

### Product features

- Built-in isolated adjustable power LED driver
- Flicker-free LED driver
- Output current 100...700 mA by DIP switch adjust
- Max. output power 28 W
- For luminaires with protection class II
- 5 years warranty



### Product specifications

#### 167166 ID ECSCI 28/230/100-700 DIP B

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
100 mA	220...240 Vac 220...240 Vdc	9...42 Vdc	81%	± 15 mA	0.66 C	153.5 x 31.1 x 45.7
150 mA		9...42 Vdc	85%		0.75 C	
200 mA		9...42 Vdc	86.5%		0.83 C	
250 mA		9...42 Vdc	87.5%		0.85 C	
300 mA		9...42 Vdc	88.5%	± 5%	0.91 C	
350 mA		9...42 Vdc	88.5%		0.93 C	
400 mA		9...42 Vdc	89%		0.94 C	
450 mA		9...42 Vdc	89%		0.95	
500 mA		9...42 Vdc	89%		0.96	
550 mA		9...42 Vdc	89%		0.96	
600 mA		9...42 Vdc	89%	0.97		
650 mA		9...42 Vdc	89%	0.97		
700 mA		9...40 Vdc	89%	0.97		

### 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

Performance / Operational safety	47...63 Hz
Max. input current	0.15 A @ 230 Vac & 0.15 A @ 230 Vdc

### Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176...280 Vdc; operational safety range

### Protection against voltage peaks

Withstand voltage	l/p-O/p 3.75 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%
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### Output data

Output current tolerance	100...250 mA ± 15 mA at rated input voltage range
Output current tolerance	300...700 mA ± 5% at rated input voltage range
No load output voltage	≤ 59 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 59 V
Short circuit protection	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed

### Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Output wire: 0.5...1.5 mm <sup>2</sup>
Wire stripping length	8...9 mm

### Degree of protection

Protection rating	IP20
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### Operating data

Output current range	Output current 100...700 mA by DIP switch adjust
Default current	100 mA
Noise level	< 20 dB, at full load @ 100 cm distance

### Circuit breaker / Inrush current

MCB loading quantity	Inrush current I <sub>peak</sub> : 7.8 A		Inrush current Twidth: 63 μs		
	MCB type	B10	C10	B16	C16
	Units	65	65	105	105

### 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...+35°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 50,000 hrs; at Tc 65°C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	75°C

### Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1		AS 61347.2.13:2018
EN 61347-2-13:2014/A1		AS/NZS 61347.1:2016
EN 62493:2015/A1		
EN IEC 62384		
EN IEC 55015:2019/A11		
EN IEC 61547		
EN IEC 61000-3-2:2019/A1		
EN61000-3-3:2013/A2		

