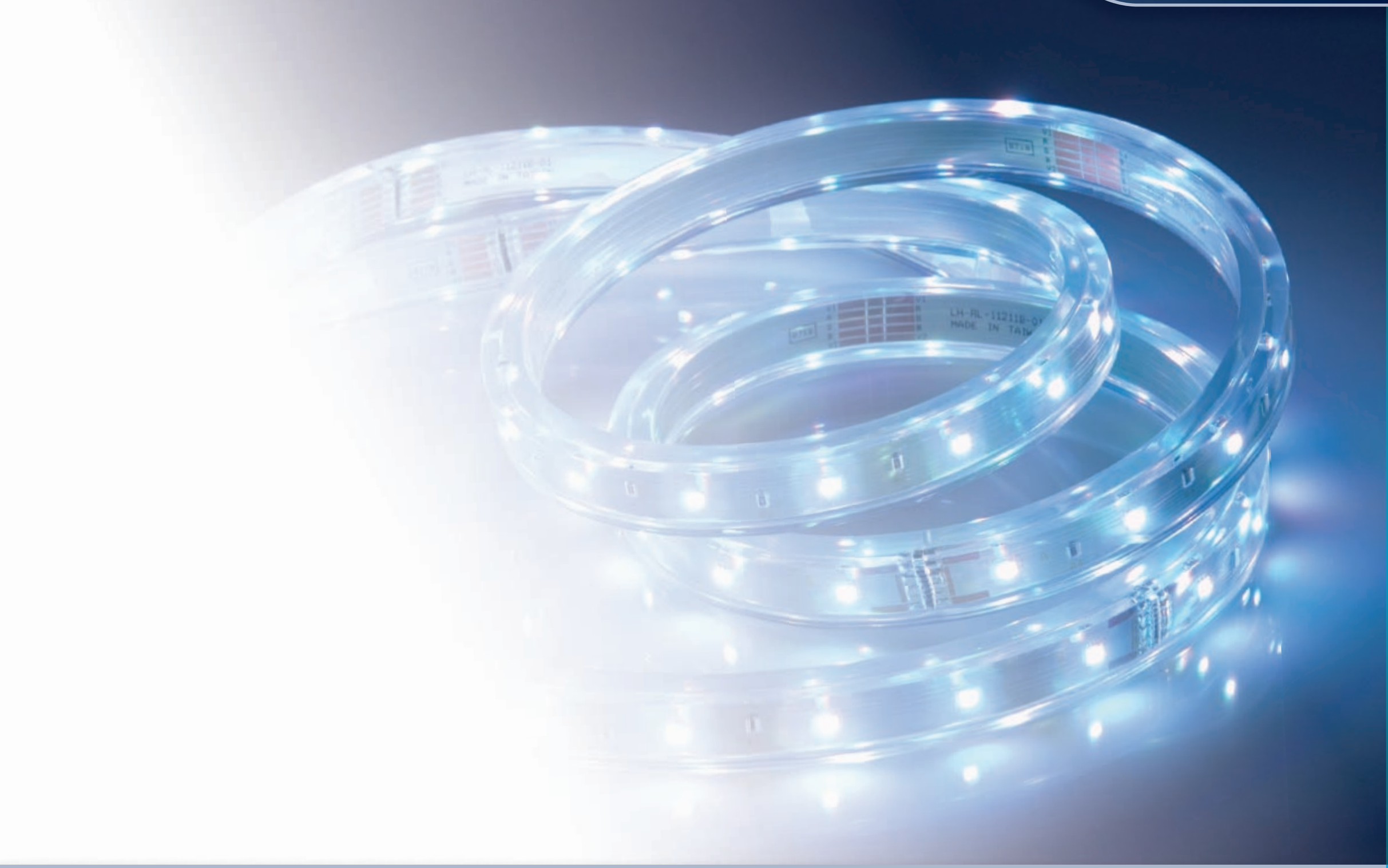
LED Light Strip



Introduction

LEDLight Strip is a combination of SMD Leds and extrusion technology. The SMD (Surface Mounted Device) print – the print plate on which the leds have been assembled directly - has been enveloped with a transparent, UV/IR-protected PVC housing. The result is a high-quality product with which you can create colourful and amazing linear light accents. It is a very efficient and multi-purpose solution for various architectural in- and outdoor applications.

Properties
- Flexible linear lighting
- Very clear SMD leds
- Low energy consumption and high light yield
- Protected against damp: IP55
- Available in different fixed colours and RGB
- No maintenance and durable
- Minimal heat generation
- Long extension leads
- Possibilities to shorten, connect and roll
- Extremely functional and multi-purpose
- Dimmable
- Accessories and fitting profiles included

TRIO light
2.1 Introduction

The LED Light Strip is available in 6 different fixed colours (amber, red, green, blue, white, warmwhite) and RGB. With the RGB-edition you can mix fascinating colours and with diverse light programs and fixed colour adjustments you can determine the exact colour and atmosphere.
The bespoke lining of the fixed colours (6x12mm) differs from the RGB (11x18mm). Special connection and fitting material has been developed for both measures.

Beside the different sizes, the power (fixed colour: 3,6W/m, RGB: 7,2W/m) and the maximum connecting length also differ. Apart from that, nearly all technical specifications are the same. Both strips have a led-distance of 28,5 mm and it is possible to shorten them every 20 cm (equal to 7 leds).

Accessories
For the fitting we deliver mounting materials such as rounding clips, u- profiles and aluminium profiles.

You can fit the LED Light Strip in numerous ways, such as:
- Sinking in wood (having cut out the wood)
- Gluing
- Mounting in various aluminium profiles
- Grouting
- Etc.

Power supplies, dimmers, RGB/Dim Controllers and aluminum profiles
Tri-O-Light has selected a number of special supplies and dimmers, and has developed RGB/Dim Controllers and aluminium profiles to complement the system.

Applications
Because of its versatility and many advantages the LED Light Strip is suitable for many applications in various categories:
- Architecture, ambience & decorative lighting
- Accent lighting
- Contour lighting
- Cove lighting
- Recessed lighting
- Route-, marking lighting
- Stair-, doorstep and skirting lighting
- Floodlight

Entertainment & leisure
- Stage, theatre, club or casino lighting
- Pool, health spa, sauna lighting

Displays & advertising
- Lettering
- Advertising lighting
- Display lighting

General lighting
- Emergency and safety lighting
- Retail, corporate, public, residential

We clarify a number of these applications by showing some pictures and information.

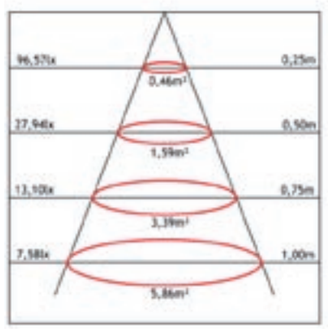
RGB

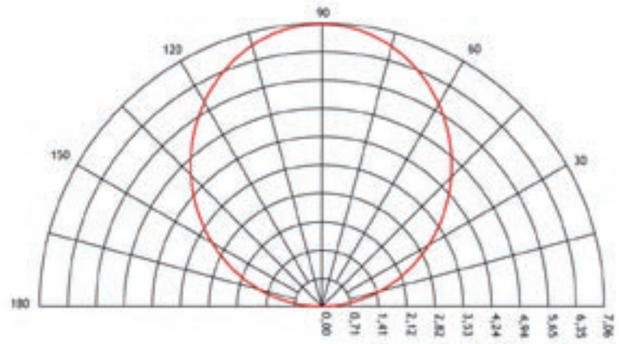
LED Light Strip RGB

LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W18xH11mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per metre
Maximale connection length (m)	10m
Spool length (m)	50m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC RoHs compliant
LED colour(s)	RGB
Wavelength (nm)	Red = 617.11nm, Green = 533.31nm, Blue = 460.20nm
Luminous flux (lm)	44.42 (20cm)
Luminous intensity (cd)	7.06cd
Illuminance (lx)	7.58 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	7.2W/m
Dimmable	yes
Control	with RGB Controller
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (50m), exclusive of accessories
To be used with	accessories, 24VDC power supply, RGB/Dim Controllers and aluminium profiles

Product code
011297

Description
LED Light Strip, 24VDC 11x18mm, RGB [m]





LED Light Strip RGB

1m demo

Note	Complete (demo)-set of 1m
Dimensions	L26xW26xH7cm (packing)
Weight (g)	1000g
Composition	1m LED Light Strip RGB, 1x RGB Controller, 1x Power plug, 1x Connector set 1m, 1x End cap, 1x Inline connector, 1x Extension cord, 5x Mounting clip
Packing	per set
Product code	Description
011556	LLS RGB Set, 1m + accessories [set]

LED Light Strip RGB

2m set

Note	Complete set of 2m
Dimensions	L26cmxW26xH7cm (packing)
Weight (g)	1200g
Composition	2m LED Light Strip RGB, 1x RGB Controller, Power plug, 1x Connector set 1m, 1x Ending, 1x Inline connector, 1x Extension cord, Mounting clip
Packing	per set
Product code	Description
011557	LLS RGB Set, 2m + accessories [set]

LED Light Strip RGB

5m set

Note	Complete set of 5m
Dimensions	L39xW39xH10cm (packing)
Weight (g)	1950g
Composition	5m LED Light Strip RGB, 1x RGB Controller, 1x Power supply, 2x Connector set 1m, 2x End cap, 2x Inline connector, Extension cord, 25x Mounting clip
Packing	per set
Product code	Description
011559	LLS RGB Set, 5m + accessories [set]

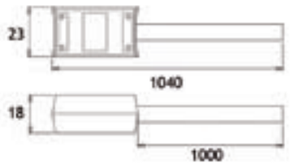
LED Light Strip RGB

10m set

Note	Complete set of 10m
Dimensions	L39xW39xH10cm (packing)
Weight (g)	3900g
Composition	10m LED Light Strip RGB, 1x RGB Controller, 1x Power supply 90W, 2x Connector set 1m, 2x End cap, 2x Inline connector, 1x Extension cord, 50x Mounting clip
Packing	per set
Product code	Description
011561	LLS RGB Set, 10m + accessories [set]

Connector set 1m

11x18mm



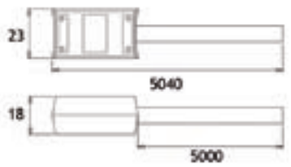
Dimensions	L40xW23xH18mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	cast, round, PVC 5x1²
Length cord (m)	1m
Colour	black
Weight (g)	100g
Packing	per piece, per 25, PVC-glue + end cap included
To be used with	RGB/Dim Controller

Product code
011393

Description
Connector set 11x18mm [pc]

Connector set 5m

11x18mm



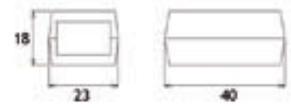
Dimensions	L40xW23xH18mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	cast, round, PVC 5x1²
Length cord (m)	5m
Colour	black
Weight (g)	440g
Packing	per piece, per 25, PVC glue + end cap included
To be used with	RGB/Dim Controller

Product code
011397

Description
Connector set 11x18mm, 5m [pc]

Inline connector

11x18mm



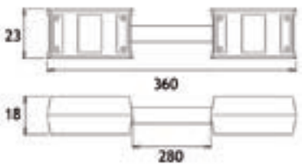
Dimensions	L40xW23xH18mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Weight (g)	10g
Packing	per piece, per 25, PVC-glue included

Product code
011425

Description
Inline connector 11x18mm [pc]

Extension cord

11x18mm



Dimensions	L40xW23xH18mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	cast, round, PVC 5x1²
Length cord (m)	26cm
Colour	black
Weight (g)	110g
Packing	per piece, per 25, PVC-glue included

Product code
011439

Description
Extension cord 11x18mm [pc]

End cap

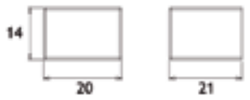
11x18mm

Dimensions
Material
Weight (g)
Packing
To be used with

L20xW21xH14mm
PVC
15g
per piece, per 25
PVC glue for waterproof connection

Product code
011415

Description
End cap 11x18mm [pc]



U-profile

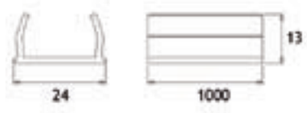
11x18mm

Note
Dimensions
Material
Length (m)
Weight (g)
Packing

Standard with double sided tape
L1,000xW24xH13mm
PVC (transparent)
1m
75g
per piece, per 25, per 100

Product code
011371

Description
U-profile 11x18mm, 1m [pc]



Mounting clip

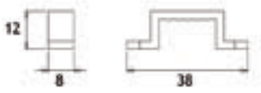
11x18mm

Dimensions
Material
Weight (g)
Packing

L38xW8xH12mm
PVC
150g/ per 100
per 25, per 100, glue included

Product code
011361

Description
Mounting clip 11x18mm [per 25]



Cast joint

6x12mm & 11x18mm

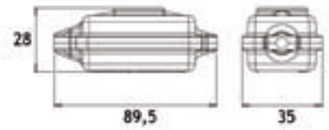
Dimensions
Material
Weight (g)
Composition

Packing
Degree of protection (IP)

L89.5xW35xH28mm
Polycarbonate
11.5g
cast joint with transparent self sealing moulds, cast resin and necessities
per pc
IP68

