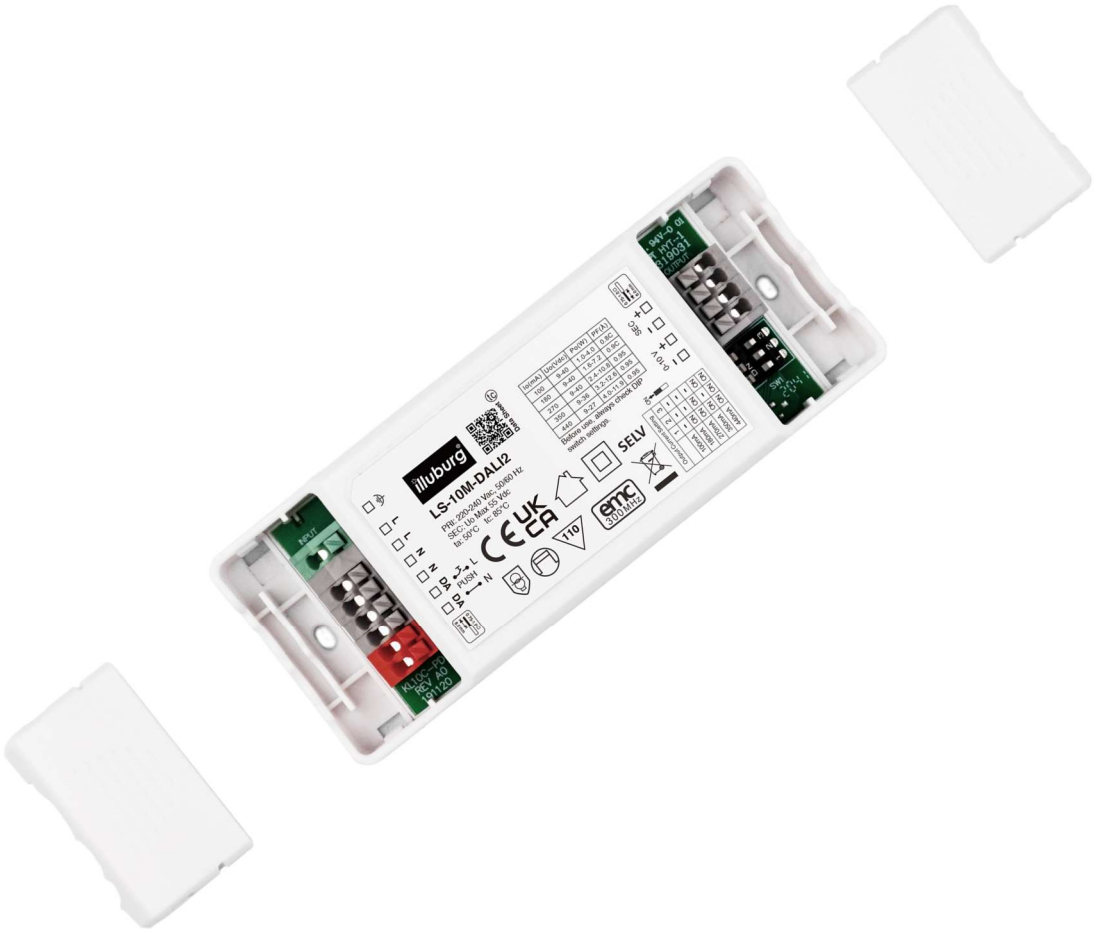
LS-10M-DALI2

LED power supply with adjustable output current
12.6 W max., IP20, independent installation
dimmable with DALI2, PUSH (pri.), 0-10V(sec.)
Flicker-free according to IEEE 1789

DALI-2 Dimmable | PUSH Primary Dimmable | FLICKER FREE | MULTIPLE OUTPUT | INDEPENDENT INSTALLATION | 0-10V Dimmable

