

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 LxWxH (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 x 43 x 21.4 |

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 & 0.16 A @ 230 Vdc |

Battery operation

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

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 |

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) |
| 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

| | |
|--------------------------|--|
| Overvoltage protection | The output voltage is less than or equal to 60 V |
| Overpower protection | The output power is less than or equal to 34 W |
| Short circuit protection | <p>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:</p> <ul style="list-style-type: none"> • 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. |
| No load output voltage | <p>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:</p> <ul style="list-style-type: none"> • 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% |

Connection terminals

| | |
|--------------------------|--|
| Connection terminal type | 45° push in terminal |
| Wire cross section | Input wire: 0.5...1.5 mm ² @ Built-in, 0.75...1.5 mm ² @ Independent Output wire: 0.2...1.5 mm ² |
| 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 I _{peak} : 12.9 A | | Inrush current T _{width} : 236 μs | | |
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 21 | 35 | 33 | 56 |

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.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.
- The recommended NFC communication distance: 5...20 mm.

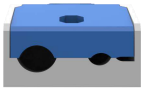
Environmental specifications

| | |
|------------------------|----------------------------------|
| 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 |
| Maximum Tc temperature | 90°C |

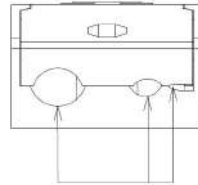
Safety & EMC compliance

| 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 | / | / |

Accessories (optional)



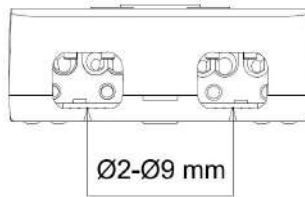
Art. 163379 XZ-ID-D



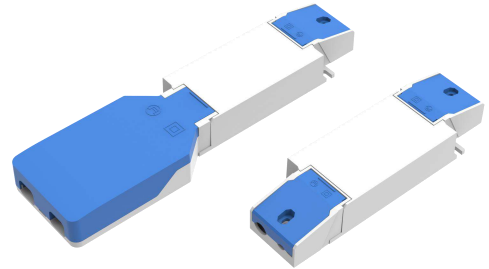
Ø2-Ø8 mm



Art. 163403 XZ-ID-LOOP-D



Ø2-Ø9 mm



| Dimensions | Length (mm) | Width (mm) | Height (mm) |
|-------------------------------------|-------------|------------|-------------|
| XZ-ID-D | 38 | 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. XZ-ID-D + XZ-ID-LOOP-D | 207.23 | 56.5 | 21.4 |

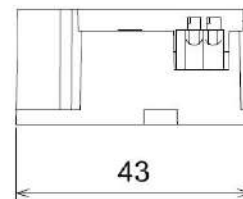
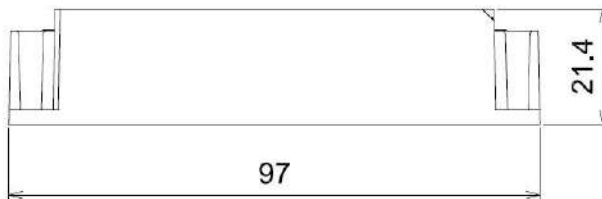
Dimensions

Housing dimensions

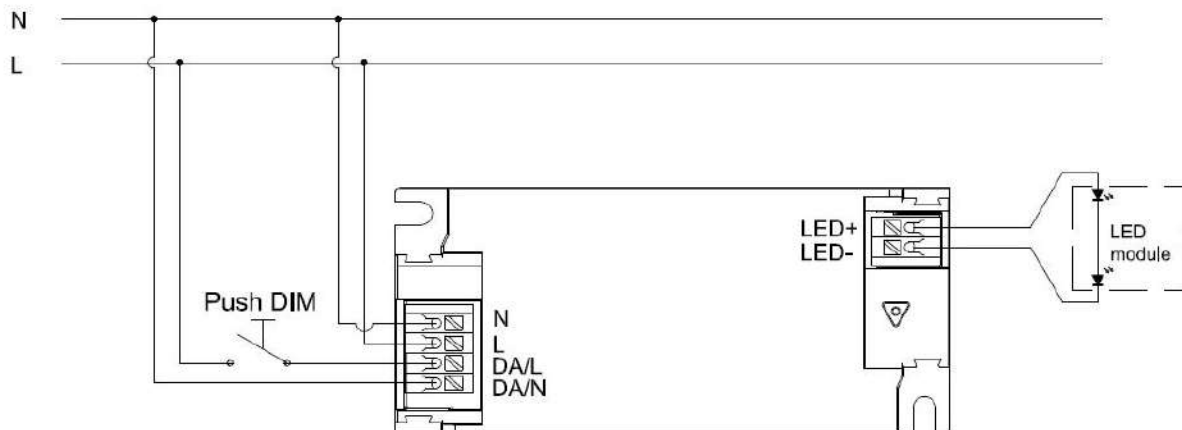
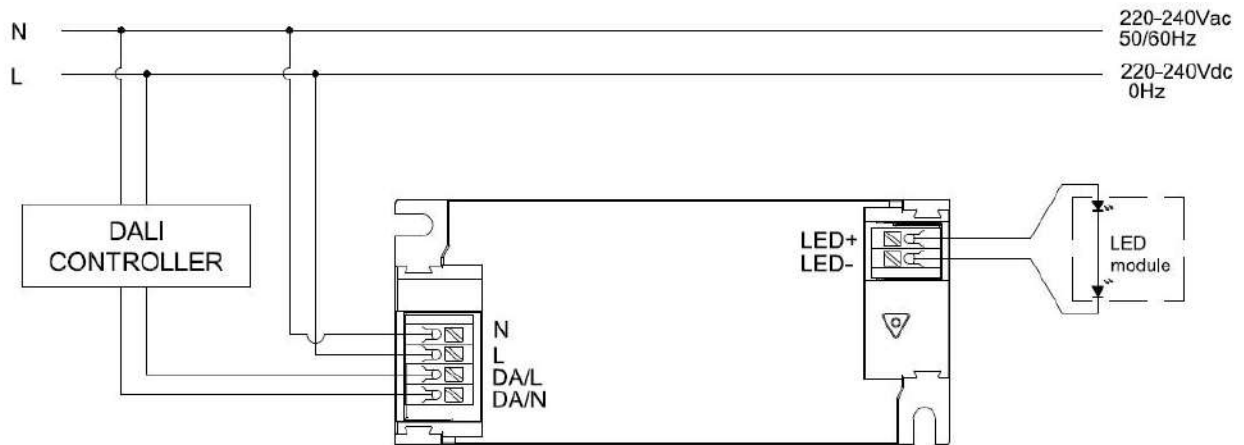
| | |
|------------|----------|
| Length (L) | 97 mm |
| Width (W) | 43 mm |
| Height (H) | 21.4 mm |
| Weight | 0.093 kg |

