

# LED-Strip L12 MK3

Product Sheet



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Version August 2018: All technical data and the weight and dimension information were carefully created – errors reserved. Any colour deviations are printing-related.

We reserve the right to make changes that serve further improvement.

# Quick Info

## Overview technical data

Features	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
Length	125mm optionally available in the lengths: 100mm and 112,5mm	250mm optionally available in the lengths: 200mm, 212,5mm, 225mm und 237,5mm	500mm optionally available in the lengths: 350mm, 362,5mm, 375mm, 450mm, 462,5mm, 475mm und 487,5mm
LED-Pitch	10	20	40
Current ( $I_{max}$ )	0,075A	0,15A	0,3A
Colour	<ul style="list-style-type: none"> <li>• Warm white: 2000K, 2200K, 2500K, 2700K, 3000K, 3500K</li> <li>• Neutral white: 4000K, 4500K</li> <li>• Cold white: 5000K, 5700K, 6500K</li> <li>• Alternative spectrums: 2700K AS, 3000K AS, 3500K AS, 4000K AS, Meat</li> <li>• Colours: Red, Green, Blue, Amber</li> </ul>		
Luminous flux*	115lm	230lm	459lm
Luminous intensity*	41cd	81cd	162cd

## Overview of control options

		LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
System Power Supply 4/4E/ DPB Pixel-Router Pro	with Intelligence 1 LED strip per control channel	can only be used at the end of a chain	120 LED-Strips per controller 1 LED-Strip per channel	72 LED-Strips per controller 1 LED-Strip per channel
	with Intelligence maximum number of LED strips per Intelligence		144 LED-Strips per controller 2 LED-Strips per channel	72 LED-Strips per controller 1 LED-Strip per channel
	with Big Intelli XLR		144 LED-Strips per controller 6 LED-Strips per channel	72 LED-Strips per controller 3 LED-Strips per channel
DPB Pixel-Router	with Intelligence 1 LED strip per control channel		60 LED-Strips per controller 1 LED-Strip per channel	36 LED-Strips per controller 1 LED-Strip per channel
	with Intelligence maximum number of LED strips per Intelligence		72 LED-Strips per controller 2 LED-Strips per channel	36 LED-Strips per controller 1 LED-Strip per channel
	with Big Intelli XLR		72 LED-Strips per controller 6 LED-Strips per channel	36 LED-Strips per controller 3 LED-Strips per channel
Sys One	with Intelligence 1 LED strip per control channel		30 LED-Strips per controller 1 LED-Strip per channel	18 LED-Strips per controller 1 LED-Strip per channel
	with Intelligence maximum number of LED strips per Intelligence		36 LED-Strips per controller 2 LED-Strips per channel	18 LED-Strips per controller 1 LED-Strip per channel
	Output System connector blue		36 LED-Strips per controller 6 LED-Strips per channel	18 LED-Strips per controller 3 LED-Strips per channel
Long Distance Controller			108 LED-Strips per controller 6 LED-Strips per channel	54 LED-Strips per controller 3 LED-Strips per channel
Big Intelli Monochrom with 70W power supply			18 LED-Strips pro Netzteil 18 LED-Strips per channel	9 LED-Strips pro Netzteil 9 LED-Strips per channel
	60 W power supply (undimmed)		20 LED-Strips pro Netzteil	10 LED-Strips pro Netzteil

\* The values are measured with a LED strip L12-125, L12-250 and L12-500 in the colour temperature 6500K (further values can be found on page 10).

# Introduction

## FEATURES

- Compatible with other series from Schnick-Schnack-Systems
- Made in Germany

- High-quality LEDs
- High colour rendering index  $R_a > 90$
- Best arrangement thanks to very small bins (3Step MacAdam)
- Alternative spectrums for specific object lighting
- Custom arrangement in two colours or with lenses possible
- Wider 115° beam angle
- camera friendly dimmable
- Linear light dimming, also for stageless control in the lower intensity range
- Equal brightness despite different supply-line lengths due to integrated switching regulator
- Long lifetime due to the use of low currents

- Can be directly connected to 24V DC

- Pliable, fiberglass reinforced board
- Minimal surface temperatur
- With connected (through hole) plug connectors
- Extremely robust and reliable
- Various mounting options

## Use

The L Series LED strips are equipped with high-quality, efficient, white or monochrome LEDs with (where possible) a colour rendering index of  $R_a > 90$ . The LEDs can be controlled in groups.

They are the ideal LED light source for all applications that require a fixed light colour and outstanding lighting quality. The LED-Strips L12 MK3 are used, among other things, in architecture (e.g. accents on walls, floors, counters, decorative elements), for backlighting surfaces, ceilings, stairs, coves as well as at trade fairs. Thanks to the high colour rendering index, the LED strips L can also be used for illuminating.

## Technology

The LED-Strip L12 can be ordered in 16 different white tones, five of them with alternative spectrums, for example for food lighting and four colours:

- Warm white: 2000K, 2200K, 2500K, 2700K, 3000K, 3500K
- Neutral white: 4000K, 4500K
- Cold white: 5000K, 5700K, 6500K
- Alternative spectrums: 2700K AS, 3000K AS, 3500K AS, 4000K AS, Meat
- Colours: Red, Green, Blue, Amber

In addition, the strip is available in 16 different lengths (100mm, 112,5mm, 125mm, 200mm, 212,5mm, 225mm, 237,5mm, 250mm, 350mm, 362,5mm, 375mm, 450mm, 462,5mm, 475mm, 487,5mm and 500mm) in a grid of 12,5mm. Due to the practical dimensions, the LED strips can follow almost every curve and bending. The radiation characteristics of the strips can be changed using optional lenses.

The distance between the individual LEDs is dimensioned in a way that results in homogenous illumination. The distance to achieve a homogeneous surface depends on the material. It should contain at least 3,5cm from the topside of the LED to the diffuser.

The LED strips are mounted with board holders.

## Control

The LED-Strips L12 can be controlled directly via the Long Distance Controller or the Sys One. Alternatively, they can also be controlled with the help of Intelligences or Big Intellis via the DPB Pixel-Router, the DPB Pixel-Router Pro, the System Power Supply 4E or the System Power Supply 4. For small installations, only an adequate power supply unit or – if dimmability is desired – a Big Intelli monochrome with power supply unit can be used.

The controllers enable stepless brightness control even in the lower intensity range and camera-friendly dimming (flicker-free) of the LED strips.

The LED-Strips L12 MK2 are plug-compatible with the existing RGB LED system from Schnick-Schnack-Systems: Each of the three RGB channels is used to activate the LED-Strips L. By using special cross cables\*, each LED-Strip in a section can be assigned to a channel. So the structure is simple. Thanks to the cross principle RGB controller can be used sustainably for monochrome LED strips. Thanks to the integrated current regulator, even long power lines do not result in a decrease in brightness on the strip.

\*Cross cables cannot be used for special configurations with two colours.

# Mechanical data

Features	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
Length	125mm optionally available in the lengths: 100mm und 112,5mm	250mm optionally available in the lengths: 200mm, 212,5mm, 225mm und 237,5mm	500mm optionally available in the lengths: 350mm, 362,5mm, 375mm, 450mm, 462,5mm, 475mm und 487,5mm
LED-Pitch	12,5mm	12,5mm	12,5mm
Number of LEDs (for standard length)	10	20	40
Pin connection and -colour	1 × System connector blue	2 × System connector blue	2 × System connector blue
Safety class	IP 00	IP 00	IP 00
Weight	6,7g	14,5g	26g



LED-Strip L12-125 (Front view)



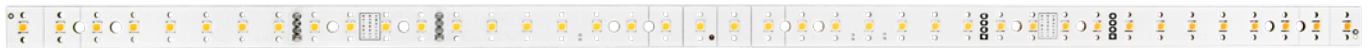
LED-Strip L12-125 (Rear view)



LED-Strip L12-250 (Front view)



LED-Strip L12-250 (Rear view)

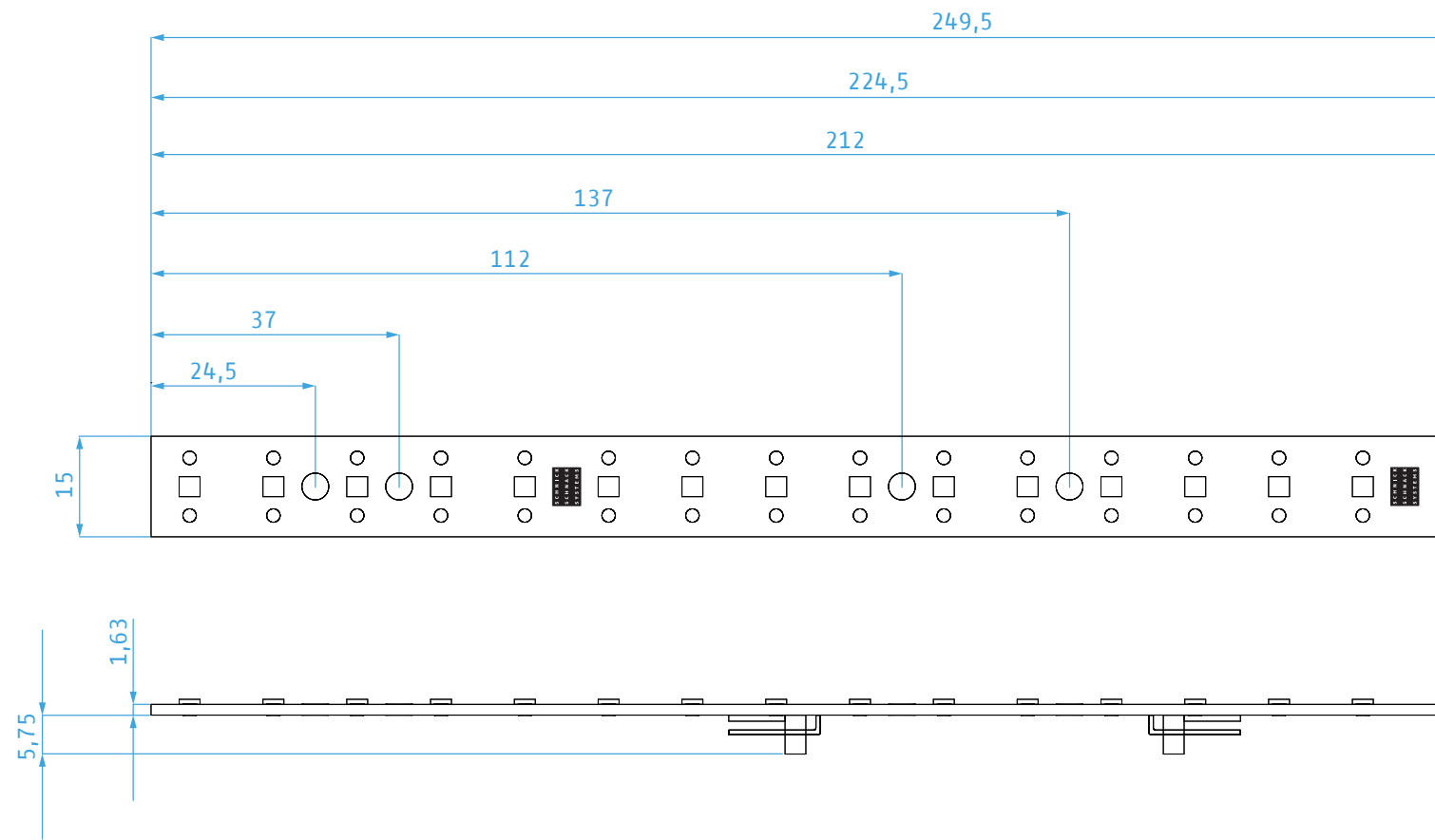
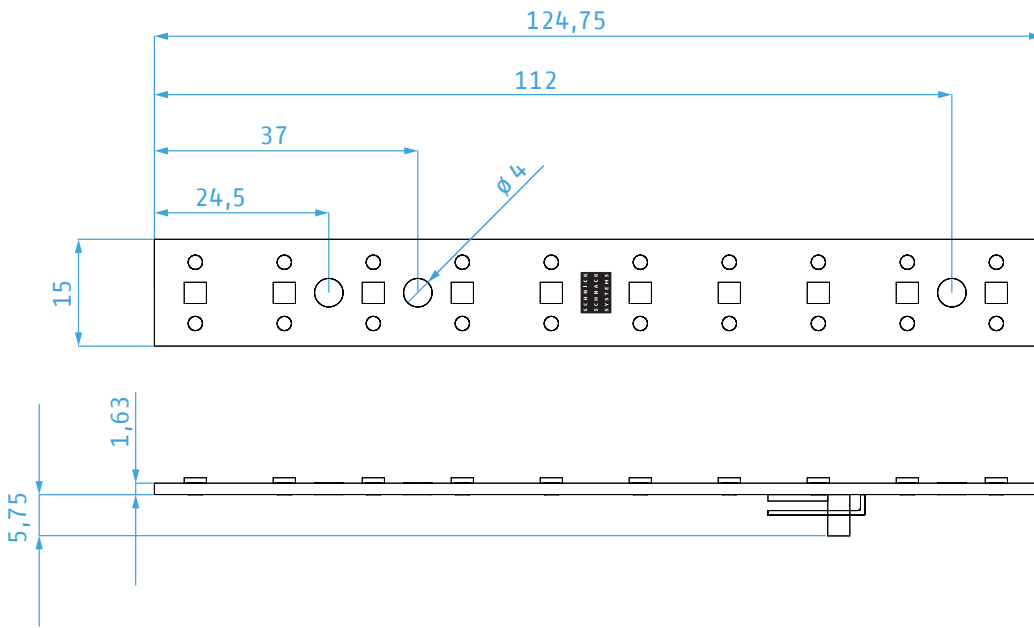