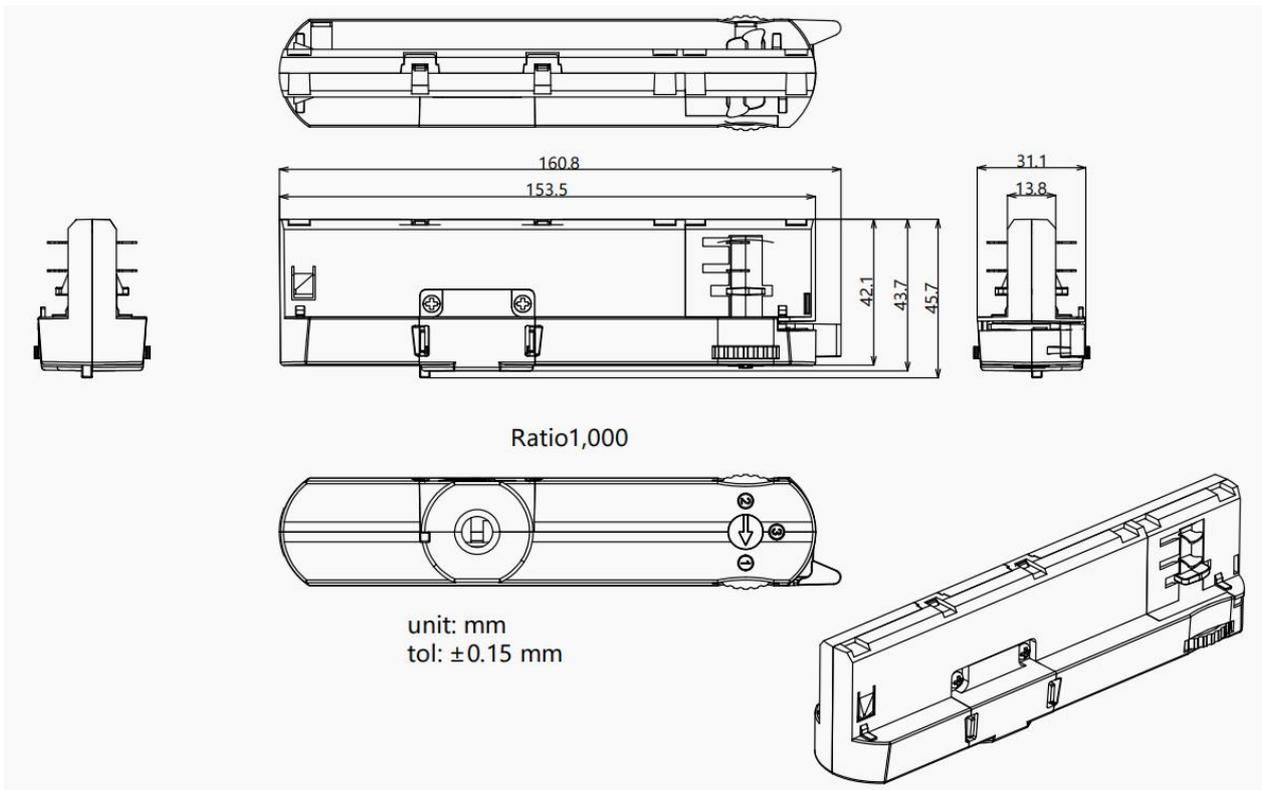
### Dimensions

#### Housing dimensions

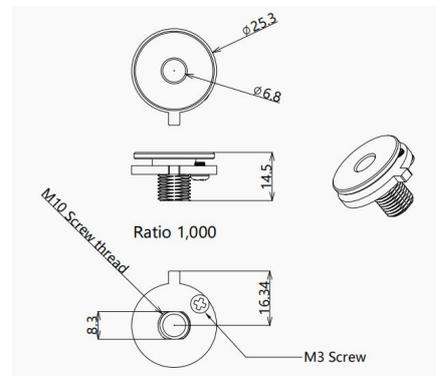
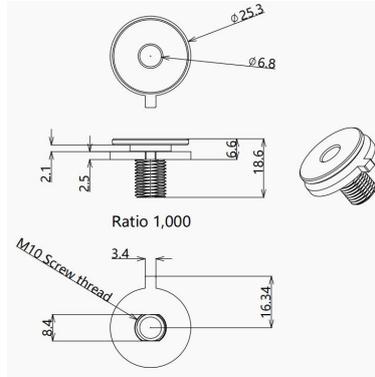
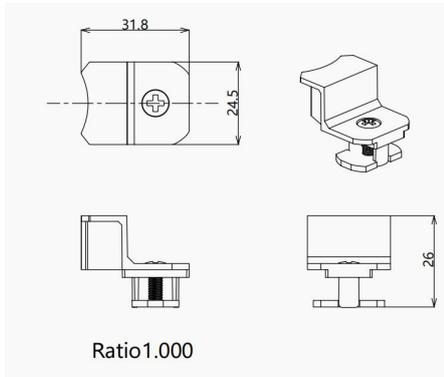
Length (L)	153.5 mm
Width (W)	31.1 mm
Height (H)	45.7 mm
Weight	0.108 kg

#### Packaging details

Packing units	50 pcs
Carton size	315 x 165 x 250 mm
Weight	6 kg



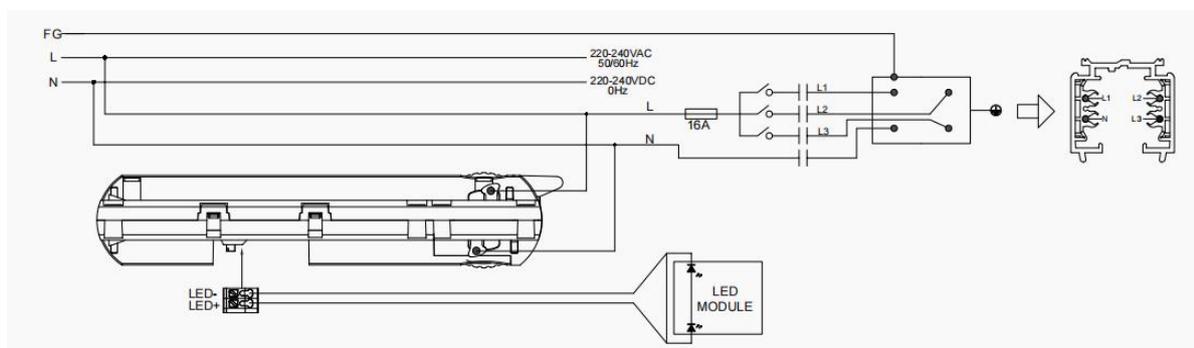
### Accessories (optional)



