DATA SHEET

VARNALUX

RGB LED STRIP 14.4W/M

24V DC | IP65 | SMD5050 | 8 MM | 5 METER ROLL



APPLICATION

- Decorative lighting
- Architectural and accent lighting
- Indirect and cove lighting
- Under-cabinet and shelf lighting
- Furniture and display lighting
- General accent lighting

AVAILABLE MODELS

Model	REF No
Standard	100414

5 M Roll length	14.4W/m	/m	3 YEARS
RGB Colour	24V DC Voltage	IP65	CE

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ELECTRICAL DATA	
Power	14.4W/m
Voltage	24V DC
Operating current	<= 0.5 A per metre

PHOTOMETRICAL DATA	
Colour	RGB
Wavelength R / G / B	620-630 nm / 520-530 nm / 450-470 nm
Luminous flux	/m
Color Rendering Index (CRI)	> 80
View angle	120°
LED quantity	60 per metre (SMD5050)

CAPABILITIES	
Cuttable	Every 6 LEDs (100 mm)
Adhesive backing	3M double-sided
Max. length per power feed	5 m
Illumination range	1-3 m

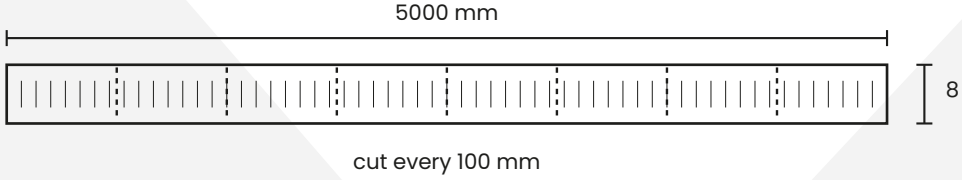
LIFESPAN & WARRANTY	
Lifespan	50.000 hrs
Warranty	3 years

DIMENSIONS & PACKAGING	
Strip width	8 mm
Roll length	5 m
Lead wire	120 mm

ADDITIONAL INFORMATION	
LED Chip	SMD5050
IP Rating	IP65
Operating temp.	-25 °C to +40 °C
Storage temp.	-40 °C to +60 °C
Certificates	CE & ROHS

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Schematic drawing, not to scale. Dimensions in mm.

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USER MANUAL | HOW TO USE

STEP 1 **Unpack and check**

Take the strip out of its anti-static package and check it for damage. Do not install a damaged strip.

STEP 2 **Turn off the power**

Switch off the power supply before starting any work. Installation must be done by a qualified person.

STEP 3 **Plan the run**

The maximum length per power feed is 5 m. Choose a DC24V constant-voltage supply; the total power of the strips must be below 80% of its rated output.

STEP 4 **Cut to length**

Cut only at the marked cutting points: every 6 LEDs (100 mm). Cut ends of IP65 versions must be sealed again.

STEP 5 **Stick the strip**

Clean the surface, peel off the 3M double-sided backing and press the strip firmly in place. Do not bend it at a short distance.

STEP 6 **Connect**

Connect the strip to a DC24V power supply through a compatible RGB controller; match the channel marks on the PCB.

STEP 7 **Seal the ends**

Seal cut ends and connections with silicone or heat-shrink tube.

STEP 8 **Turn on the power**

Switch on the power supply and check that all LEDs light up.

PACKING INFO

In the box	1 x LED strip, 5 m roll

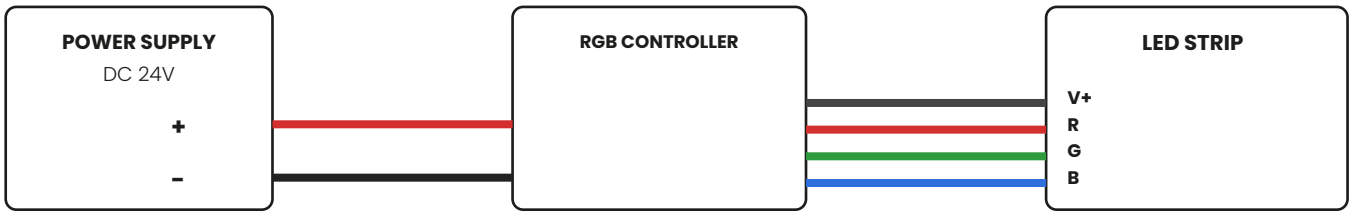
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CONNECTION DIAGRAM



Connect the strip through a compatible DC24V controller. Match the channel marks on the PCB.

SAFETY NOTICE:

- Installation and electrical connection must be done by a qualified person. Switch off the power before installation.
- Use a stable DC24V constant-voltage power supply. The total power of the strips on one supply must stay below 80% of its rated output.
- Match the polarities according to the '+' and '-' marks on the PCB. The maximum running length per power feed is 5 m; for longer runs connect in parallel.
- Avoid sharp objects touching the strip surface and avoid contact of the light area with high-temperature objects.
- Do not bend the strip at a short distance (minimum bending diameter > 1 cm) and do not tie it tightly with metal wire.
- Guard against water and moisture: IP20 versions are for dry locations only.
- This product is not a toy. Install it out of the reach of children.