LED-Strip L12-500 (Front view)

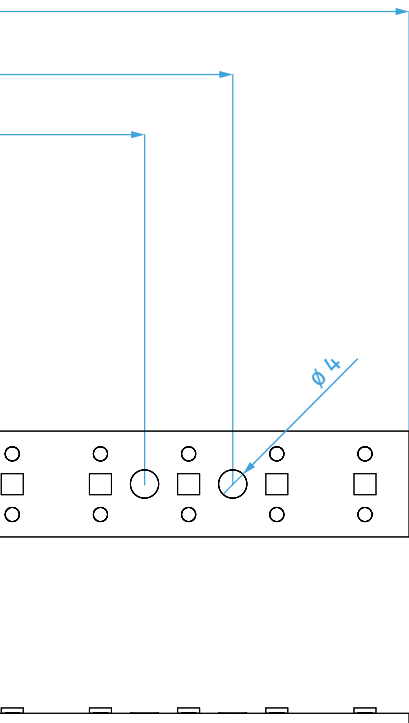


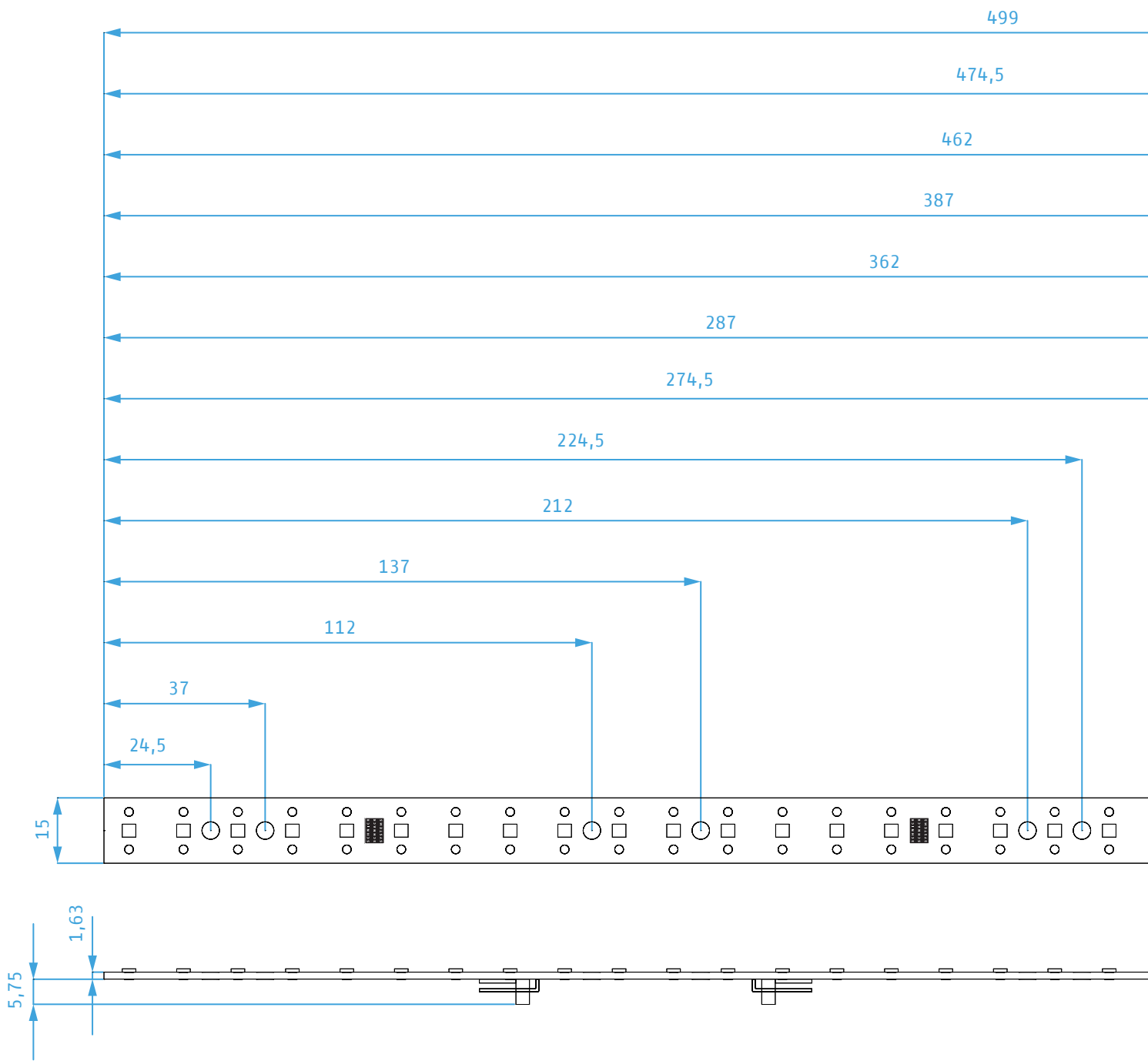
LED-Strip L12-500 (Rear view)

# CAD drawing\*



\* without scale / all units in mm









# Optical data

	Emission angle	Colour	Luminous flux*	Efficiency (at 20V)	Colour Rendering Index R <sub>a</sub>	Luminous intensity**
LED-Strip L12-125 MK3	115°	2000K	91,7lm	78,1lm/W	84,4	33cd
		2200K	92,4lm	78,6lm/W	85,2	34cd
		2500K	107,7lm	90,5lm/W	85,4	38cd
		2700K	102,2lm	88,9lm/W	93,8	37cd
		2700K AS	66,6lm	56,4lm/W	73,1	24cd
		3000K	106,2lm	89,6lm/W	94,2	38cd
		3000K AS	69,9lm	59,8lm/W	74,1	25cd
		3500K	107,6lm	90,8lm/W	95,5	39cd
		3500K AS	75,7lm	64,1lm/W	76,1	27cd
		4000K	113,1lm	95,4lm/W	94,8	40cd
		4000K AS	78,5lm	65,7lm/W	77,3	28cd
		4500K	114,4lm	95,7lm/W	93,6	41cd
		5000K	112,8lm	95,6lm/W	95,2	41cd
		5700K	112,6lm	94,6lm/W	96,3	40cd
		6500K	114,8lm	96,9lm/W	95,9	40cd
		Red	43,2lm	36,6lm/W		15cd
		Green	113,7lm	96,3lm/W		40cd
		Blue	29,4lm	24,9lm/W		10cd
		Amber	133,3lm	112,1lm/W		48cd
		Meat	79,5lm	67,9lm/W	72,4	28cd
LED-Strip L12-250 MK3	115°	2000K	183,4lm	78,1lm/W	84,4	66cd
		2200K	184,7lm	78,6lm/W	85,2	68cd
		2500K	215,3lm	90,5lm/W	85,4	76cd
		2700K	204,5lm	88,9lm/W	93,8	74cd
		2700K AS	133,2lm	56,4lm/W	73,1	49cd
		3000K	212,4lm	89,6lm/W	94,2	76cd
		3000K AS	139,9lm	59,8lm/W	74,1	51cd
		3500K	215,2lm	90,8lm/W	95,5	77cd
		3500K AS	151,4lm	64,1lm/W	76,1	55cd
		4000K	226,1lm	95,4lm/W	94,8	81cd
		4000K AS	156,9lm	65,7lm/W	77,3	56cd
		4500K	228,8lm	95,7lm/W	93,6	81cd
		5000K	225,7lm	95,6lm/W	95,2	82cd
		5700K	225,2lm	94,6lm/W	96,3	80cd
		6500K	229,7lm	96,9lm/W	95,9	81cd
		Red	86,4lm	36,6lm/W		30cd
		Green	227,3lm	96,3lm/W		79cd
		Blue	58,8lm	24,9lm/W		20cd
		Amber	266,7lm	112,1lm/W		95cd
		Meat	159lm	67,9lm/W	72,4	57cd

	Emission angle	Colour	Luminous flux*	Efficiency (at 20V)	Colour Rendering Index R <sub>a</sub>	Luminous intensity**
LED-Strip L12-500 MK3	115°	2000K	366,7lm	78,1lm/W	84,4	133cd
		2200K	369,4lm	78,6lm/W	85,2	136cd
		2500K	430,6lm	90,5lm/W	85,4	152cd
		2700K	408,9lm	88,9lm/W	93,8	149cd
		2700K AS	266,4lm	56,4lm/W	73,1	98cd
		3000K	424,8lm	89,6lm/W	94,2	153cd
		3000K AS	279,9lm	59,8lm/W	74,1	101cd
		3500K	430,4lm	90,8lm/W	95,5	154cd
		3500K AS	302,7lm	64,1lm/W	76,1	110cd
		4000K	452,2lm	95,4lm/W	94,8	162cd
		4000K AS	313,9lm	65,7lm/W	77,3	112cd
		4500K	457,6lm	95,7lm/W	93,6	162cd
		5000K	451,3lm	95,6lm/W	95,2	162cd
		5700K	450,4lm	94,6lm/W	96,3	159cd
		6500K	459,3lm	96,9lm/W	95,9	162cd
		Red	172,8lm	36,6lm/W		60cd
		Green	454,6lm	96,3lm/W		158cd
		Blue	117,6lm	24,9lm/W		41cd
		Amber	533,3lm	112,1lm/W		191cd
		Meat	318lm	67,9lm/W	72,4	114cd

### Distance/Lux table\*\*\*

Distance	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
0,5m	162lx	323lx	648lx
1m	41lx	81lx	162lx
2m	10lx	20lx	41lx

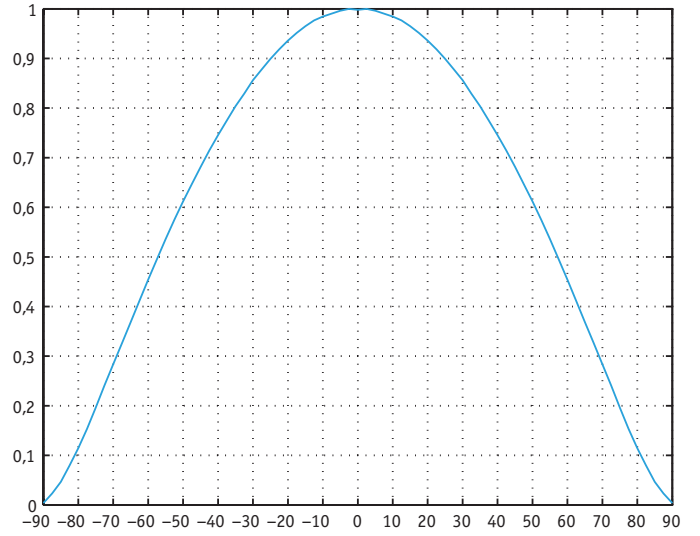
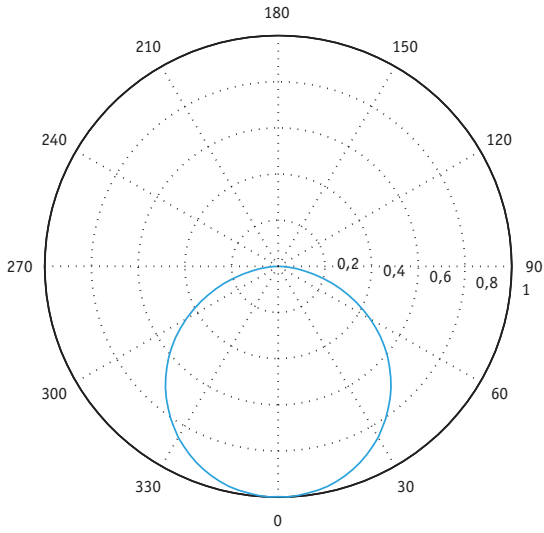
\* Luminous flux is measured after at least 60 seconds of power-on time. Measuring is according according to DIN 5032-1 (1999) „Light measurement Photometric methods“ 9.5.4 „[Luminous flux] determination with a sphere photometer according to Ulbricht“. Sphere diameter is 1000mm. Comparison lamp is a halogen lamp. The system has been calibrated in a laboratory accredited to DIN17025.

\*\* Spectrum and intensity are measured after a minimum of 60 seconds of power-on time. Measuring is according to CIE127 (2007) “Measure of LEDs” 4.3 “averaged LED intensity – condition B” by means of a cooled high-end “Back Illuminated” CCD spectrometer with a fibre optic probe based on an Ulbricht sphere with 25mm inner diameter and 1cm<sup>2</sup> measurement port. The system has been calibrated in a DIN17025-accredited laboratory.