Exploded view



Electrical data

Rated input voltage	220...240 Vac		
Range of input voltage	198...264 Vac		
Range of input voltage (DC)	200...240 Vdc		
Mains frequency	50/60 Hz		
Power factor (λ)	0.80C @230Vac	100mA/40V	Full Load
	0.90C @230Vac,	180mA/40V	Full Load
	0.95 @230Vac,	270mA/40V	Full Load
		350mA/36V	
		440mA/27V	
Input current	0.07 max.		230Vac
Inrush current	8 A max.		
Output voltage	55 V Max		
Output options	100 mA, 9-40 Vdc, 1.0-4.0 W		180 mA, 9-40 Vdc, 1.6-7.2 W
	270 mA, 9-40 Vdc, 2.4-10.8 W		350 mA, 9-36 Vdc, 3.2-12.6 W
	440 mA, 9-27 Vdc, 4.0-11.9 W		
Output power (nominal)	12,6 W max.		
Efficiency	79 % max.		Full Load, 230 Vac
Life time	5 years		Ta Full Load
Dimming	DALI-2 (2-100%) (max lead length: 300m)		
	PUSH (Primary) (2-100%)		
	0-10V (2-100%)		

Operating condition

Operating temperature range (ta)	-25...+50 °C
Max. Surface temperature (tc)	85 °C
Permitted rel. humidity	10...95 %
Protection class	I
Type of protection	IP20

Protection

Short circuit protection	Yes *
Overload protection	Yes *
Overheating protection	Yes *

(*) The output shuts off and will be resumed, after problem is removed and led driver is restarted.

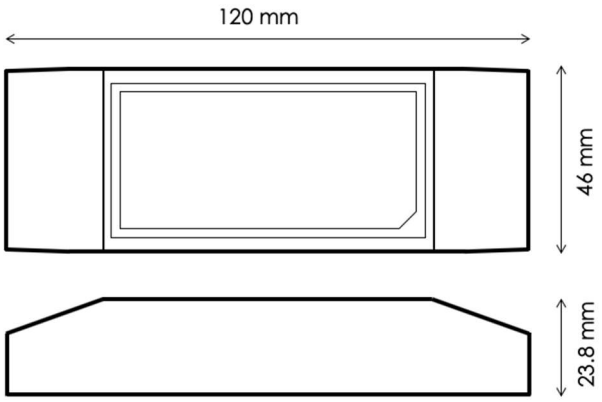
Standards & Certificates

Standards	EN 61347-1, EN 61347-2-13 EN 62493, EN60598-1 EN 61000-3-2, EN 61000-3-3 EN 55015, EN 61547
Standards (DALI)	IEC62386-102, IEC62386-207 DT6
Approval marks	CE, UKCA
RoHS compliant	Yes

