

Product features

- Flicker-free LED driver
- Current adjustment via DIP Switch
- Output current 100 mA, 150 mA, 200 mA, 250 mA, 300 mA, 350mA, 400 mA, 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA (4 settings support 700mA)
- Max. output power 28 W
- Current output default value 100 mA
- For luminaires with protection class I, II



Product specifications

163229 RD ECSCB 28/230/100-700 DIP

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
100...700 mA	220...240 Vac 220...240 Vdc	25...42 Vdc	88%	± 5%	> 0.95	L97*W43*H21.4

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac
Max. input voltage range	198...264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.16 A @ 230 Vac

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...276 Vdc

Protection against voltage peaks

Withstand voltage	l/p-O/p: 3.75 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	< 10%
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Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	50 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)
Output PstLM	1 at full load @ rated input voltage
Output SVM	0.4 at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 55 V
Overpower protection	The output power is less than or equal to 48 W

Dimming operation and interface

Standby power consumption	-
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Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Output wire: 0.2-1.5 mm ² Input wire: Built in: 0.5-1.5 mm ² , Independent: 0.75-1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	DIP adjusts the current: 100...700 mA
Default current	100 mA
Output voltage range	25...42 Vdc

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 14.3 A			Inrush current T _{width} : 234 µs	
	MCB type	B10	C10	B16	C16
	Units	31	51	49	83

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.

Environmental specifications

Operating temperature	-20... +50°C
Storage temperature	-40...+80°C
Working humidity	10%...90%
Store humidity	5%...90%
Lifetime	at Tc 80°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	80°C

Safety & EMC compliance

ENEC+CE
EN 61347-1: 2015/A1:2021
EN 61347-2-13: 2014/A1: 2017
EN 62384: 2020
EN 55015:2019/A11: 2020
EN 61547: 2009
EN 61000-3-2:2019/A1: 2021
EN 61000-3-3:2013/A2: 2021
EN 62493:2015/A1:2022

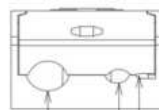
CCC
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SAA
AS/ 61347.2.13: 2018
AS/NZS 61347.1: 2016+ A1 Lamp Control Gear- Part 2-13
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Accessories (optional)



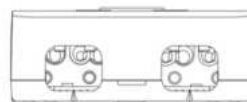
Art. 163397 XZ-ID-D



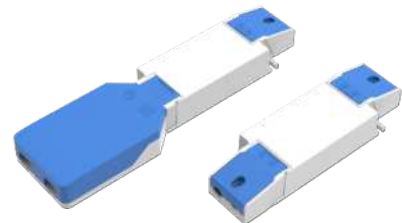
Ø2-Ø8 mm



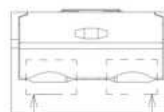
Art. 163403 XZ-ID-LOOP-D



Ø2-Ø9 mm



Art. 166503 XD-ID-D2



Ø2.5-Ø7.5 mm

Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-D	38	33	21.4
XZ-ID-D2	38	33	21.4
XZ-ID-LOOP-D	101.6	56.5	21.4
Driver incl. 2 x XZ-ID-D	143.53	43	21.4
Driver incl. 2 x XZ-ID-D2	143.53	43	21.4
Driver incl. XZ-ID-D + XZ-ID-LOOP-D	207.23	56.5	21.4

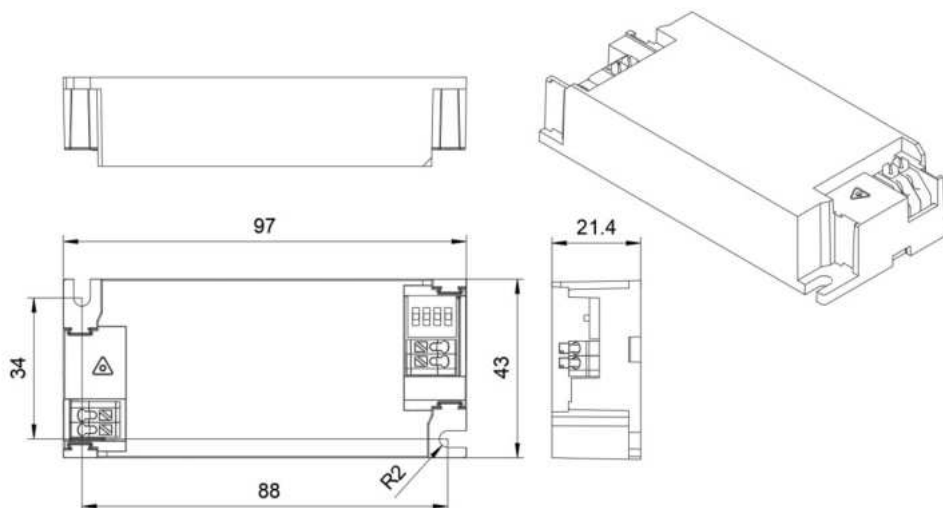
Dimensions

Housing dimensions

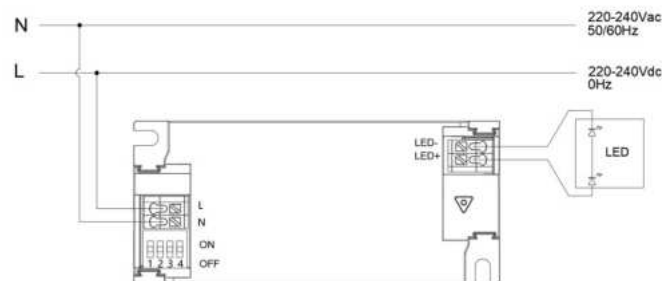
Length (L)	97 mm
Width (W)	43 mm
Height (H)	21.4 mm
Weight	0.092 kg

