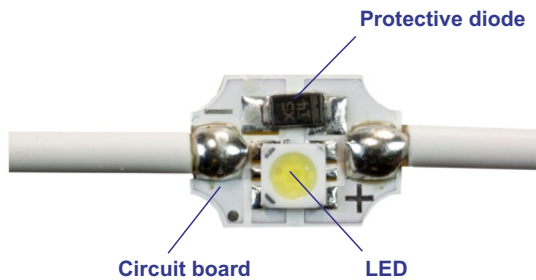


Description

LED Tube



Technical description

The ***hansen*** LED Tube is a highly flexible system designed for backlighting acrylic, banner fabric or similar translucent materials. Its primary application is the illumination of channel letters and light boxes for illuminated advertising purposes.

The **LED Tube** consists of the following main components:

- Light-emitting diode (LED)
- Protective diode (Zener diode)
- Heat shrink tubing
- Converter
- Mounting material

Each LED and protective diode is fitted to a small circuit board. The individual circuit boards are connected by wires of the same length soldered to the circuit boards. For better protection, these components are enclosed in a transparent heat shrink tubing.

The connecting wires between the LEDs can be bent allowing the **LED Tube** to be flexibly adapted to the surrounding conditions to achieve a uniform illumination of channel letters.

The following parameters can be varied:

- LED spacing
- LED power rating (brightness)
- Light colour (coloured or white)
- Colour temperature (for white LEDs)

The **LED Tube** can also be supplied with two LEDs on each circuit board. This “duo” variant offers double light output. Fitted with two coloured LEDs, mixed colours such as turquoise, yellow or magenta can be generated.

Electrically, the LEDs form a series connection. Special converters for the operation of the LED Tube can be supplied as well. They supply a constant current protecting the LEDs against overloading.

