



A New Lighting Experience



- high quality due to Chip-on-Board technology
- easy connection technique with "easy connect"-system
- lead-free soldered
- colour mixing due to RGB
- low heat generation
- low mounting height

## EasyLED RGB

**WU-M-335, WU-M-336**

### Typical Applications

- Marking of paths, stairs, etc.
- Furniture lighting
- Light advertising
- Entertainment, shop design
- Profile integration

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# EasyLED RGB

## Technical Notes

- WU-M-336: 200x15 mm, 6 RGB light points
- WU-M-335: 200x15 mm, 12 RGB light points, divisible in length of 100 mm
- LED-chips are driven by constant current sources
- Voltage supply: 24 V DC
- Power: 2,2 W (WU-M-336) and 4,4 W (WU-M-335)
- Increased ESD protection

## Electrical Characteristics

at ambient temperature  $t_a = 25\text{ °C}$

Type	Ref. No.	Colour	Number of LEDs	Max. current (mA)			Max. voltage DC V	Max. power consumption (W)		
				Red	Green	Blue		Red	Green	Blue
WU-M-335-RGB	<b>533003</b>	RGB	36	60	60	60	24	1.44	1.44	1.44
WU-M-336-RGB	<b>533004</b>	RGB	18	30	30	30	24	0.72	0.72	0.72

\* On account of the complex manufacturing process of the modules the above values only represent statistical variables.  
The values do not necessarily correspond exactly to the actual parameters of every single product which can vary from the typical specification.

## Maximum Ratings

Exceeding the maximum ratings can lead to reduction of lifetime or destruction of the module.

Type	Voltage DC		Operation temperature range at $t_c$ point		Storage temperature range		Reverse voltage/LED V
	V min.	V max.	°C min.	°C max.	°C min.	°C max.	
All types	23	25	-20	+70	-40	+85	5

## Optical Characteristics

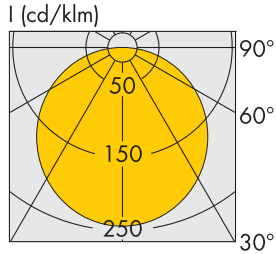
at ambient temperature  $t_a = 25\text{ °C}$

Type	Ref. No.	Colour	Dom. wavelength (nm)			Max. luminous flux (lm)			Radiation angle* °
			Red	Green	Blue	Red	Green	Blue	
WU-M-335-RGB	<b>533003</b>	RGB	624	528	470	22	42	11	130
WU-M-336-RGB	<b>533004</b>	RGB	624	528	470	11	21	5.5	130

\* On account of the complex manufacturing process of the modules the above values only represent statistical variables.  
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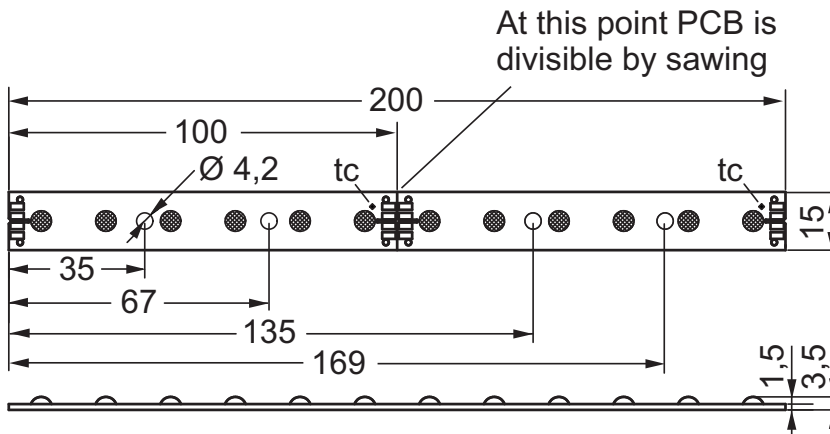
# EasyLED RGB