Art.	Dimensions	Length (mm)	Width (mm)	Height (mm)
167838	XZ-TRACK-A B	31.8	24.5	26
167852	XZ-TRACK-A1 B	25.3	25.3	18.6
168132	XZ-TRACK-B B	25.3	25.3	18.6

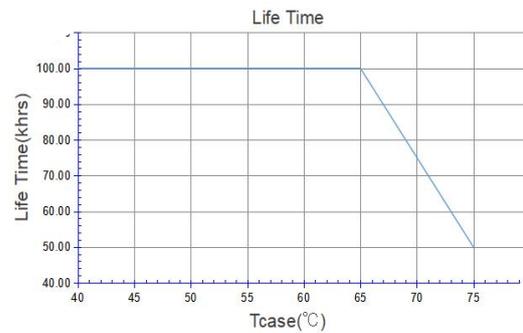
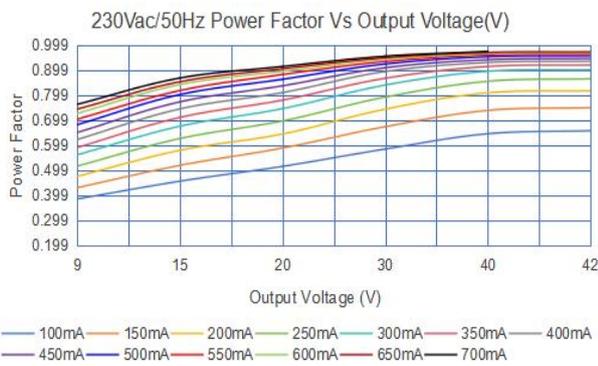
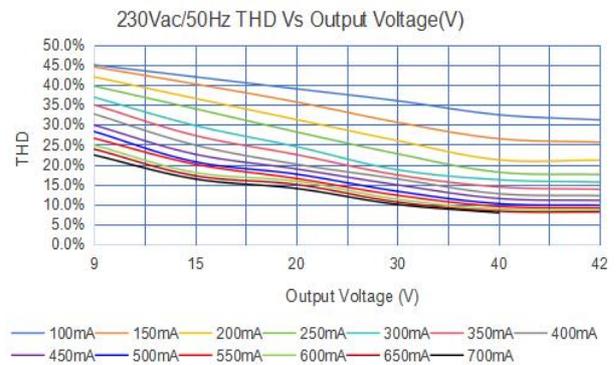
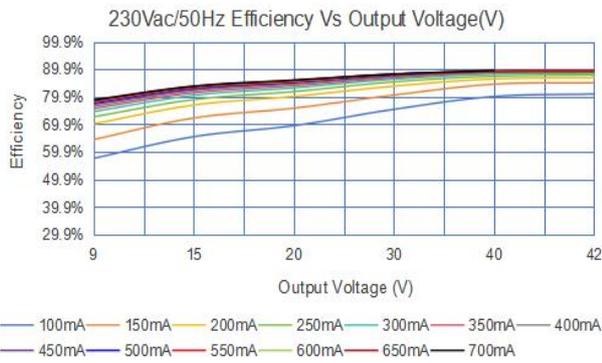
Remark: XZ-TRACK-A and XZ-TRACK-A1 are suitable for EL certification of complete luminaires, while XZ-TRACK-B is a standard track connector accessory.

### 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 circuit.

### Technical information



Adjustable output current with DIP-SWITCH						
Vout	Pout	Iout	1	2	3	4
9...42 Vdc	4.2 W	100 mA	OFF	OFF	OFF	OFF
9...42 Vdc	6.3 W	150 mA	OFF	OFF	OFF	ON
9...42 Vdc	8.4W	200 mA	OFF	OFF	ON	OFF
9...42 Vdc	10.5W	250 mA	OFF	OFF	ON	ON
9...42 Vdc	12.6 W	300 mA	OFF	ON	OFF	OFF
9...42 Vdc	14.7 W	350 mA	OFF	ON	OFF	ON
9...42 Vdc	16.8 W	400 mA	OFF	ON	ON	OFF
9...42 Vdc	18.9 W	450 mA	OFF	ON	ON	ON
9...42 Vdc	21 W	500 mA	ON	OFF	OFF	OFF
9...42 Vdc	23.1 W	550 mA	ON	OFF	OFF	ON
9...42 Vdc	25.2 W	600 mA	ON	OFF	ON	OFF
9...42 Vdc	27.3 W	650 mA	ON	OFF	ON	ON
9...40 Vdc	28 W	700 mA	ON	ON	OFF	OFF