SIGN-TEC SERVICES

LED LIGHTING COMPONENTS

CATALOGUE 2021

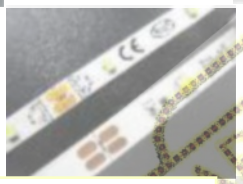
online at www.sign-tec.co.uk

NEW PRODUCTS

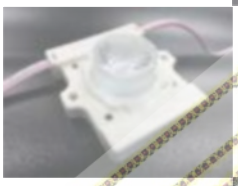
NEW PRODUCTS

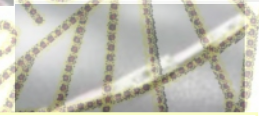
ORCA

HEXA



NEW PRODUCT PICO





NEW PRODUCT PROFILES

NEW PRODUCT DALI

Whatever you see in here now is most likely better today! Call for more details

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WHICH TO USE?

With LEDs changing and evolving at such rapid rates there is always something new to look at. Better products for standard use, new products to solve particular applications.
On these first pages we have tried to outline which LEDs are most suitable for individual purposes.

Often these can make for significant savings on product, installation costs and end customer running costs.

Take a look through these and check out the suggested LEDs further through. If you are viewing this as a pdf file, the links should be in place to take you direct to the suggested product.

Back Lighting for letters, front and or halo lit.

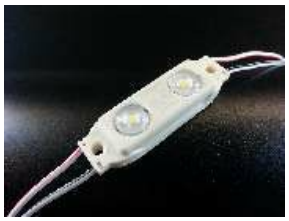
Generally for this type of application, chained LED modules are the best option.
Such as the NP module range pages 4-10 which are suitable for a range of letter heights as well as depths. Modules covering box depths from 40-120mm are in the standard range.

Both dimensions should be taken into account when deciding which LED is the most suitable for a particular project.

All chain type LED modules have a maximum spacing, but can of course be used at shorter spacing according to requirements. A balance needs to be drawn between the 2 possibilities, as well as the desired lumen level required.

Final running costs should also be considered, most LEDs are now running at up to and around 100 lumen per Watt.
For lower budget applications there are also the MW range of modules on pages 15 - 17

We are always happy to help with assistance on this using our knowledge and a dedicated LED calculator which is freely provided by NP Lighting



All data given is approximate, we reserve the right to make technical changes

Standard Light Boxes and Frames

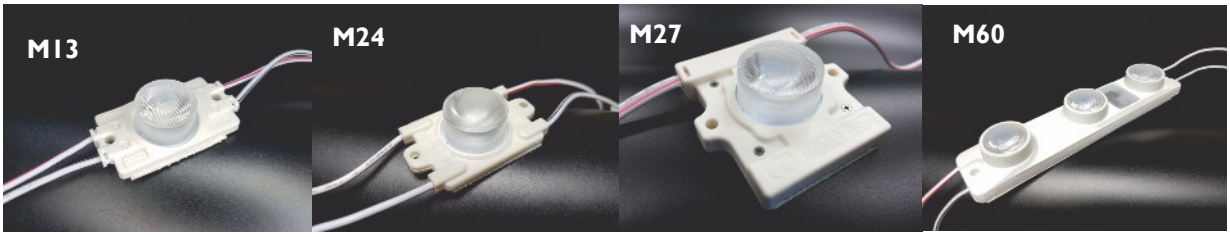
Generally for Light boxes, Using the edges for mounting the LEDs and projecting the light across the box is a very efficient and cost effective method. The Linear version are very simple and rapid to fit

The ED-LED chain range are ideal, pages 16-19, for both single and double sided boxes.

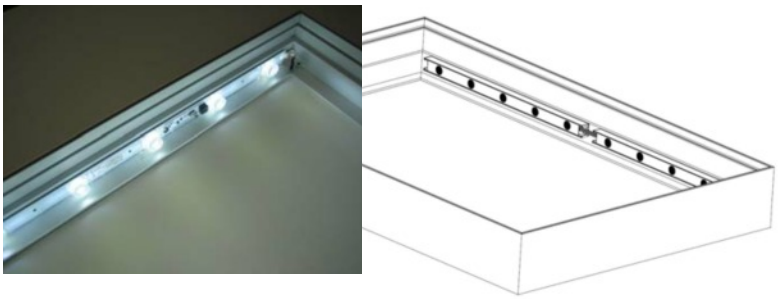
This range covers depths from 70mm single sided up to 120mm double sided and from 1,000 up to 3,000 mm span

The ED-LED range are in chain format and have maximum centre distances, but can of course be used on shorter centres if required.

This also makes them ideal for curved features where feature lighting is required.



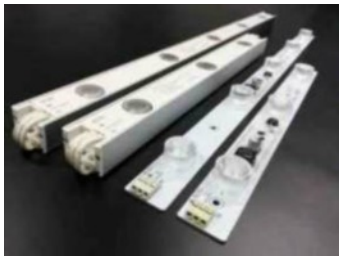
Curved surfaces



Light box/frames

ED-LED Light pattern

Wall wash



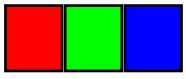
ED-LED LINEAR

For wall wash applications -

The ED-LED linear range are ideal, page 20

Available in various lengths and IP ratings.

Also available with RGB and DMX control



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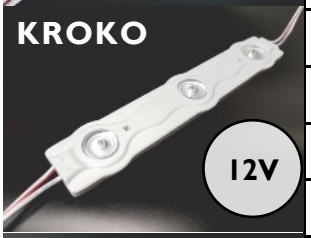
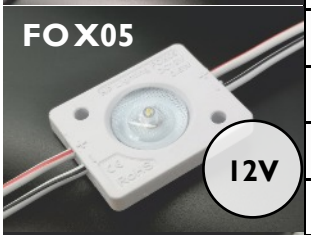
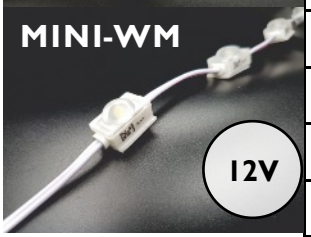
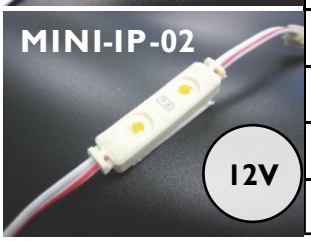
MODULE RANGE

