

IT DALI 40/220-240/450 D LT2 L (NEW)

ICUTRONIC Intelligent – DALI LEDset LT2 (SELV) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- With Touch DIM and Corridor Function
- Supply voltage: 220...240 V
- Available with output current range: up to 800 mA
- SELV driver
- Constant Lumen Output (CLO)
- Versatile scope of application due to output power range of up to 100 W

Product family benefits

- DALI-2 certified
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- High-quality dimming of 3...100 % by amplitude dimming
- Wide operating range
- High quality of light thanks to <4% output ripple current
- High efficiency
- Low network standby consumption $\leq 0.25\text{ W}$
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection
- Non-isolated driver
- 3- and 4-channel DMX dimmer for RGB and RGBW LED module
- Small, slim white metal housing (W)30 x (H)21 mm

Areas of application

- Linear and area lighting
- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J, except those used in high-risk task areas, i.e. those systems must not be used in workplaces where operators and other occupants of the premises are involved in potentially dangerous processes or situations.
- Suitable for luminaires of protection class I
- Suitable for emergency light installations

Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	21
Max. ECG no. on circuit breaker 16 A (B)	33
Maximum output power	40 W
Minimum output current	100 mA
Nominal output current	100...450 mA
Nominal output power	5.4...40 W
Nominal output voltage	54...240 V ¹⁾
Nominal input voltage	220...240 V
Input voltage AC	198...264 V ²⁾
Input voltage DC	176...276 V
Device power loss	4.6 W ³⁾
Efficiency in full-load	92 % ⁴⁾
Inrush current	33.6 A ⁵⁾
Networked standby power	<0.25 W ⁴⁾
Power factor λ	0.46C...0.97 ⁶⁾
Mains frequency	50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV ⁷⁾
U-OUT (working voltage)	250 V ⁸⁾
Current set	DALI / Rset / Programmable
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 4 % ⁹⁾
Protective conductor current	<2.0 mA
Default output current	100 mA

1) Maximum voltage ≤ 250 Vdc w/ Open Circuit

2) AC or RAC

3) Maximum / At 230 V, full load

4) at 230 V, 50 Hz

5) $t_h = 120 \mu s$

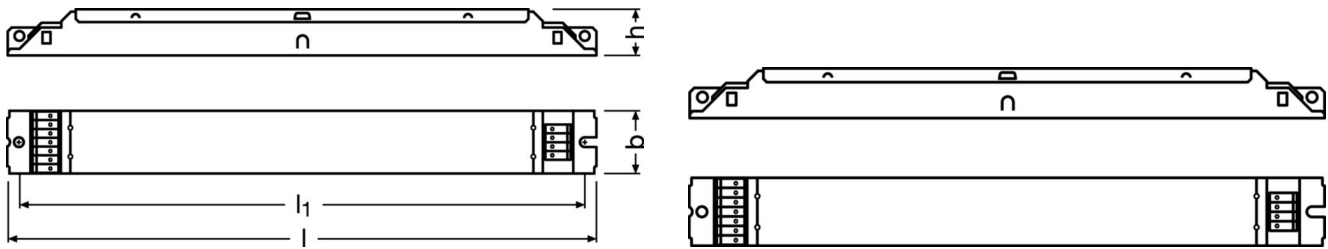
6) Full load, 220...240 V, 50 Hz / see graphs

7) L/N – PE acc to EN 61547 Clause 5.7

8) Maximum voltage, 1 hour maximum, unit might not operate in this abnormal condition

9) 100 Hz., low freq. ripple is negligible

Dimensions & weight



Product weight	205.00 g
Length	280.0 mm
Height	21.0 mm
Width	30.0 mm
Cable cross-section, input side	0.5...1.5 mm ² ¹⁾
Cable cross-section, output side	0.5...1.5 mm ² ¹⁾
Mounting hole spacing, length	270.0 mm
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm

1) Solid/ Flexible Leads

Colors & materials

Casing material	Metal
Product color	White

Temperatures & operating conditions

Ambient temperature range	-25...+60 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Permitted relative humidity at storage	5...85 %
Temperature range at storage	-40...+85 °C

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) $T_c = 75^\circ\text{C}$, 0.2% / 1,000 h failure rate / $T_c = 65^\circ\text{C}$, 0.1% / 1,000 h failure rate / 24H ON

Additional product data

Predecessor EAN	4062172053280
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Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Number of channels	1
Dimmable	Yes
Dimming interface	DALI-2
Dimming method	Full analogue dimming
Dimming range	3...100 %
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Short-circuit protection	Automatic reversible
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
LEDset	Yes
No-load proof	Yes
Programming interface	Rset

1) Output wires must be routed as close as possible to each other

Programming

Box programming	No
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Programmable features

Dim to Dark	No
DALI Settings	Yes
DALI-2 Luminaire Data	No
Driver Guard	Yes
Emergency Mode	Yes

Certificates & standards

Type of protection	IP20
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547
Approval marks – approval	CE / ENEC / CCC / BIS / RCM ¹⁾

1) In preparation

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	02-09-2024
Primary Article Identifier	4062172380096
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Additional product information

- The lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- The control gear is not intended for use in luminaires for high-risk task area lighting.

Download Data

File		
Certificates	PDF	▶ OT ENEC 40038085 230824
Certificates	PDF	▶ CCC_2023171002005108 IT DALI 220- 40 D LT2 L
CAD data 3-dim	Compressed	▶ IT DALI D LT2 L CAD3PDF 090824
Product Datasheet	PDF	▶ IT DALI 40 D LT2 L DS 050824
CAD data 2-dim	Compressed	▶ IT DALI D LT2 L CAD2PDF 090824
CAD data	Compressed	▶ IT DALI D LT2 L STEP 090824
Mandatory Publications	PDF	▶ IT DALI D LT2 L CE 4511886 201123
Mandatory Publications	PDF	▶ IT DALI D LT2 L UK DoC 4511888 201123
User instruction	PDF	▶ 15126365 UI IT DALI 220 240 D LT2 L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172380096	IT DALI 40/220-240/450 D LT2 L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm ³	211.35 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.