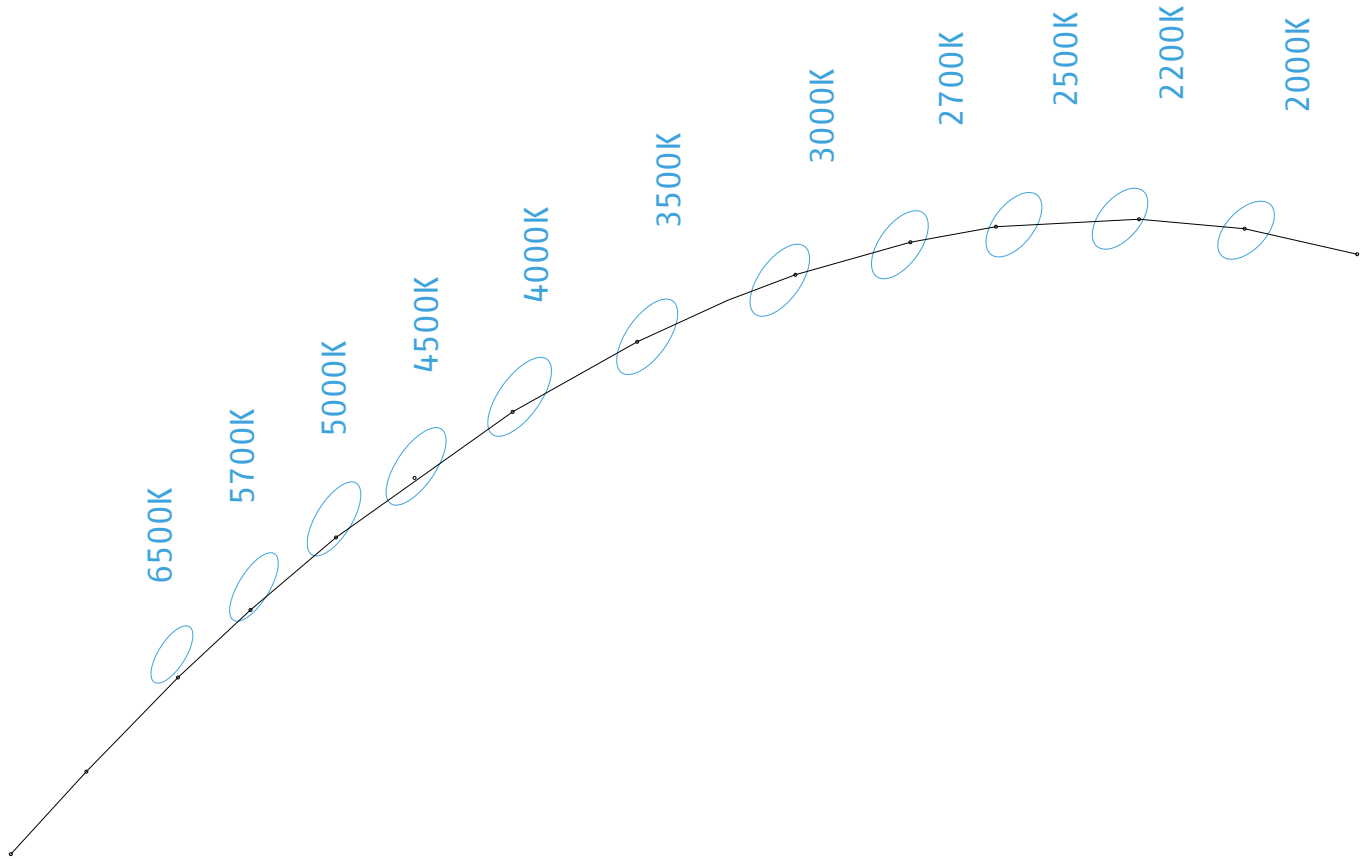
\*\*\* The values are measured with a LED strip M12-250 and M12-500 in the colour temperature 6500K (others on request).

Regarding the measurements, it's a matter of actual measurements. Due to the typical LED manufacturing tolerance deviations may occur. Each individual product may vary from this data. We reserve the right of error and technical modifications.

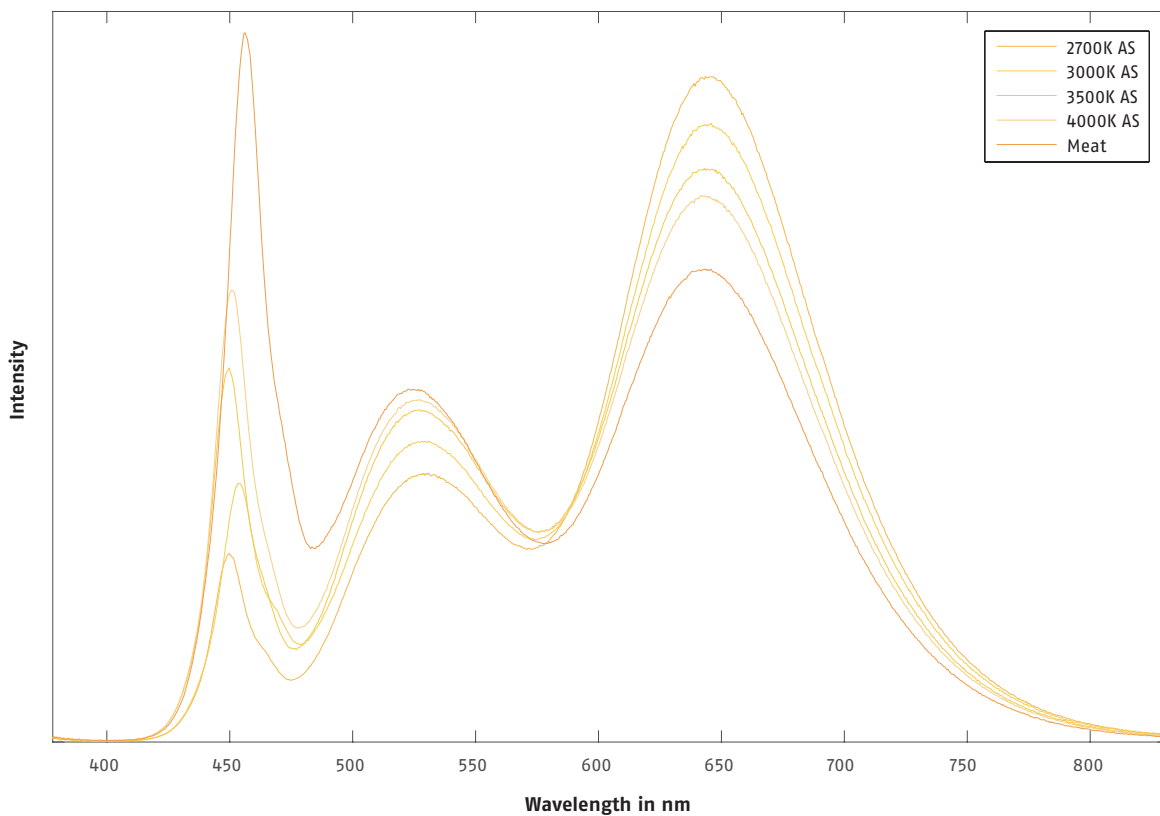
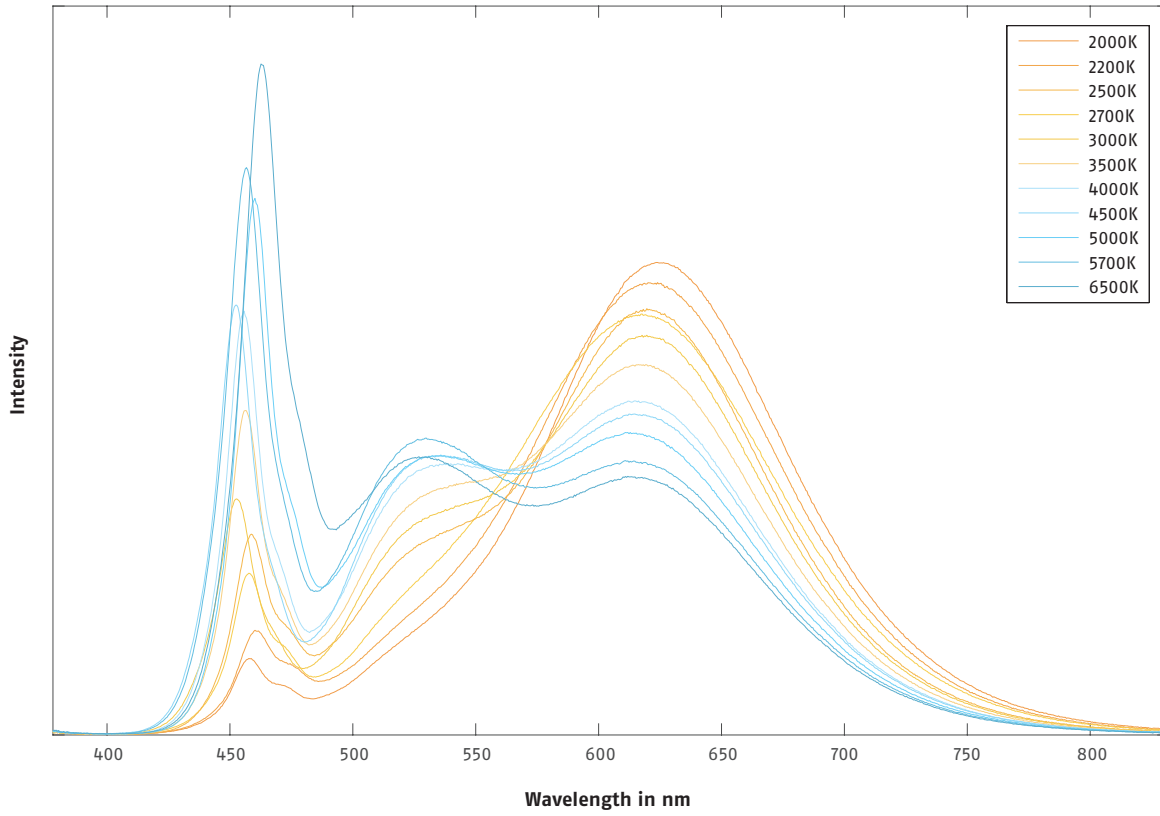
### Light distribution curves

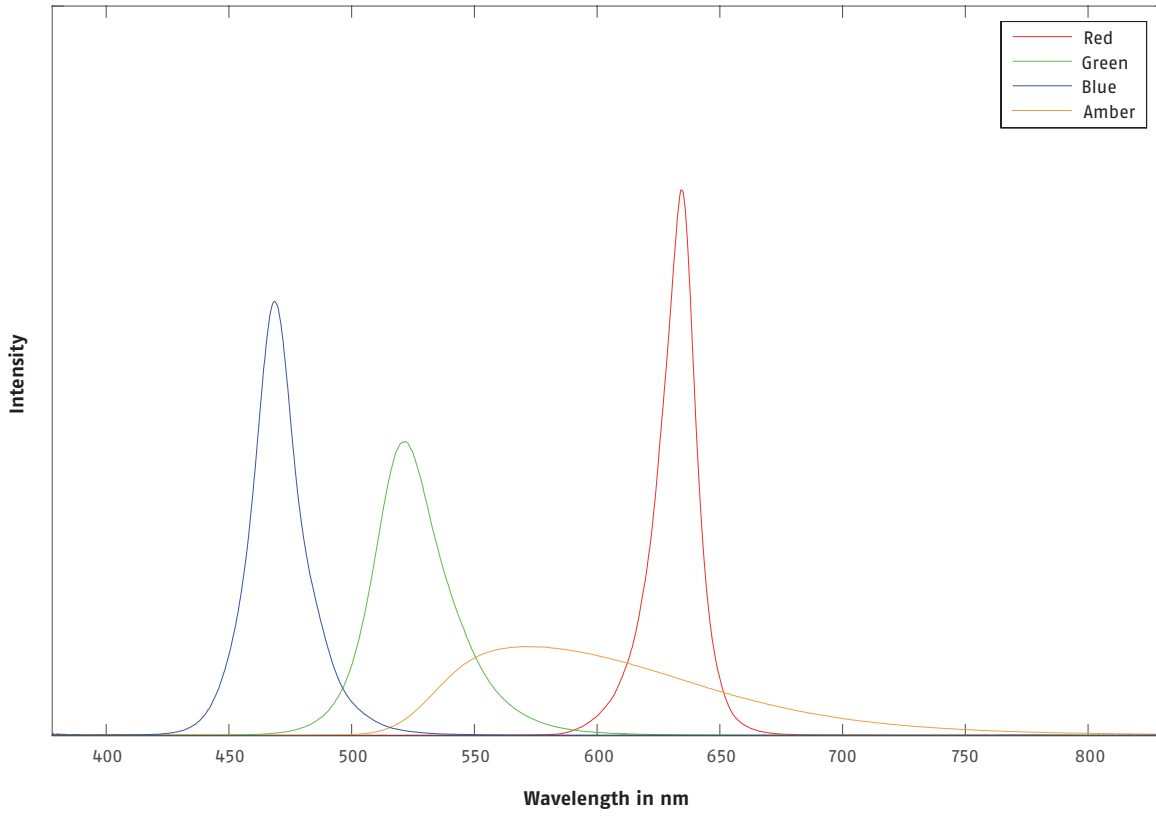


**Binning (3Step MacAdam)**



### Spectral distribution





# Electrical data

Features	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
Voltage range	20-27V	20-27V	20-27V
Current ( $I_{max}$ )	0,075A	0,15A	0,3A

