

Art.166985

#### **Product features**

- Flicker-free LED driver
- Supports MESHLE DIM, CCT control
- Current adjustment via NFC
- Output current 50...700 mA
- Max. output power 75 W
- DC emergency
- Current output default value 100%
- For luminaires with protection class I







#### **Product specifications**

#### 166985 ID ELNCB 75/230/050-700 BH16 NFC TW ML

Output current	Input voltage	Output voltage	Efficiency @full	Current accuracy	Power factor	Dimension LxWxH (mm)
50700 mA	220240 Vac 220240 Vdc	50240 Vdc	92%	±5%	0.9(@23-75 W)	360x29.5x16

#### **Electrical specifications**

#### Mains voltage supply

<u> </u>	
Rated input voltage range	220240 Vac
Max. input voltage range	198264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.4 A @ 230 Vac

#### **Battery operation**

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DC voltage range	220240 Vdc
Max. DC voltage range	176280 Vdc

#### Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 kV

## Total harmonic distortion (THD)

At rated input voltage range @ full load 20%
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Output current tolerance	$\pm$ 5% at rated input voltage range
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 250 V
Overpower protection	The output power is less than or equal to 82 W
	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:
Short circuit protection	<ul> <li>After receiving MESHLE instruction Off, turn on the light by dimming instruction</li> </ul>
	Restart the driver: Power on the driver five seconds after the power failure
	Open circuit protection is designed to shut off the output and cannot be automatically restored. After the open circuit is removed, the output can be restored by one of the following two operations
No load output voltage	After receiving Casambi 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	≤ 0.4W

## Connection terminals

Wire cross section	Input wire: 0.51.5 mm²;Output wire: 0.21.5 mm²
Wire stripping length	89 mm

#### Degree of protection

Protection rating	IP20

#### Operating data

Output current range	NFC control adjusts the current: 50700 mA
Default current	50 mA
Output voltage range	50240 Vdc

#### Circuit breaker / Inrush current

	Inrush current Ipeak: 29.4 A			Inrush current Twidth: 112 µs		
MCB loading quantity	MCB type	B10	C10		B16	C16
	Units	22	22		35	35

## **Supplementary instructions**

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- 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.

# **Environmental specifications**

Operating temperature	-25+55°C
Storage temperature	-4085°C
Working humidity	10%90%
Store humidity	5%95%
Lifetime	at Tc 75°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	75°C

#### Safety & EMC compliance

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#### Housing dimensions

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Length (L)	360 mm
Width (W)	30 mm
Height (H)	16 mm
Weight	0.270 kg

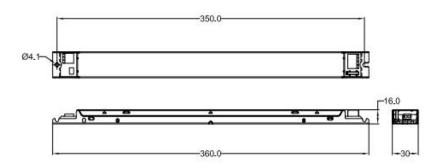
#### Packaging details

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Packing units	20 pcs.
Carton size	381 x 128 x 123 mm
Weight	6.4 kg

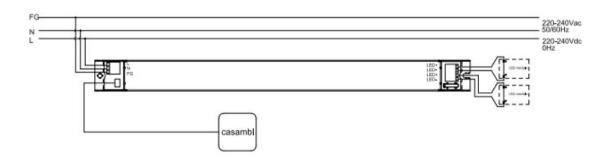
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### Wiring diagram



- 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.

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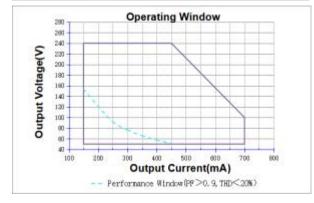


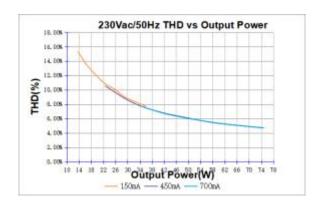
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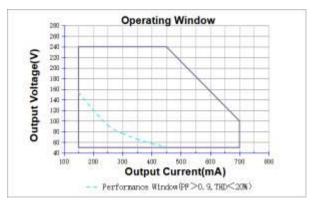
#### **Technical information**











It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 75 W + 5%

#### **Example of AOC settings**

V LED (Vdc)	AOC max	Pout (W)
240	50 mA	12
240	250 mA	60
136	550 mA	75
108	700 mA	75