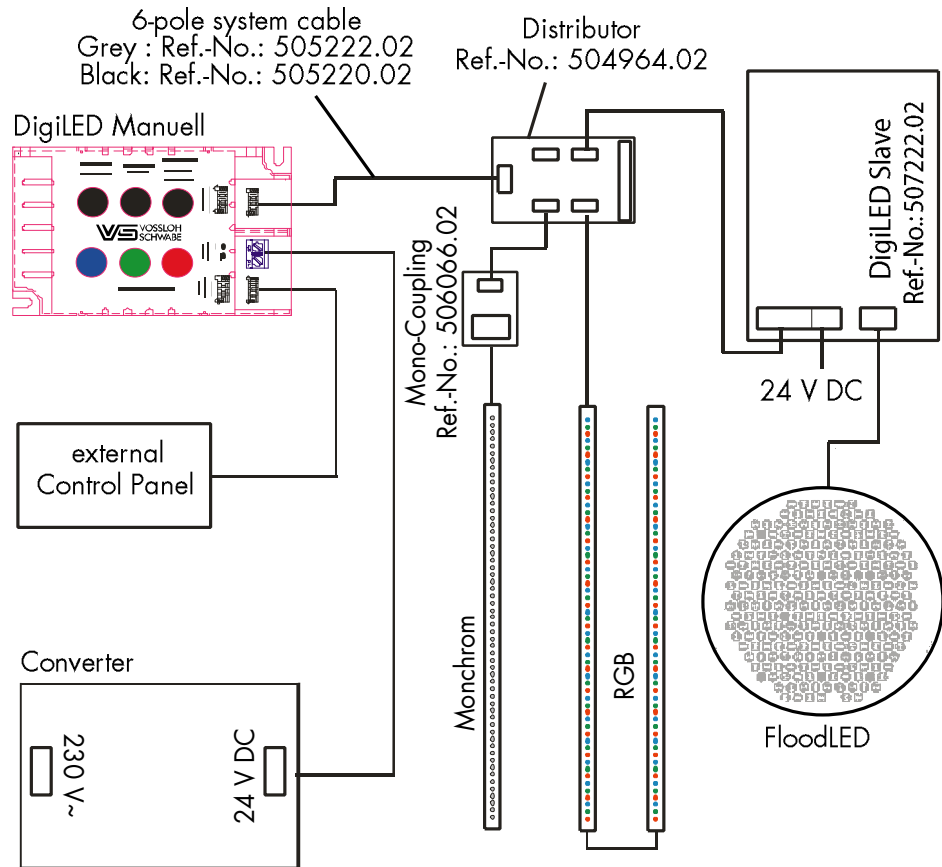


## Example of a System Design:



The packing of several cable lengths is possible upon request.  
The cable is also available as a shielded wire!



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## Operating Instructions DigiLED Manuell

### 1 Introduction

#### 1.1 Product Description

The system control device DigiLED Manuell has been designed for the individual or pre-programmed colour and brightness control of LED modules. The control is carried out using a keypad with 6 keys. An external control panel via an interface may also be used for control.

#### 1.2 Scope of Delivery

Please check the delivery for completeness and transport damage when you unpack the device. You should have received the following items:

- 1 WU-ST-DigiLED Manuell
- 1 Operating Instructions

#### 1.3 Safety Instructions

Please ensure a good electrical connection of all cables and plugs and the compliance with the ESD regulations!

- + this product serves exclusively for the operation of the LEDLine, FloodLED and MarkerLED module family
- + the DigiLED Manuell may only be used indoors
- + install all components in de-energized state only
- + only qualified personnel may open the casing
- + immediately contact your distributor in case of damage or failure
- + pay particular attention to the maximum demand of supply and select the respective connection cables, if appropriate
- + ensure the correct polarity when you connect the supply voltage

### 2 Functional Description

#### 2.1 Functions

The DigiLED Manuell has been designed for the control of lighting elements of the series LEDLine, FloodLED and MarkerLED. These can be equipped with COB (Chip on Board), SMD or wired LEDs. The following functions can be set at the DigiLED-Manuell:

- + Independent brightness control of all colours
- + Retrieving of a pre-set colour value
- + Saving of an individual colour value
- + Three different colour gradients (2 soft colour gradients and one random colour change)
- + Velocity change of the colour gradients
- + The colour selected last or the colour gradient set last will be re-called with every new start

### 3 Descriptions of the Operating Elements

#### 3.1 General

The DigiLED Manuell has own operating elements in form of 6 keys as well as the option to connect an external control panel via an interface. The right figure shows the connection scheme of the DigiLED Manuell. The connections of the module are one 2-pole screw terminal (B) for the supply voltage, one system plug (C) for the connection of an external control panel as well as another system plug (A) which is the output to the LED modules. The number of controllable modules depends on the power consumption of the lighting modules, where a total of max. 1.0 A must not be exceeded per channel. The operating elements 1-6 are described in detail in the following chapters.

