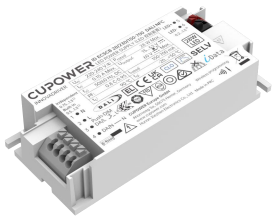
ID ECSCB 28/230/150-700 DALI NFC

Art. 162949

Product features

- Isolated adjustable power LED driver
- Supports DALI-2, push DIM control
- Current adjustment via NFC
- Supports i-Data function (DALI part 251, 252, 253)
- Output current 150…700 mA
- Max. output power 28 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Current output default value 100%
- For luminaires with protection class I, II



Product specifications

162949 ID ECSCB 28/230/150-700 DALI NFC

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
150…700 mA	220…240 Vac 220…240 Vdc	15…52 Vdc	90% (@ 52 V 540 mA)	± 5%	0.9 (Output Power > 11 W @ 230 Vac 50 Hz)	97.0 x 43.0 x 21.4

Electrical specifications

Mains voltage supply	
Rated input voltage range	220…240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz
Max. input current	0.16 A @ 230 Vac & 0.16 A @ 230 Vdc

Battery operation	
DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176…276 Vdc; operational safety range

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 3 kVac, < 5 mA 60 sec, I/p-Da: 1.5 kVac, < 5 mA 60 sec, O/p-Da: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV per IEC 61000-4-5

Total harmonic distortion (THD)	
At rated input voltage range @ full load	< 10%

Output data	
Output current tolerance	± 5% at rated input voltage range
No load output voltage	≤ 60 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)

Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
Bailutang Town Suxian District, Chenzhou, Hunan - China

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Ahornweg 5a
58675 Hemer – Germany

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Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage
DC emergency level	DALI current output decreased to 15% (programmable)

Protection functions output side

Overpower protection	The output power is less than or equal to 34 W
Short circuit protection	Short circuit protection is designed to turn off the output and cannot be automatically restored. After removing the short circuit, the output can be restored by one of the following two operations: • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.
Overvoltage protection	Open circuit protection is designed to turn off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations: • After receiving DALI instruction Off, turn on the light by dimming instruction. • Restart the driver: Power on the driver five seconds after the power failure.

Dimming operation and interface

Standby power consumption	< 0.3 W
Dimming mode	DALI-2, push dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100% (2...700 mA)

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5…1.5 mm² @ Built-in, 0.75…1.5 mm² @ Independent Output wire: 0.2…1.5 mm²
Wire stripping length	8…9 mm

Degree of protection

Protection rating	IP20

Operating data

Output current range	NFC control adjusts the current: 150…700 mA
Default current	150 mA
Output voltage range	15…52 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 21.6 A			Inrush current Twidth: 162 µs	
	MCB type	B10	C10	B16	C16
	Units	30	50	48	81

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Environmental specifications

Operating temperature	-20… +50°C
Storage temperature	-25… +85°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 85°C: 50,000 hrs @ 230 Vac (0.2% / 1,000 h failure rate)
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1: 2015/A1:2021	/	AS/ 61347.2.13: 2018
EN 61347-2-13: 2014/A1: 2017	/	AS/NZS 61347.1: 2016+ A1 Lamp Control Gear- Part 2-13
EN 62384: 2020	/	/
EN 300 330 V2.11: 2017	/	/
EN 62479: 2010	/	/
EN 50663: 2017	/	/
EN 301 489-1 V2.2.3:2019	/	/
EN 301 489-3V2.3.2: 2023	/	/
EN 55015:2019/A11: 2020	/	/
EN 61547: 2009	/	/
EN 61000-3-2:2019/A1: 2021	/	/
EN 61000-3-3:2013/A2: 2021	/	/

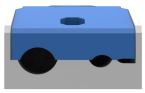
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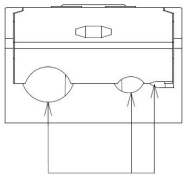
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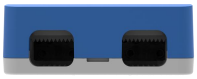
Accessories (optional)



