

Operating instructions LED strips 230V AC - Dreamline GmbH

Intended Use

- The flexible LED strip AC is suitable for professional lighting both indoors and outdoors (degree of protection depending on the order, IP53/65).
- For safety and approval reasons (CE), you may not convert and/or change the product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuits (due to water ingress), fire, electric shock, etc. Read the operating instructions carefully and keep them. Only pass the product on to third parties together with these instructions.
- The product complies with legal, national and European requirements.
- You must not shorten these strips yourself unless you are a professional and have the necessary knowledge. Do NOT remove the double end insulation, 230V voltage is in place.
- Operation with (anodized) ALU rails: the goods have protection class II, the rails MUST be earthed.

Safety instructions

- Read the operating instructions carefully and pay particular attention to the safety instructions. If you do not follow the safety instructions and information on proper handling in these operating instructions, we assume no liability for any resulting personal injury or damage to property. In addition, the warranty/guarantee automatically expires in such cases.
- The product is not a toy. Keep it away from children and pets.
- Protect the product from extreme temperatures, strong shocks, flammable gases, vapors and solvents.
- Do not expose the product to any mechanical stress.
- Protect the product from extreme temperatures, severe shocks, flammable gases, vapors and solvents.
- If safe operation is no longer possible, take the product out of service and protect it from unintentional use. Safe operation is no longer guaranteed if the product:
 - has visible damage
 - no longer works properly
 - was stored under unfavourable ambient conditions for a longer period of time
 - has been subjected to significant transport loads.
- Handle the strip with care. It will be damaged by bumps, hits or falling from a small height. Do not stretch the strip, do not bend the strip around the corner.
- Connect the pigtails to the power supply using suitable clamps. The conductors are correctly labelled: N for blue (neutral conductor) and L for brown (phase, outer conductor). Grounding is not required.
- For safety reasons, always disconnect the strands during a thunderstorm, see below.
- Make sure that the LED strip is not crushed, kinked, damaged by sharp edges or subjected to any other mechanical stress. Avoid excessive thermal stress on the strip from exposure to extreme heat or extreme cold. Ensure good heat dissipation through anodized (!) ALU rails. Do not modify the double-insulated strands. If this is not observed, the strands and as a result the PCB and the soldering point can be damaged and cause a short circuit with traces of smoke. A damaged LED strip can result in a life-threatening electric shock.
- The strands must never be connected or disconnected with wet hands.
- If the product is in operation and you notice any damage, do not touch the product, there is a risk of death from an electric shock! Switch off the mains voltage of the circuit used to which the LED strip is connected across all poles. To do this, the automatic circuit breaker belonging to the circuit must first be switched off (or the fuse must be unscrewed), then the associated circuit breaker must be switched off. Only now can the LED strip with the strands be separated from the circuit.
- Damaged wires to the PCB cannot be replaced. In this case, the product must be disposed of in an environmentally friendly manner or sent in for repair with a fault report and a description of the incident.
- This LED strip must not be electrically connected to another LED strip.
- The LEDs heat up during operation. Keep the product away from easily flammable materials during use.
- Attention, LED: Do not look into the LED light beam! Do not view directly or with optical instruments!
- Do not drive vehicles over the product, step on it, or throw it.
- In commercial facilities, the accident prevention regulations of the association of commercial trade associations for electrical systems and equipment must be observed.

- Only have maintenance, adjustment and repair work carried out by a specialist or specialist workshop.
- If the LED strip AC continues to glow when operating on a time switch, swap N with L (indication of the wrong connection of the neutral conductor) or buy a time switch with relay switching.

Notes on assembly

- The product may be installed and operated indoors and outdoors, depending on the IP class. The IP class is determined when you place your order (53/65). However, never mount the product on or in vehicles.
- The product must not be assembled and operated in or under water. Please note: splashing water turns into flowing water on the LED strip!
- Do not use the product in rooms or in adverse environmental conditions where flammable gases, vapours or dust are or may be present! There is a risk of explosion!
- When installing, make sure that the LED strip AC is not damaged; Never use nails or screws to fix the LED strip. There is a risk of fatal injury from an electric shock!
- If extensions are used, they must be suitable for the intended operation. It is important to ensure that the clamp connection is never in or under water, e.g. in pools or in areas where water can collect during precipitation or flooding!
- Always lay the cables in such a way that nobody can trip over them or get caught on them. There is a risk of injury.
- Do not connect the product to the power source if it is still in the packaging. The product must be fully rolled out.
- Do not hang objects on the product and do not cover the product.
- Operation with (anodized) ALU rails: the goods have protection class II, the rails MUST be earthed.

Installation

- It is essential that you observe the information in the "Notes on assembly" section
- Lay the LED strip AC at the desired location. There is double-sided adhesive tape on the back. Degrease the flat, smooth surface beforehand with a suitable degreaser.
- Use only vinegar and acid-free silicones and adhesives to fix outdoors on non-smooth surfaces.
- No ballasts such as converters, converters, transformers, etc. are required. The strip is 230V AC.
- After connecting the LED strip to the mains voltage, the LEDs light up immediately.
- If you have general current fluctuations in the system due to neighbours, nearby substations, etc., use inrush current limiters or mains filters. Your electrician can help here.
- If the LED strip is no longer needed, disconnect the goods under the safety aspects mentioned above.
- Store the LED strip in a dry, clean, frost-free place that is inaccessible to children.

Maintenance and cleaning

- The product requires no maintenance for you, never disassemble or cut it up. Before cleaning, the product must be disconnected from the mains voltage, see above. A dry, clean and soft cloth is sufficient for cleaning. Do not use any aggressive cleaning agents, as this will result in discoloration or a negative impact on the material of the LED strip. Never use a damp, watery cloth with the IP53 variant.

Recycling

- Electronic devices are recyclable materials and do not belong in household waste. At the end of its useful life, dispose of the product in accordance with the applicable legal provisions. In doing so, you fulfil the legal obligations and make your contribution to environmental protection and the assets of the garbage mob.

General technical data

- General operating voltage input 220 - 240 V/AC, 50 Hz, protection class II, degree of protection depending on the order (53/65), operating and storage conditions: -25° to 45°C, 30 - 85% rF