epiLED

LED Module

Ufo DBD

Dot by Dot

LED Module

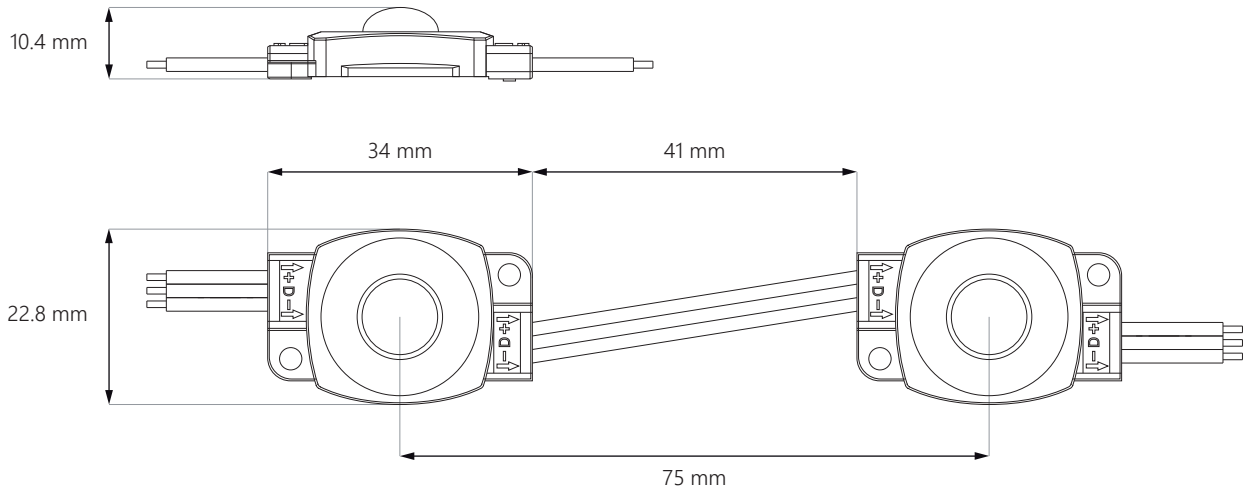
Ufo DBD

5-15 cm
channel letters / lightboxes

1.2W | 160° | IP67 | 5 YEAR warranty | PWM | CURRENT STABILIZATION | 24V DC

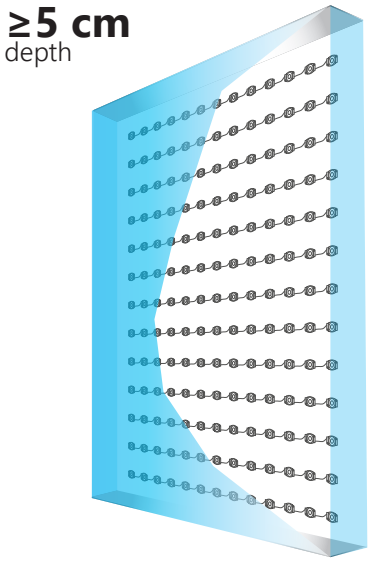
- ideal for **dynamic effects and even illumination without hotspots**
- each module is **controlled independently (Dot-by-dot effect)**
- **indoor / outdoor** use
- chain of **50 pcs**

DIMENSIONS



APPLICATION

best suited for channel letters and lightboxes with a depth of **5-15 cm**



Area: **1 m²**
CC distance: **7.5 cm**
No. of modules: **169 pcs**
Power usage: **202.8W**

the exact number of modules depends on the used materials and the effect we want to achieve;
the stated power consumption (202.8W) applies to static operation at full brightness (white). Actual power consumption depends on the displayed effect and is typically lower.