Sign-Tec Services - LED Product List - 2021

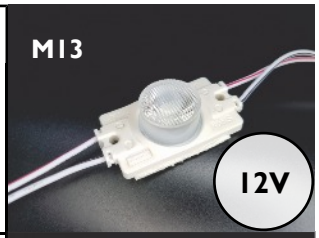
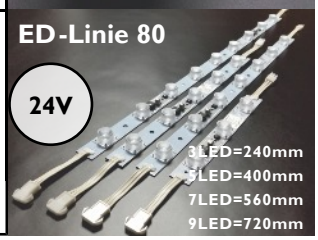
MODULES FOR LETTERS AND BACKLIGHT

	12VDC	0.36W	Letter height > 250mm Letter depth > 60mm
	38lm	165°	
	6900k	IP65	
	Max 75 pc/branch		
	12VDC	0.72W	Letter height > 400mm Letter depth > 80mm
	76lm	165°	
	6900k	IP65	
	Max 50pc/branch		
	12VDC	1.2W	Letter height > 800mm Letter depth > 120mm
	127lm	165°	
	6900k	IP65	
	Max 25pc/branch		
	12VDC	3.6W	Light box depth > 120mm
	310lm	170°	
	6500k	IP65	
	Max 15pc/branch		
	12VDC	0.5W	Light box depth 40 - 80mm
	45lm	170°	
	6300k	IP65	
	Max 50pc/branch		
	12VDC	0.36W	Profile letters from 40mm height with narrow stroke width
	34lm	160°	
	6300k	IP65	
	Max 50pc/branch		
	12VDC	0.3W	Profile letters from 50mm height with narrow stroke width
	20lm	120°	
	6500k	IP65	
	Max 50pc/branch		

All data given is approximate, we reserve the right to make technical changes

MODULES FOR FRAME AND LIGHT BOX

SS = Single Faced DS = Double Faced

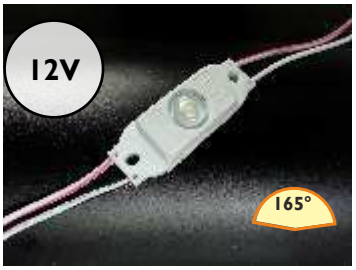
12VDC	1.32W	Light box Depth SS > 70mm DS > 80mm Light span (depending on subject) 1000mm Up to 1200mm	
110lm	10 x 65°		
6300k	IP65		
Max 20 pc/branch			
12VDC	2.4W	Light box depth SS > 80mm DS > 100mm Light span (depending on subject) 1200mm Up to 1500mm	
245lm	19 x 32°		
6500k	IP65		
Max 25pc/branch			
12VDC	2.7W	Light box depth SS > 90mm DS > 120mm Light span (depending on subject) 2000mm Up to 2500mm	
310lm	12x40°		
6900k	IP65		
Max 15pc/branch			
12VDC	6.5W	Light box depth SS > 90mm DS > 120mm Light span (depending on subject) 2500mm Up to 3000mm	
780lm	10x40°		
630k	IP65		
Max 10pc/branch			
24VDC	6.5/10.5W	Light box depth SS > 100mm DS > 120mm Light span (depending on subject) 1700mm Up to 2000mm	
780/1300lm	10x40°		
600k	IP00		
Max 12/8pc/branch			
24VDC	6.5/10W	Light box depth SS > 100mm DS > 120mm Light span (depending on subject) 1700mm Up to 2000mm	
780/1300lm	10x40°		
6000k	IP65		
Max 12/8pc/branch			
24VDC	6.5/10.5/13.5/19.5W	Light box depth SS > 70mm DS > 100mm Light span (depending on subject) 1700mm Up to 2200mm	
780/1300/1820/2340lm	10x40°		
6000k	IP00		
Max 12/8/5/4pc/branch			

All data given is approximate, we reserve the right to make technical changes

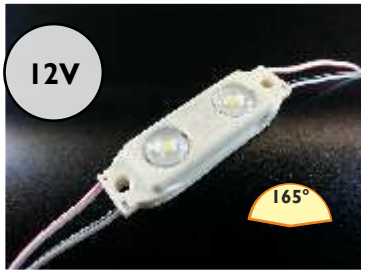
EAGLE MODULE RANGE

Flexible and great value with high light output

EAGLE 1 38 lumen
Recommended use in letters or boxes between 60 and 100 mm depth



EAGLE 2 76 lumen
Recommended use in letters or boxes between 90 and 130 mm depth



EAGLE 3 127 lumen
Recommended use in letters or boxes between 120 and 200 mm depth

Eagle Module Range - Ideal for lighting signs and light boxes in outdoor areas!

- **Very Bright - 35/76/127 Lumens**
- **165° Lens for greater spacing and shallow boxes**
- **High Efficiency - 105 Lumen/W**
- **Simple to Install**
- **For Indoor and Outdoor Applications IP65**
- **Expected Lifetime of 50,000 hours**
- **CE and UL Certified/Recognized**
- **Primary Voltage 11.4 - 15 V**
- **Control Options Dim and Flash**
- **Cool White 6900k Warm white 3000k**
- **Red Blue and Green available in 1 and 2 LED modules**

Name	Colour	Lumen output	
EAGLE 1	White 6900K	38 lumens	
EAGLE 2	White 6900K	76 lumens	
EAGLE 2	Red	28 lumens	
EAGLE 3	White 6900K	127 lumens	

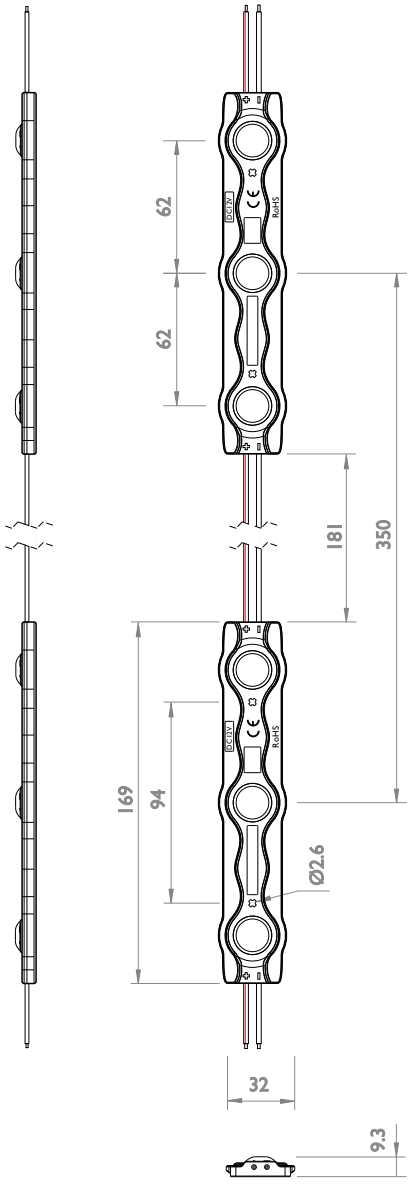
All data given is approximate, we reserve the right to make technical changes

