Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

LEDKIA LIGHTING 84833_170321

LEDKIA LIGHTING 12V Zig Zag LED Strip User Manual

Model: 84833_170321

1. Introduction

This manual provides essential information for the safe and effective use of your LEDKIA LIGHTING 12V Zig Zag LED Strip. This LED strip is designed for accent and decorative lighting applications, offering flexibility and low power consumption. Please read these instructions carefully before installation and operation.



Figure 1: LEDKIA LIGHTING 12V Zig Zag LED Strip on its reel.

2. Safety Instructions

- **Power Supply:** This LED strip operates on 12V DC. Always use a compatible 12V DC power supply (not included). Connecting to a higher voltage will damage the strip.
- **Indoor Use Only:** The product has an IP20 rating, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. It is strictly for indoor use in dry environments.
- **Cutting:** The LED strip can be cut only at designated marks (typically every 5cm). Cutting elsewhere will damage the circuit and render that section unusable.
- **Bending Limitations:** The strip features a Zig-Zag design for enhanced flexibility. However, it cannot be bent at a radius smaller than 5 cm and should not be bent horizontally. Excessive bending or sharp folds can damage the internal circuitry.
- **Installation Surface:** Ensure the installation surface is clean, dry, and smooth for proper adhesion.
- **Electrical Connections:** All electrical connections should be made by a qualified person and comply with local electrical codes. Ensure power is disconnected before making any connections.
- **Heat Dissipation:** While LED strips generate minimal heat, ensure adequate ventilation around the strip to prevent heat buildup, especially when installed in enclosed spaces.

3. Product Features

The LEDKIA LIGHTING 12V Zig Zag LED Strip offers the following key features:

- **High Brightness:** Utilizes SMD2835 technology for high luminous efficiency.
- **Flexible Design:** Zig-Zag structure allows for installation in corners and curved surfaces without requiring cuts and re-connections.
- **Cuttable:** Can be cut every 5cm at marked intervals to achieve desired lengths.
- **Color Temperature:** 4000K Neutral White for a balanced and clear illumination.
- **Low Power Consumption:** Energy-efficient design with 7W per meter.
- **Durable Construction:** Manufactured primarily from PCB for long-lasting performance.
- **Versatile Application:** Ideal for accent lighting in corridors, shelves, cabinets, wardrobes, ceilings, balustrades, and display cases.

4. Setup and Installation

Follow these steps for proper installation of your LED strip:

1. **Prepare the Surface:** Ensure the mounting surface is clean, dry, and free of dust or grease. This will ensure optimal adhesion of the strip.
2. **Measure and Cut (if necessary):** Measure the desired length for your installation. Locate the designated cutting marks on the LED strip (indicated by a scissor icon or copper pads). Cut only at these marks.



Figure 2: Close-up of the LED strip with cutting points and 12V markings.

Figure 3: Diagram illustrating the designated cutting points on the LED strip.

3. **Connect to Power Supply:** The LED strip requires a 12V DC power supply. Connect the positive (+) and negative (-) terminals of the LED strip to the corresponding terminals on your 12V DC power supply. Ensure correct polarity.



Figure 4: LED strip showing power connection wires.

4. **Peel and Stick:** Carefully peel off the protective backing from the adhesive tape on the back of the LED strip. Press the strip firmly onto the prepared surface, ensuring good contact along its entire length.
5. **Avoid Sharp Bends:** While the Zig-Zag design offers flexibility, avoid bending the strip at angles sharper than 5 cm radius or bending it horizontally to prevent damage.

5. Operating Instructions

Once the LED strip is correctly installed and connected to a compatible 12V DC power supply:

- **Power On:** Connect the 12V DC power supply to a suitable power outlet. The LED strip will illuminate.
- **Power Off:** Disconnect the 12V DC power supply from the power outlet to turn off the LED strip.
- **Control:** If using a dimmable power supply or a separate controller (not included), refer to the instructions provided with those devices for brightness adjustment or other functions.

6. Maintenance

To ensure the longevity and optimal performance of your LED strip, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the LED strip with a soft, dry cloth to remove dust. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the strip.
- **Inspection:** Periodically inspect the strip for any signs of damage, loose connections, or wear. Address any issues promptly.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges for indoor use (IP20).