TECHNICAL SPECIFICATION

Input voltage	24V DC
Nominal power usage per module	1.2W
Nominal power usage per chain	60W

Beam angle	160°
Current stabilization	YES (built-in IC)
Dimmable	YES (digital, per pixel)
Integrated circuit	FW1935L (WS2811 protocol compatible)
Control type	1-wire digital signal (DBD)

Module dimensions (L x W x H)	34 x 22.8 x 10.4 mm
Cable length	41 ± 1 mm
Maximum spacing (CC distance)	75 ± 5 mm
Chain length	3.75 m
No. of modules in the chain	50 pcs
No. of modules in 1 m	13.3 pcs

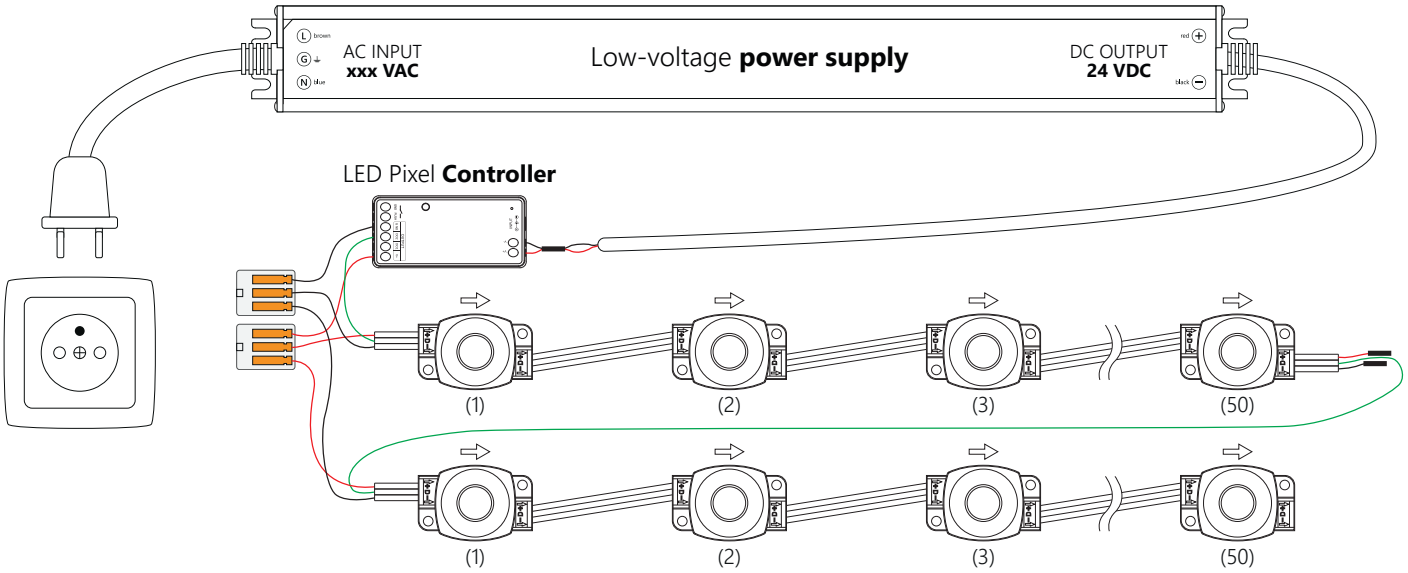
Lifespan	~50000 hours
Operating temperature	-25°C ÷ +55°C
Storage temperature	-40°C ÷ +65°C
IP rating	IP67
Compliance with	CE / UKCA / RoHS / WEEE / UL
Warranty	5 years

COLOUR

Abbreviation	Light colour	Luminous flux [lm/pc]	Wavelength [nm]
R	red	13	625-635
G	green	20	520-530
B	blue	5.9	460-470