#### 3.2 Keys 1, 3 and 5 (Colour Control)

The light intensity of the relevant colour channels (1 = red, 3 = green, 5 = blue) can be set using the keys 1, 3 and 5. Switch on the device and increase the brightness by pressing and holding the respective key. The set brightness value will remain when you stop pressing the key until the key is pressed again. Then, the control of the brightness level is reversed. The reduction will be shown by short flashing of the selected colour. This reversal of the direction is repeated whenever you press these keys. When an end value has been reached (min. or max. brightness value), the connected module will flash shortly.

#### 3.3 Key 2 (Program Velocity)

The speed with which the colour gradients are carried out can be increased by pressing the key "Program Velocity". The velocity will be decreased when you press the key again. This is indicated by a short flash of the contended modules.

#### 3.4 Key 4 (Program-Mode)

Different program modes can be set by using key 4, where a "random" and two "soft" colour gradients are pre-programmed by the factory. The two soft colour gradients differ by a defined "off state" between the respective loops. You can toggle between the colour change programs by pressing the key 4. The respective program will be shown by a single, double or triple flashing of the connected module.

The program can be switched off by pressing key 6.

#### 3.5 Key 6 (ON/OFF and Save)

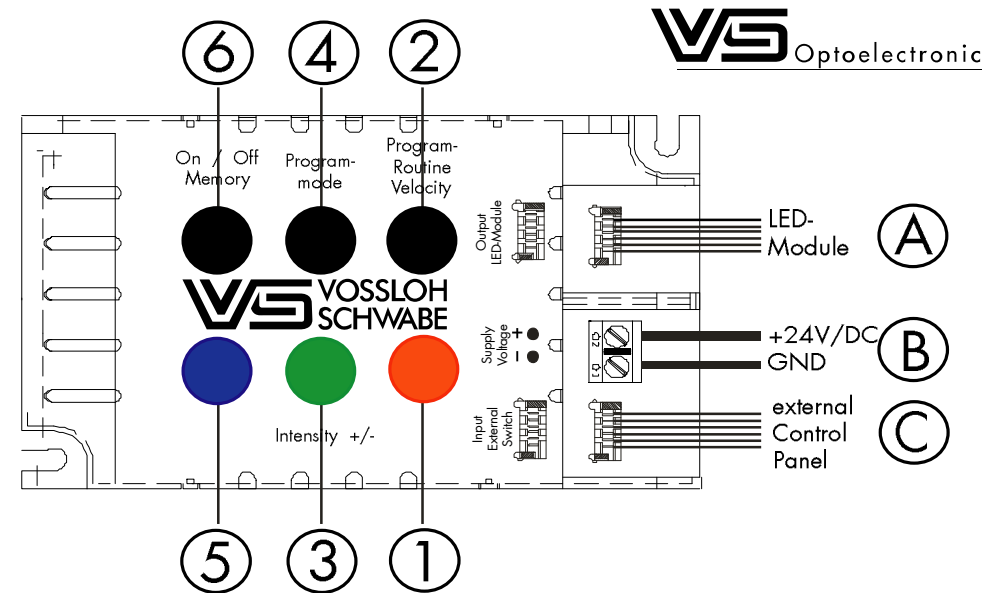
The key 6 occupies the functions "switch on" and "switch off" of the connected LED modules as well as the saving of the current setting. An individual colour value which will be active upon the next start of the DigiLED-Manuell can be saved by pressing and holding (> 3 sec.) key 6.

#### 3.6 Malfunctions

When problems or malfunctions occur during the operation of the device, please check if all wires and plugs are connected as described in chapter 3.1. If you are unable to find any obvious defects, please contact your distributor. Do not attempt to repair the device yourself, under any circumstance.

#### 3.7 Assembly

The DigiLED-Manuell can be mounted on a firm base using 4 mm bolts in the two recesses which are diagonally located.



### 4 Technical Data

Operating Voltage	12 to 30 V DC
Current consumption	3,1 A max.
Fuse protection	T 3.15 A; internally
Inputs	2-pole terminal for supply voltage 1 system plug for the connection of the external control panel
Outputs	1 system plug for 3 controllable PWM <sup>1</sup> outputs (voltage same as output voltage of power supply connected in series)
Output current	3 x 1,0 A max.
Operation	Control panel including 6 keys or external control panel
Ambient temperature	0 °C to +40 °C
Humidity	0 to 95 % (not condensing)
Casing	Plastic, PC white
Dimensions (L x W x H) in mm	95 x 60 x 30
Weight	72 gr.

PWM<sup>1</sup> = pulse-width modulation

### 5 EMV & CE

Das DigiLED-Manuell erfüllt die lichttechnischen Normen bzgl. Elektromagnetischer Verträglichkeit (EMV) und ist CE zertifiziert.