Product code
011533

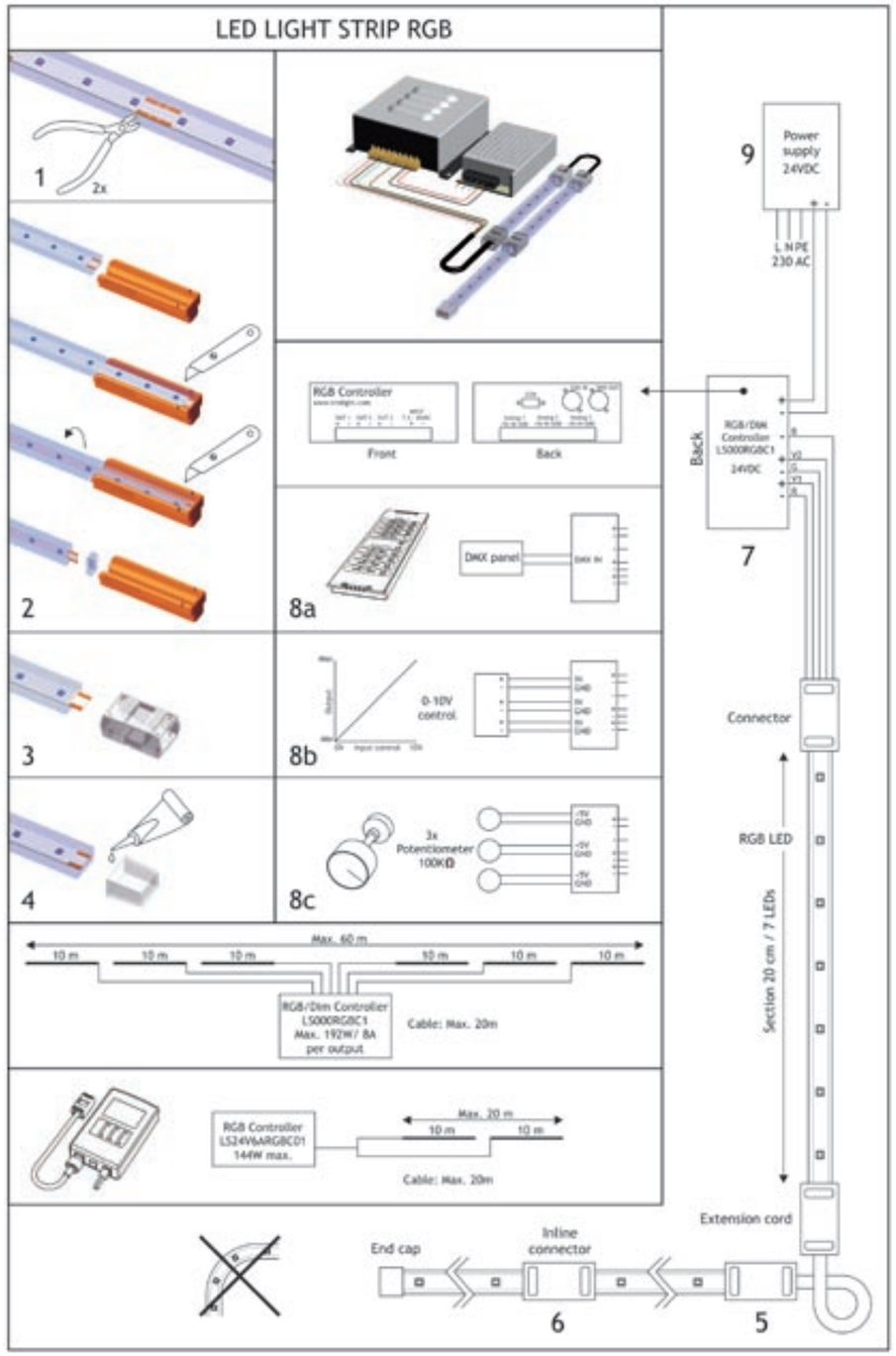
Description
Cast joint 6x12mm & 11x18mm [pc]



Connection scheme

Instructions for connection scheme

1. Cut the strip with a 25 mm strip-cutter at the indicated places (2x).
2. Lay the strip in the mould and use a knife to cut the PVC loose from the print to the V1 and V2 markings or up to the end of the lines. Remove the PVC without damaging the PCB.
3. Fill the connections with PVC-glue for a watertight connection.
4. Place the stripped strip in the connector with the PVC glue. In order to ensure a proper connection, make sure that the connections are aligned.
5. Use a connector to make a corner. The strip must not be bent over the side.
6. Use an in-line connector to connect two strips.
7. Place a RGB Controller between the supply and the LED Light Strip to enable the strip to be controlled. The + and - connections must be aligned.
8. When applying the RGB/ Dim Controller, there are three steering possibilities: A) DMX, B) 0-10V or C) with potentiometers.
9. Connect everything to a 24VDC source. This connection is polar sensitive! The + and - connections must be aligned. (the cable with text = +).



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RGB Ceiling fixtures - Schiphol airport

The Heijmerink Wagemakers design studio created this light object for the Schiphol Plaza (Amsterdam, The Netherlands) ceiling. The idea was to decoratively fill the ceiling with a 5m diametre fixture and to determine the atmosphere by changing the colour, depending on the season or the event. Thanks to the co-operation with Tri-O-Light, this project has turned out to be a winner. Every single ceiling fixture contains a Tri-O-Light 30m LED Light Strip RGB and RGB Controller. On top of that, made-to-measure DMX command consoles were developed, including 5 pre-sets containing the colour schemes as required by the customer. All in all, 22 ceiling fixtures have been fitted.

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TRIO light

Project illustration

RGB Ceiling fixtures - Schiphol airport

LED Light Strip RGB

Qbic Hotel (Amsterdam, The Netherlands) is a design hotel with a futuristic image. The heart of the hotel is the cubic shaped living area, also called the ‘Cubi’. The contours of the ‘Cubi’ are lit with LED Light Strip RGB. With the touch of a button, guests can create the atmosphere that fits the mood at that exact moment: ‘mellow yellow’, ‘red romance’ or ‘deep purple love’. Every Cubi holds a total of 12m LED Light Strip with RGB Controller and 150W supply.

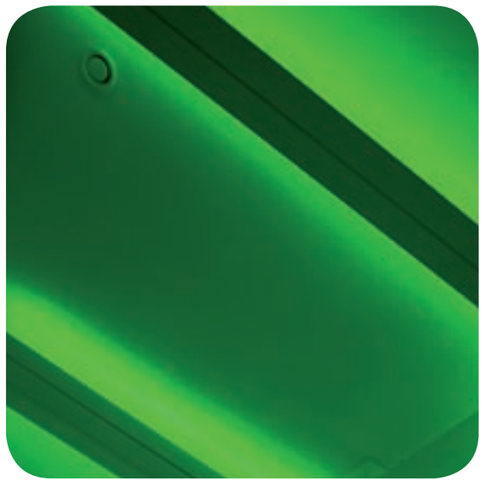
TRIO light

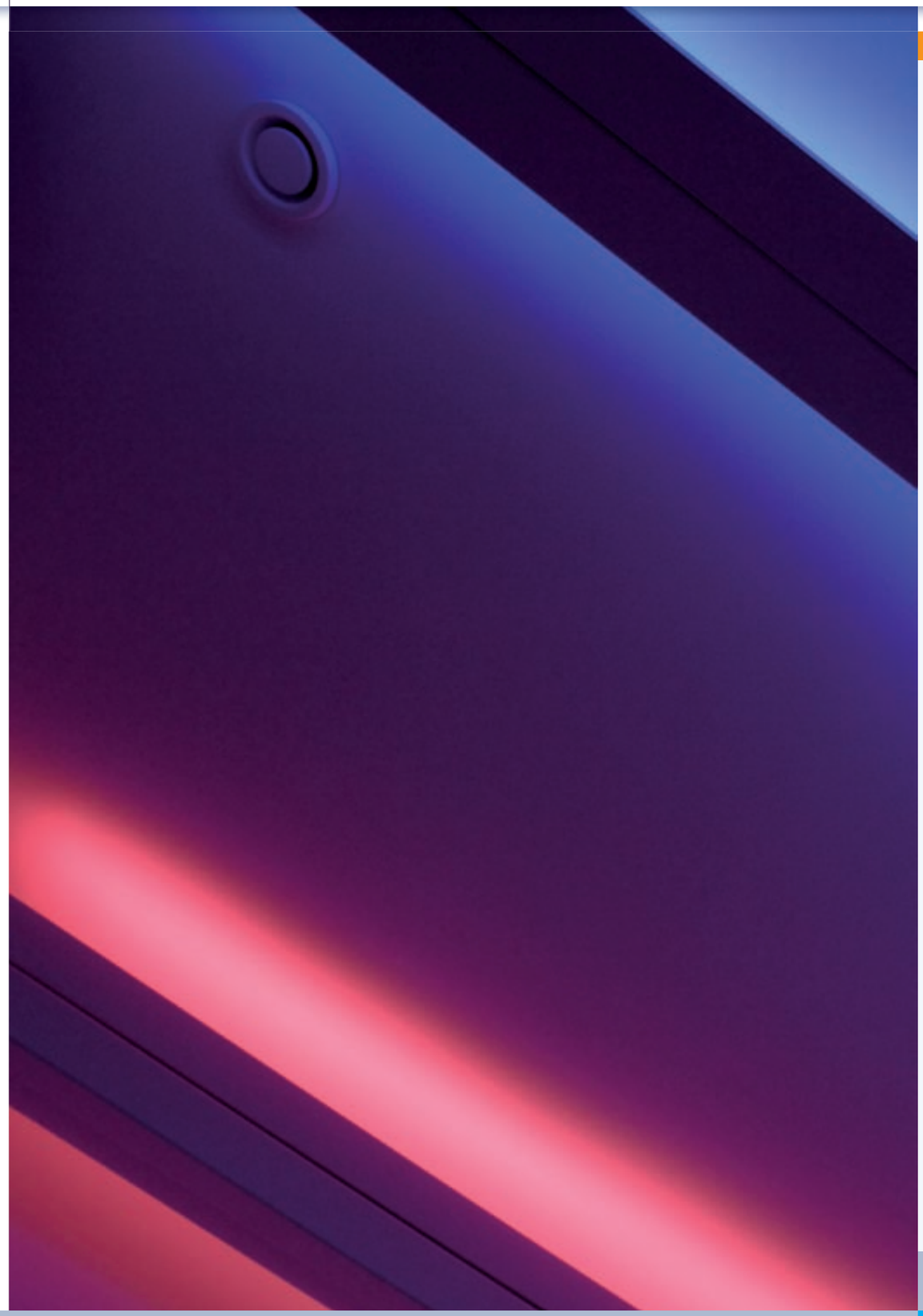
Project illustration

LED Light Strip RGB

LED Light Strip RGB

LED Light Strip RGB is very powerful and excellently suited for concealed lighting. The advantage of LED Light Strip RGB is the flexibility in the regulation of colour. With the touch of a button or with support from DMX, it is possible to create a floodlight in any chosen atmosphere. (Qbic Hotel, Amsterdam, The Netherlands)





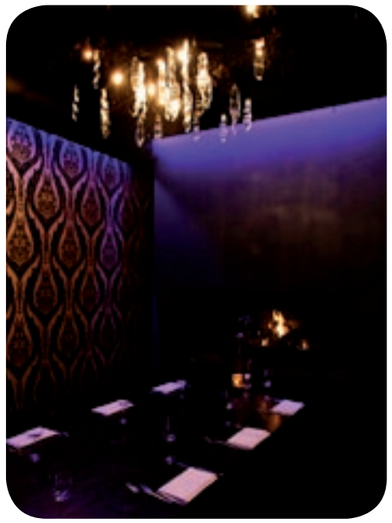
TRIO light

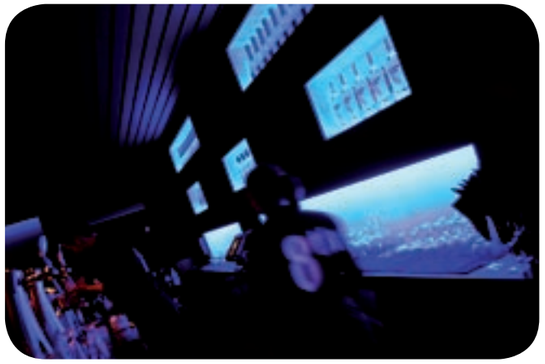
Project illustration

LED Light Strip RGB

LED Light Strip RGB

Restaurant 8th (Ede, The Netherlands) has been completely re-styled. Thanks to Tri-O-Light LED Light Strip RGB the restaurant has acquired a trendy look. The bar, the bottle rack and the frames of the seperate parts of the restaurant can change colour at the same time. With the touch of a button you can change the atmosphere in the whole of the restaurant, thanks to an RGB/Dim Controller from Tri-O-Light and a made to measure DMX command console from Crew. Everything is easily controlled from a central point.





TRIO light

Project illustration

LED Light Strip RGB

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Creative Lighting Concepts

LED Light Strip RGB

Villa Ruimzicht Hotel Restaurant is located in a park at the edge of the centre of the city of Doetinchem (The Netherlands). The grand and majestic building has been renovated to what it was and since September 2007 it has been used as a hotel. Every room has been fitted with Tri-O-Light MR16 RGB spots. By applying a combination of a master and slaves, you can simultaneously change the light colour. Remote control enables the guest to personally change the light and the colour in the room.