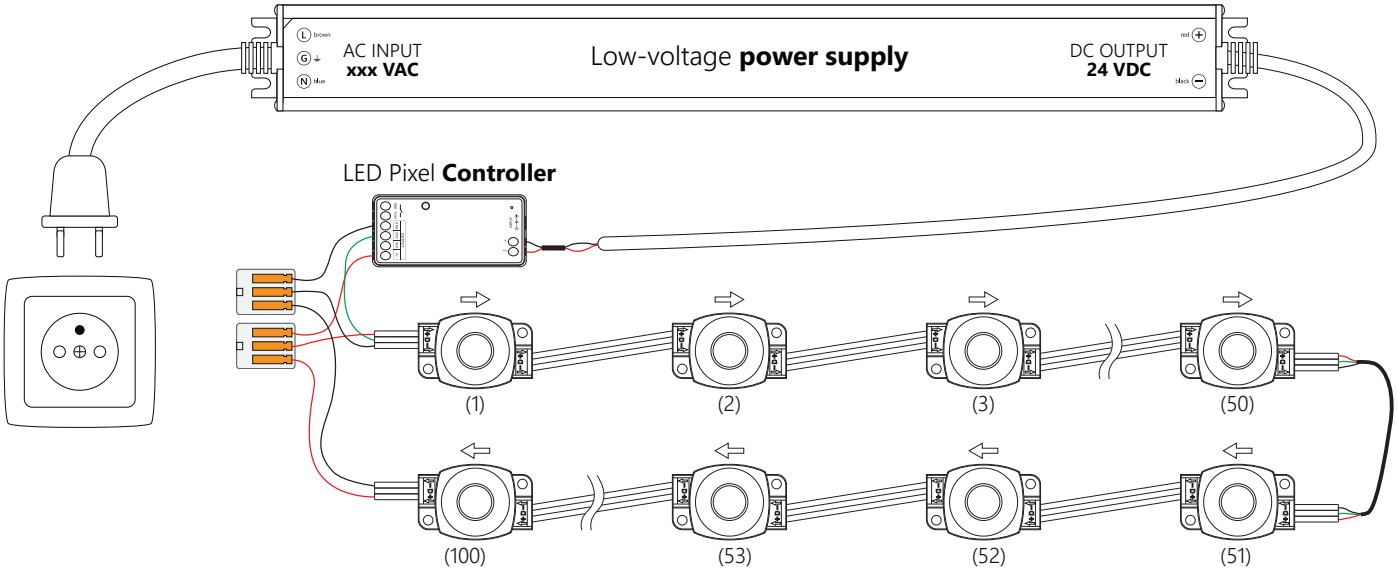
CONNECTION DIAGRAM

single-sided power input: **max. 50 pcs**



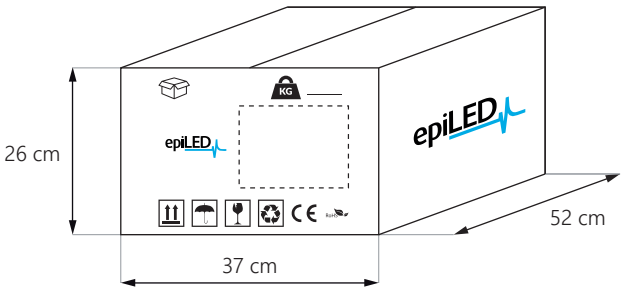
Legend
- (+) 24V
- (-) GND
- DO2 / DO1
- direction of signal transmission

double-sided power input: **max. 100 pcs**



PACKING INFORMATION

	Chain	Bag	Box
Quantity	50 pcs	100 pcs	1200 pcs
Gross weight	0.42 kg	0.84 kg	10 kg



TERMS AND CONDITIONS OF USE

1. Before installing the LED module, discharge any static electricity from your body and clothing by touching a grounded metal surface. LEDs are sensitive to electrostatic discharge (ESD).
2. Verify that the LED module works correctly before installation. Check its colour and uniformity of light.
4. Power the LED module according to the data sheet and the information on the label. Pay close attention to the connection diagram provided in this document.
5. The distance between the LED module and the power supply should be kept to a minimum (to reduce voltage drop).
6. The power supply used in the installation should have at least a 20% power reserve.
7. For increased durability, in addition to double-sided adhesive tape, use mounting glue or M3 screws to attach the LED module.
8. When connecting the controller / power supply, ensure proper polarity.
9. **Non-compliance with the above recommendations will result in loss of warranty.**

STANDARDS COMPLIANCE

PN-EN IEC 55015:2019-11/A11:2020-07, PN-EN IEC 61000-3-2:2019-04, PN-EN 61000-3-3:2013-10
PN-EN 61547:2009, PN-EN 62031:2020, PN-EN 62471:2008, PN-EN 62321:2019, EN IEC 63000:2019-01

DOWNLOAD

LED Module installation guide
https://www.epiled.pl/download/led-module-installation-guide.pdf

EU Declaration of Conformity
https://www.epiled.pl/download/deklaracje/eu-declaration-of-conformity-led-modules.pdf

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