## Pin Connection

### System connector blue



### With special equipment with two colours





# Control options for LED-Strip L12 MK3

## Long Distance Controller



### LED-Strip L12-125 MK3

can only be used at the end of a chain

### LED-Strip L12-250 MK3

108 LED-Strips per controller

18 LED-Strips per output

6 LED-Strips per channel

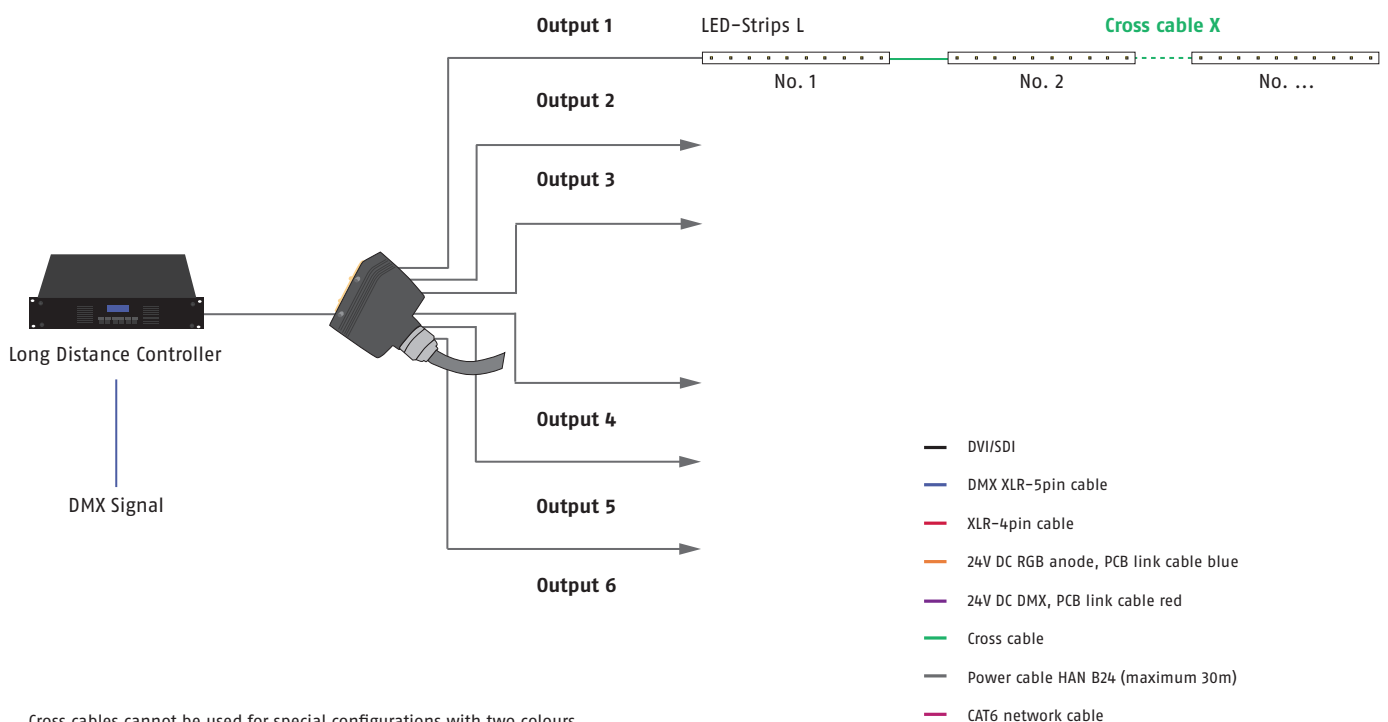
### LED-Strip L12-500 MK3

54 LED-Strips per controller

9 LED-Strips per output

3 LED-Strips per channel

## Cabling example Long Distance Controller with LED-Strip L12 MK3



Cross cables cannot be used for special configurations with two colours.

## Sys One

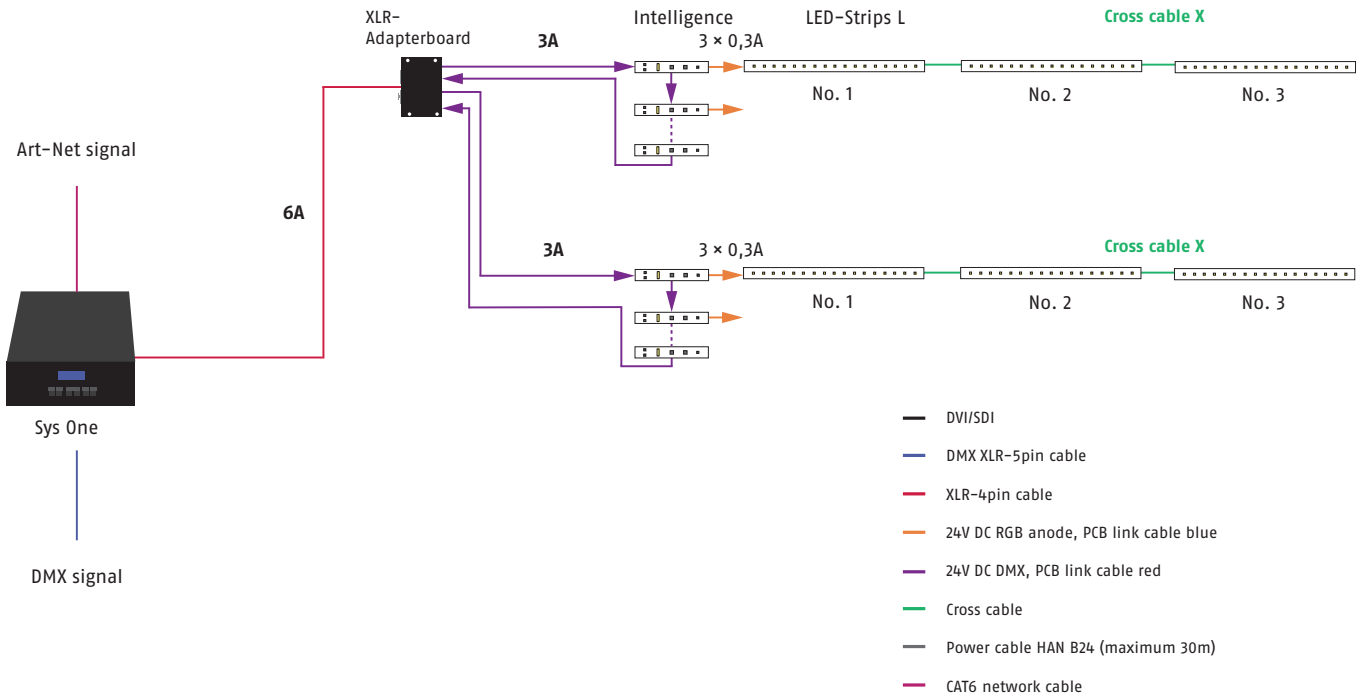
Specific feature: fanless operating



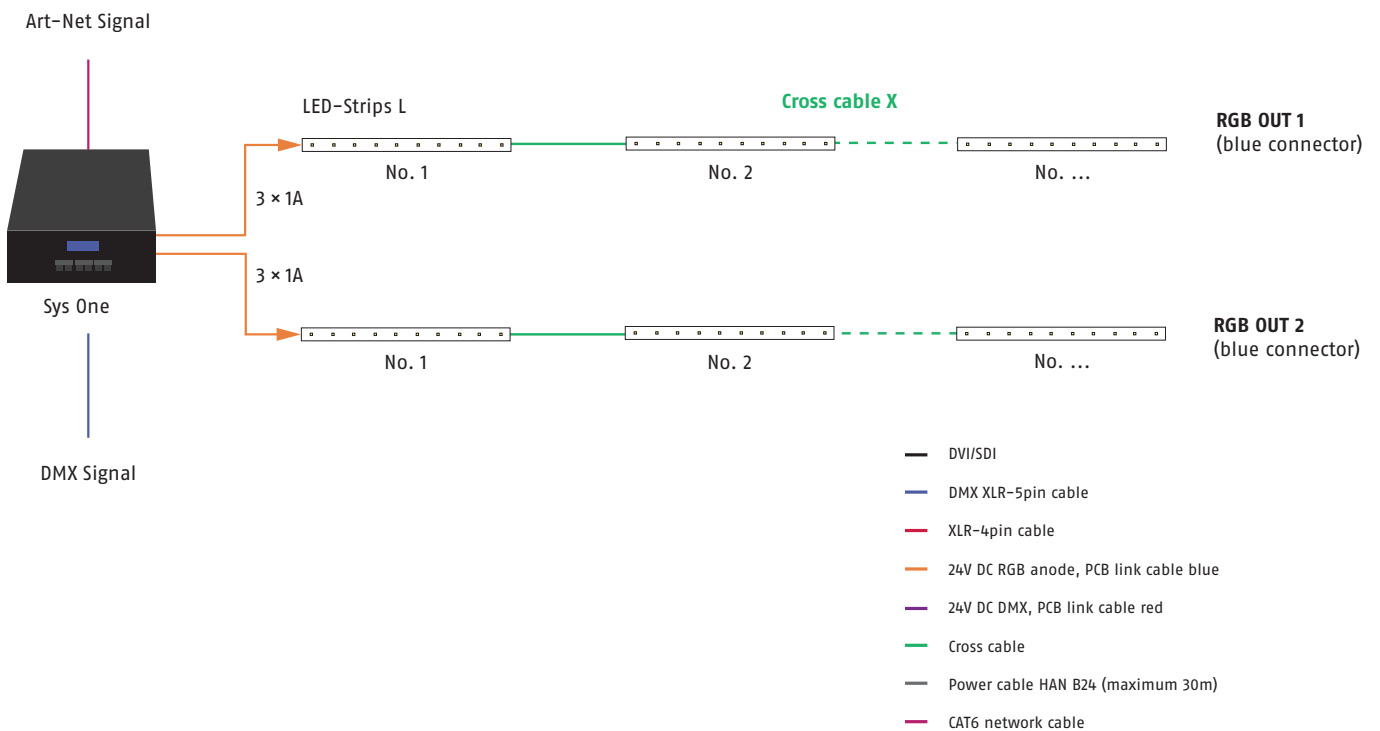
Power Data Out	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
Output XLR-4pin and Intelligence, <b>1 LED strip per control channel</b>	can only be used at the end of a chain	maximum 30 LED-Strips per controller 1 LED-Strip per channel	maximum 18 LED-Strips per controller 1 LED-Strip per channel
Output XLR-4pin and Intelligence, <b>maximum number of LED strips per Intelligence</b>		maximum 36 LED-Strips per controller 2 LED-Strips per channel	maximum 18 LED-Strips per controller 1 LED-Strip per channel
Output system connector blue		maximum 36 LED-Strips per controller maximum 18 LED-Strips per system connector blue maximum 6 LED-Strips per channel	maximum 18 LED-Strips per controller maximum 9 LED-Strips per system connector blue maximum 3 LED-Strips per channel

**Please note: connect only one output variable (XLR-4pin or System connector blue)!**

### Cabling example Sys One (XLR-4pin connector) with Intelligence and LED-Strip L12 MK3



### Cabling example Sys One (System connector blue) with LED-Strip L12 MK3



Cross cables cannot be used for special configurations with two colours.