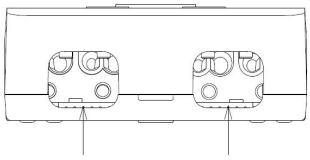
Art. 163397 XZ-ID-D



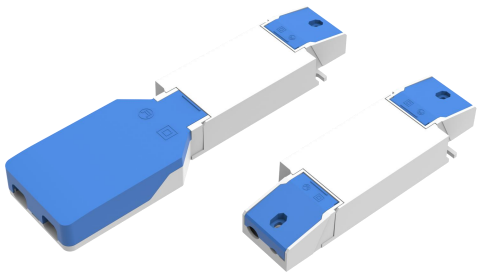
Ø2–Ø8 mm



Art. 163403 XZ-ID-LOOP-D



Ø2–Ø9 mm



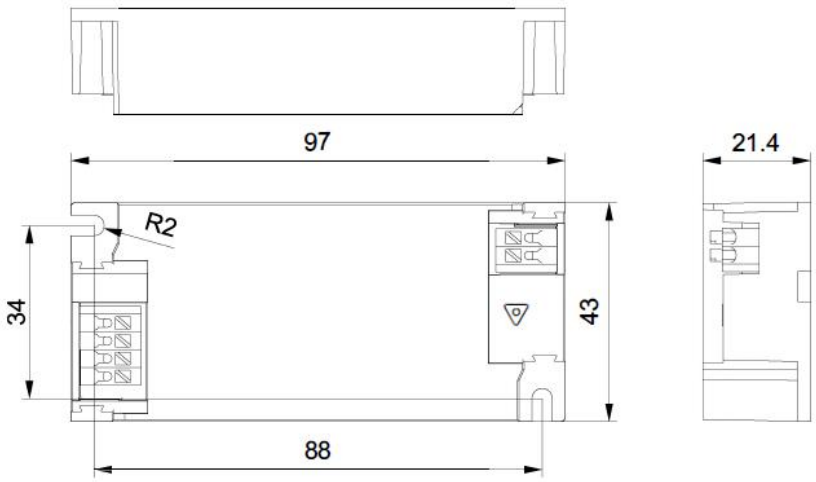
Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-D	38.0	33.0	21.4
XZ-ID-LOOP-D	101.6	56.5	21.4
Driver incl. 2 x XZ-ID-D	143.53	43.0	21.4
Driver incl. XZ-ID-D + XZ-ID-LOOP-D	207.23	56.5	21.4

Dimensions

Housing dimensions	
Length (L)	97.0 mm
Width (W)	43.0 mm
Height (H)	21.4 mm

For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details	
Packing units	24 pcs
Carton size	204 x 139 x 116 mm
Carton Weight	2.4 kg
Product Weight	0.093 kg



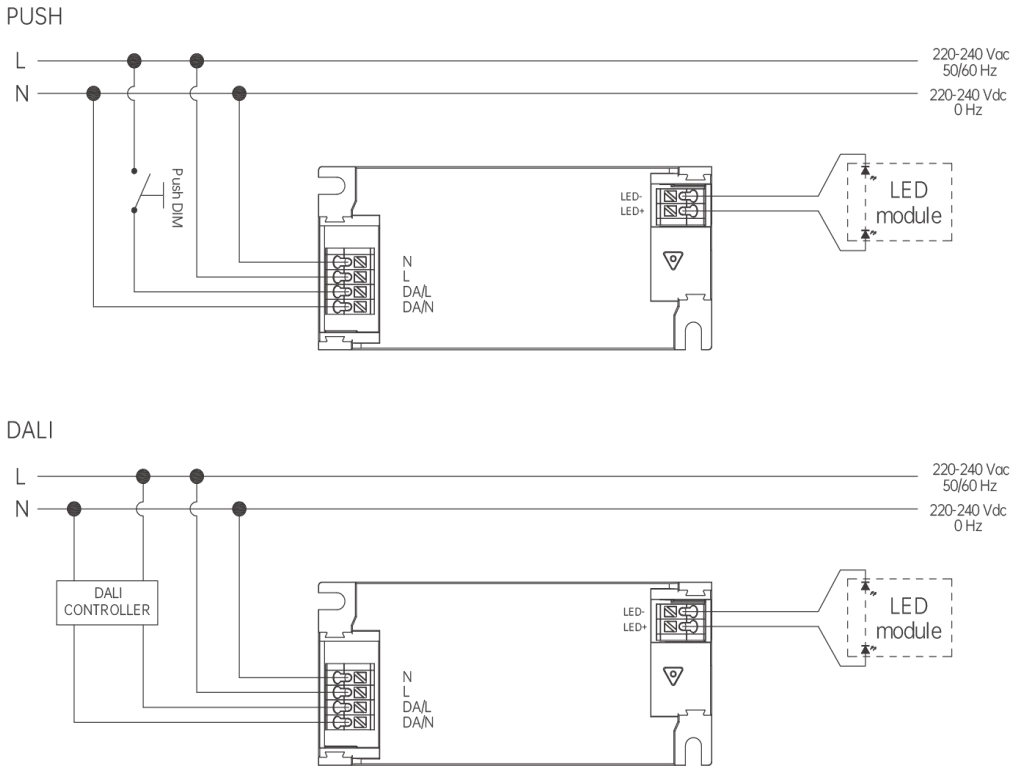
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Wiring diagram



Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.
- The recommended NFC communication distance：5...20 mm.
- For the PUSH DIM instruction manual, please refer to the link: CUPOWER PUSH DIM Manual
- For the Corridor Function instruction manual, please refer to the link: CUPOWER Corridor Function Manual