KROKO MODULE RANGE

- Module with 170° lenses
- Robust housing
- High efficiency from 86 lm/W
- Constant current regulation
- Outdoor use IP65
- Shallow installation depths possible
- For light boxes
- SMD technology
- Life expectancy 35,000 hours
- CE, RoHS

WK

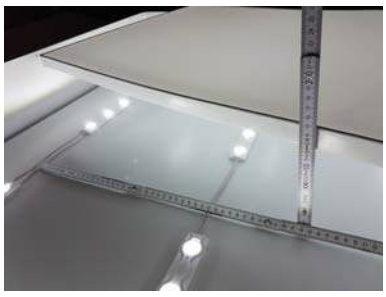
Dimensions in mm



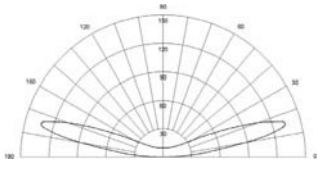
Application	Light boxes
System type	Flexible LED module chain
Colour	Cold White 6500°K
LED Type	3x 1-Chip SMD 3030
Luminous Flux White 6500° Ke	310 Lumen
Light beam angle	170°
Power system	12V DC, Parallel
Module power	3.6W
Current consum	300mA
Life expectancy @ 25° 45%	35,000h
Protection	IP65
Switching option	dim and flash
Fixing	3M Tape & Screw Ø 2,6mm
Operating temperature	-25°C to +60°C
Storage temperature	-25°C to +70°C
Dimensions (LxBxH)	169 x 32 x 9.3mm
Module spacing (Centre / Centre)	variable, max 350mm
Cable length (Module to Mod	181mm
Cutting points	every module
Pack quantity - modules	30 pcs.

Homogenous lighting:

Box depth 150mm
stretched fabric face
330mm module spacing
= 9 Module /m²



Radiation pattern
170° Lens:



Name	Colour	Lumen output	
KROKO	White 6500K	310 lumens	

All data given is approximate, we reserve the right to make technical changes

The FOX Module

For shallow light boxes IP65

Beam angle 170°

Shallow installation depth > 40mm

Flat design

Very bright

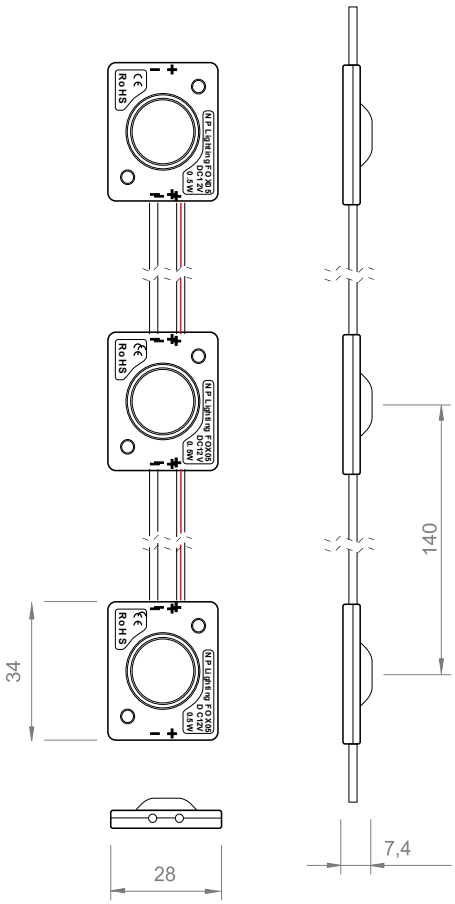
Constant voltage

Life expectancy 35,000 hours

CE, RoHS

FOX 05 - Ideal for shallow lighting signs and light boxes in outdoor areas!

- **Very Bright - 45 Lumens**
- **170° Lens for greater spacing and shallow boxes**
- **High Efficiency - 90 Lumen/W**
- **Simple to Install**
- **For Indoor and Outdoor Applications IP65**
- **Expected Lifetime of 35,000 hours**
- **CE Certified**
- **Voltage 12 V dc**
- **Control Options Dim and Flash**
- **Cool White 6300k**



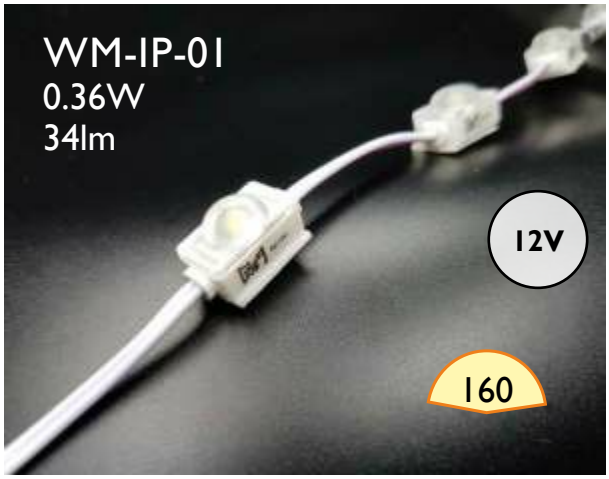
Name	Colour	Lumen output	
FOX05	White 6300K	90 lumens	

All data given is approximate, we reserve the right to make technical changes

Sign-Tec Services - LED Product List - 2021

NEW

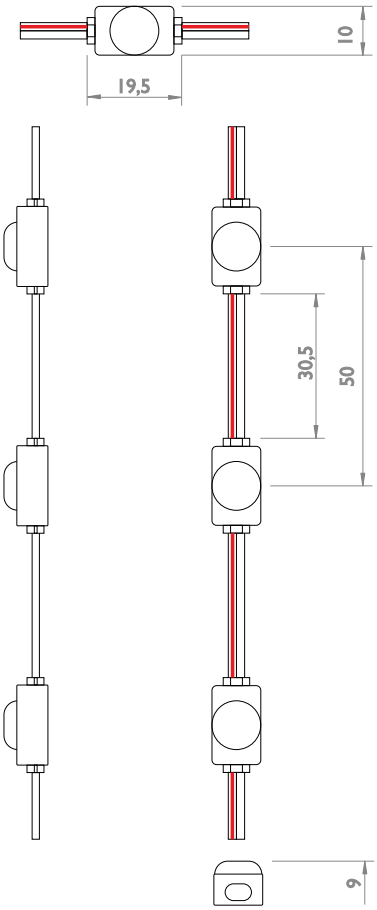
MINI MODULE
WITH WIDE ANGLE LENS For narrow letters