TRIO light

Project illustration

LED Light Strip RGB

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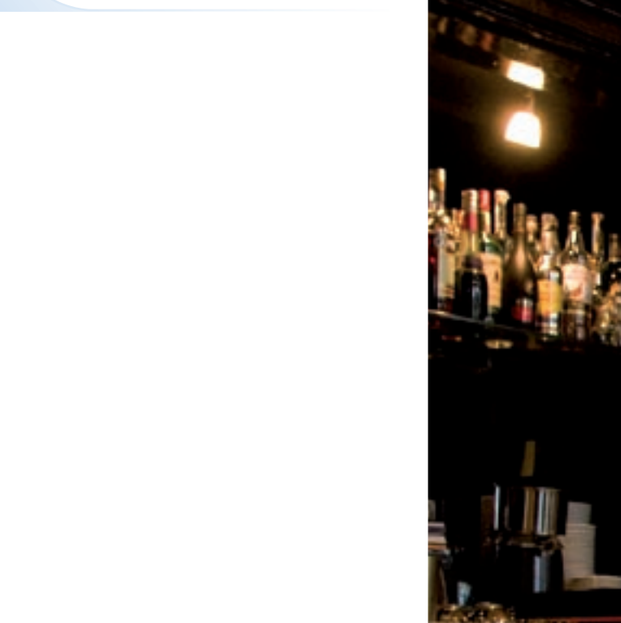
LED Light Strip RGB

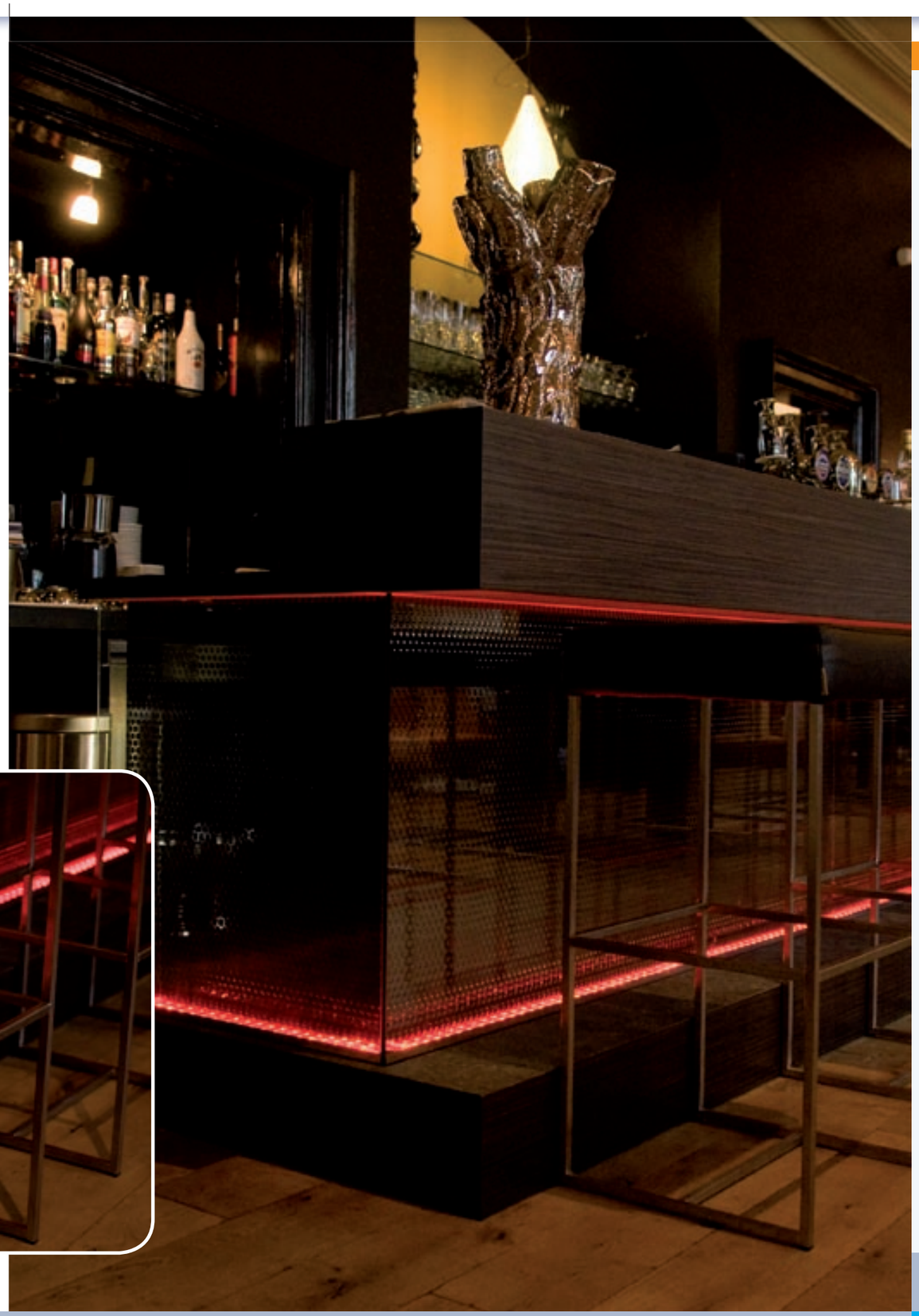
Villa Ruimzicht Hotel Restaurants, Doetinchem, The Netherlands



TRIO light

Project illustration

LED Light Strip RGB



RGB Controllers

Tri-O-Light has developed a pair of RGB Controllers to steer LED Light Strip RGB; the advanced RGB/ Dim Controller in combination with DMX-512 and the stand alone RGB Controller.

RGB / Dim Controller
This advanced 15 bits controller delivers a beautiful, even dim pattern. The controller has been developed for dim functions (LED Light Strip II) and RGB-applications (LED Light Strip RGB).

Controls
The RGB controller has 3 steered exits which can be charged with 8A (92W) at the most. The exits are controlled with a DMX512 panel or a very easy to use wall panel with remote control. The RGB Controller can also be used with an analogue 0-10V signal or with internal or external trim-pots.

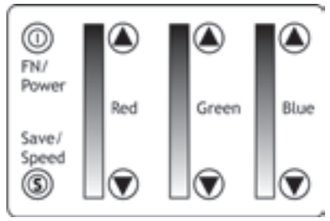
Software
The possibility to perform ´stand alone´ programs completes the controller. You can exchange these programs with the RGB controller with a PC in an upload- and download function. With the provided software, you can install all possible functions quickly and conveniently. The most important functions can be installed with both the software and the jumpers on the print.

Maximum connecting lengths
You can make one long line of 60m, because of the maximum connecting length of 10m of the LED Light Strip RGB and the maximum length of the extension cable of 20m. If we are not dealing with one long line, you can connect up to 80m (8 x 10m) to an RGB Controller; maximum 192W per exit. Make sure you do not exceed the maximum connecting and extension cable length (See connecting scheme).

RGB Controller
A simple control panel steers this RGB Controllers. Instructions of the control elements of the RGB Controller are written below. The RGB Controller can be charged with maximum 144W. In view of the maximum connecting length of 10m of the LED Light Strip RGB, you can connect two lines of 10m at the most.

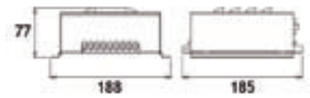
Control elements
(I) FN/ Power
1 sec. (I) = On, one more time (I) is go to the next modus (4x)
5 sec. (I) = Off
Mode 1 = Colour change according to memory
Mode 2 = Jumping colour change of 7 colours
Mode 3 = Flowing RGB colour change
Mode 4 = Installation modus

(S) Save/ Speed
(S) from mode 4 = save (save chosen colour to mode 1)
(S) from mode 1, 2, 3 = speed (control speed of colour change)
1x (S) speed is 5 sec., 2x (S) speed is 15 sec., 3x (S) speed is 30 sec.
Arrows upwards/ downwards = mixing colours from mode 4. (I) skip, (S) save.



RGB/Dim Controller

DMX/ analog

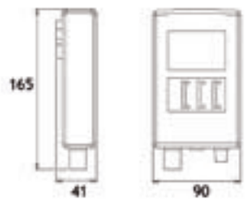


Note	RGB and/or dimfunctions
Dimensions	L185xW160xH70mm
Current (mA)	max. 8A each output
Input	7.5V-36V
Output	7.5V-36V
Control	by means of DMX512, analog 0~10V signal, internal or external potentiometers
Housing	aluminium
Connection	DMX IN, DMX OUT, RS232 COM connection for PC software, power supply
Included	software for up- and downloading stand alone programmes PC and RGB Controller settings with software
Facilities	
Weight (g)	860g
Packing	per piece
To be used with	LED Light Strip RGB/ LED Light Strip II
Degree of protection (IP)	IP20

Product code	Description
011147	RGB/ Dim Controller (voltage controlled) [pc]

RGB Controller

Stand alone

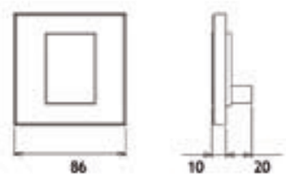


Dimensions	L143xW90xH41mm
Maximale connection length (m)	2x10m
Power (W)	max. 144W
Current (mA)	max. 6A
Input	24VDC (2m waterproof cable flat PVC 2x0.75²)
Control	by means of keypad on RGB controller (8 functions)
Housing	plastic, black
Included	connecting cable for LED Light Strip (with 5-pole female swivel-connection)
Length cord (m)	5m
Colour	black
Weight (g)	350g
Packing	per piece
To be used with	LED Light Strip RGB

Product code	Description
011291	RGB Controller 24V - 6A/144W [pc]

DMX 512

LED Wall panel



Dimensions	L86xW86xH45mm
Input	12VDC
Control	DMX 512
Housing	polycarbonate, white
Weight (g)	200g
Packing	per piece
To be used with	LED Light Strip RGB, RGB/Dim Controller
Working temperature (°C)	-10°C ~ +50°C
Degree of protection (IP)	IP20
Connection	RJ45
Included	Remote control (L86xW40xH5mm), DMX cable (1.5m), DMX Controller with connecting cable 230VAC (1m), CAT5E Patch cable (7.5m)
Installation dimensions	L70xW47xD80mm
Mounting	heart to heart 60mm

Product code	Description
011461	LED Wall panel RGB, DMX [pc]

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LED Light Strip RGB

In the entrance and halls of the Pantazis Royal conference centre in Argos, Greece, the ceiling frames are fitted with LED Light Strip RGB. They are all controlled with the advanced RGB/Dim Controllers of Tri-O-Light in combination with DMX. The resul is an easy to control atmosphere lighting with fascinating colour changes.

TRIO light

Project illustration

LED Light Strip RGB

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LED Light Strip RGB

Optician Akkerman International Eye Fashion in Rotterdam, (The Netherlands), has become a true design store, partly because of the RGB LED lighting. The Perspex wall, which shows the trends in glasses since 1900 until now, sits at 14cm in front of the rear wall. A total of 120m strip was mounted horizontally behind the perspex on the rear wall by means of mounting clips. The result is a diffuse wall with fascinating colour changes, which is user-friendly and controlled by means of a DMX-panel.

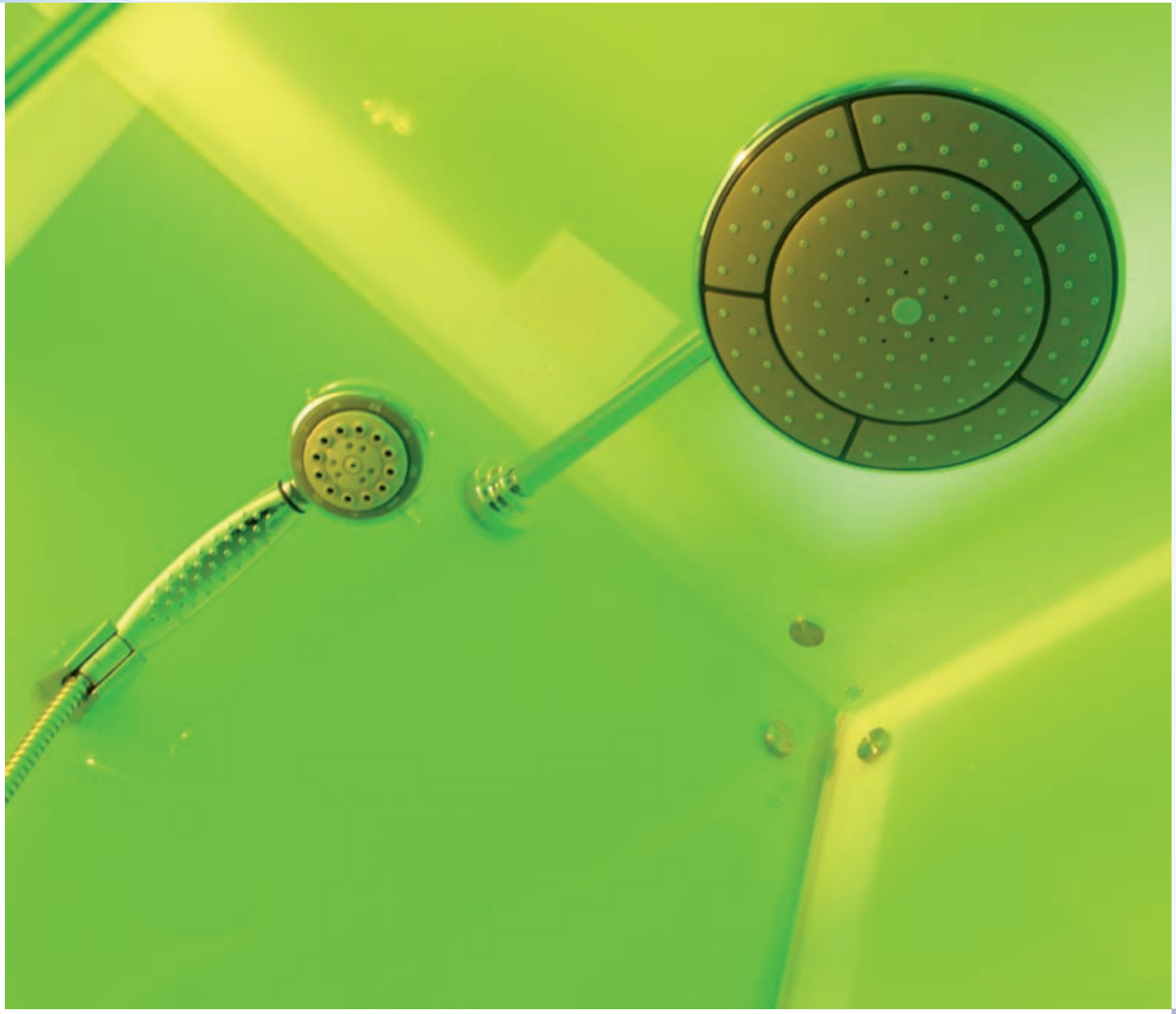
www.triolight.com Creative Lighting Concepts

TRIO light

Project illustration

LED Light Strip RGB

Qbic Hotel, Amsterdam, The Netherlands



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48

Project illustration

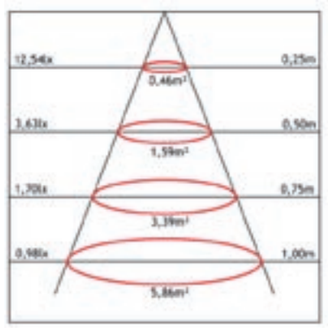
LED Light Strip RGB

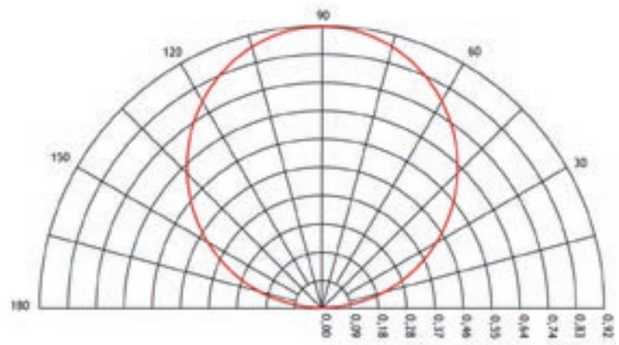
Amber

LED Light Strip II

LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per metre
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC, RoHs compliant
LED colour(s)	Amber
Wavelength (nm)	599.09nm
Luminous flux (lm)	5.77 (20cm)
Luminous intensity (cd)	0.92cd
Illuminance (lx)	0.98 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supplies, accessoiries, dimmers and aluminium profiles