Packaging details

| | |
|---------------|--------------------|
| Packing units | 24 pcs. |
| Carton size | 204 x 139 x 116 mm |
| Weight | 2.4 kg |

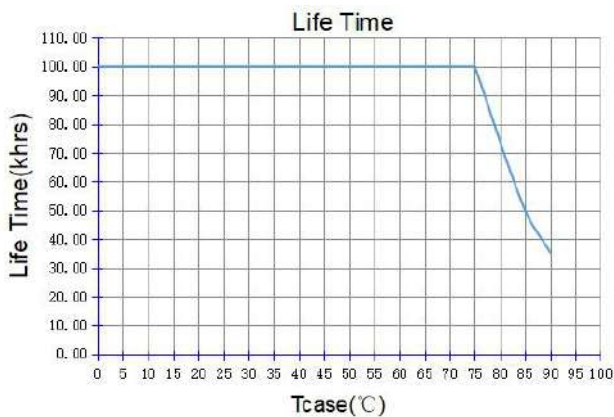
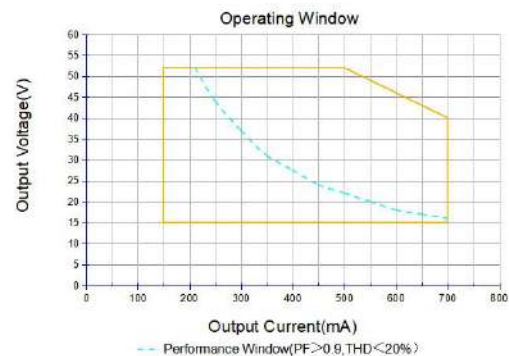
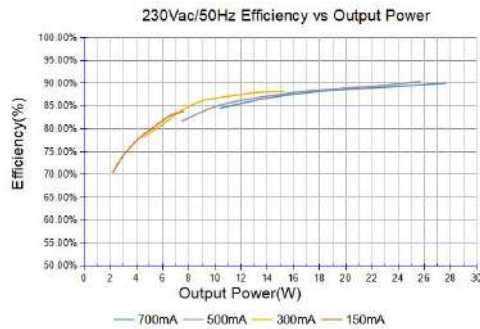
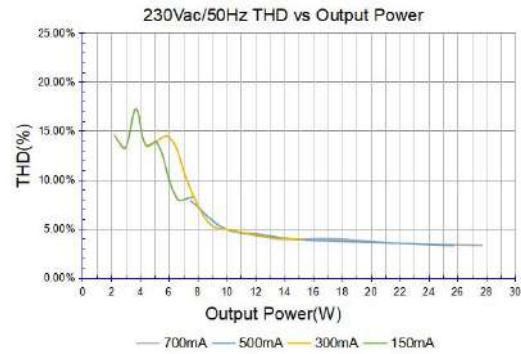
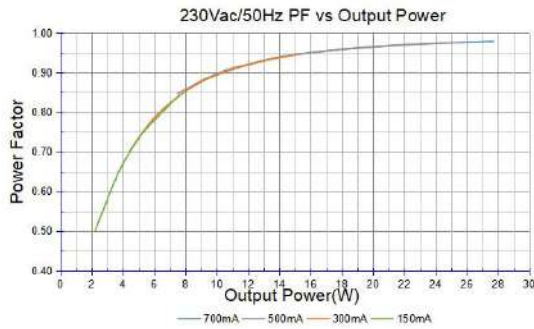


Wiring diagram



- 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 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 |