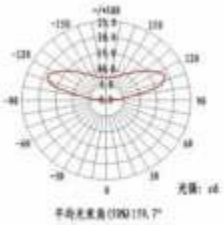
- **Mini module with 160° Lense**
- **Ultra compact construction**
- **Short module spacing - good for tight curves**
- **High efficiency with 95 lm/W**
- **Constant current regulation**
- **Out door rated IP65**
- **Low installation depth**
- **For profiles/letters with narrow stroke width**
- **SMD Technology**
- **Life expectancy 35,000 h**
- **CE, RoHS compliant**

Colours **White 6500° K**
Red
Green
Blue

WM



Dimensions in mm



Application	Profile letters
Type	Flexible LED-chain
1-Chip SMD 3528	
Luminous flux White	
6500° Kelvin	34 Lumen
Beam angle	160°
Connection	12 V DC, Parallel
Module power reqd'	0,36W
Current	30mA
Service life @ 25° 45% rF	35,000
Switching/dimming	dim - and flashing
Mounting	Adhesive pads
Operating temp range	-25° C to +60° C
Storage temp range	-25° C to +70° C
Dimensions (L x B x H)	19.5 x 10.0 x 9.0 mm
Fixing pitch (centre to centre)	Variable, max. 50 mm
Cable length (module to module)	30.5 mm
Cutting possibility	Each Module
Package size	50 pieces
Max modules per branch	50 pieces
Colours - light output:	
WM-IP-01R50	Red 7 Lumen
WM-IP-01G50	Green 21 Lumen
WM-IP-01B50	Blue 4 Lumen

Name	Colour	Lumen output	
MINI01 lens	**White 6500K**	**34 lumens**	

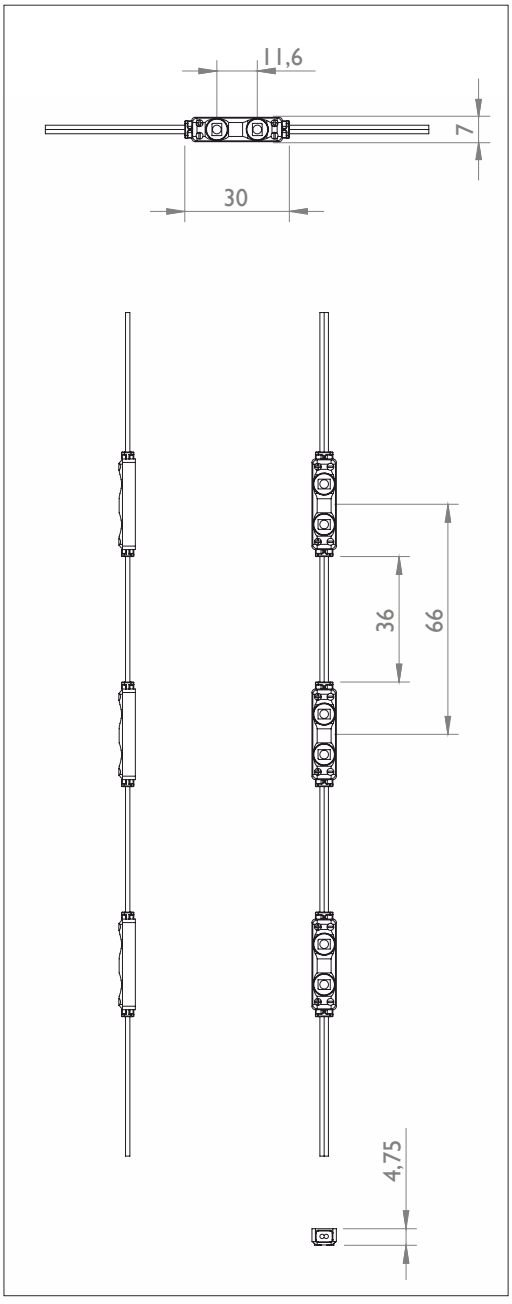
All data given is approximate, we reserve the right to make technical changes

MINI 02 RANGE

FOR BUILT UP LETTERS IP66 FOR OUTDOOR USE

IP66 Suitable for built up and shallow letters/narrow profiles

- **Ultra compact construction**
- **Very bright**
- **Constant current regulation**
- **Max Pitch 66 mm**
- **Fully sealed IP66**
- **SMD Technology**
- **Patent licensed LED technology**
- **Life expectancy 30,000h**
- **Can be cut at every module**



Technical Data

System type	Flexible LED chain
LED Type	2 x 1 chip SMD 3528
Colours	White 6500k 3000k
	Other colours on request
Luminous flux White 6500 kelvin	14 lumen
Angle	120°
Switching type	12v DC parallel
Module output	0.3W
Current	25mA
Life @ 25° 45% rF	25,000 hours
Environment Protection	Ip65
Control Option	Dimming Flashing
Mounting	Adhesive pads
Operating temperature range	-25°C to +60°C
Storage temperature range	-25°C to +70°C
Number of modules	50 pieces
Cut possibilites	1 module
Maximum modules per branch circuit	50

Name	Colour	Lumen output	
MINI02 W -WW	White 6300K	14 lumens	

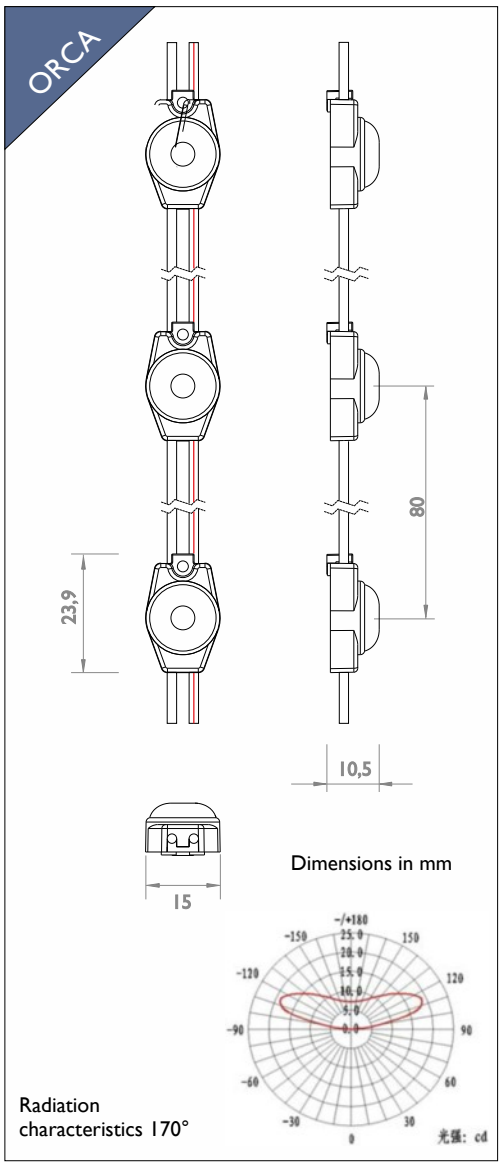
All data given is approximate, we reserve the right to make technical changes