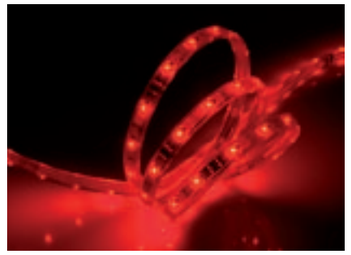
Product code	Description
011465	LED Light Strip II, 24VDC 6x12mm, amber [m]





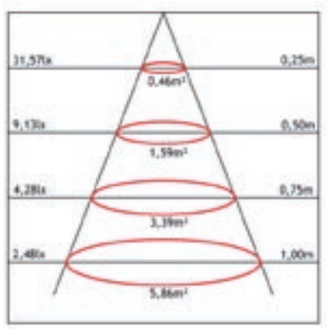
LED Light Strip II

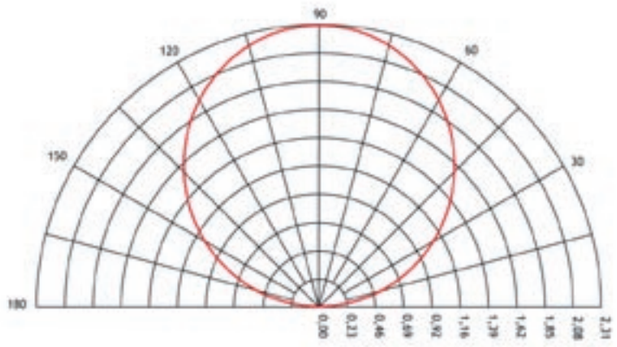
Red



LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per meter
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC with RoHs compliance
LED colour(s)	Red
Wavelength (nm)	617.11nm
Luminous flux (lm)	14.52 (20cm)
Luminous intensity (cd)	2.31cd
Illuminance (lx)	2.48 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supplies, accessories, dimmers and aluminium profiles

Product code	Description
011477	LED Light Strip II, 24VDC 6x12mm, red [m]



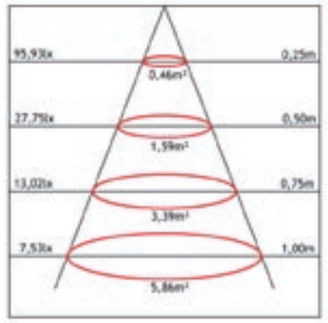


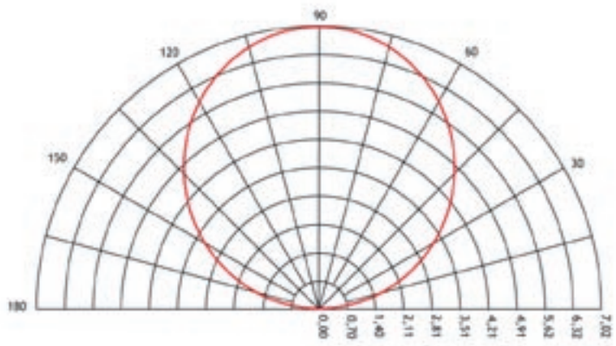
Green

LED Light Strip II

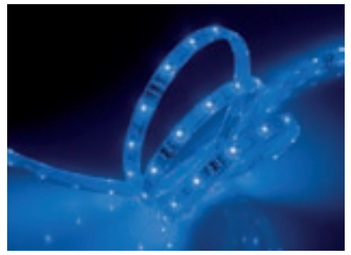
LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per meter
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC with RoHs compliance
LED colour(s)	Green
Wavelength (nm)	533.31nm
Luminous flux (lm)	44.13 (20cm)
Luminous intensity (cd)	7.02cd
Illuminance (lx)	7.53 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supplies, accessories, dimmers and aluminium profiles

Product code	Description
011473	LED Light Strip II, 24VDC 6x12mm, green [m]



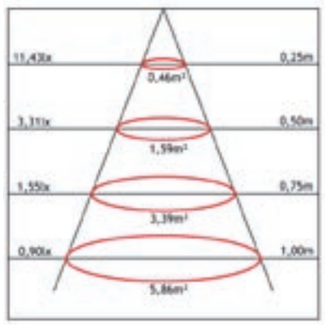


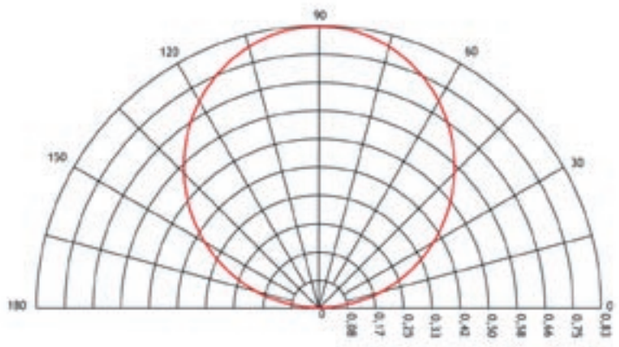
LED Light Strip II — *Blue*



LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per meter
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC with RoHs compliance
LED colour(s)	Blue
Wavelength (nm)	460.2nm
Luminous flux (lm)	5.26 (20cm)
Luminous intensity (cd)	0.83cd
Illuminance (lx)	0.90 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supplies, accessories, dimmers and aluminium profiles

Product code	Description
011469	LED Light Strip II, 24VDC 6x12mm, blue [m]

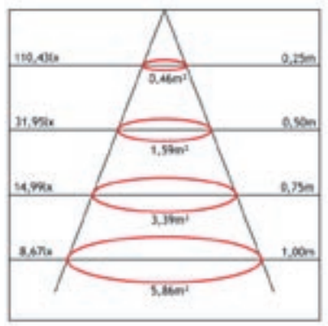


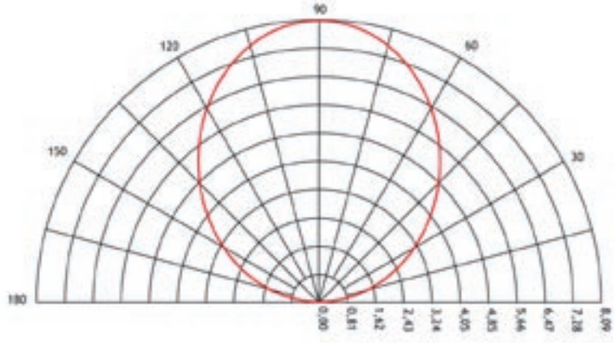


White — LED Light Strip II

LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per meter
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	7 per section/ 35 per meter
LED colour(s)	White
Luminous flux (lm)	50.8 (20cm)
Luminous intensity (cd)	8.09cd
Illuminance (lx)	8.67 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supplies, accessories, dimmers and aluminium profiles
Weight (g)	100g/m

Product code	Description
011481	LED Light Strip II, 24VDC 6x12mm, white [m]

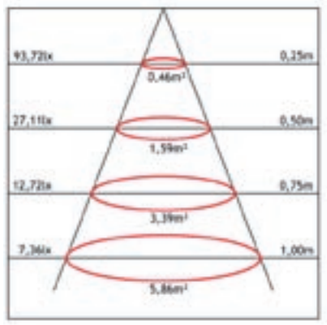


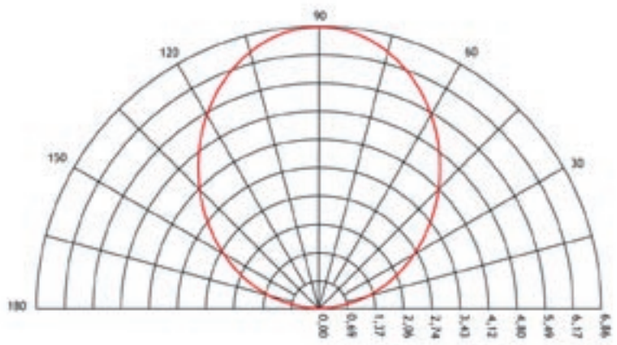


LED Light Strip II — *Warm white*

LED	SMD (Surface Mounted LED)
Lifetime	> 20,000 hours
Dimensions	W12xH6mm
Degree of protection (IP)	IP66
Section length (cm)	20cm
Number of LEDs	7 per section/ 35 per meter
Maximale connection length (m)	20m
Spool length (m)	60m
Bend radius (mm)	>150mm
Material	UV/IR protected PVC with RoHs compliance
LED colour(s)	Warm white
Luminous flux (lm)	43.11 (20cm)
Luminous intensity (cd)	6.86cd
Illuminance (lx)	7.36 lux (1m)
Radiation angle (°)	105°
Voltage (V)	24VDC
Power (W)	3.6W/m
Dimmable	yes
Ambient temperature (°C)	- 20°C ~ + 40°C
LED spacing (mm)	28.5mm
Weight (g)	100g/m
Packing	per m, per spool (60m), no accessories
To be used with	24VDC power supply, accessories, dimmers and aluminium profiles

Product code	Description
011487	LED Light Strip II, 24VDC 6x12mm, warm white [m]





LED Light Strip II — Demo-set 1m

Note	plug- & play
Dimensions	L26xW26xH7cm (packing)
LED colour(s)	amber, red, green, blue, white or warm white
Weight (g)	1100g
Composition	1m LED Light Strip II, 1x Power plug, 1x Connector set 1m, 1x End cap, 1x Inline connector, 1x Extension cord, 1x Catalogue
Packing	per set

Product code	Description
011491	LLS II Demo-set, 1m amber, connector set, power plug [set]
011519	LLS II Demo-set, 1m red, connector set, power plug [set]
011493	LLS II Demo-set, 1m blue, connector set, power plug [set]
011515	LLS II Demo-set, 1m green, connector set, power plug [set]
011523	LLS II Demo-set, 1m white, connector set, power plug [set]
011525	LLS II Demo-set, 1m warm white, connector set, power plug [set]

LED Light Strip II + RGB — Demo case

Note	Demo case complete with insert LED Light Strip II & RGB
Dimensions	L455xW345xH160mm
Material	Aluminium
Included	Connection cable (230V)
Colour	Alu
Facilities	Should you already have the case it is possible to just order the insert.
Weight (g)	6500g
Composition	Case + Insert with 6x30cm LED Light Strip II in amber, red, green, blue, white and warm white. 1x30cm LED Light Strip RGB, 1x RGB Controller.
Packing	per pc

Product code	Description
010607	Demo case LED Light Strip, 440x330mm [pc]
010709	Insert LED Light Strip for demo case 440x330mm [pc]

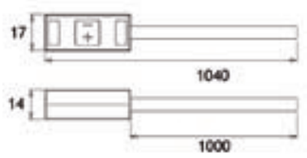
Connector set 1m

6x12mm

Dimensions	L40xW17xH14mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	round, PVC 2x1²
Length cord (m)	1m
Colour	black
Weight (g)	52g
Packing	per piece, per 25, PVC glue + end cap included

Product code
011495

Description
Connector set II 6x12mm, 1m [pc]



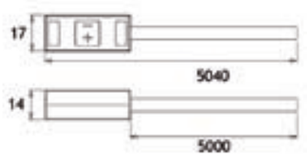
Connector set 5m

6x12mm

Dimensions	L40xW17xH14mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	round, PVC 2x1²
Length cord (m)	5m
Colour	black
Weight (g)	220g
Packing	per pc, per 25, PVC glue + end cap included

Product code
011499

Description
Connector set II 6x12mm, 5m [pc]



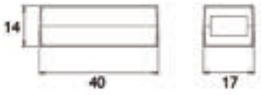
Inline connector

6x12mm

Dimensions	L40xW17xH14mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Weight (g)	8g
Packing	per piece, per 25, PVC glue included

Product code
011507

Description
Inline connector II 6x12mm [pc]



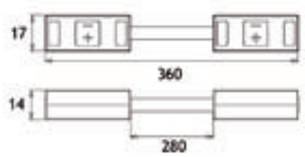
Extension cord

6x12mm

Dimensions	L40xW17xH14mm
Degree of protection (IP)	IP55
Material	Polycarbonate
Cord	cast, round, PVC 2x1²
Length cord (m)	26cm
Colour	black
Weight (g)	38g
Packing	per piece, per 25, PVC glue included

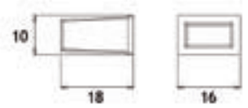
Product code
011511

Description
Extension cord II 6x12mm [pc]



End cap

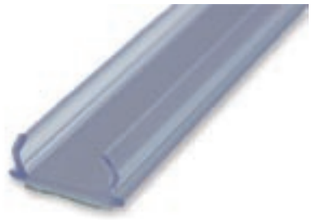
6x12mm



Dimensions	L18xW16xH10mm
Material	PVC (transparant)
Weight (g)	3g
Packing	per piece, per 25
To be used with	PVC glue for waterproof connection
Product code	
011503	
Description	
End cap II 6x12mm [pc]	

U-profile

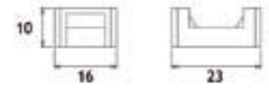
6x12mm



Note	Standard with double sided tape
Dimensions	L1000xW18xH7mm
Material	PVC (transparent)
Length (m)	1m
Weight (g)	50g
Packing	per piece, per 25, per 100
Product code	
011369	
Description	
U-profile 6x12mm, 1m [pc]	

Saddle

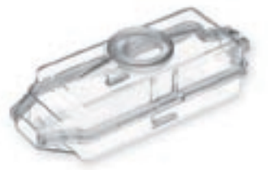
6x12mm

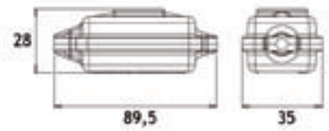


Dimensions	L23xW16xH10mm
Material	PVC
Weight (g)	180g/ 100 pieces
Packing	per 100
Product code	
011375	
Description	
Saddle 6x12mm [per 100]	