7. Troubleshooting

If you encounter issues with your LED strip, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LED strip does not light up.	No power, incorrect voltage, loose connection, damaged strip section.	Check if the power supply is plugged in and functional. Verify it is a 12V DC power supply. Ensure all connections are secure and correct polarity is observed. Inspect the strip for visible damage.
Some sections of the strip are not lighting up.	Damaged section, improper cut, faulty connection.	Inspect the unlit section for physical damage or incorrect cutting. Check connections to that section if it was joined.
LEDs are dim or flickering.	Insufficient power supply, voltage drop, faulty power supply.	Ensure your 12V DC power supply has sufficient wattage for the entire length of the strip. Check for voltage drop over long runs. Test with a different power supply if available.

If the problem persists after attempting these solutions, please contact LEDKIA LIGHTING customer support or your retailer.

8. Specifications

Detailed technical specifications for the LEDKIA LIGHTING 12V Zig Zag LED Strip:

Feature	Specification
Model Number	84833_170321
Brand	LEDKIA LIGHTING
Voltage	12 Volts (DC)
LED Type	SMD2835
LEDs per Meter	60
Total Length	5 meters
Power per Meter	7W/m
Luminous Flux per Meter	700 lm/m
Beam Angle	120°

Feature	Specification
Strip Width	6mm
Cuttable Interval	Every 5cm
IP Rating	IP20 (Indoor Use)
Color Temperature	4000K Neutral White
Material	PCB
Product Dimensions (L x W x H)	1 x 0.6 x 0.3 cm (likely packaging or rolled strip)
Item Weight	1 Kilogram
Energy Efficiency Class	F
Manufacturer	efectoLED
Country of Origin	China

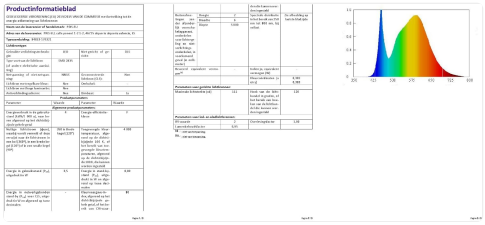
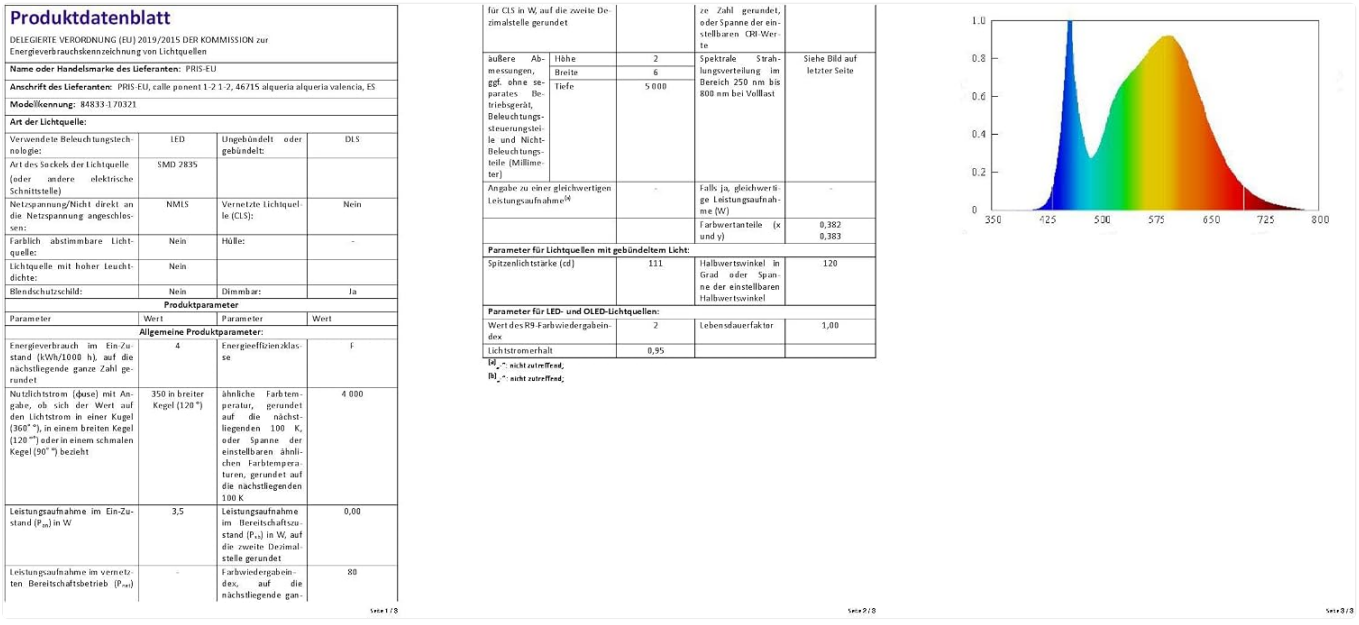