NEW

ORCA

FOR SHALLOW HALO LIT LETTERS IP68 FOR OUTDOOR USE

- For unprotected outdoor areas
- Protection to IP68
- Lens fitted 170°
- Bright
- Constant current regulation
- Life expectancy 35,000h
- CE RoHS



Technical Data	WT-IP-01W63K80
Type	Flexible LED chain
Use	Profile letters Type 3 (halo) outdoors
Colours	White 6300°k, Red, Green, Blue
LED type	1 x SMD 2835
Luminous flux	White 6300°k, 47 lumen
Lens	170°
Circuit type	12V DC parallel
Power	0.5W / module
Current	42mA onboard regulated
Life expectancy	35,000h @25°C 45%rF
Protection	IP68
Control options	Flashing and dimming
Mounting	3M tape Screw ⌀ 2.2mm
Working temp	-25°C to +60°C
Storage temp	-25°C to +70°C
Dimensions (LxBxH)	23.9 x 15 x 10.5
Module centres	variable up to 80mm
Cutting point	Each module
Pack Qty	50 pcs per pack
Max module/string	50 pcs

Recommended grid according to depth

Depth*	Grid spacing	Light output
55mm	80 mm	7.343 lm/sqm
45 mm	60 mm	13.550 lm/qm

* In the case of reflectors, the distance from the wall is a partial dimension of the installation depth. Please note that the light intensity and quality on the back wall / facade is heavily dependent on the reflective properties of the illuminated surface.

Name	Colour	Lumen output	
ORCA	White 6300K	47 lumens	
ORCA	Red/Blue/Green	N/A	

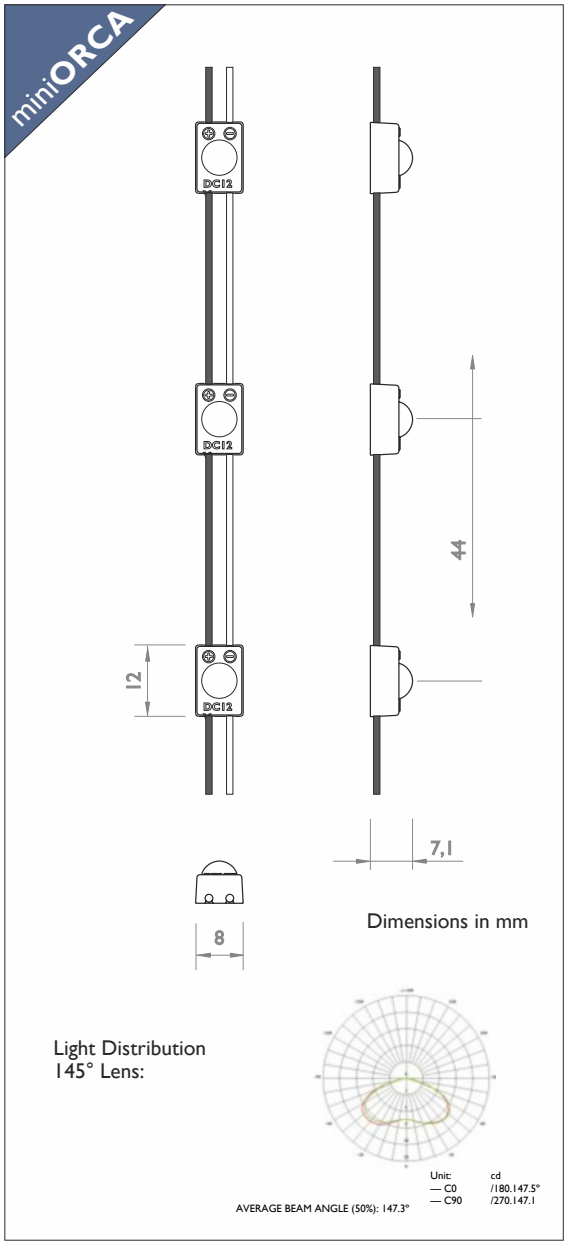
All data given is approximate, we reserve the right to make technical changes

MINI ORCA

FOR SHALLOW HALO LIT LETTERS IP68 FOR OUTDOOR USE

- Ideal for open Halo application
- For outdoor use IP68
- 145° Lens
- Bright
- Life expectancy 30,000 h
- CE, RoHS marked

NEW



Technical Data	**OM-IP-01W65K44**
System Type	Flexible LED Chain
Application -	Profile letters type Halo lit

Also Face light with installation depth> 35mm outside

Colours	White 6300°K / 3000°K, Red, Green, Blue

Colours	White 6300°K / 3000°K, Red, Green, Blue
Luminance	White 6300° Kelvin 36 Lumen
LED Type	1x SMD 2835
Lens	145°
Circuit Type	12V DC Parallel
Module Power	0.36W
Current	30mA
Life expectancy	@ 25° 45% rF 35.000h
Protection	IP68
Control Options	Dim and Flash
Fixing	Adhesive film H4900
Operating Temp Range	-20°C to +60°C
Storage Temp Range	-20°C to +70°C
Dimensions (LxBxH)	12 x 8 x 7.1mm
Module Centres	Variable up to 44mm
Cut Point	Each Module
Packed	80 pcs
Max Branch Qty	40 pcs

Recommended installation grid according to installation depth

Installation Depth*	Installation Grid	Lumens
45 mm	36 mm	27,778 lm/qm
55mm	40 mm	22.500 lm/qm

* The distance to the wall is a partial dimension for reflectors of the installation depth. Please note the light intensity and quality on the back wall / facade is dependent on the reflective properties of the illuminated surface.