## System Power Supply 4E and System Power Supply 4\*\*

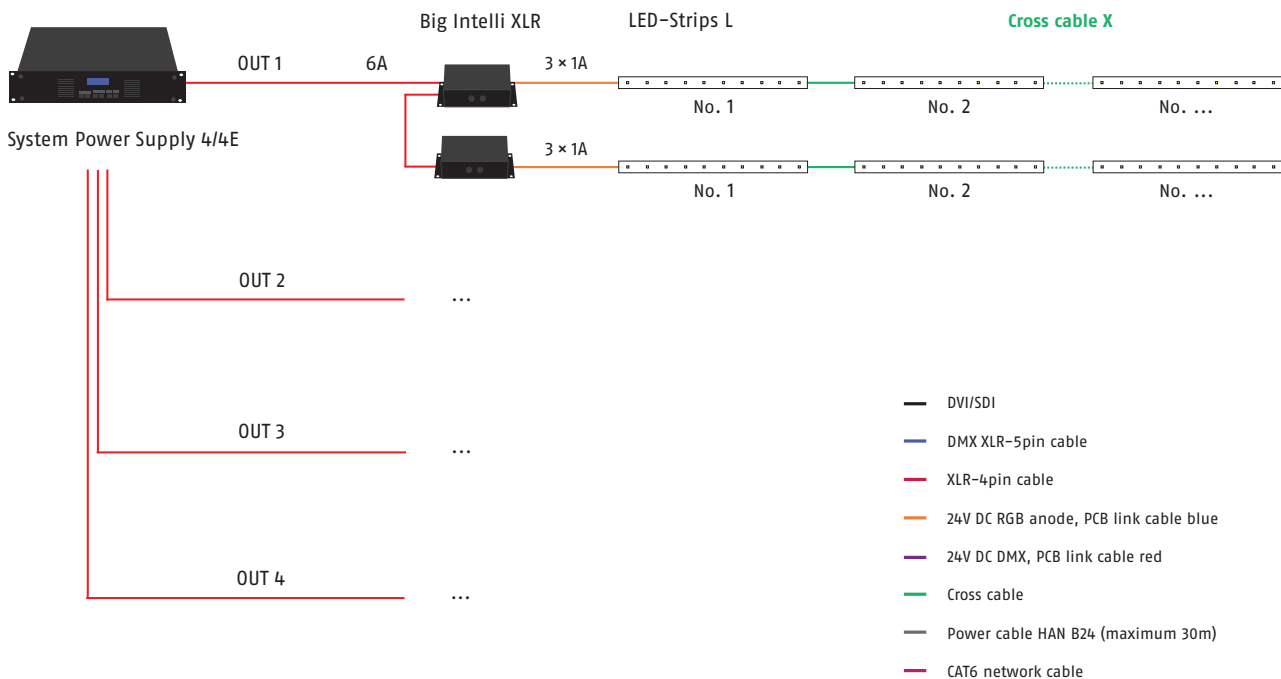


	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
with Big Intelli XLR*, <b>two Big Intellis per output</b>	can only be used at the end of a chain	maximum 144 LED-Strips per controller maximum 36 LED-Strips per output 6 LED-Strips per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 3 LED-Strips per channel
with Intelligence <b>1 LED strip per control channel</b>		maximum 120 LED-Strips per controller maximum 30 LED-Strips per output 1 LED-Strip per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 1 LED-Strip per channel
with Intelligence*, <b>maximum number of LED strips per Intelligence</b>		maximum 144 LED-Strips per controller maximum 36 LED-Strips per output 2 LED-Strips per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 1 LED-Strip per channel

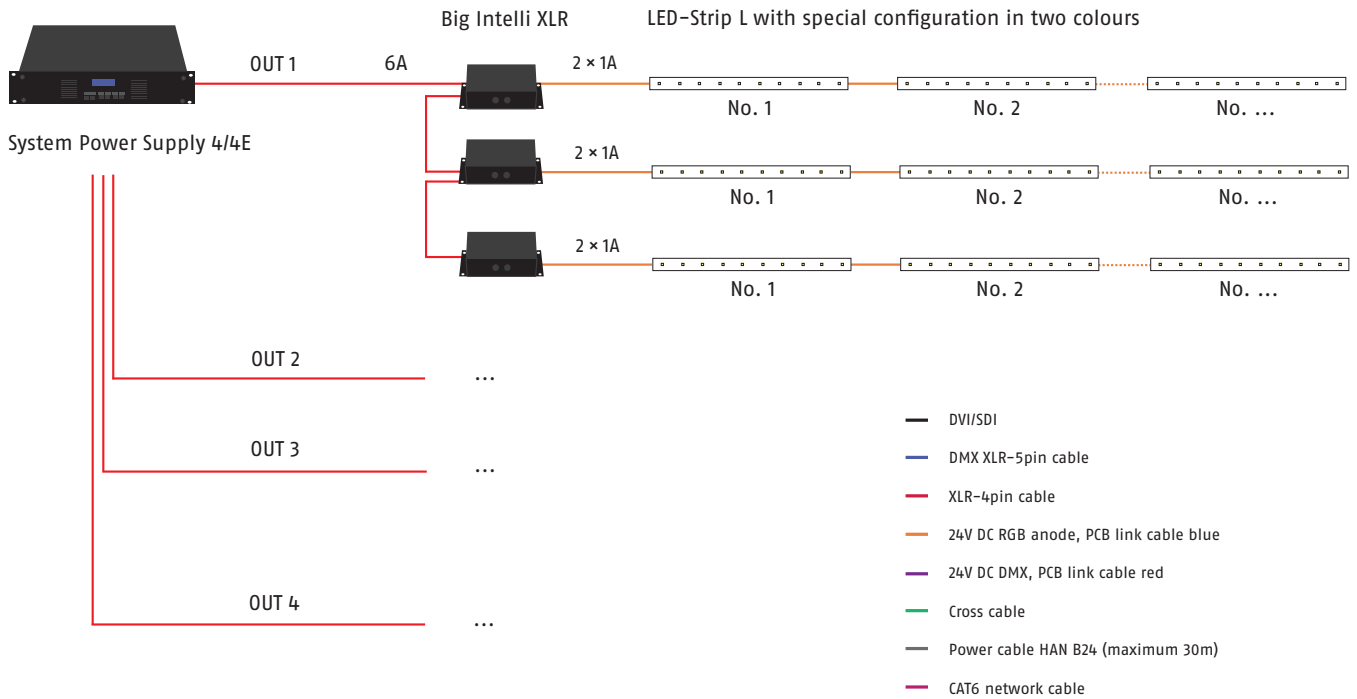
\* The System Power Supplies 4 and 4E can only control the LED-Strips L with an additional Intelligence.

\*\* A System Power Supply 4 cannot control more than 60 channels per output.

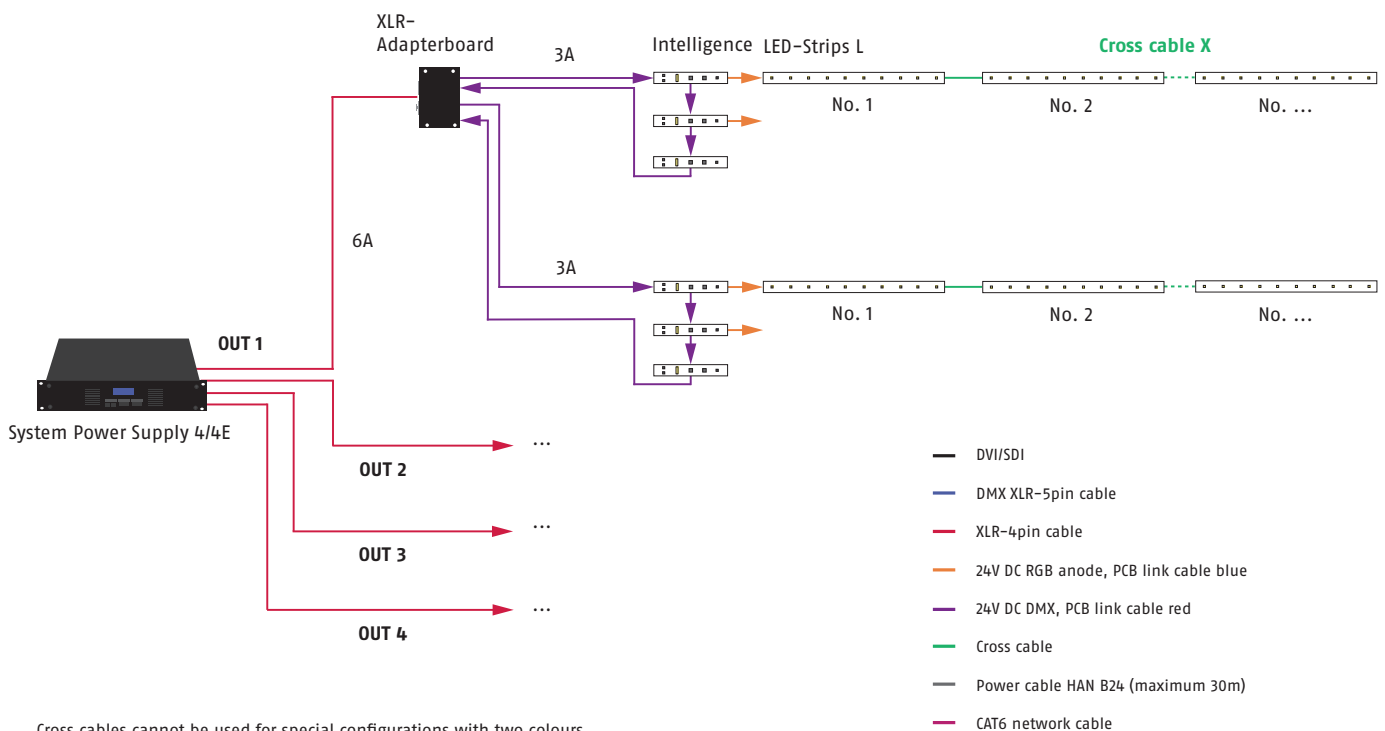
## Cabling example System Power Supply 4 or 4E and Big Intelli XLR with LED-Strip L12 MK3



### Cabling example System Power Supply 4E and Big Intelli XLR with two-colour LED-Strip L12 MK3



### Cabling example System Power Supply 4 or 4E and Intelligence with LED-Strip L12 MK3



Cross cables cannot be used for special configurations with two colours.