Installation

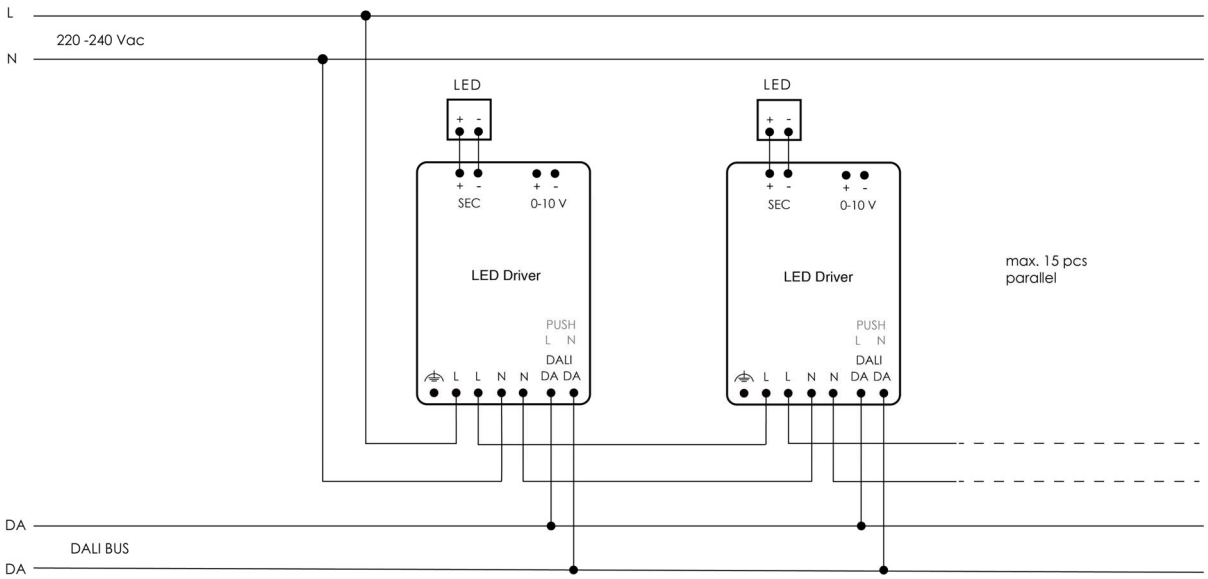
Type of installation	Independent installation	
Type of connection	Spring-loaded terminal	
Cable cross-section, input side	0.75...1.5 mm²	
Cable cross-section, output side	0.75...1.5 mm²	
Cable preparation length, input side	6...8 mm	
Cable preparation length, output side	6...8 mm	
Circuit breaker (230V)	10A Typ B: 40 pc. 13A Typ B: 50 pc. 16A Typ B: 65 pc. 20A Typ B: 85 pc. 25A Typ B: 100 pc.	10A Typ C: 70 pc. 13A Typ C: 80 pc. 16A Typ C: 105 pc. 20A Typ C: 130 pc. 25A Typ C: 160 pc.

Dimension



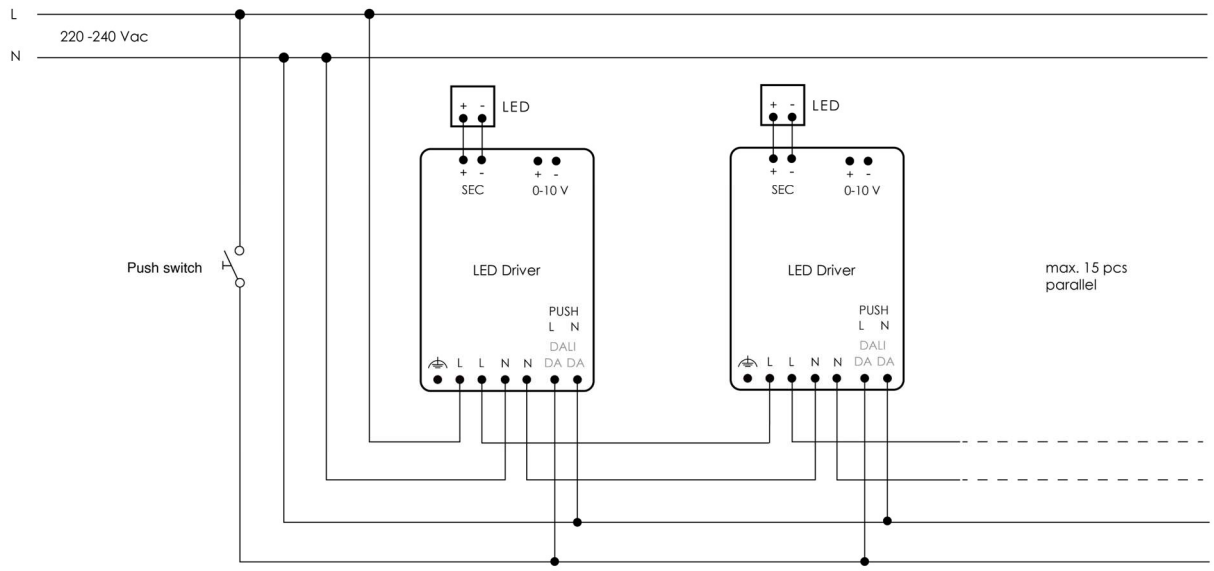
Connection

DALI Dimming



For lamps with "protection class I", a protective lead to earth (⏚) is required.
For lamps with "protection class II", a protective lead to earth (⏚) is optional
For lamps with "protection class III", a protective lead to earth (⏚) is not required.