Cast joint

6x12mm & 11x18mm



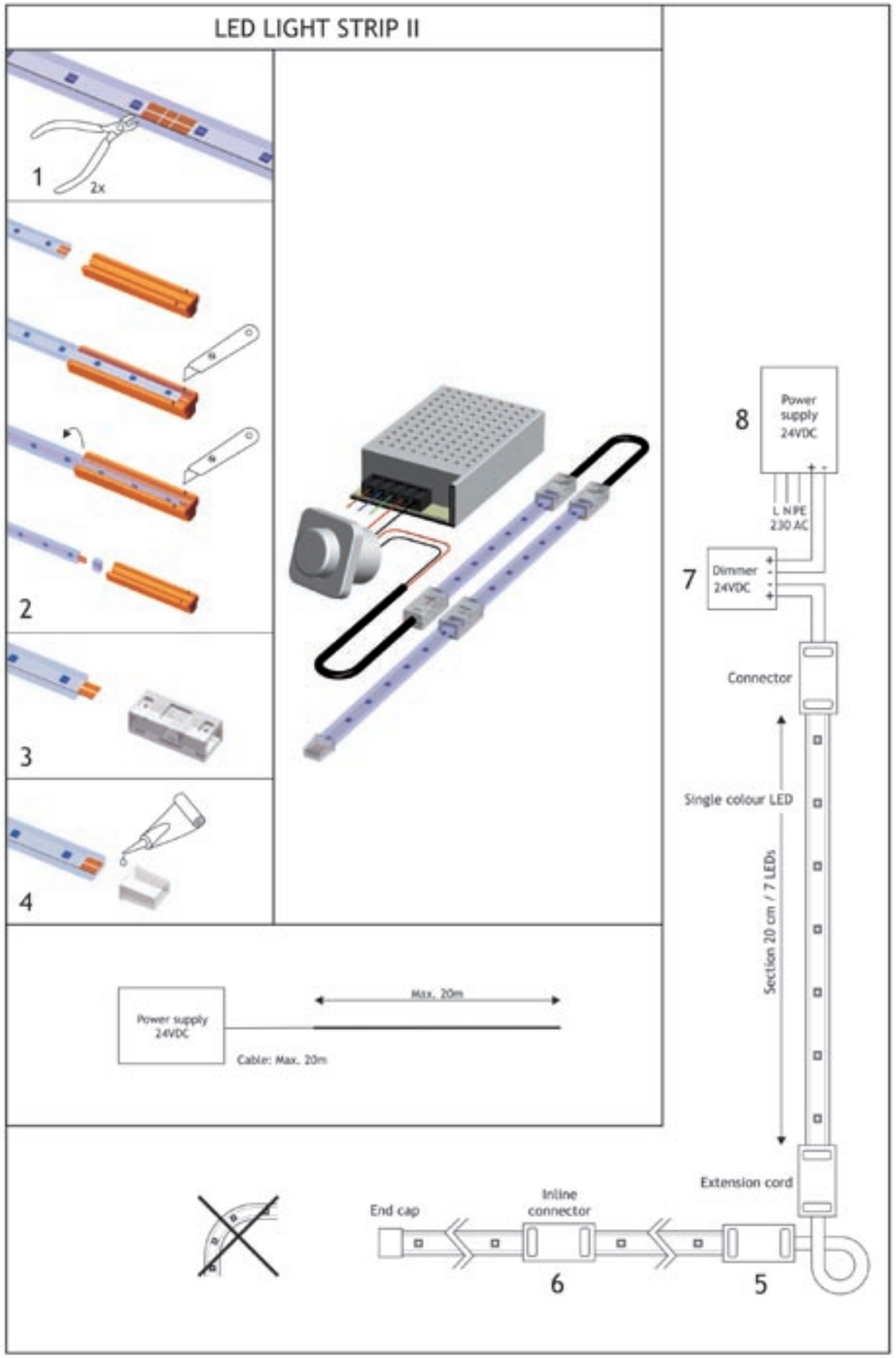


Dimensions	L89.5xW35xH28mm
Material	Polycarbonate
Weight (g)	11.5g
Composition	cast joint with transparent self sealing moulds, cast resin and necessities
Packing	per piece
Degree of protection (IP)	IP68
Product code	
011533	
Description	
Cast joint 6x12mm & 11x18mm [pc]	

Connection scheme

Instructions for connection

1. Cut the strip at the places indicated with a 25 mm strip-cutter (2x).
2. Place the strip in the mould and use a break-knife to cut the PVC loose from the print up to the + and - markings or up to the end of the lines. Remove the PVC without damaging the PCB.
3. Fill the connections with the PVC-kit for a watertight connection.
4. Place the stripped strip in the connector using PVC glue. Make sure the connections are aligned for a proper connection.
5. Use a connector to make a corner. The strip must not be bent over the side.
6. Use an in-line connector to connect two strips.
7. Place a 24VDC dimmer between the source and the LED Light Strip, to enable the strip to be dimmed. The + and - connections must be aligned.



LED Light Strip - blue

TRIO light

Project illustration

LED Light Strip - blue

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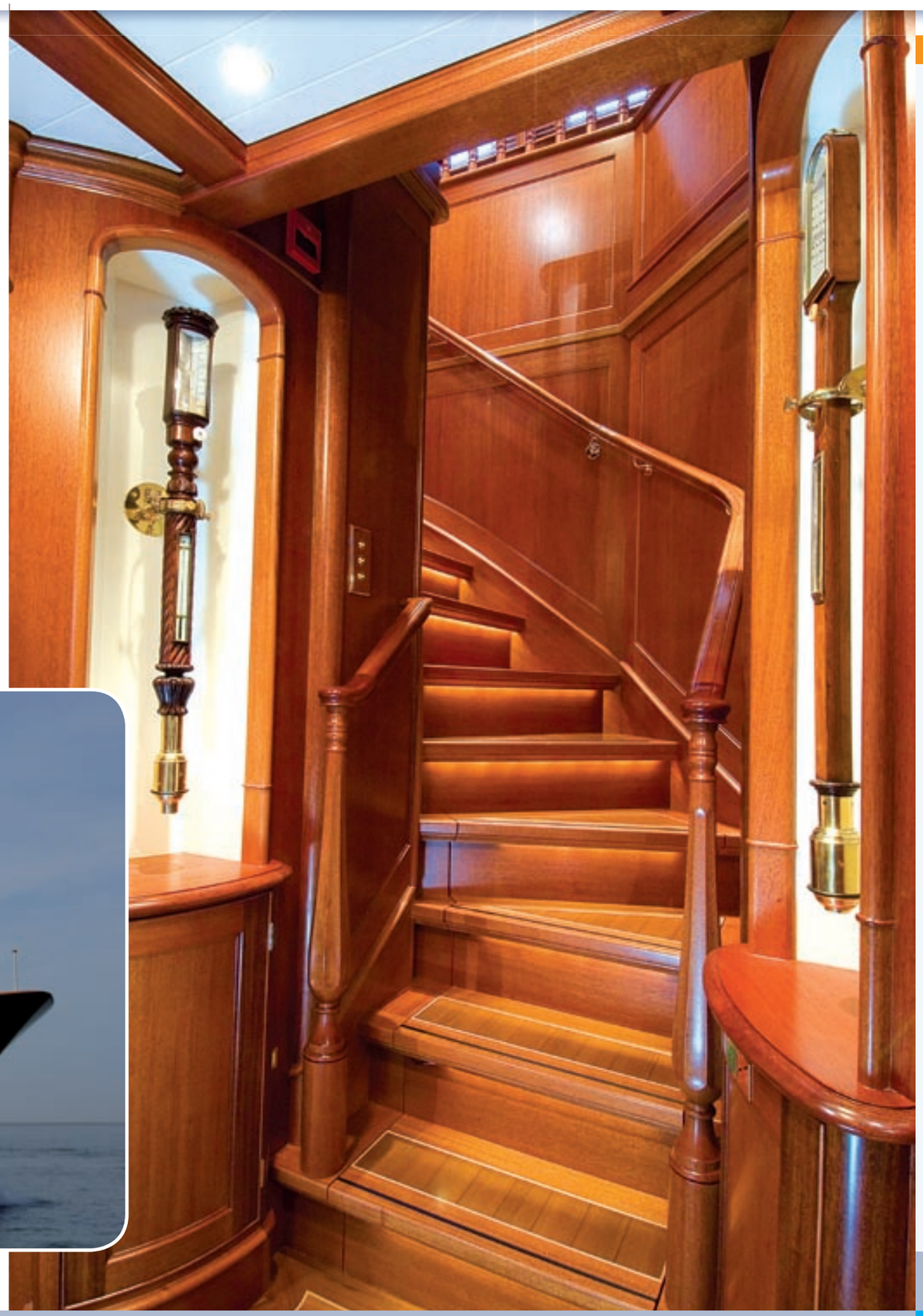
LED Light Strip - warm white

In the interior of the 36m long Super Yacht Arcadia, built by Royal Huisman Shipyard BV, (The Netherlands) and designed by interior stylist Dick Young Design, a warm white coloured LED Light Strip was used. The LED Light Strip is used as indirect ambient lighting underneath the steps in the 'Salon', as skirtingboard lighting in the back of the 'Dining' and in the several glass door cupboards of the 'Guest Cabin'. The set-up is dimmable.



TRIO light

Project illustration

LED Light Strip - warm white

LED Light Strip - warm white

In the interior of super yacht Gliss, designed by interior stylist Dick Young Design and built by Royal Huisman Shipyard BV, (The Netherlands) the warm white coloured LED Light Strip was used. The LED Light Strip is used as an indirect ambient lighting underneath the steps, as skirtingboard lighting and as indirect lighting in the several cupboards. LED Light Strip is also used in superyacht Antares.

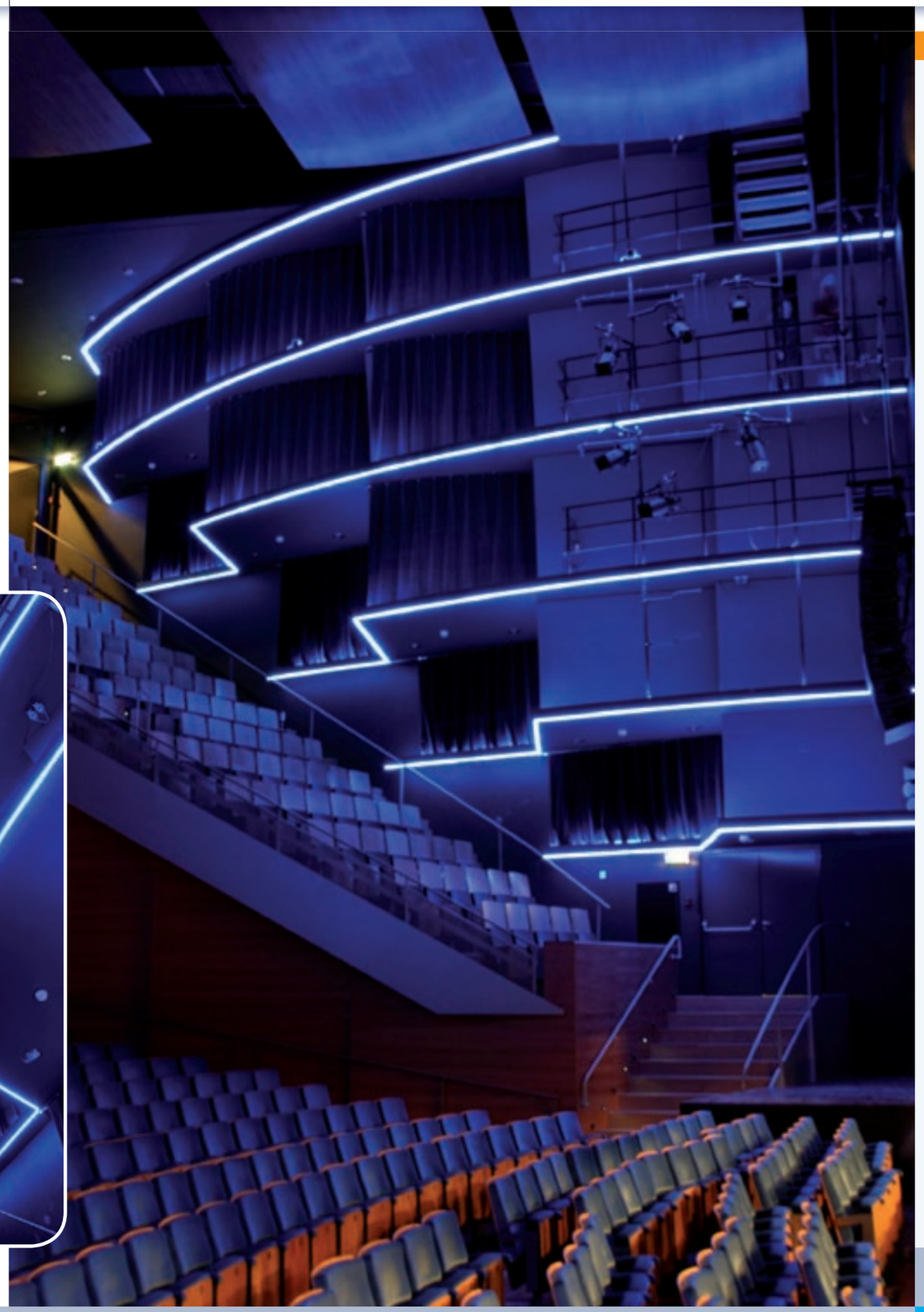
TRIO light

Project illustration

LED Light Strip - warm white

LED Light Strip - blue

The Orpheus theatre in Apeldoorn, The Netherlands, used the blue LED Light Strip on the sides of the balconies and underneath the curtains. The lighting was fitted using U-profiles. The blue illumination accentuates the contours and different levels of the balconies and illuminates the curtains with a beautiful blue floodlight. The set-up is completely dimmable.