## DPB Pixel-Router Pro

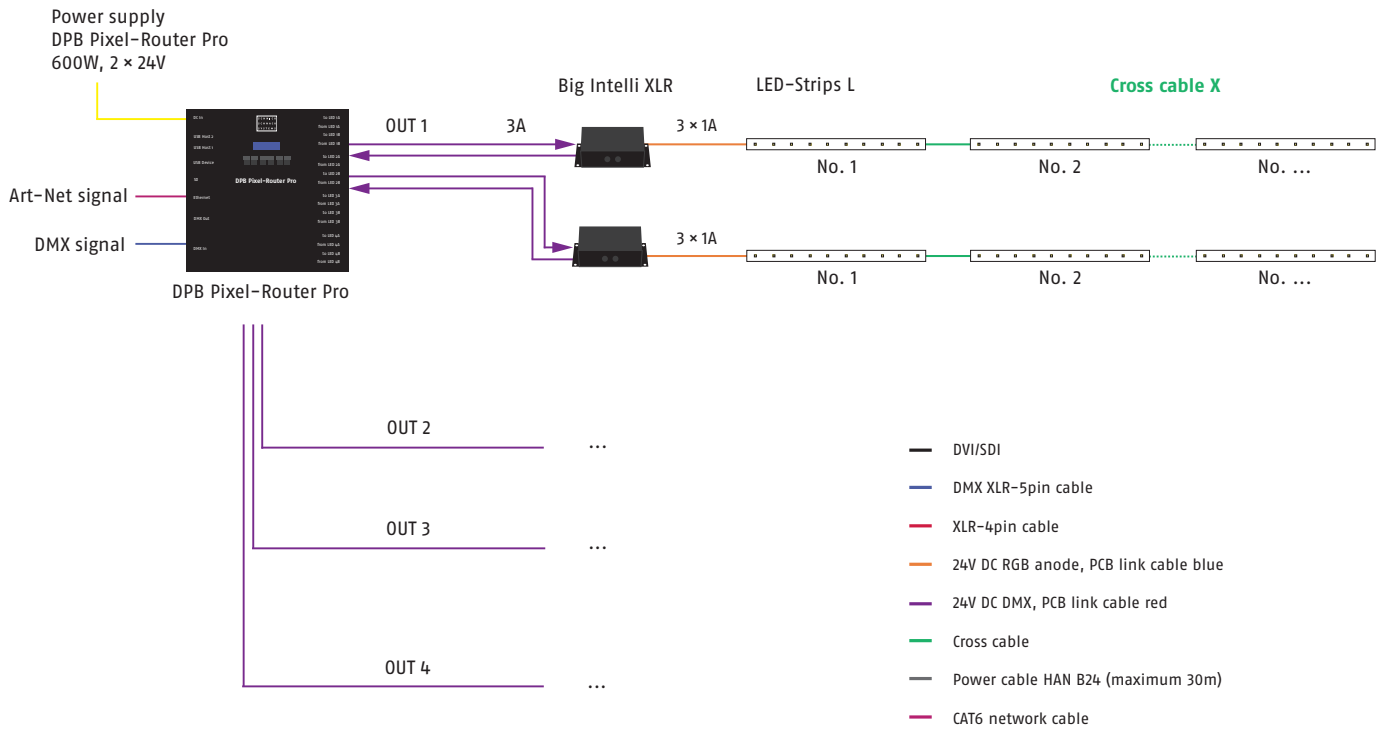
Specific feature: fanless operating



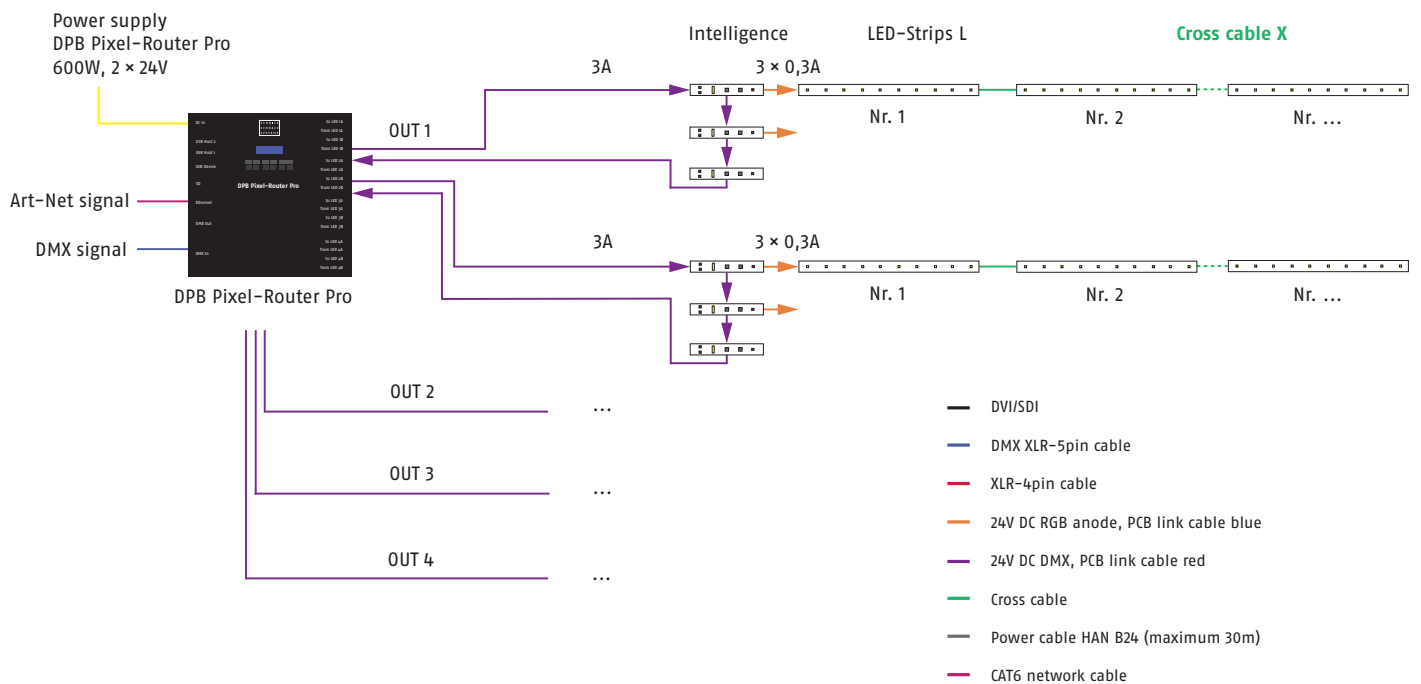
	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
with Big Intelli XLR*, <b>two Big Intellis per output</b>	can only be used at the end of a chain	maximum 144 LED-Strips per controller maximum 36 LED-Strips per output 6 LED-Strips per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 3 LED-Strips per channel
with Intelligence <b>1 LED strip per control channel</b>		maximum 120 LED-Strips per controller maximum 30 LED-Strips per output 1 LED-Strips per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 1 LED-Strips per channel
with Intelligence*, <b>maximum number of LED strips per Intelligence</b>		maximum 144 LED-Strips per controller maximum 36 LED-Strips per output 2 LED-Strips per channel	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 1 LED-Strips per channel

\*The DPB Pixel-Router Pro can only control the LED strips of the L MK3 series with additional intelligence.

### Cabling example DPB Pixel-Router Pro and Big Intelli XLR with LED-Strip L12 MK3



### Cabling example DPB Pixel-Router Pro and Intelligence with LED-Strip L12 MK3



Cross cables cannot be used for special configurations with two colours.

## DPB Pixel-Router

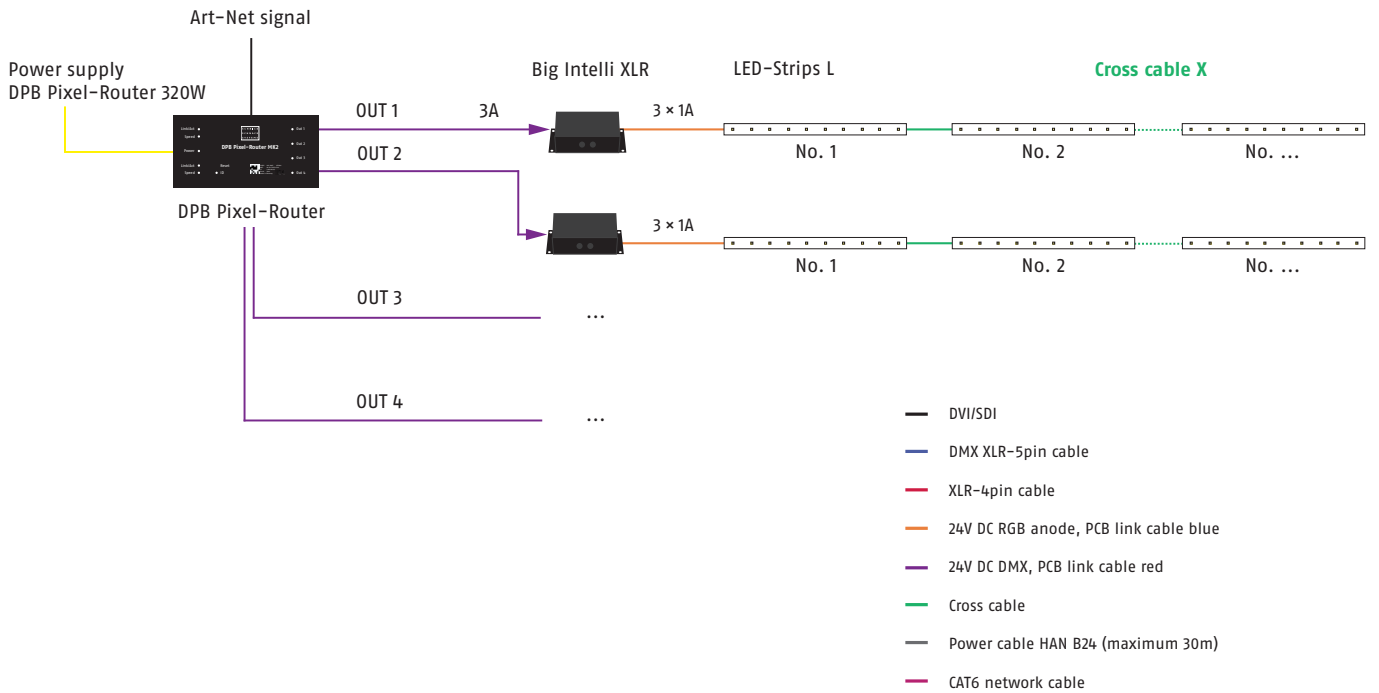


	LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
with Big Intelli XLR*	can only be used at the end of a chain	maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 6 LED-Strips per channel	maximum 36 LED-Strips per controller maximum 9 LED-Strips per output 3 LED-Strips per channel
with Intelligence <b>1 LED strip per control channel</b>		maximum 60 LED-Strips per controller maximum 15 LED-Strips per output 1 LED-Strips per channel	maximum 36 LED-Strips per controller maximum 9 LED-Strips per output 1 LED-Strips per channel
with Intelligence*, <b>maximum number of LED strips per Intelligence</b>		maximum 72 LED-Strips per controller maximum 18 LED-Strips per output 2 LED-Strips per channel	maximum 36 LED-Strips per controller maximum 9 LED-Strips per output 1 LED-Strips per channel

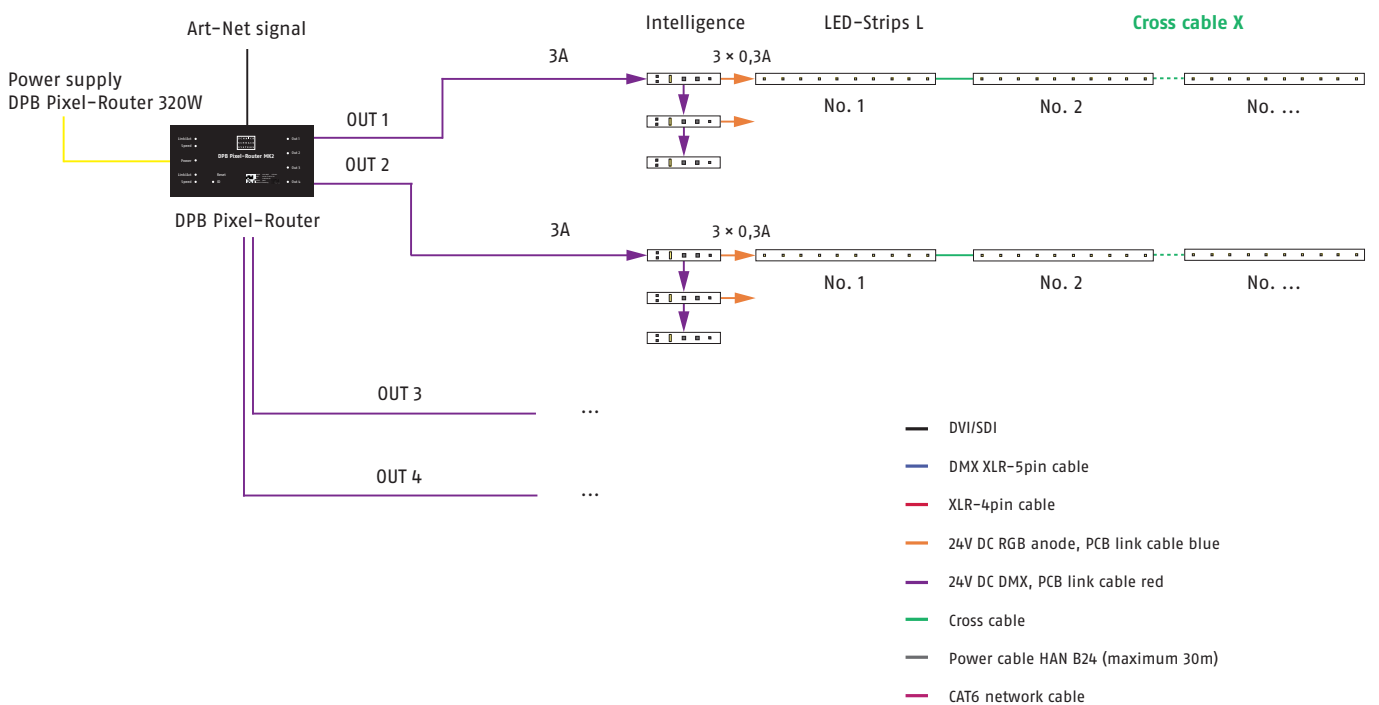
The DPB Pixel Router can only control the LED strips of the L MK3 series with additional intelligence.



### Cabling example DPB Pixel-Router and Big Intelli XLR with LED-Strip L12 MK3



### Cabling example DPB Pixel-Router and Intelligence mit LED-Strip L12 MK3



Cross cables cannot be used for special configurations with two colours.

### 70W Power Supply and Big Intelli (dimmable)



**LED-Strip L12-125 MK3**

can only be used at the end of a chain

**LED-Strip L12-250 MK3**

maximum 18 LED-Strips per Power Supply  
18 LED-Strips per channel

**LED-Strip L12-500 MK3**

maximum 9 LED-Strips per Power Supply  
9 LED-Strips per channel

### Cabling example for 70W Power Supply and Big Intelli with LED-Strip L12 MK3

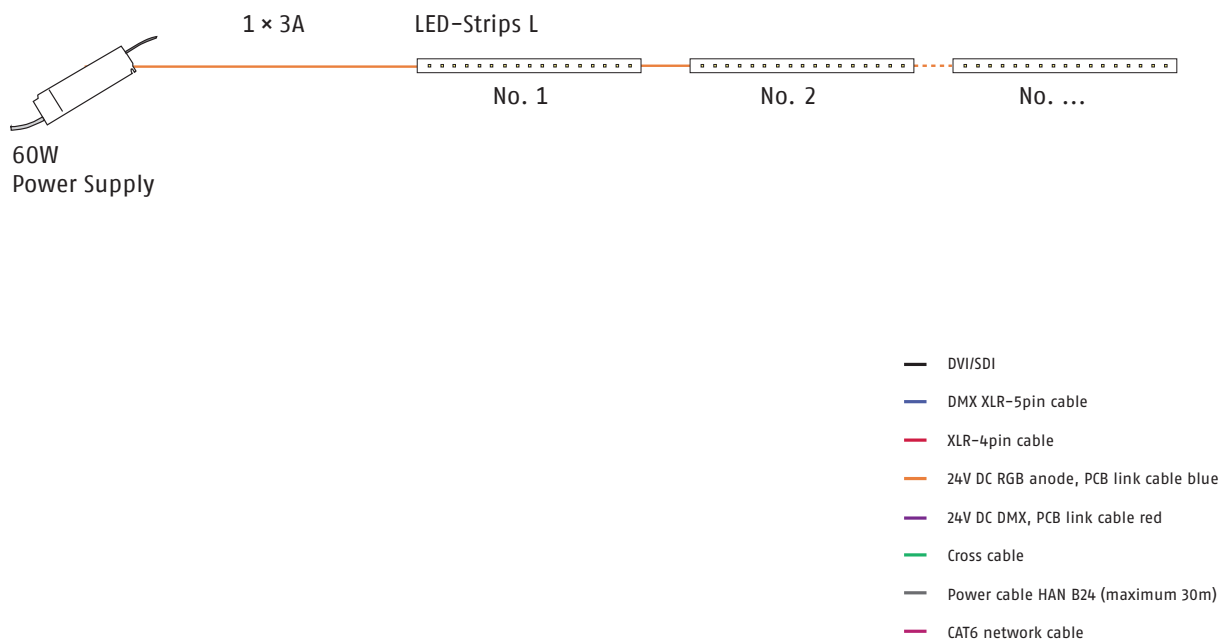


### 60W Power Supply (undimmed)



LED-Strip L12-125 MK3	LED-Strip L12-250 MK3	LED-Strip L12-500 MK3
can only be used at the end of a chain	maximum 20 LED-Strips per Power Supply	maximum 10 LED-Strips per Power Supply