Name	Colour	Lumen output	
MINI ORCA	White 6300K	47 lumens	
MINI ORCA	Red/Green/Blue	N/A	

All data given is approximate, we reserve the right to make technical changes

Sign-Tec Services - Product List - 2021

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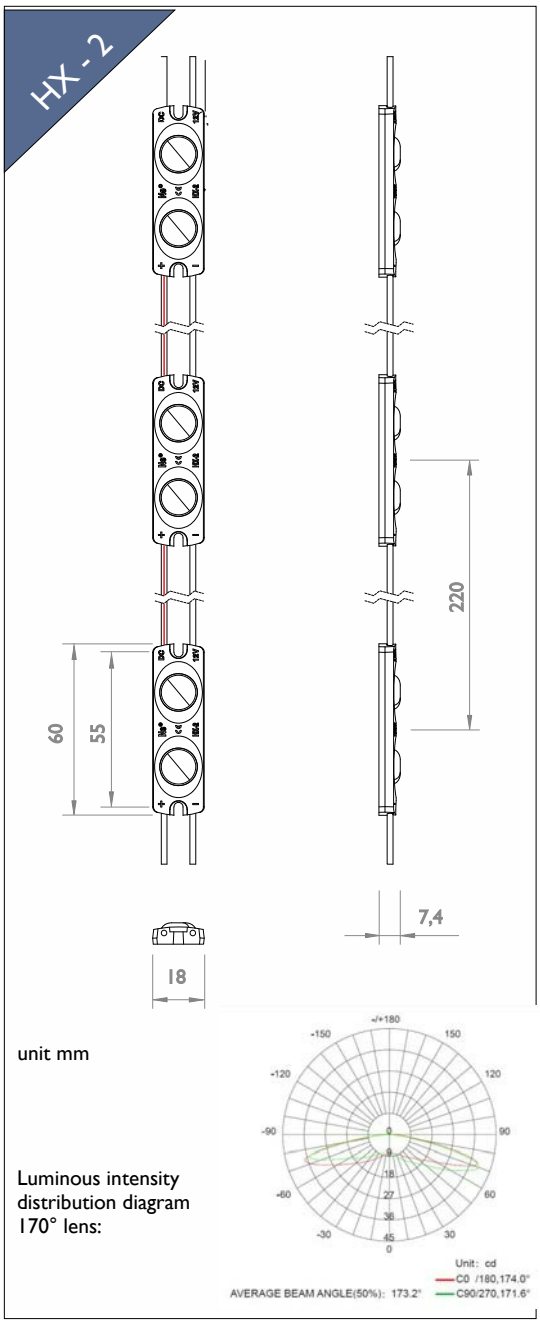
All data given is approximate, we reserve the right to make technical changes

HEXA RANGE

The HEXA Module

Very high efficiency

- high efficiancy 160 Lumen/Watt
- low power consumption
- powerful light emission
- 12/24V DC circuit
- for outdoor use
- suitable for low installation depth
- wide beam angle 170°
- constant current control
- Expected lifetime 35.000h
- CE, RoHS



Technical Data	HX-2-TW68K220 (12V DC) HX-2-FW68K220 (24V DC)
product type	flexible LED module chain
application	lightboxes and channel letters
color	white 6800° K
LED type	2x SMD 2835
luminous flux, white 6800° Kelvin	115 Lumen per pc.
beam angle	170°
circuit	12/24V DC, parallel
power consumption per module	0,72W
luminous efficiancy	160lm/W
current management	60/30mA, constant current controller
lifetime@ 25° 45% rF	35.000h
IP protection grade	IP65
control option	dimming and flashing
mounting	3M adhesive tape 3M55236A, 2x screw hole
working temperature range	-20° C up to +60° C
storage temperature range	-20° C up to +70° C
dimension (L x W x H)	60 x 18 x 7,4mm
module pitch (C2C)	variable, max. 220mm
wire length (module to module)	160mm, AWG20, UL1007
cutting option	each individual module cuttable
packaging per bag	50 pcs.
max. cascading numbers	35 pcs

Suggested module spacing per depth for uniform light output:

depth	80 mm	100 mm	120 mm
spacing*	136 mm	170 mm	204 mm
numbers / sqm	54 St.	35 St.	24 St.
light vol. / sqm	6218 lm	3979 lm	2763 lm
electr. power / sqm	39 W	25 W	17 W

* Uniformity of lumen output of the lightbox was tested with a pure white acrylic and textile cover. The result is always subject to a subjective assessment. Larger installation grids are possible depending on the image that is to be backlit.

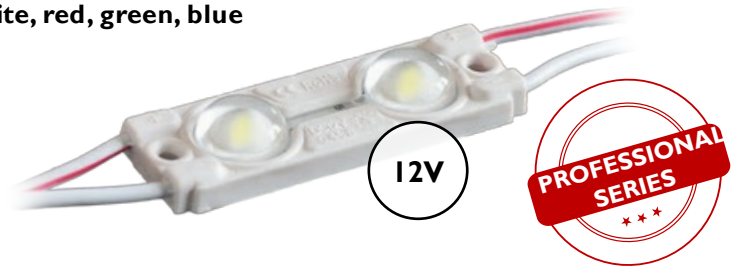
Name	Colour	Lumen output	
HEXA	White 6800K	115 lumens	

All data given is approximate, we reserve the right to make technical changes

MW-MLD-2835-2X-LENS

Features

- **Available colours: cold white, white, red, green, blue**
- **Wide beam angle 160°**
- **Built-in constant current circuit**
- **50 pcs chain**
- **IP67 protection**
- **3M adhesive tape**
- **4 years warranty**
- **cut by each module**



Input	Rated voltage	12Vdc±5%
	Power consumption	0.48W
Diodes	Diodes type	2835
	Colour temperature	9000k - 16000k / 6000k - 7000k / 620nm - 630nm / 520nm - 530nm / 460nm - 470nm
	Flux	42lm / 44lm / 12lm / 24lm / 7lm
	Beam angle	160°
	Lifetime	50,000hours
Working environment	Protection	IP67
	Working temperature	-40°C~100°C
Dimensions	HxWxL	6.4x14.6x44.2mm
	Wire length	60.8mm
Other	Number of modules per m	9.5
	Pcs in bag	200
	Pcs in box	2000

Power supply	G PV-12-12	G PV-18-12	G PV-20-12	G PV-35-12	G PV-60-12	G PV-75-12	G PV-100-12	G PV-150-12	G PV-200-12
Number of modules	16	33	33	50	83	100	133	225	266

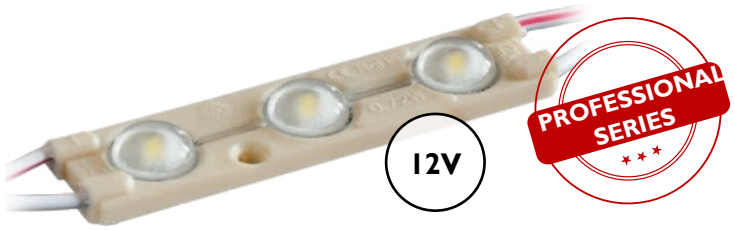
Name	Colour	Lumen output	
MLD-2835-2	White 6000K	44 lumens	