Figure 5: Energy Label for the LED Strip. For more details, visit the EPREL database.



Produktdatenblatt

DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen

Name oder Handelsmarke des Lieferanten: PRIS-EU

Anschrift des Lieferanten: PRIS-EU, calle ponent 1-2 1-2, 46715 alqueria alqueria valencia, ES

Modellkennung: 84833-170321

Art der Lichtquelle:

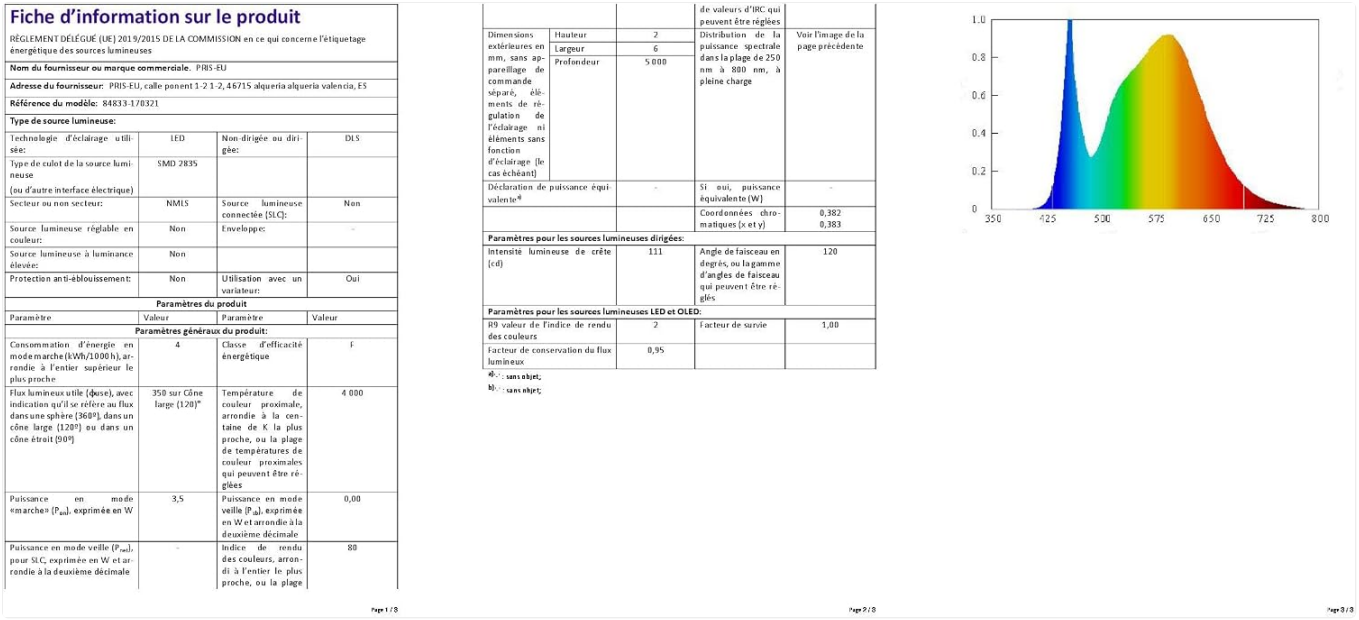
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	SMD 2835		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	NMLS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzschild:	Nein	Dimmbar:	Ja