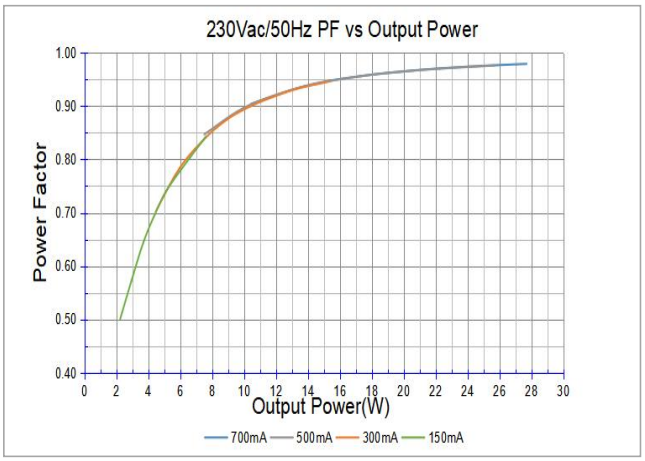
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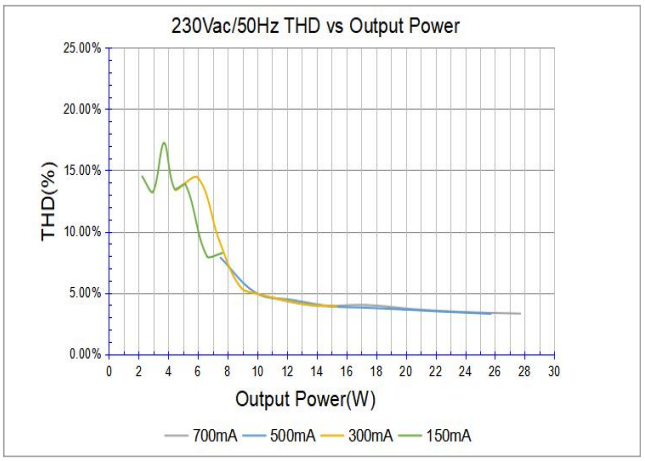
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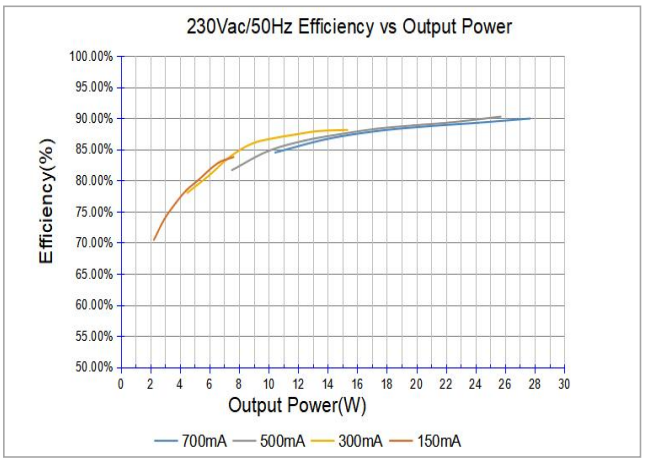
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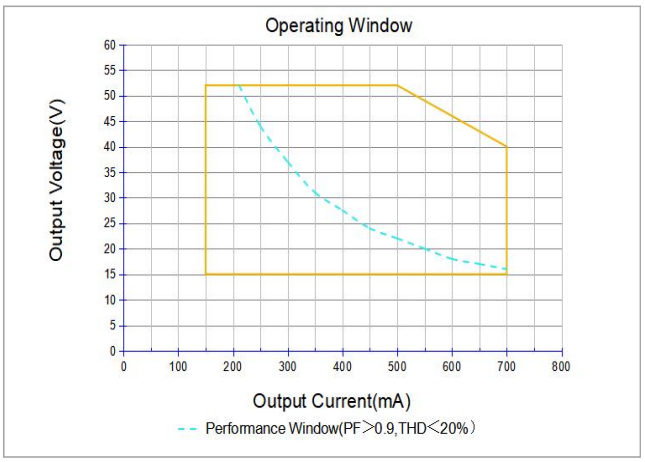
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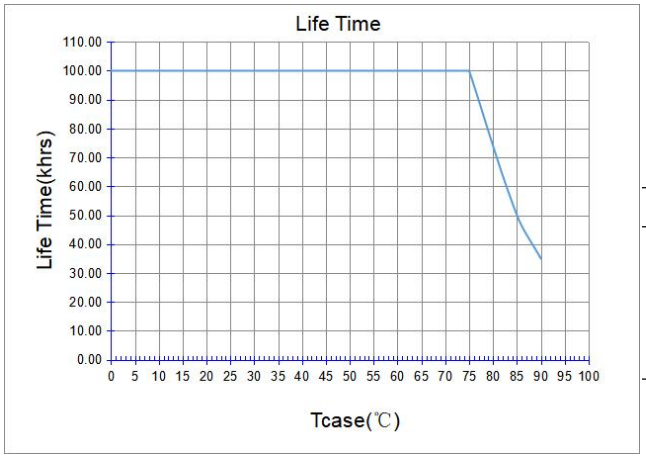
Technical information











at Tc 85 °C(0.2 % / 1,000 h failure rate)

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 28 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	538 mA	27.9
48	583 mA	27.9
44	636 mA	27.9
40	700 mA	28

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