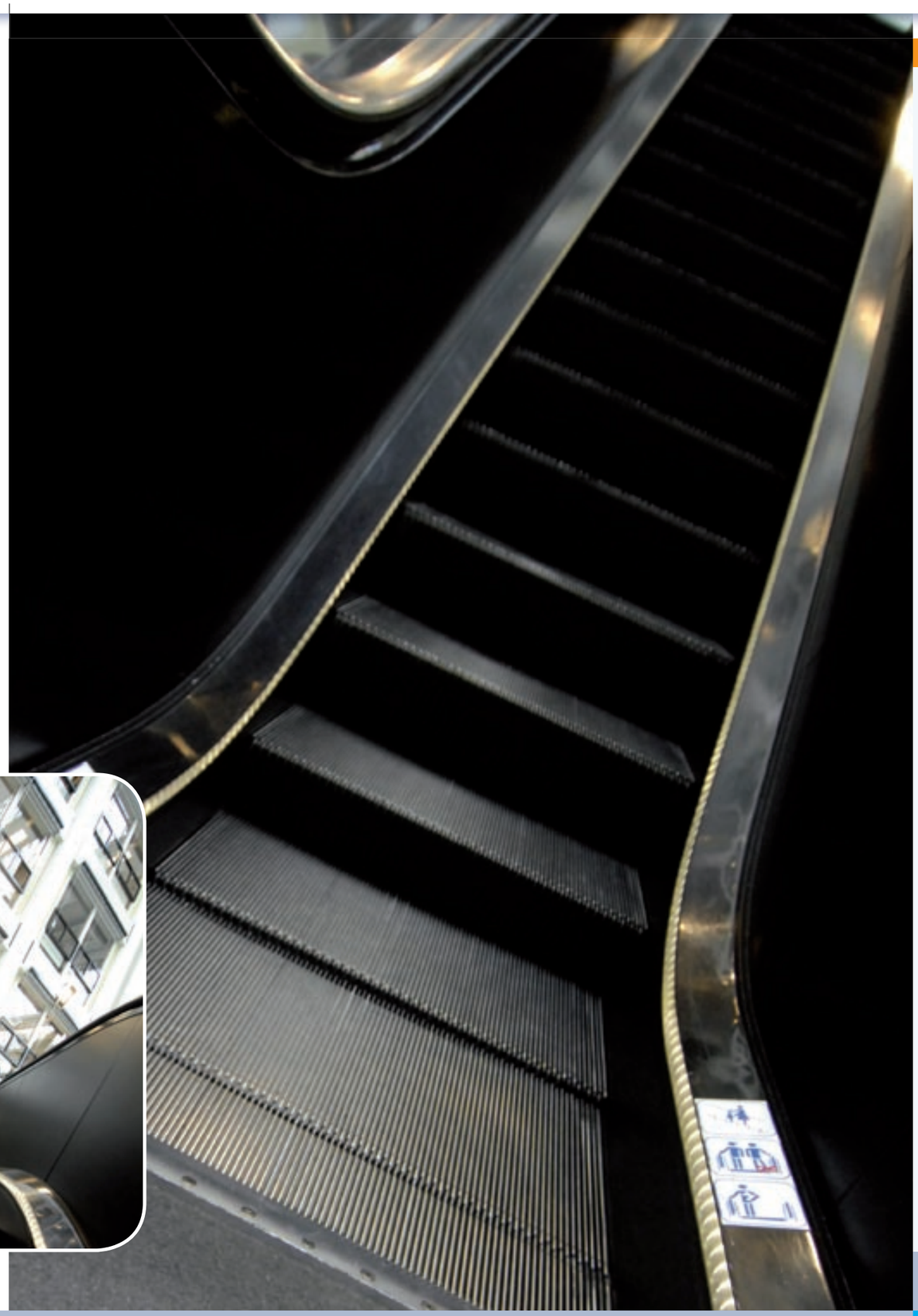
TRIO light

Project illustration

LED Light Strip - blue

LED Light Strip - warm white

The VROM ministry in The Hague, The Netherlands, was decorated in 2005 with a new lighting design. To preserve energy, the escalators have been fitted with a warm white LED Light Strip. Energy costs were reduced by more than 90%. The lighting can be used as backup lighting, route marking or as emergency exit lighting. But it was mainly used aesthetically in this project and meant to give the escalators a better look.



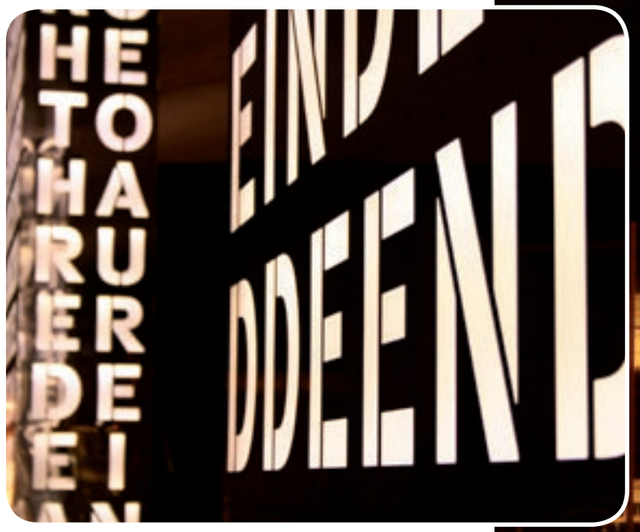
TRIO light

Project illustration

LED Light Strip - warm white

LED Light Strip - warm white

The artwork “Zaan Zang”, designed by Marc Ruygrok is beneath the A8, a highway that runs right through the old city centre of Koog aan de Zaan, the Netherlands. The concrete pillars are lined with stainless steel. Arie van den Berg poems, inspired by Koog aan de Zaan, are cut into it. Dynamicom Lichtarchitectuur (Lichting Architecture) created a light design to light the text 24 hours a day. In the space between the concrete and the stainless steel, a warm white colored Led Light Strip has been used.



TRIO light

Project illustration

LED Light Strip - warm white

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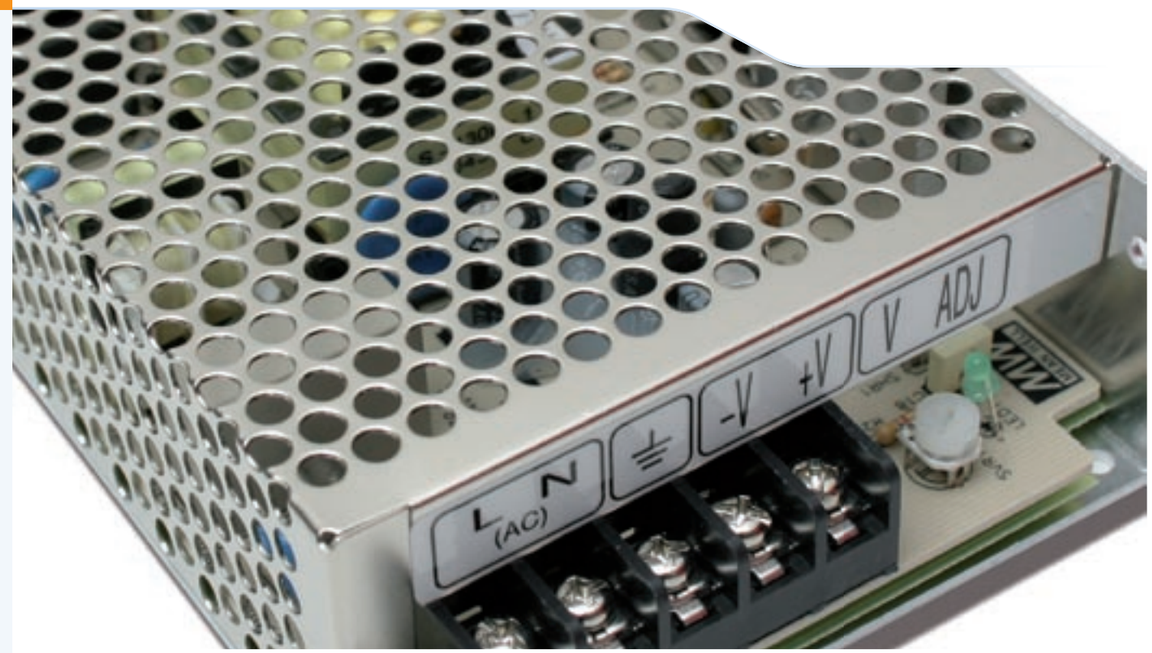
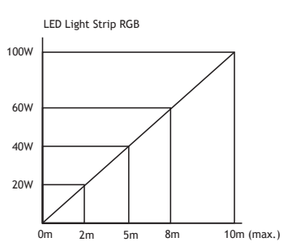
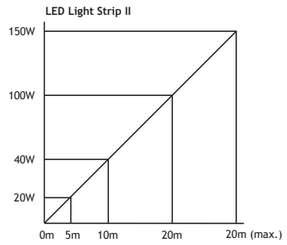


Power supplies 24VDC

Tri-O-Light has selected a few stabilized 24VDC power supplies and transformers. These power supplies meet the highest standards and are excellent to use in combination with the LED Light Strip. When the power supplies don't mention a protection category they must be built in a cupboard. Take care of proper ventilation in that case. To minimize loss of voltage, make sure the cable is not longer than 20m.

Calculation
You can select the right power supply by multiplying the number of metres with the Watt per meter. The maximum connection length must not be exceeded. For optimal use, add an extra 5-10% power.
Example: 10m LED Light Strip RGB = 10m x 7,2W/m = 72W + 5% is 75.6 => 100W power supply.



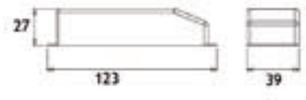


25W

Transformer 24VDC

Dimensions	L123xW39xH27mm
Power (W)	25W
Input	230VAC
Mounting	Screw fasteners
Weight (g)	100g
Packing	per piece
To be used with	LED Light Strip 24VDC
Efficiency (%)	90%
Degree of protection (IP)	IP20

Product code	Description
011305	Transformer 24VDC 25W [pc]



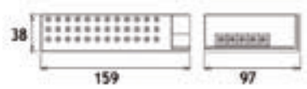
40W

Power supply 24VDC

Dimensions	L129xW98xH38mm
Power (W)	40W
Input	85~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	78.0%
Mounting	screw fasteners
Weight (g)	340g
Packing	per pc
To be used with	LED Light Strip 24VDC

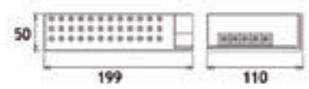
Product code	Description
011309	Power supply 24VDC 40W [pc]

Power supply 24VDC

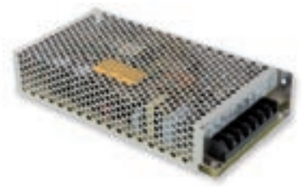


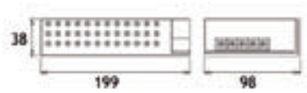
	60W
Dimensions	L159xW97xH38mm
Power (W)	60W
Input	85~264VAC
Output	24VDC, 10% Adjustable
Efficiency (%)	79.0%
Mounting	screw fasteners
Weight (g)	440g
Packing	per piece
To be used with	LED Light Strip 24VDC
Product code	011313
Description	Power supply 24VDC 60W [pc]

	150W
Dimensions	L199xW110xH50mm
Power (W)	150W
Input	85~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	85.0%
Mounting	screw fasteners
Weight (g)	740g
Packing	per piece
To be used with	LED Light Strip 24VDC
Product code	011327
Description	Power supply 24VDC 150W [pc]



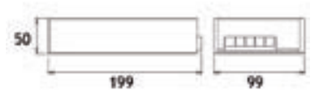
Power supply 24VDC





	100W
Dimensions	L199xW98xH38mm
Power (W)	100W
Input	85~132/180~264VAC
Output	24VDC, 10% Adjustable
Efficiency (%)	83.0%
Mounting	screw fasteners
Weight (g)	580g
Packing	per piece
To be used with	LED Light Strip 24VDC
Product code	011319
Description	Power supply 24VDC 100W [pc]

	200W
Dimensions	L199xW99xH50mm
Power (W)	200W
Input	85~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	83.0%
Mounting	screw fasteners
Weight (g)	780g
Packing	pro Stück
To be used with	LED Light Strip 24VDC
Protection	forced cooling
Product code	011331
Description	Power supply 24VDC 200W [pc]



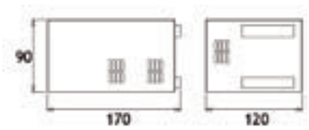
Power supply 24VDC

	320W
Dimensions	L30xW114xH50mm
Power (W)	320W
Input	85~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	87.0%
Mounting	screw fasteners
Weight (g)	1002g
Packing	per piece
To be used with	LED Light Strip 24VDC
Protection	forced cooling
Product code	011335
Description	Power supply 24VDC 320W [pc]

Power supply 24VDC

	30W
Dimensions	L144xW46xH30mm
Degree of protection (IP)	IP64
Power (W)	30W
Input	90~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	85.0%
Weight (g)	220g
Packing	per piece
To be used with	LED Light Strip 24VDC
Protection	forced cooling
Product code	011307
Description	Power supply 24VDC 30W IP64 [pc]

Power supply 24VDC



	500W
Dimensions	L170xW120xH90mm
Power (W)	500W
Input	85~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	85.5%
Mounting	screw fasteners
Weight (g)	1750g
Packing	per piece
To be used with	LED Light Strip 24VDC
Protection	enforced cooling
Product code	011339
Description	Power supply 24VDC 500W [pc]

Power supply 24VDC

	60W
Dimensions	L181xW61.5xH35mm
Degree of protection (IP)	IP64
Power (W)	60W
Input	90~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	86.5%
Weight (g)	220g
Packing	per piece
To be used with	LED Light Strip 24VDC
Protection	forced cooling
Product code	011315
Description	Power supply 24VDC 60W IP64 [pc]

Power supply 24VDC

100W

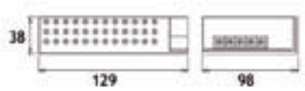
Dimensions	L195xW70xH35mm
Degree of protection (IP)	IP64
Power (W)	100W
Input	90~264VAC
Output	24VDC, 10% adjustable
Efficiency (%)	86.5%
Weight (g)	520g
Packing	per piece
To be used with	LED Light Strip 24VDC
Protection	forced cooling

Product code
011321

Description
Power supply 24VDC 100W IP64 [pc]

DC/DC Convertor 24VDC

50W



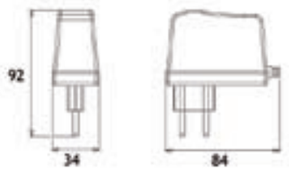
Dimensions	L129xW98xH38mm
Power (W)	50W
Input	19~36V
Output	24V, 0~2.1A
Efficiency (%)	80%
Cooling	No
Application	Situations without stabilised power supply
Mounting	Screw fasteners
Weight (g)	480g
Packing	per piece
To be used with	LED Light Strip 24VDC

