

WS2811 pixel string 12 V DC, square 12 mm pixels, 10 cm pixel pitch, IP68

The string carries 50 individually addressable RGB pixels with WS2811 chip at a pitch of 10 cm. The pixels are potted (IP68), each wire has a 0.75 mm² cross-section. The string runs on 12 V DC and needs a pixel controller and a suitable power supply. The pixels limit their current with series resistors (resistor), the proven standard version. The square housings have a mounting tab for screwing onto panels and signs.

TECHNICAL DATA

Form factor	Pixel string
Operating Voltage	12 Volt DC
Ambient operating temperature	-15 to +60 °C
Controller IC	WS2811
Color depth	24-bit (≈16M colors)
Wire cross-section	0.75 mm ²

Cuttable	Yes, after each pixel
Pixel Diameter	12 mm
Pixel spacing	4 inch (≈ 10 cm)
IP rating	IP68
Voltage management	resistor

CONNECTION

1. Mind the direction. Data runs in one direction only. Connect the controller to the input of the string – connected the wrong way round, the pixels stay dark.
2. Choose the power supply. Allow up to 36 W (3 A at 12 V) per 50 pixels, that is 60 mA per pixel at full white, plus about 20 % reserve.
3. Inject power. With several strings in a row the voltage drops. Inject power additionally, with xConnect® for example using the T-connector 10209.
4. Switch on. Make all connections first, then switch on the power supply.

SCOPE OF DELIVERY

- 1 pixel string in the ordered variant (50 pixels), with plug and socket at the ends
- Power supply and controller are not included.

SAFETY INSTRUCTIONS

- Operate only on a 12 V DC power supply (safety extra-low voltage); choose the power supply with about 20 % reserve.
- Make or break connections only with the power off.
- Do not operate a damaged string.
- Do not kink the cable or run it over sharp edges; avoid pulling on the pixels.
- Operating temperature –15 to +60 °C.
- Not a toy — keep out of the reach of children.
- After shortening, insulate and seal the cut; IP68 no longer applies there.

Manufacturer

PIXLtec GmbH · Maybachstraße 8 · 76227 Karlsruhe · Germany
info@pixltec.de · www.pixel-imperium.de

Marking



CE — the EU declaration of conformity is available on request.



Electrical and electronic equipment must not be disposed of with household waste. Take the old device to a collection point. WEEE reg. no. DE 32487762