## Light Distribution Curves

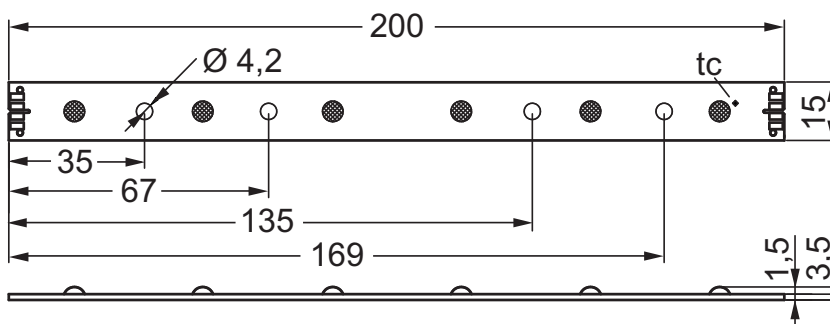


WU-M-335, WU-M-336

## Mechanical Dimensions



WU-M-335



WU-M-336

# EasyLED RGB

## Interconnection option

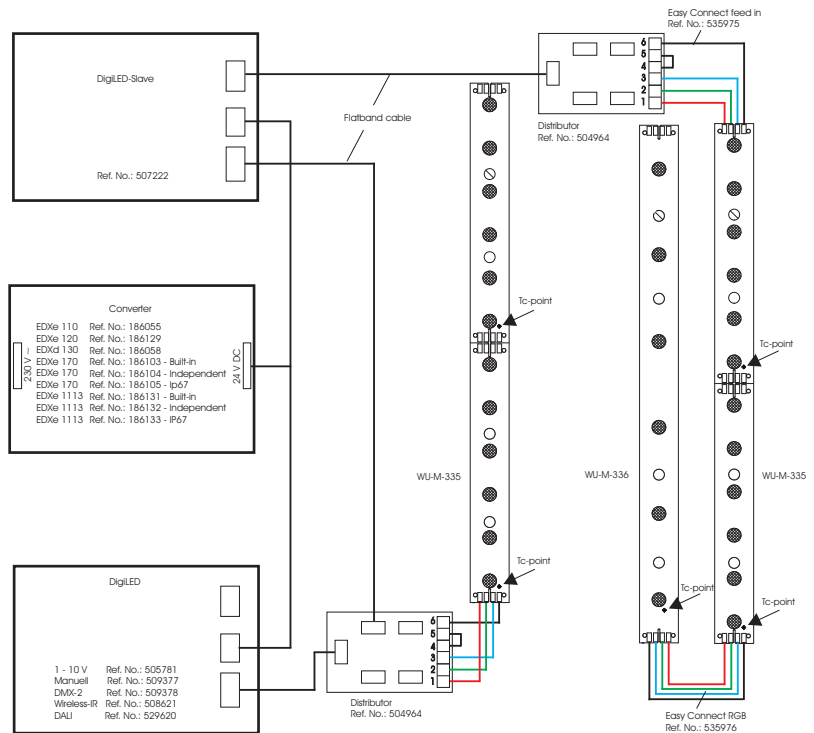
The VS Optoelectronic DigileD controllers could be used for colour control of the RGB modules.

Necessary components:

- Converter
- DigileD
- Flatband cable
- Distributor
- Easy Connect RGB feed in

The maximum quantity of modules for operation in one row are 8 modules WU-M-335 or 10 modules WU-M-336 when the voltage is applied at one side.

Further information about the connection technique and the different functions of the DigileDs can be found in the DigileD manuals under [www.vs-optoelectronic.com](http://www.vs-optoelectronic.com).



## Assembly and Safety Information

- LED modules and all PCB components must not be subjected to undue mechanical stress:
  - LED modules must not be handled as bulk cargo
  - Shear and pressure stress must be avoided on the grouting material of LEDs during assembly and handling
- The circuit path may not be damaged or interrupted.
- Power supply units must be used for operation in which the following protective measures are ensured:
  - Short-circuit protection
  - Overload protection
  - Overheating protection
  - SELV equiv. (Safety Extra Low Voltage)
- The maximum output of the power supply must be observed.
- Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- The modules are not protected against dust or moisture. When LED modules are operated in unduly moist or dusty environments, care must be taken to ensure each module is built into a protective casing in compliance with the correct IP classification or provided with corrosion protection. Damage caused by moisture and/or corrosion will not be recognised as a material or manufacturing defect.
- Contact with chemicals containing acid or acetic acid can permanently damage LEDs. Substances and materials containing acid or acetic acid must therefore not be used for cleaning, maintaining and installing LED modules or LED luminaires. The vapours produced by such chemicals alone can damage LEDs.
- Please ensure standard ESD (electrostatic discharge) protection measures are employed when handling and installing LED modules. Electrostatic discharge can damage LEDs.
- For easy connection of the modules use the VS Optoelectronic "Easy Connect RGB"-system (see data sheet "Connection cable Easy-Connect"):
  - Feed in connector with cables (Ref. No.: 535975)
  - PCB to PCB connector with cables (Ref. No.: 535979)
- For fixing holes ( $\varnothing$  4.1 mm) are integrated in the PCB for easy assembly. To avoid short cuts or damage please use only plastic bolts (recommended  $\varnothing$  3 mm) for assembly. Make sure not to destroy the PCB during fixing.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification. Please find further detailed information at [www.vs-optoelectronic.com](http://www.vs-optoelectronic.com).