Product code
011293

Description
DC/DC Convertor 24V 50W [pc]

Power plug 24VDC

20W



Dimensions	L84xW34xH92mm
Power (W)	19.2W
Current (mA)	max. 0.8A
Input	90VAC-264VAC
Output	24VDC
Efficiency (%)	70%
Protection	overvoltage and short circuit
Cooling	no
Working temperature (°C)	0-40°C
Storage temperature (°C)	- 20°C ~ + 85°C
Housing	plastic black
Cord	plug (230VAC) with 1m connection cable, PVC, 2x0.75²
Weight (g)	160g
Packing	per piece
To be used with	LED Light Strip 24VDC

Product code
011303

Description
Power transformer 24VDC 20W [pc]

Power supply 24VDC

50W

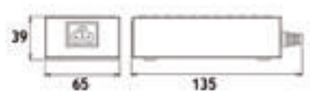
Dimensions	L121xW61xH33mm
Power (W)	50W
Current (mA)	max. 2A
Input	90VAC-264VAC
Output	24VDC
Efficiency (%)	85%
Protection	overvoltage and short circuit
Working temperature (°C)	0-35°C
Storage temperature (°C)	- 20°C ~ + 85°C
Housing	Plastic black
Cord	2m connection cable with plug (230VAC)
Weight (g)	400g
Packing	per piece
To be used with	LED Light Strip 24VDC

Product code
011311

Description
Power supply 24VDC 50W + 2m connection cable [pc]

Power supply 24VDC — 90W

Dimensions	L135xW65xH39mm
Power (W)	90W
Current (mA)	max. 3.75A
Input	90VAC-264VAC
Output	24VDC
Efficiency (%)	84%
Protection	overvoltage and short circuit
Working temperature (°C)	0-35°C
Storage temperature (°C)	- 20°C ~ + 85°C
Housing	plastic black
Cord	2m connection cable with plug (230VAC)
Weight (g)	480g
Packing	per piece
To be used with	LED Light Strip 24VDC

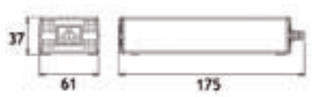


Product code
011317

Description
Power supply 24VDC 90W + 2m connection cable [pc]

Power supply 24VDC — 150W

Dimensions	L173xW60xH38mm
Power (W)	150W
Current (mA)	max. 6.25A
Input	90VAC-264VAC
Output	24VDC
Efficiency (%)	80%
Protection	overvoltage and short circuit
Working temperature (°C)	0-40°C
Storage temperature (°C)	- 20°C ~ + 85°C
Housing	plastic black
Cord	2m connection cable with plug (230VAC)
Weight (g)	500g
Packing	per piece
To be used with	LED Light Strip 24VDC



Product code
011329

Description
Power supply 24VDC 150W + 2m connection cable [pc]

Dimmers

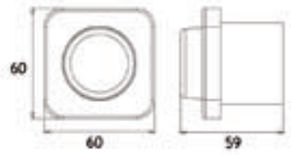
LED Light Strip can be dimmed. It is, however, not possible to use conventional dimmers on the LED Light Strip. In the chapter ‘Dimmers’ you will find a number of suitable dimmers. You can also use the RGB/Dim Controller. The dimmer (24VDC) is placed between the source and the LED Light Strip (see connection scheme).

12-24VDC

Dimmer built in/ on

Dimensions	L60xW60xH35mm
Power (W)	max. 280W at 24V
Input	10~30VDC
Output	12VDC or 24VDC
Efficiency (%)	96-99%
Protection	overload, short circuit and overheat
Dimmable	10-100%
Housing	plastic white
Back box	plastic white L59xW59xH41mm
Installation dimensions	Ø46mm (building in)
Weight (g)	80g
Packing	per piece
To be used with	LED Light Strip II

Product code	Description
011455	Dimmer built-in/on, 12-24VDC, white [pc]

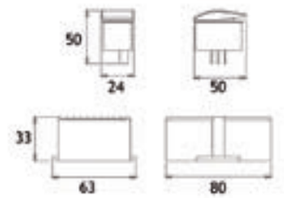


12-24VDC

Digital dimmer

Dimensions	L80xW55xH33mm, push button L35xW20xH37mm
Degree of protection (IP)	IP68
Current (mA)	max. 10A
Input	10~30VDC
Output	12VDC or 24VDC
Protection	overload, short circuit and overheat
Dimmable	0-100%, by means of pulse
Housing	aluminium
Included	plastic grey push button
Weight (g)	220g
Packing	per piece
To be used with	LED Light Strip II

Product code	Description
011457	Digital dimmer with push button, 10A, 10~32VDC [pc]



LED Light Strip - green

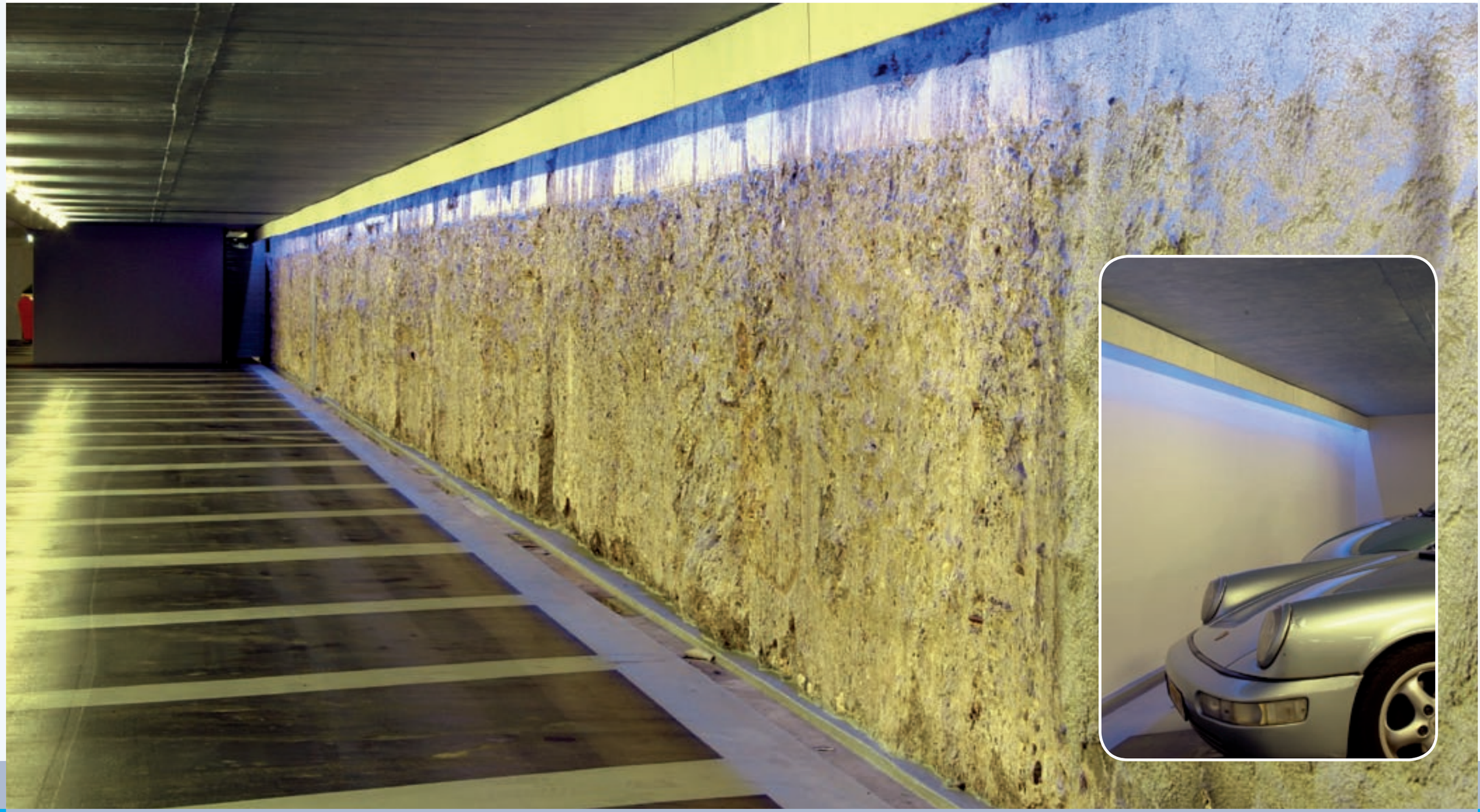
In the cabin of the yacht ‘Cruz del Sur’ (Italy) a green LED Light Strip was used. The colour and the brightness of the LED-lighting is meant to have clearly readable instruments also at night. The voltage of the LED Light Strip (24VDC) made the fitting on the yacht easier. A DC/DC converter was used however, to ensure stabilized voltage. The set-up is completely dimmable.

TRIO light

Project illustration

LED Light Strip - blue

In this parking lot (Q-park), the blue LED Light Strip was fitted in a cove above the old city wall of Maastricht (The Netherlands). The led-lighting has a decorative purpose and creates a blue ambient lighting along the wall. The black wall/ floor profile holds the strip in place.



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Project illustration

LED Light Strip - blue

LED Light Strip II - warm white

The warm white LED Light Strip II has been fitted in the beautiful frames in several rooms of this house. The set-up is completely dimmable.

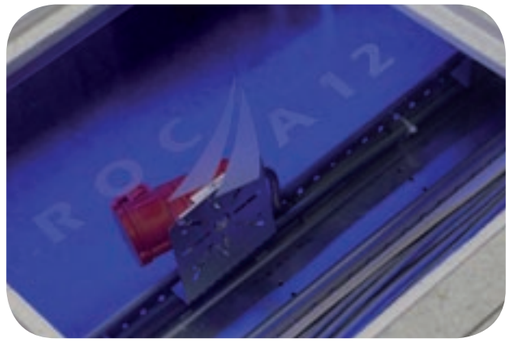
TRIO light

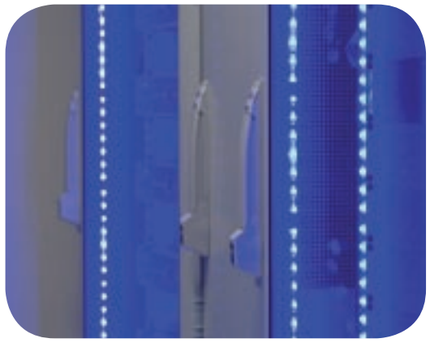
Project illustration

LED Light Strip II - warm white

LED Light Strip II blue

The server room of ROC A12 MBO educational institute (Ede, The Netherlands) has completely been fitted with the blue LED Light Strip II, purely for atmosphere purposes. The colour blue was chosen because of its association with water and the water-cooled Rittal server cupboards. The LED Light Strip has been fitted using Tri-O-Light u-profiles. Each cupboard takes up about 4m and a 20W transformator. ITN Installatietechniek (ITN Fitting Techniques) have fitted the whole set-up.





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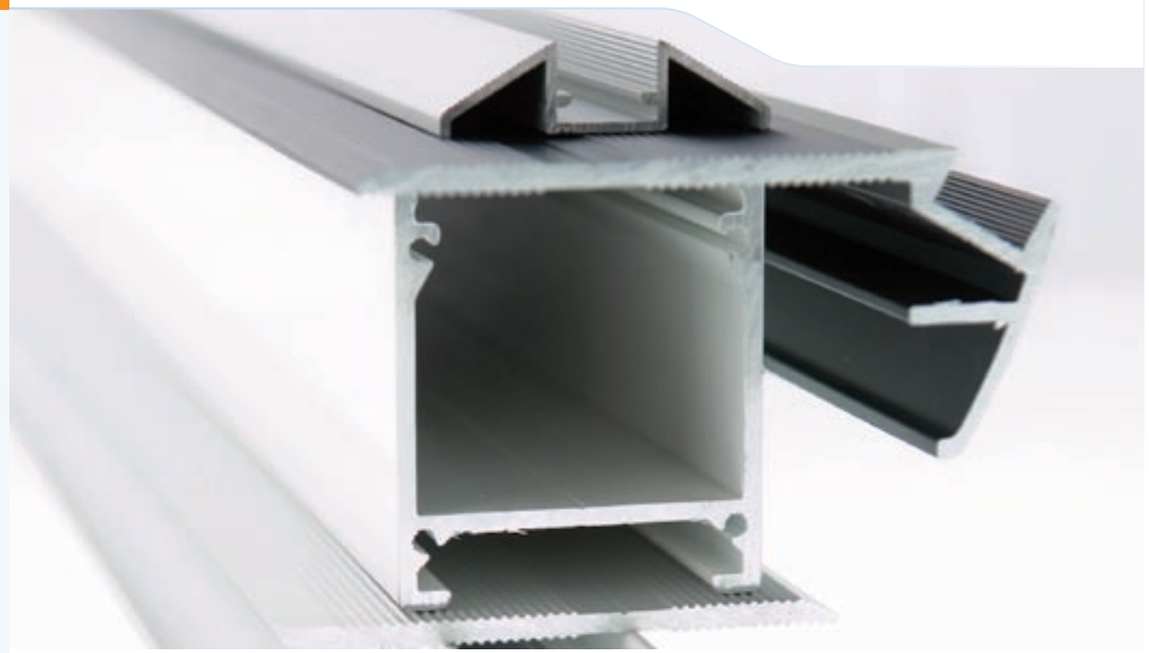
Project illustration

LED Light Strip II blue



Aluminium profiles

The aluminium profiles have been developed especially for the LED Light Strip. They are ideal for functional and decorative applications such as marking stairs, floors, walls and ceilings in theatres, cinemas and clubs.

Line profiles
The line profiles are available in two widths: 20mm and 40mm. In combination with a LED Light Strip and frosted or clear acrylic a diffuse light line can be created. Several accessories are available to fix and mount the profiles. The profile has a white epoxy coating. These line profiles are suitable to build in and on floors and walls.

Wall profile indirect
The ‘wall profile indirect’ is designed to create floodlight effects along a wall. The profile consists of a fitting profile, which is screwed to the wall, the cover, the polycarbonate and the end caps. This system is “lout-proof” (also suitable for applications in public places) and can not be taken apart easily. The profile is available in silver grey, black and white.