Packaging details

Packing units	60 pcs.
Carton size	303 x 225 x 120 mm
Weight	5.9 kg

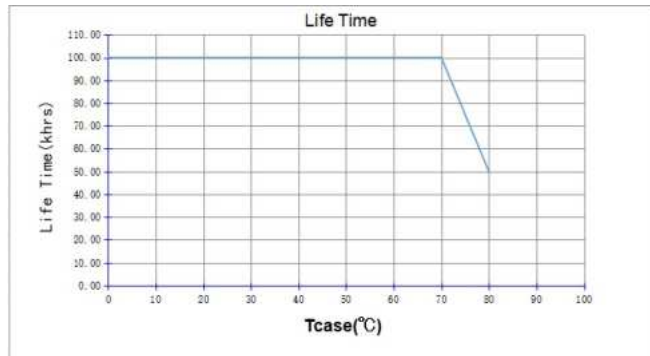
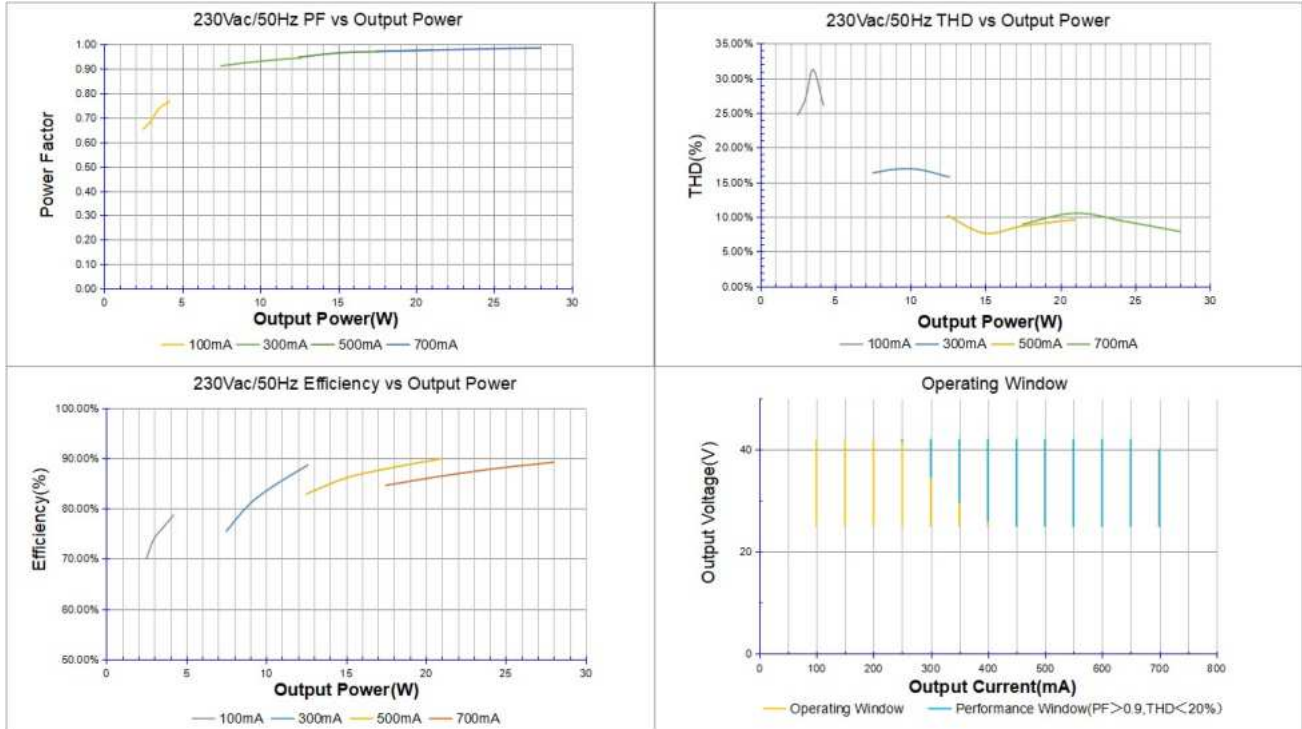


Wiring diagram



- 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.

Technical information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 42 W + 5%.

Adjustable output current with DIP-switch

Vout (V)	Pout (W)	Iout (mA)	1	2	3	4
25-42	4.2	100	-	-	-	-
25-42	6.3	150	-	-	-	ON
25-42	8.4	200	-	-	ON	-
25-42	10.5	250	-	-	ON	ON
25-42	12.6	300	-	ON	-	-
25-42	14.7	350	-	ON	-	ON
25-42	16.8	400	-	ON	ON	-
25-42	18.9	450	-	ON	ON	ON
25-42	21	500	ON	-	-	-
25-42	23.1	550	ON	-	-	ON
25-42	25.2	600	ON	-	ON	-
25-42	27.3	650	ON	-	ON	ON
25-40	28	700	ON	ON	-	-
25-40	28	700	ON	ON	-	ON
25-40	28	700	ON	ON	ON	-
25-40	28	700	ON	ON	ON	ON