Produktparameter

Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet	4	Energieeffizienzklasse	F
Nutzlichtstrom (duse) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°), in einem breiten Kegel (120°) oder in einem schmalen Kegel (90°) bezieht	350 in breiter Kegel (120°)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K	4 000
Leistungsaufnahme im Ein-Zustand (P_{on}) in W	3,5	Leistungsaufnahme im Bereitschaftszustand (P_{sb}) in W, auf die zweite Dezimalstelle gerundet	0,00
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb (P_{net})	-	Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	80
für CLS in W, auf die zweite Dezimalstelle gerundet			
äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)	Höhe: 2 Breite: 6 Tiefe: 5 000	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast	Siehe Bild auf letzter Seite
Angabe zu einer gleichwertigen Leistungsaufnahme[a]	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-
		Farbwertanteile (x und y)	0,382 0,383
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)	111	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	120
Parameter für LED- und OLED-Lichtquellen:			
Wert des R9-Farbwiedergabeindex	2	Lebensdauerfaktor	1,00
Lichtstromerhalt	0,95		

[a] „-": nicht zutreffend.
[b] „-": nicht zutreffend.

Figure 6: Product Data Sheet (German).



Fiche d'information sur le produit

RÈGLEMENT DÉLÉGUÉ (UE) 2019/2015 DE LA COMMISSION en ce qui concerne l'étiquetage énergétique des sources lumineuses

Nom du fournisseur ou marque commerciale: PRIS-EU

Adresse du fournisseur: PRIS-EU, calle ponent 1-2 1-2, 46715 alqueria alqueria valencia, ES

Référence du modèle: 84833-170321

Type de source lumineuse:

Technologie d'éclairage utilisée:	LED	Non-dirigée ou dirigée:	DLS
Type de culot de la source lumineuse (ou d'autre interface électrique)	SMD 2835		
Secteur ou non secteur:	NMLS	Source lumineuse connectée (SLC):	Non
Source lumineuse réglable en couleur:	Non	Enveloppe:	-
Source lumineuse à luminance élevée:	Non		
Protection anti-éblouissement:	Non	Utilisation avec un variateur:	Oui

Paramètres du produit

Paramètre	Valeur	Paramètre	Valeur
Paramètres généraux du produit:			
Consommation d'énergie en mode marche (kWh/1000 h), arrondie à l'entier supérieur le plus proche	4	Classe d'efficacité énergétique	F
Flux lumineux utile (Φ_{use}), avec indication qu'il se réfère au flux dans une sphère (360°), dans un cône large (120°) ou dans un cône étroit (90°)	350 sur Cône large (120°)	Température de couleur proximale, arrondie à la centaine de K la plus proche, ou la plage de températures de couleur proximales qui peuvent être réglées	4 000
Puissance en mode «marche» (P_{on}), exprimée en W	3,5	Puissance en mode veille (P_{sb}), exprimée en W et arrondie à la deuxième décimale	0,00
Puissance en mode veille (P_{sb}), pour SLC, exprimée en W et arrondie à la deuxième décimale	-	Indice de rendu des couleurs, arrondi à l'entier le plus proche, ou la plage de valeurs d'IRC qui peuvent être réglées	80
Dimensions extérieures en mm, sans appareillage de commande séparé, éléments de régulation de l'éclairage ni éléments sans fonction d'éclairage (le cas échéant)	Hauteur	2	Distribution de la puissance spectrale dans la plage de 250 nm à 800 nm, à pleine charge	Voir l'image de la page précédente
	Largeur	6		
	Profondeur	5 000		
Déclaration de puissance équivalente[a]		-	Si oui, puissance équivalente (W)	-
			Coordonnées chromatiques (x et y)	0,382 0,383
Paramètres pour les sources lumineuses dirigées:				
Intensité lumineuse de crête (cd)		111	Angle de faisceau en degrés, ou la gamme d'angles de faisceau qui peuvent être réglés	120
Paramètres pour les sources lumineuses LED et OLED:				
R9 valeur de l'indice de rendu des couleurs		2	Facteur de survie	1,00
Facteur de conservation du flux lumineux		0,95		

[a]: - : sans objet;

[b]: - : sans objet;

Figure 7: Product Data Sheet (French).

Figure 8: Product Data Sheet (Dutch).

9. Warranty and Support

For warranty information, please refer to the terms and conditions provided by your retailer at the time of purchase. For technical support or further inquiries, please contact LEDKIA LIGHTING customer service through their official channels or the retailer from whom you purchased the product.

© 2024 LEDKIA LIGHTING. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B09NLP32BP

More documents and user manuals: **https://manuals.plus/**