### Cabling example 60W Power Supply with LED-Strip L12 MK3



# Example of calculation

## Calculation example for System Power Supply 4E with Intelligence and LED-Strip L12-250 MK3

### 1. Requirement: One control channel with each LED-Strip

One Intelligence can control  $3 \times 0,3A$  (three control channels per Intelligence)

$3 \times 0,15A$ ( $I_{\max}$ L12-250) =	0,45A
Requirement for Intelligence	0,07A
Total	<b>0,52A</b>

3A per system plug / **0,52A** = **5 Intelligences, each with three LED-Strips**

$2 \times 3A$  per Output  $\triangleq 2 \times 15$  LED-Strips = **30 LED-Strips per output**

4 outputs per System Power Supply 4E  $\triangleq 4 \times 30$  = **120 LED-Strips per System Power Supply 4E**

### 2. Requirement: As few Intelligences as possible should be used.

One Intelligence can control  $3 \times 0,3A$

$0,3A$  per channel /  $0,15A$  per LED-Strip = **2 LED-Strips per channel**

Corresponds to  $3 \times 2$  = **6 LED-Strips per Intelligence**

$6 \times 0,15A$ ( $I_{\max}$ L12-250) =	0,9A
Requirement for Intelligence =	0,07A
Total	0,97A

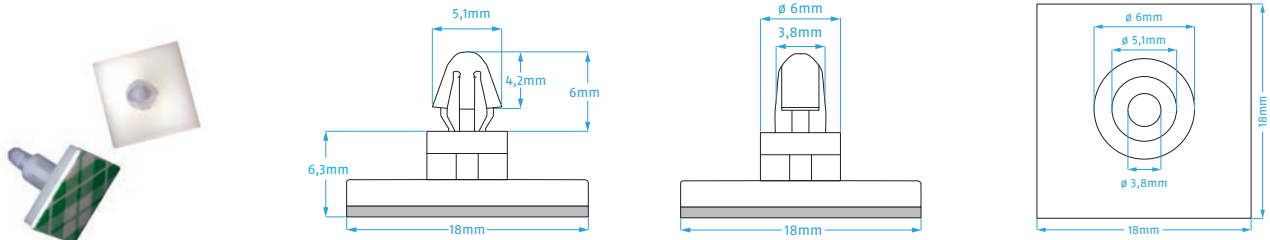
3A per system plug  $\triangleq 3A / 0,97A$  = 3 Intelligences per system plug

$\triangleq 6$  Intelligences per output

$\triangleq 24$  Intelligences per System Power Supply 4(E)

$\triangleq 24 \times 6$  = **144 Strips per System Power Supply 4E**

# Mounting

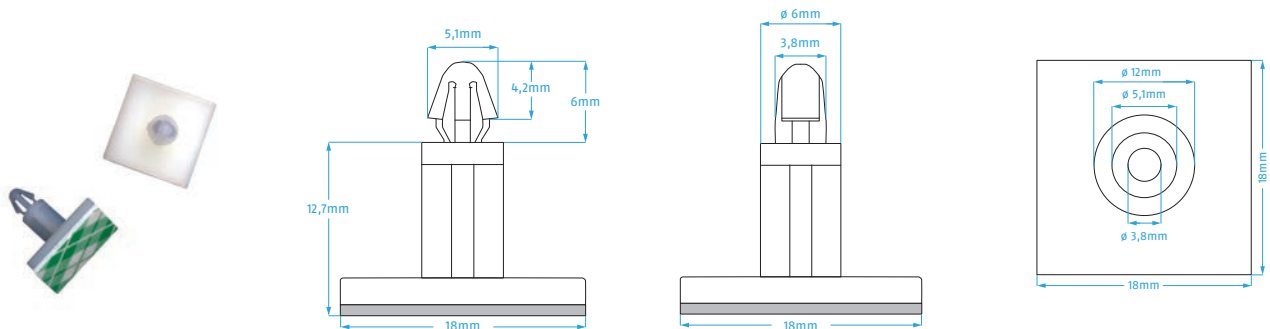


**Description**

PCB holder 6mm, self-adhesive version

**Item number**

802.0001

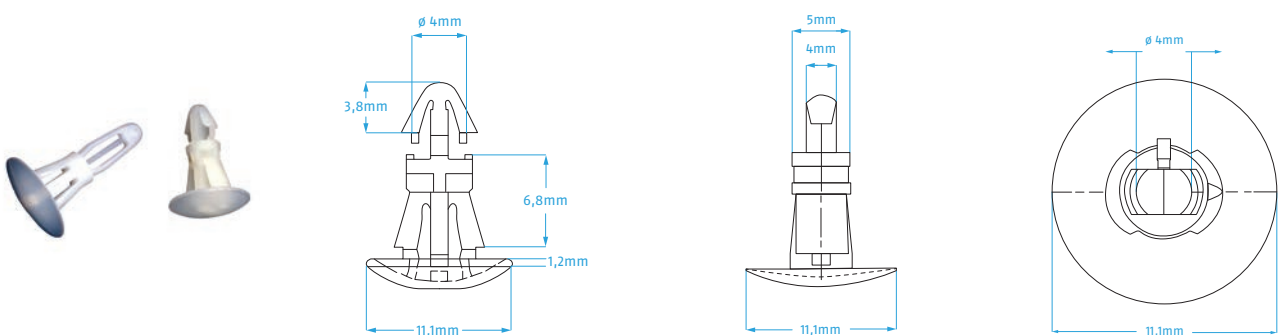


**Description**

PCB holder 12mm, self-adhesive version

**Item number**

802.0002



**Description**

PCB holder 6mm, plug-in version (for plates)

**Item number**

802.0003

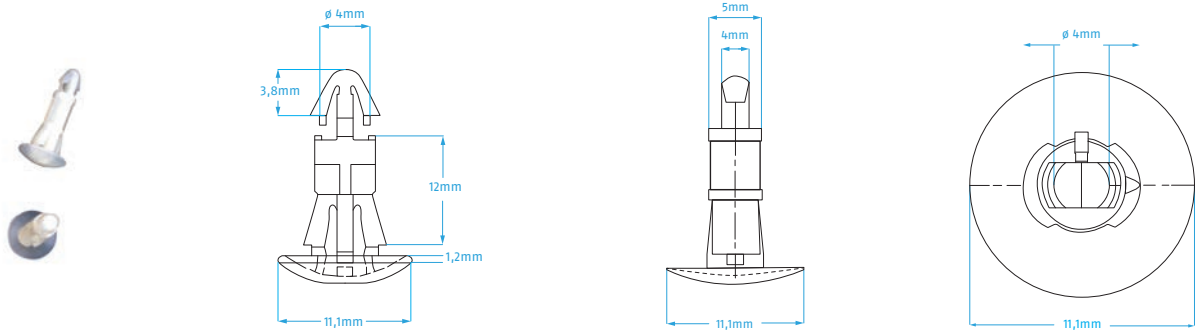
**Drill hole**

5,4mm

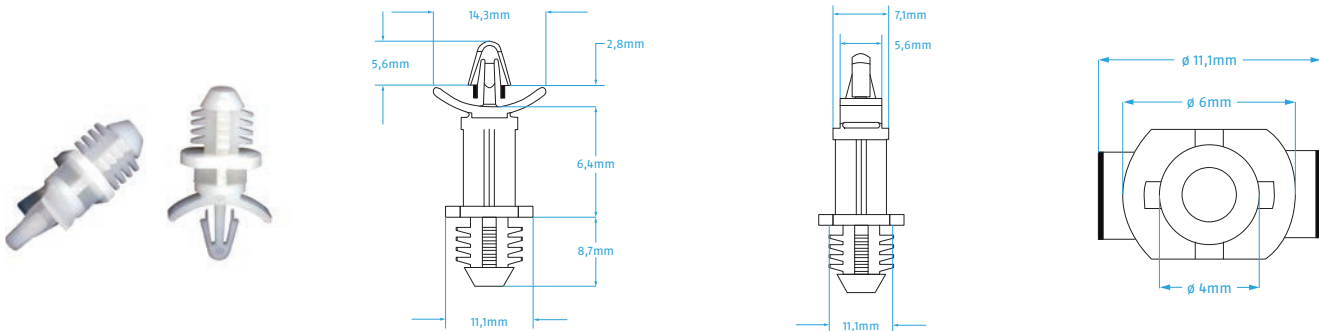
**Material thickness**

1,5-1,6mm

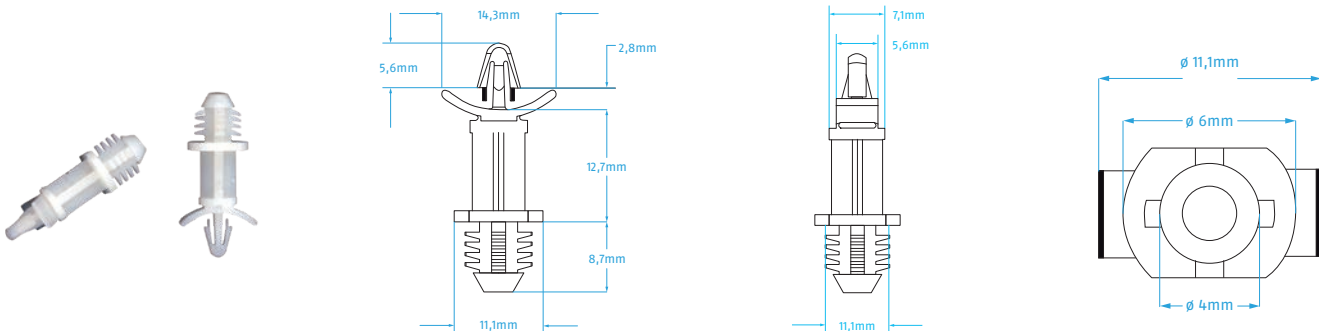
LED-Strips L with soldered Intelligence need PCB holders with a height of at least 12mm.



Description	Item number	Drill hole	Material thickness
PCB holder 12mm, plug-in version (for plates)	802.0004	5,4mm	1,5-1,6mm

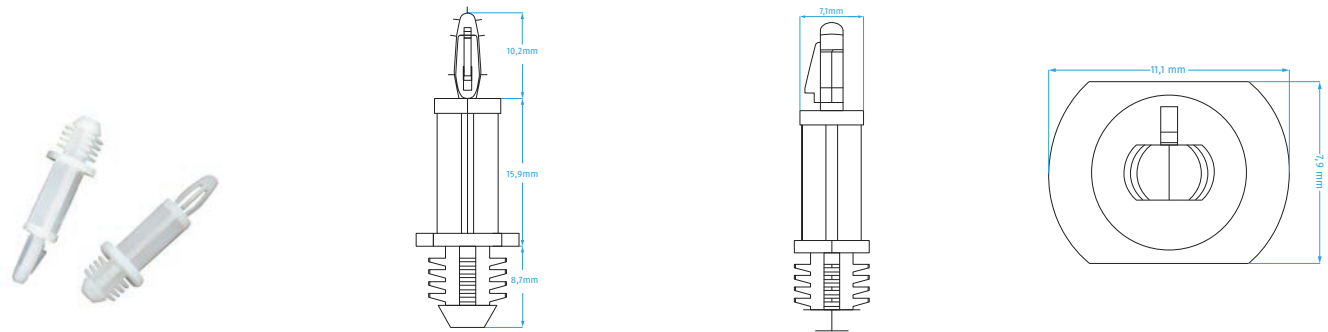


Description	Item number	Drill hole	Material thickness
PCB holder 6mm, drill version (for wood or plastic)	802.0006	7,9mm	minimum 6,4mm

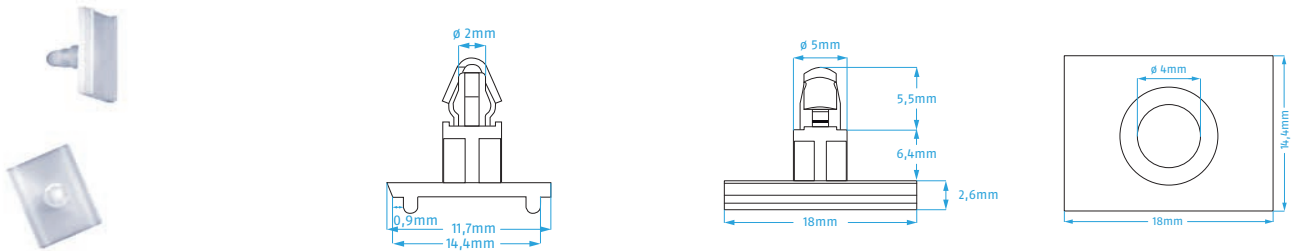


Description	Item number	Drill hole	Material thickness
PCB holder 12mm, drill version (for wood or plastic)	802.0007	7,9mm	minimum 6,4mm

LED-Strips L with soldered Intelligence need PCB holders with a height of at least 12mm.



