PS-861-RGB

SMD 5050 | THREE-CHANNEL RGB COLOR MIXING

PROSERIES
LED TAPE LIGHT

PROSERIES / CONSTANT-VOLTAGE RGB LED TAPE



PS-861-RGB | 5050 RGB LED TAPE | 60 LEDs/m **IP22**

RGB
RED / GREEN / BLUE

60
LEDS PER METER

14.4 W/m
RGB FULL OUTPUT

PRODUCT OVERVIEW

The Neotek PS-861-RGB is a flexible 5050 RGB LED tape for architectural color accents and dynamic lighting effects. Independently controlled red, green and blue channels create an extensive range of mixed colors in a single strip. Intended for dry interior IP22 applications, with no dedicated white channel.

PERFORMANCE & CONFIGURATION

- [ ] 12 VDC or 24 VDC constant voltage
- [ ] Independent red, green & blue control
- [ ] Adhesive-backed flexible PCB
- [ ] 120-degree nominal viewing angle
- [ ] 3-channel RGB; no white emitter
- [ ] IP22, interior dry location

PS-861-RGB

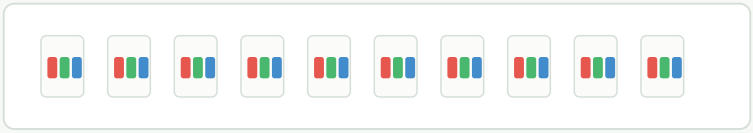
SMD 5050 | ELECTRICAL & MECHANICAL DATA

PROSERIES
LED TAPE LIGHT

ELECTRICAL & CONSTRUCTION SPECIFICATIONS

LED type	5050 RGB	**Viewing angle**	120 degrees
LED density	60 LEDs / meter	**Color rendering / CCT**	Not applicable
Control channels	Red, green, blue	**Ingress protection**	IP22 - dry interior
Voltage selections	12 VDC / 24 VDC	**Construction**	Flexible printed circuit
Supply	Constant voltage	**Mounting**	Double-sided adhesive
RGB full power	14.4 W/m (4.39 W/ft)	**Controls**	PWM / 0-10V / DALI / DMX
White channel	None - RGB only	**Warranty**	Verify supplied RGB variant

RGB WIRING / CONTROL CONCEPT



+ R G B

4-conductor RGB connection

Use a compatible constant-voltage RGB controller/decoder to control red, green and blue. DMX requires an RGB decoder and DMX data cable to that decoder. Use only manufacturer-designated cut locations, subject to the confirmed production configuration.

INSTALLATION / PROJECT ENGINEERING

Install on a clean, dry, compatible surface with adequate thermal support. Confirm final strip width, cutting intervals, maximum continuous run, power-supply sizing and voltage-drop limits before fabrication. Provide an accessible RGB decoder and correctly rated constant-voltage power supply. IP22 is not for water exposure.

Verify the exact RGB-only model, warranty and UL listing before project approval.

PS-861-RGB

SMD 5050 | RGB PERFORMANCE

PROSERIES
LED TAPE LIGHT

RGB OPERATION / VOLTAGE COMPARISON

The RGB-only specification uses the red, green and blue control architecture of the related PS-860-RGBW family. Published RGB values from the RGBW family are shown below as reference output ranges; verify output of the dedicated RGB-only configuration before final photometric calculations.

INPUT VOLTAGE	RGB POWER W/m	RGB POWER W/ft	CURRENT A/m @ FULL	RGB OUTPUT* lm/m REFERENCE
24 VDC	14.4	4.39	0.60	**453-471**
12 VDC	14.4	4.39	1.20	**416-428**

* RGB lumen ranges are taken from the RGB (R+G+B) channel data in the PS-860-RGBW family. They are not independent test results for PS-861-RGB. Confirm photometry for the RGB-only production version.

COLOR CAPABILITIES

RED
R channel

GREEN
G channel

BLUE
B channel

Channels may be combined through a compatible RGB controller to generate changing colors, dimming and programmed scenes. No dedicated white-emitter option is provided: any white-like appearance is RGB mixed light, not a separately specified CCT or CRI.

CONTROL, LISTING & DESIGN QUALIFICATION

120-degree nominal beam. PWM, 0-10V, DALI or DMX through compatible external RGB control equipment. The related PS-860-RGBW documentation references UL 2108 / file E354137; this does not, by itself, confirm listing of the new RGB-only IP22 configuration. Verify prior to specifying.

PS-861-RGB

SMD 5050 | SPECIFICATION & ORDERING GUIDE

PROSERIES
LED TAPE LIGHT

ORDERING CONFIGURATION & PROJECT SELECTIONS

NEOTEK PART-NUMBER FORMAT

PS-861-RGB - [VOLTAGE]

Example: PS-861-RGB-24 | 24 VDC RGB, IP22 indoor

SELECT PRODUCT CONFIGURATION

INPUT VOLTAGE

- ☐ 24 VDC
- ☐ 12 VDC

LIGHT OUTPUT / CHANNEL SELECTION

- ☐ RGB (red / green / blue)
- ☐ No dedicated white channel

CONTROL METHOD / EXTERNAL EQUIPMENT

- ☐ PWM / RGB decoder
- ☐ 0-10V / compatible interface
- ☐ DALI / compatible interface
- ☐ DMX / RGB decoder + data wiring

PROJECT / JOB INFORMATION

PROJECT NAME

FIXTURE / LOCATION

QUANTITY / REELS

RUN LENGTH

DATE

POWER SUPPLY / DRIVER

RGB CONTROLLER / DECODER

IP22 dry interior only. No white-channel or CCT selections. Confirm final PCB width, cut spacing, maximum run, UL listing scope and RGB-only warranty with Neotek before specification.