Stair profile & Wall/floor profile
These profiles are only applicable for LED Light Strip II. The stair profile has anti-slip grooves. Both profiles are screwed or glued onto steps, wall, floor or ceiling. The LED Light Strip can easily be pressed into the profile and is not easily removable.

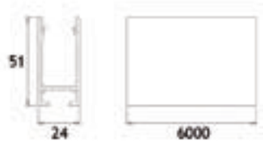
Line profile 20mm

white

Dimensions	W24xH51mm
Material	aluminium
Trim	white (RAL9010)
Application	diffuse or clear lightline build in and/ or on
Cutting tolerance (mm)	± 5mm
Maximum length (m)	6m
Standard length (m)	2m
Weight (g)	900g/ m
Packing	per 2m/ unless differently agreed
To be used with	LED light strip II and RGB, acrylic 20mm, end cap 20mm, mounting clip 20mm
Facilities	cut to size, extra cuts will be charged

Product code: 010982

Description: Line profile 20mm, white [m]



Acrylic 20mm

frosted/ clear

Dimensions	W20xH5mm
Material	acrylic clear and frosted
Maximum length (m)	3m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	200g/ m
Packing	per 2m, except differently agreed
To be used with	lineprofile 20mm

Product code:
010959
010965

Description:
Acrylic 20mm, frosted [m]
Acrylic 20mm, clear [m]

TRIO light

4.1 Aluminium profiles

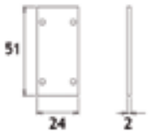
End cap 20mm

white

Dimensions	L51xW24xH2mm
Material	aluminium
Trim	white (RAL9010)
Included	screws
Weight (g)	700g/ 100 pc
Packing	per pc
To be used with	lineprofile 20mm

Product code: 010969

Description: End cap 20mm [pc]

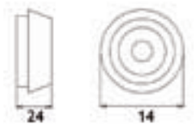


Mounting clip 20mm

Dimensions	Ø14xH24mm
Material	nylon
Trim	white
Weight (g)	300g/ 100 pieces
Packing	per pc
To be used with	line profile 20mm

Product code: 010977

Description: Mounting clip 20mm [pc]



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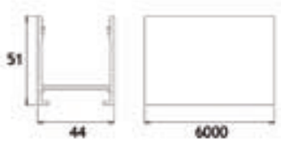
Line profile 40mm

white

Dimensions	W44xH51mm
Material	aluminium
Trim	white (RAL9010)
Application	diffuse or clear lightline build in and/ or on
Maximum length (m)	6m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	900g/ m
Packing	per 2m/ unless differently agreed
To be used with	LED light strip II and RGB, acrylic 40mm, end cap 40mm, mounting clip 40mm



Product code	Description
010985	Line profile 40mm, white [m]

Acrylic 40mm

frosted/ clear

Dimensions	W40xH5mm
Material	acrylic frosted and clear
Included	screws
Maximum length (m)	3m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	330g/ m
Packing	2m, except differently agreed
To be used with	lineprofile 40mm

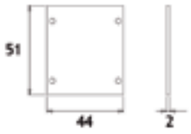
Product code	Description
010961	Acrylic 40mm, frosted [m]
010967	Acrylic 40mm, clear [m]

End cap 40mm

white

Dimensions	L51xW44xH2mm
Material	aluminium
Trim	white (RAL9010)
Included	screws
Weight (g)	130g/ 100 pieces
To be used with	lineprofile 40mm
Packing	per piece

Product code	Description
010971	End cap 40mm [pc]

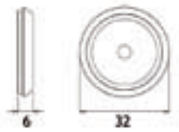


Mounting clip 40mm

white

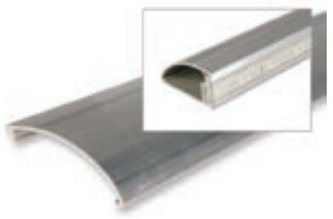
Dimensions	Ø32xH6mm
Material	nylon
Trim	white
Weight (g)	600g/ 100 pieces
To be used with	line profile 40mm
Packing	per piece

Product code	Description
010979	Mounting clip 40mm [pc]

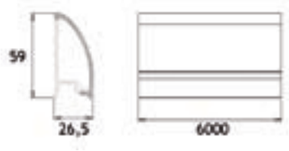


Wallprofile indirectly

silver grey/ black/ white



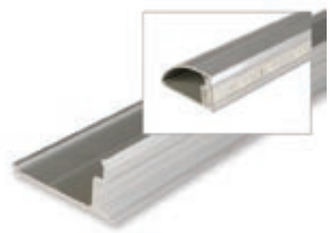
Dimensions	W26,5xH59mm
Material	aluminium
Trim	silver grey (RAL 9006), black (RAL 9005) or white (RAL 9010), other colours on request
Mounting	on mountingprofile
Maximum length (m)	6m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	760g/ m
Packing	2m, except differently agreed
To be used with	LED light strip II, mountingprofile, polycarbonate, end cap left, end cap right



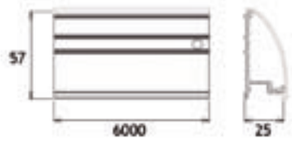
Product code	Description
011581	Wall profile indirect, 6x12mm, silver [m]
011583	Wall profile indirect, 6x12mm, black [m]
011579	Wall profile indirect, 6x12mm, white [m]

mountingprofile

silver grey



Dimensions	W25xH57mm
Material	aluminium
Trim	silver grey (RAL 9006)
Mounting	on mountingprofile
Maximum length (m)	6m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	760g/ m
Packing	per 2m, unless differently agreed
To be used with	wallprofile indirectly



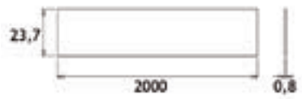
Product code	Description
011589	Mounting profile for wall profile indirect, silver [m]

Polycarbonate

clear

Dimensions	W23.7xH0.8mm
Material	PC
Trim	transparant
Mounting	
Maximum length (m)	2m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	23g/ m
Packing	per 2m, unless differently agreed
To be used with	wallprofile indirectly

Product code	Description
011591	PC Cover for wall profile indirect, transparent [m]

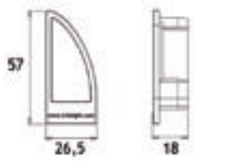


End cap

left/ right

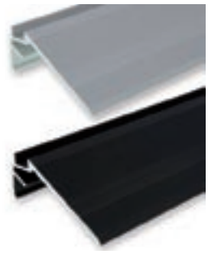
Dimensions	L57xW26.5xH18mm
Material	PU
Trim	black
Weight (g)	66g
Packing	per piece
To be used with	wallprofile indirectly

Product code	Description
011571	End cap left for wall profile indirect, black [pc]
011573	End cap right for wall profile indirect, black [pc]



Stair profile

silver/ black

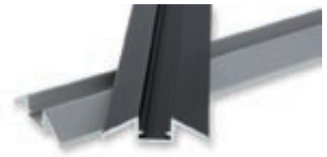


Dimensions	W62xH35mm
Material	aluminium
Trim	silver or black anodised
Application	Stairnosing lighting
Maximum length (m)	6m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	1kg/m
Packing	per 2m, unless agreed on differently
To be used with	LED Light Strip II

Product code	Description
011565	Stair profile, 6x12mm, silver [m]
011567	Stair profile, 6x12mm, black [m]

silver/ black

wall-/ floorprofile



Dimensions	W40xH10mm
Material	aluminium
Trim	silver or black anodised
Application	orientation lighting for wall and floor
Maximum length (m)	6m
Standard length (m)	2m
Cutting tolerance (mm)	±5mm
Facilities	cut to size, extra cuts will be charged
Weight (g)	250g/ m
Packing	per 2m, unless differently agreed
To be used with	LED light strip II

Product code	Description
011593	Wall/floor profile, 6x12mm, silver [m]
011595	Wall/floor profile, 6x12mm, black [m]

LED Light Strip with line profile

T-for Telecom used the white LED Light Strip for their renewed interior concept. This project uses the 20mm line profile. The LED Light Strip was mounted inside the 20mm line profile using a u-profile. The yellow T-for-Telecom colour was created with a yellow diffuse acrylic cover. The result is an illuminated diffuse line, visible on the furniture and cupboard partitions. The line has only a decorative purpose and meant to create a bright, fresh and renewing accent.

TRIO light

Project illustration

LED Light Strip with line profile

LED Light Strip with stairnosing profile

This exhibition hall in Rijswijk, The Netherlands, applied LED Light Strip in combination with black anodic aluminium stair profile. The aluminium stair profile has anti-slip grooves and ensures extra safety with the bright led-lighting. A functional and decorative solution at the same time.

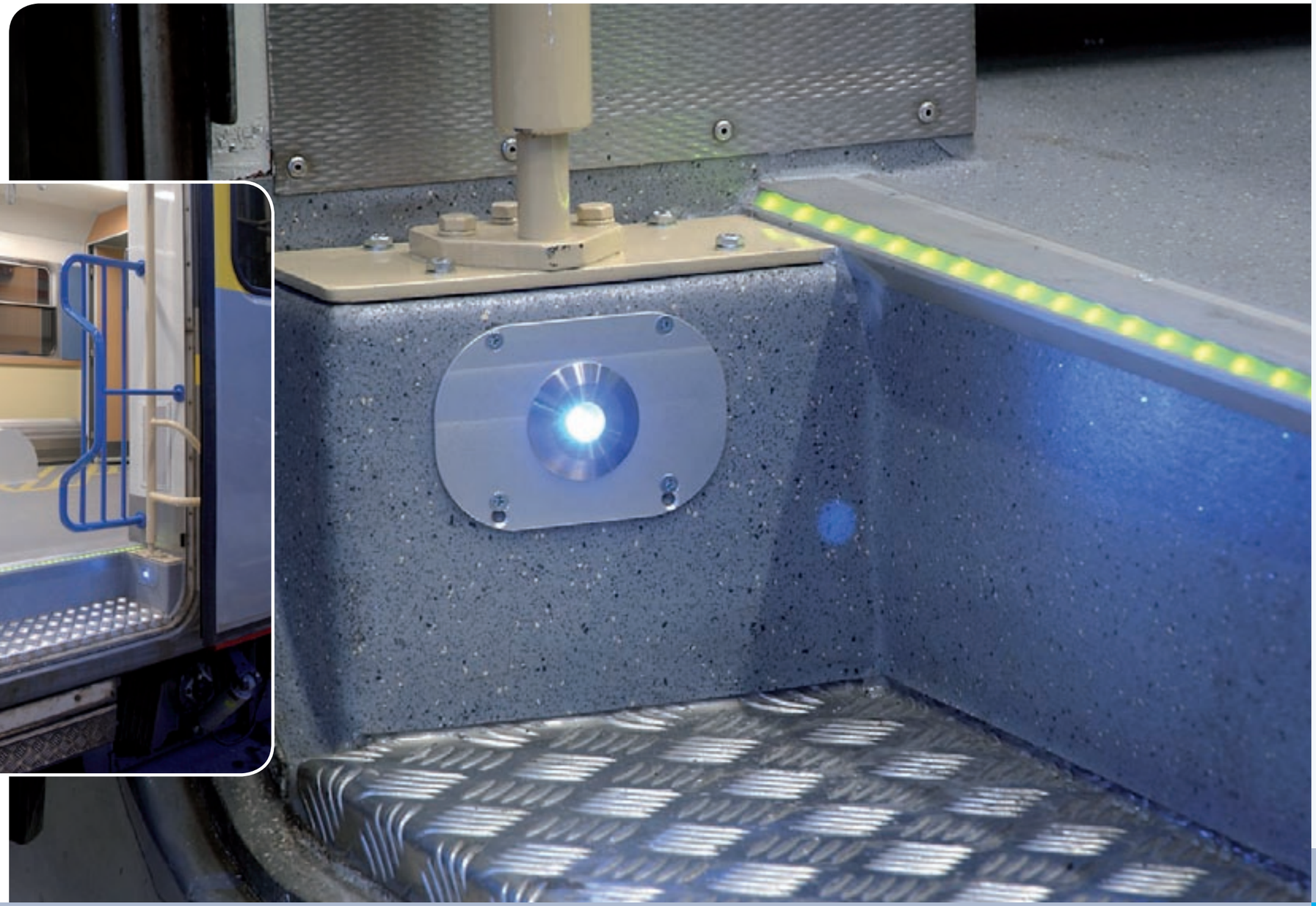
TRIO light

Project illustration

LED Light Strip with stairnosing profile

LED Light Strip with stairnosing profile

In order to create more safety and comfort, Motala Train AB upgraded a number of regional passenger trains by means of LED-lighting. They installed aluminium stair profiles with LED Light Strip and integrated the wall/floor profile in the entrances for the disabled. Purpose of the installation was to increase safety and overview when getting on and off. It is an aesthetic and at the same time durable innovation.



TRIO light

Project illustration

LED Light Strip with stairnosing profile

www.triolight.com Creative Lighting Concepts

Warning

- Please remember during the fitting procedure that you are dealing with an electrical device. Handle with care. Ensure mains supply is switched off before commencing work.
- The LED Light Strip cannot withstand a voltage fluctuation. Always use a stabilised 24VDC power supply and check on sufficient power and right voltage.
- In situations where power supplies are not stabilised, for example on a car or boat, it is necessary to use a DC-DC converter; see the chapter ‘power supplies’.
- The maximum connection length of the LED Light Strip must not be exceeded. The cable from the strip to the power supply cannot be longer than 20m to prevent voltage loss.
- As (led) diodes are used, the dimming characteristic is not linear. Therefore it is not possible to dim with conventional dimmers.
- Cut the strip on the section markings only. In each section the leds are connected in series. The section should not be interrupted or damaged. Once the LED Light Strip is cut, the IP-rate (IP66) is no longer guaranteed.
- Ensure, when connecting the accessories, that the + and – signs on the connectors are aligned to ensure a correct connection.
- Keep connector sets, end caps and connectors out of reach of water or moisture or make sure that all connections are sealed 100% waterproof, using PVC-kit.
- LED Light Strip cannot be connected or used when coiled. Keep a minimum bend radius of (>) 150mm when bending the strip forwards or backwards. The strip must not be bent over the sides.

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