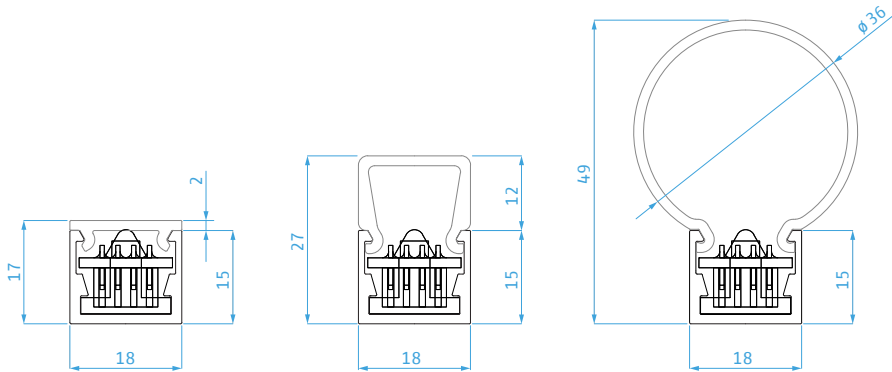
Description	Item number	Drill hole	Material thickness
PCB holder 16mm, drill version (for wood or plastic)	802.0008	7,9mm	minimum 6,4mm



Description	Item number
PCB holder 6mm, plug-in version (for click-profile)	802.0009

# Accessoires

## Profil18



Aluminum profile	Article number
LED-Profil 18-15, aluminum black, 2m	804.3201
LED-Profil 18-15, aluminum black, 0,1m-6m	804.3202
LED-Profil 18-15, aluminum anodized, 2m	804.3203
LED-Profil 18-15, aluminum anodized, 0,1m-6m	804.3204

Diffusers	Article number
Diffuser 18-02, satin, 2m, for all Pixel distances	804.3226
Diffuser 18-02, satin, 0,1m-6m, for all Pixel distances	804.3227
Diffuser 18-12, white, 2m, for 12mm Pixel distance or less	804.3228
Diffuser 18-12, white, 0,1m-6m, for 12mm Pixel distance or less	804.3229
Diffuser 18-12, black, 2m, for all Pixel distances	804.3230
Diffuser 18-12, black, 0,1m-6m, for all Pixel distances	804.3231
Diffuser 18-D36, white, 2m, for 25mm Pixel distance or less	804.3232
Diffuser 18-D36, white, 0,1m-6m, for 25mm Pixel distance or less	804.3233

Head ends	Article number
Head end 18-02, black, professional 3D print	804.3251
Head end 18-12, black, professional 3D print	804.3261
Head end 18-D36, black, professional 3D print	804.3271



## Rectangular profiles



Rectangular profiles	Item number
Rectangular profile, 2m, 24mm × 30mm (W × H), aluminium anodised	804.2401
Rectangular profile, 2m, 24mm × 30mm, aluminium anodised, in pack of ten	804.2411
Rectangular profile, 2m, 24mm × 30mm (W × H), black	804.2403
Rectangular profile, 2m, 24mm × 30mm (W × H), black, in pack of ten	804.2413

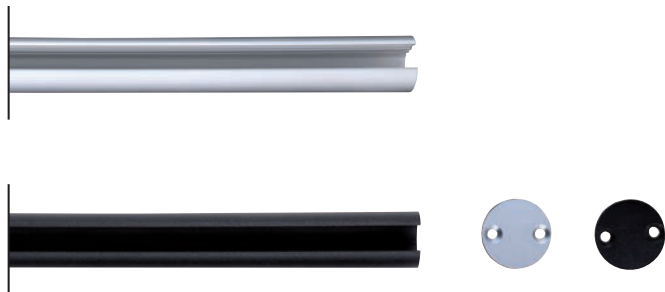
Click profile	Item number
Click eachfile for rectangular profile, 2m, transparent	802.0040
Click eachfile for rectangular profile, 2m, in pack of ten	802.0041

Brackets	Item number
Bracket for rectangular profile, 2m, plastic, black	804.2492
Bracket for rectangular profile, 2m, plastic, black, in pack of ten	804.2493

Head ends	Item number
Head end aluminium anodised, 6mm, including screws	804.2431
Head end aluminium anodised, 12mm, including screws	804.2441
Head end black, lacquered, 6mm, including screws	804.2433
Head end black, lacquered, 12mm, including screws	804.2443

Special lengths and colours available upon request. For special colours please provide relevant RAL-information.

## Cylindrical profiles



Cylindrical profiles	Item number
Cylindrical profile, 2m, $\varnothing$ 25mm, aluminium anodised	804.2504
Cylindrical profile, 2m, $\varnothing$ 25mm, black	804.2506

Bracket	Item number
Bracket for cylindrical profile (transparent)	802.0038
Bracket for cylindrical profile (black)	802.0039

Covering	Item number
Covering for cylindrical profile 2m, transparent	804.2594

Head ends	Item number
Head end aluminium natural, lasered, 2mm thin, including screws	804.2520
Head end aluminium, rotated, anodised, 12mm width, including screws	804.2541
Head end aluminium, rotated, anodised, 12mm width, with cable outlet, including screws	804.2551
Head end black, lasered, 2mm thin, including screws	804.2523
Head end black, rotated, 12mm width, including screws	804.2543
Head end black, rotated, 12mm width, with cable outlet, including screws	804.2553

Special lengths and colours available upon request. For special colours please provide relevant RAL-information.

## Lenses



1 Lens Spot (19°)



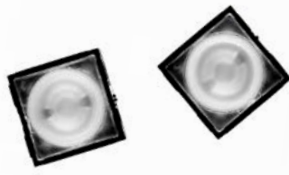
2 Lens Spot frost (30°)



3 Lenses Medium (35°)



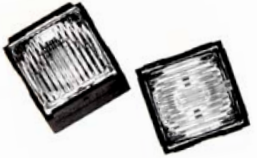
4 Lenses Wide (45°)



5 Lenses X-Wide (50°)



6 Oval Lenses (40° × 22°)



7 Oval Lenses (22° × 40°)

	Lens type	Item number
Lens Spot (19°) for LED-Strip L12 MK3 1	Ledil Larisa-RS-Pin	720.0001
Lens Spot frost (30°) for LED-Strip L12 MK3 2	Ledil Larisa-RZ-Pin	720.0002
Lenses Medium (35°) for LED-Strip L12 MK3 3	Ledil Larisa-M-Pin	720.0003
Lenses Wide (45°) for LED-Strip L12 MK3 4	Ledil Larisa-W-Pin	720.0004
Lenses X-Wide (50°) for LED-Strip L12 MK3 5	Ledil Larisa-VVW-Pin	720.0005
Oval Lenses (40° × 22°) for LED-Strip L12 MK3 6	Ledil Larisa-O-Pin	720.0006
Oval Lenses (22° × 40°) for LED-Strip L12 MK3 7	Ledil Larisa-O-90-Pin	720.0007

# Order numbers

	LED-Pitch	Length	Channels	Power (I <sub>max</sub> )	Colour	Item number
LED-Strip L12-125 MK3 S <sup>2</sup>	12,5mm	125mm	0/1 <sup>1</sup>	0,075A	2000K	103.8201
					2200K	103.8301
					2500K	103.8401
					2700K	103.8501
					2700K AS	103.8504
					3000K	103.8601
					3000K AS	103.8604
					3500K	103.8701
					3500K AS	103.8704
					4000K	103.8801
					4000K AS	103.8804
					4500K	103.8901
					5000K	103.9001
					5700K	103.9101
					6500K	103.9201
					Red	103.9401
					Green	103.9501
					Blue	103.9601
					Amber	103.9701
					Meat	103.9801
Two-coloured	103.9901					
Shorten from 125mm to 100mm						103.9982
Shorten from 125mm to 112,5mm						103.9981

1) The product can be controlled individually or in groups with an Intelligence.

2) Connector version. The products are also available as solder versions.

	LED-Pitch	Length	Channels	Power (I <sub>max</sub> )	Colour	Item number
LED-Strip L12-250 MK3 S <sup>2</sup>	12,5mm	250mm	0/1 <sup>1</sup>	0,15A	2000K	103.8202
					2200K	103.8302
					2500K	103.8402
					2700K	103.8502
					2700K AS	103.8505
					3000K	103.8602
					3000K AS	103.8605
					3500K	103.8702
					3500K AS	103.8705
					4000K	103.8802
					4000K AS	103.8805
					4500K	103.8902
					5000K	103.9002
					5700K	103.9102
					6500K	103.9202
					Red	103.9402
					Green	103.9502
					Blue	103.9602
					Amber	103.9702
					Meat	103.9802
Two-coloured	103.9902					
Shorten from 250mm to 200mm						103.9983
Shorten from 250mm to 212,5mm						103.9984
Shorten from 250mm to 225mm						103.9985
Shorten from 250mm to 237,5mm						103.9986

	LED-Pitch	Length	Channels	Power (I <sub>max</sub> )	Colour	Item number
LED-Strip L12-500 S <sup>2</sup>	12,5mm	500mm	0/1 <sup>1</sup>	0,3A	2000K	103.8203
					2200K	103.8303
					2500K	103.8403
					2700K	103.8503
					2700K AS	103.8506
					3000K	103.8603
					3000K AS	103.8606
					3500K	103.8703
					3500K AS	103.8706
					4000K	103.8803
					4000K AS	103.8806
					4500K	103.8903
					5000K	103.9003
					5700K	103.9103
					6500K	103.9203
					Red	103.9403
					Green	103.9503
					Blue	103.9603
					Amber	103.9703
					Meat	103.9803
Two-coloured	103.9903					
Shorten from 500mm to 350mm						103.9987
Shorten from 500mm to 362,5mm						103.9988
Shorten from 500mm to 375mm						103.9989
Shorten from 500mm to 450mm						103.9990
Shorten from 500mm to 462,5mm						103.9991
Shorten from 500mm to 475mm						103.9992
Shorten from 500mm to 487,5mm						103.9993

1) The product can be controlled individually or in groups with an Intelligence.

2) Connector version. The products are also available as solder versions.

	Operating voltage	Power (I <sub>max</sub> )	Power (auxiliary power)	Channels	Connection	Item number
LED-Intelligence	24V DC	3 × 0,3A	0,07A	3	System connector red/blue	302.0015
Big Intelli XLR (in case)	24V DC	3 × 1A	0,07A	3	System connector red/blue XLR-4pin	203.0030
Big Intelli Monochrome (in case)	24V DC	3 × 1A		1	System connector red/blue	203.0031

	Operating voltage	Power (I <sub>max</sub> )	Channels	Input	Output	Item number
System Power Supply 4E	110–240V AC	4 × 6A*	4 × 3072 channels (DPB) 4 × 512 channels (DMX)	Ethercon RJ 45 XLR-5pin IN/Through	4 × XLR-4pin	203.0003
System Power Supply 4	110–240V AC	4 × 6A	4 × 60	XLR-5pin IN/Through	4 × XLR-4pin	203.0002
DPB Pixel-Router Pro	100–240 V AC	4 × 2 × 3A	4 × 3072 channels (DPB) 4 × 512 channels (DMX)	Ethercon RJ 45 XLR-5pin IN/Through	System connector red	203.0023
DPB Pixel-Router MK2.6	24V DC	4 × 3A	4 × 3072 channels	RJ 45	4 × System connector red	203.0021
DPB Pixel-Router POE MK2.6	24V DC	4 × 3A	4 × 3072 channels	RJ 45	4 × System connector red	203.0022
Sys One	110–240V AC	1 × 6A oder 2 × 3A oder 2 × (3 × 1A)	1 × 512** or 2 × 512**	XLR-5pin IN/Through	1 × XLR-4pin 2 × System connector red 2 × System connector blue	203.0007
Long Distance Controller	110–240V AC	6 × (R: 0,9A + G: 1,1A + B: 1,1A)	18	XLR-5pin IN/Through	Multicore-24pin	203.0001
70W-Power Supply (24V DC)	220–240V AC				System connector red	204.0151
60W-Power Supply (20V DC)	100–240V AC				System connector blue (L-Series)	204.0653

\* Note: american version only 4 × 4A at 110V

\*\* depending on the output configuration

## ESD warning

Please be aware that electrostatic discharges can destroy LED boards, and our experience shows that this does happen. During assembly, we recommend wearing at least one antistatic wrist strap and avoiding static discharges – such as those that arise when removing protective film or dry cleaning acrylic glass, for example – near LEDs! Antistatic materials should be used when packaging the LED boards. Normal bubble wrap or other plastic bags are not suitable.

For reasons of safety and radio shielding, please only use systems we have approved to provide a power supply for our LED components. All technical information is based on the version at the time of printing.

We reserve the right to make technical specifications in terms of a product improvement without prior notice. Printing – even excerpts – requires the written consent of Schnick-Schnack-Systems GmbH.

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## **Why Schnick Schnack Systems?**

As installation times become increasingly shorter the complexity of systems simultaneously increases as do the requirements of customers.

We are a supplier who delivers high-quality reliable systems – under tight deadline constraints that are not only quick to install but also simple to operate and service.

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