PUSH(pri.) Dimming



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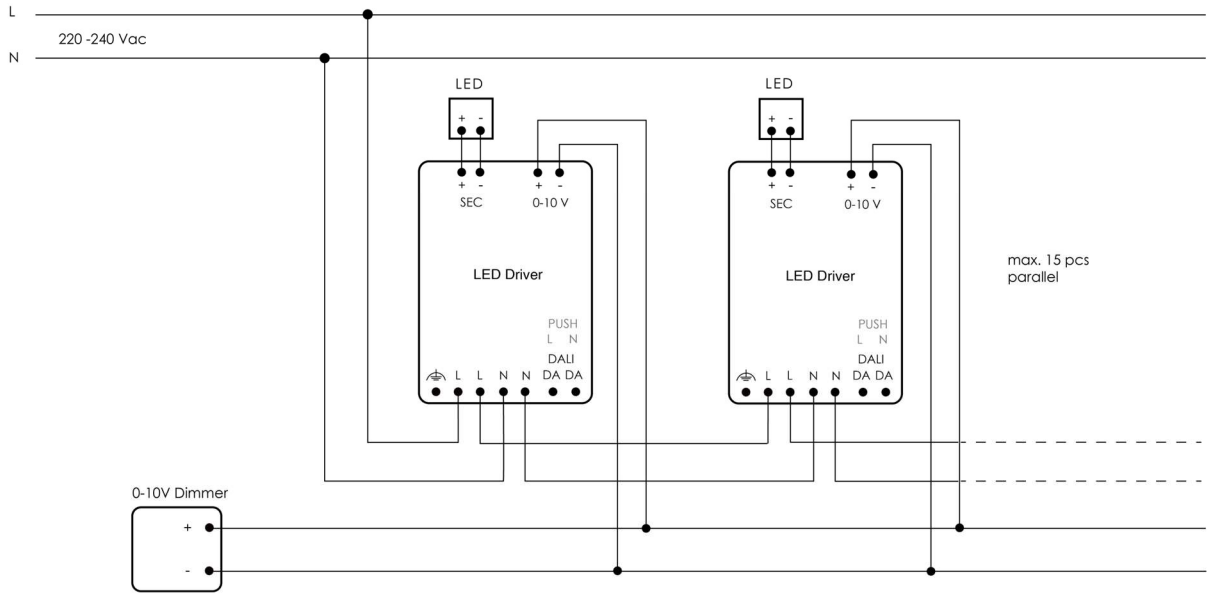
0-10V Dimming



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Control via PUSH Button

Action	Duration	Status	Function
Short press once	< 0.5 s	LED on	Turn off LED
		LED off	Turn on LED with latest brightness setting
Long press and hold	0.5-14 s	LED on	Dim the brightness up / down. Each new long press changes the dimming direction.
	> 15 s	LED on	Synchronize all LED-Drivers with 100% brightness*
	> 0.5 s	LED off	Turn on and synchronize all LED-Drivers with 5% brightness*

* In case of parallel connection with multiple LED power supplies using single PUSH button

Safety Notice

	Dangerous currents flow through the body when coming into direct or indirect contact with live components. This can result in electric shock, burns or even death. Work improperly carried out on current-carrying parts can cause fires. ■ Disconnect the mains power supply prior to installation and/or disassembly! ■ Permit work on the 230 V supply system to be performed only by specialist staff.