All data given is approximate, we reserve the right to make technical changes

MW-MLD-2835-3X-LENS

Features

- Available colours: cold white, white, red, green, blue
- Wide beam angle 160°
- Built-in constant current circuit
- 40 pcs chain
- IP67 protection
- 3M adhesive tape
- 4 years warranty
- Cut by each module



Input	Rated voltage	12Vdc±
	power consumption	0.72W
Diodes	Diodes type	2835
	Colour temperature	9000k 6000k 620nm 520nm 460nm 16000k 7000k 630nm 530nm 470nm
	Flux	6lm 6lm 1lm 3lm 1lm
	Beam angle	160°
	lifetime	50000hours
Working enviroment	Protection	IP67
	Working temperature	-40°C~100°C
Dimensions	H*W*L	6.4*5*65mm
	Wire length	100mm
Other	Number of modules per 1m	6.06
	Pcs in bag	160
	Pcs in box	2560

Power supply	G PV-12-12	G PV-18-12	G PV-20-12	G PV-35-12	G PV-60-12	G PV-75-12	G PV-100-12	G PV-150-12	G PV-200-12
Number of modules	15	22	25	44	75	94	125	150	250

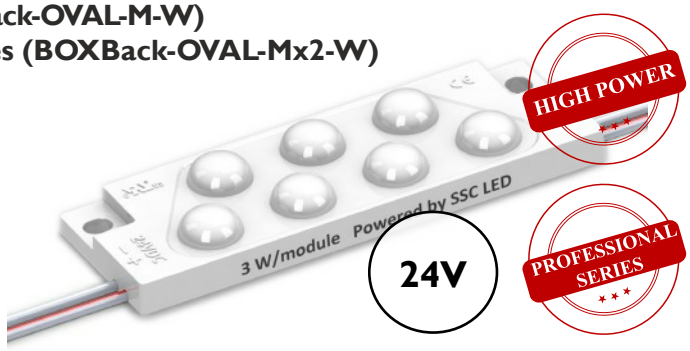
Name	Colour	Lumen output	
MLD-2835-3	White 6000K	66 lumens	

All data given is approximate, we reserve the right to make technical changes

BOXBack-OVAL-M-W

Features

- Dedicated for deep light boxes (BOXBack-OVAL-M-W)
- Dedicated for double-sided light boxes (BOXBack-OVAL-Mx2-W)
- Available white colour
- Built-in 170° lenses
- Built-in constant current circuit
- 40 pcs chain (16.2 m / 18 m)
- IP68 protection
- Adhesive tape
- 7 years warranty



Input	Rated voltage	24 V DC ± 5%
	Power consumption	3 W 6 W
Diodes	Diode type	Seoul Semiconductor
	Colour temperature	5500K 7000K / 5500K 7000K
	Flux	465lm / 930 lm
	Beam angle	
	Lifetime	70,000 hours
Working environment	Protection	IP68
	Working temperature	-25 °C ~ +55 °C
Dimensions	H×W×L	11×32×93 mm 12.8×40×137 mm
	Wire length	313 mm
Othe	Number of modules per 1m	3 2
	Pcs chain	40 20
	Pcs in box	360 140

Power supply	GPV-12-24	GPV-18-24	GPV-20-24	GPV-35-24	GPV-60-24	GPV-75-24	GPV-100-24	GPV-150-24	GPV-200-24
Number of Modules 3W 6W	3 1	5 2	7 3	10 5	18 9	21 10	30 15	43 21	59 29

Name	Colour	Lumen output	
BOX-BACK OVAL-M	White 6250K	465 lumens	

All data given is approximate, we reserve the right to make technical changes

MODULES FOR FRAME AND LIGHT BOX

Suitable for light boxes from depths:

Single Faced > 70 - 140mm

Double Faced > 80 - 200mm

Module spacing: Box depth x 0.9

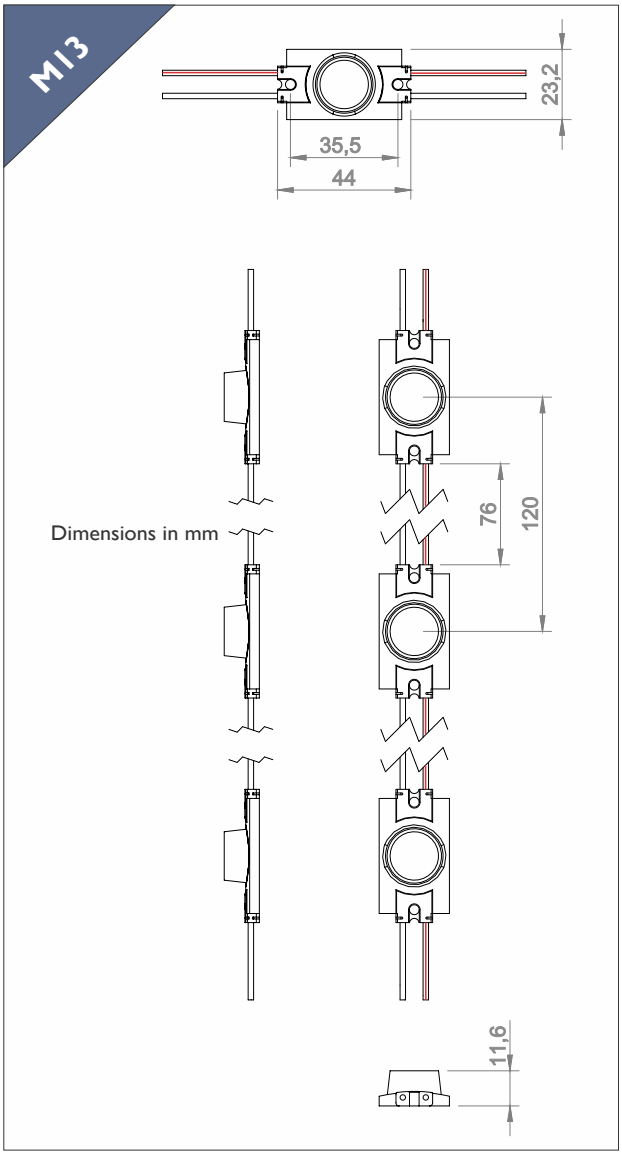
Light span*: up to 1000mm, max. 1200mm,

Depending on the subject,

at 60mm spacing and box depth 100mm

*** Distance between two opposite edges**

NB: LED PLACEMENT IS ALONG BOTH LONGEST EDGES

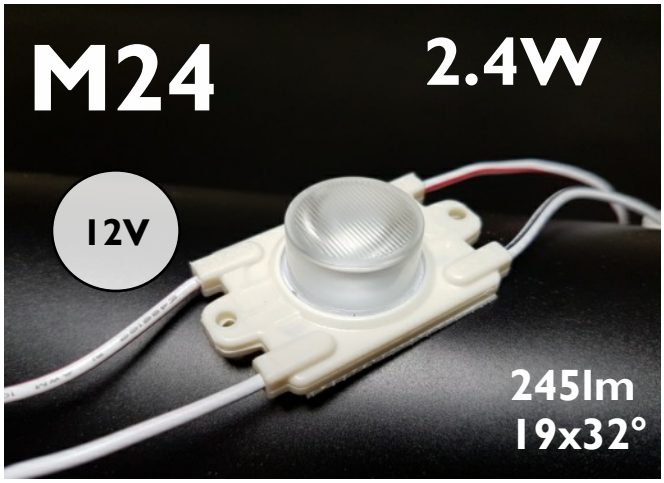


Technical Data	ED-IP-M13-01W63K120
Application	Edge mounted lighting
System	flexible LED-Chain
Colour	White 6,300°K
LED Type	SMD5050
Luminous Flux	110 Lumen
Light beam angle	10 x 65°
Connection type	12V DC, Parallel Constant current regulation
PCB	Aluminium
Module Power	1.32W
Current	110mA
Lifespan @25°45%rF	35,000h
Protection	IP65
Control options	dimming and switching
Fixing	Self adhesive pads, holes for screw fixing
Operating temperatures	-25°C to +55°C
Storage temperatures	-25°C to +70°C
Dimensions (LxBxH)	44 x 23 x 12mm
Module spacing (Centre/Centre)	variable, 47 to max.120mm
Cable length (Module to Module)	76mm
Cutting points	each Module
Pack quantity (VE)	20 pcs
Max. no. of modules per circuit branch	20 pcs

Name	Colour	Lumen output	
ED-LED M13	White 6300K	110 lumens	

All data given is approximate, we reserve the right to make technical changes

MODULES FOR FRAME AND LIGHT BOX



Suitable for light boxes from depths:

Single Faced > 80 - 200mm

Double Faced > 100 - 250 mm

Module spacing: Box depth x 0.8

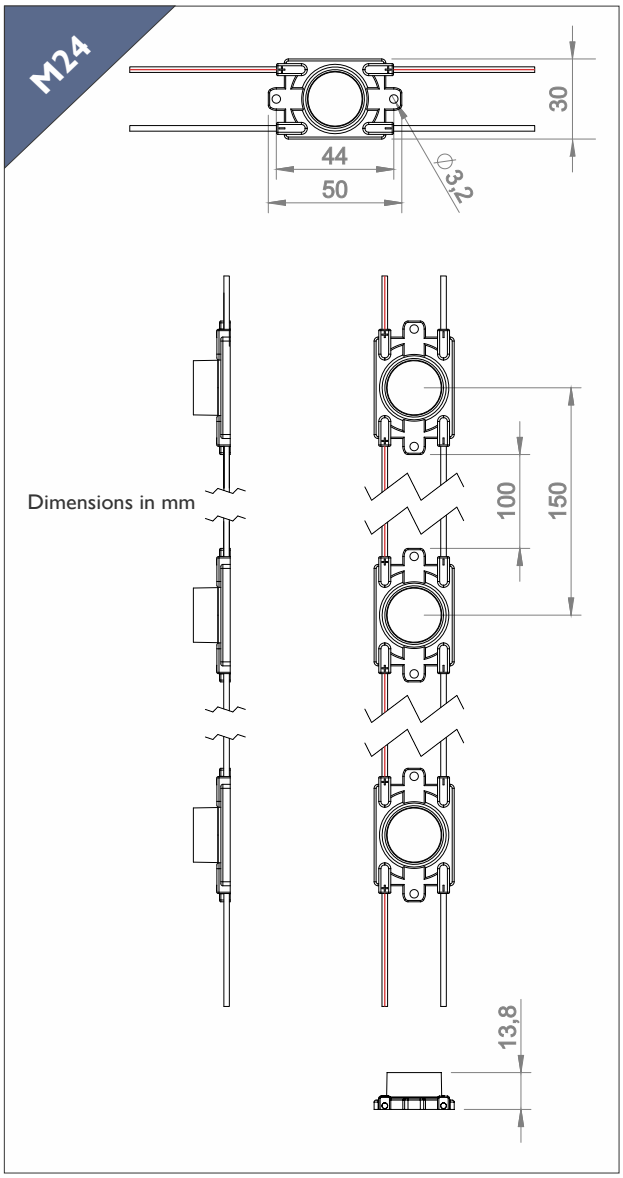
Light span*: up to 1200mm, max. 1500mm,

Depending on the subject,

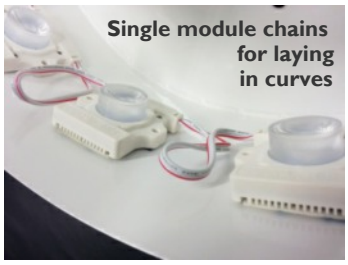
at 80mm spacing and box depth 100mm

*** Distance between two opposite edges**

NB: LED PLACEMENT IS ALONG BOTH LONGEST EDGES



Technical Data	ED-IP-M24-01W65K150
Application	Edge mounted Lighting
System	flexible LED-Chain
Colour	White 6,500°K, Warmwhite 3,000°K
LED Type	SMD3030
Luminous flux	245 Lumen
Light beam angle	19 x 32°
Connection type	12V DC, Parallel Constant current regulation
PCB	Aluminium
Module Power	2.4W
Current	200mA
Lifespan @25°45%rF	25,000h
Protection	IP65
Control options	dimming and switching
Fixing	Self adhesive pads, holes for screw fixing
Operating temperatures	-25°C to +55°C
Storage temperatures	-25°C to +70°C
Dimensions (LxBxH)	50 x 30 x 13.8mm
Module spacing (Centre/Centre)	variable, 55 to max.150mm
Cable length (Module to Module)	100mm
Cutting points	each Module
Pack quantity (VE)	50 pcs
Max. no. per circuit branch	25pcs



Name	Colour	Lumen output	
ED-LED M24	White 6500K	245 lumens	

All data given is approximate, we reserve the right to make technical changes

MODULES FOR FRAME AND LIGHT BOX

Suitable for light boxes from depths:

Single faced > 90 - 200mm

Double faced > 120 - 300mm

Module spacing: Box depth x 0.85

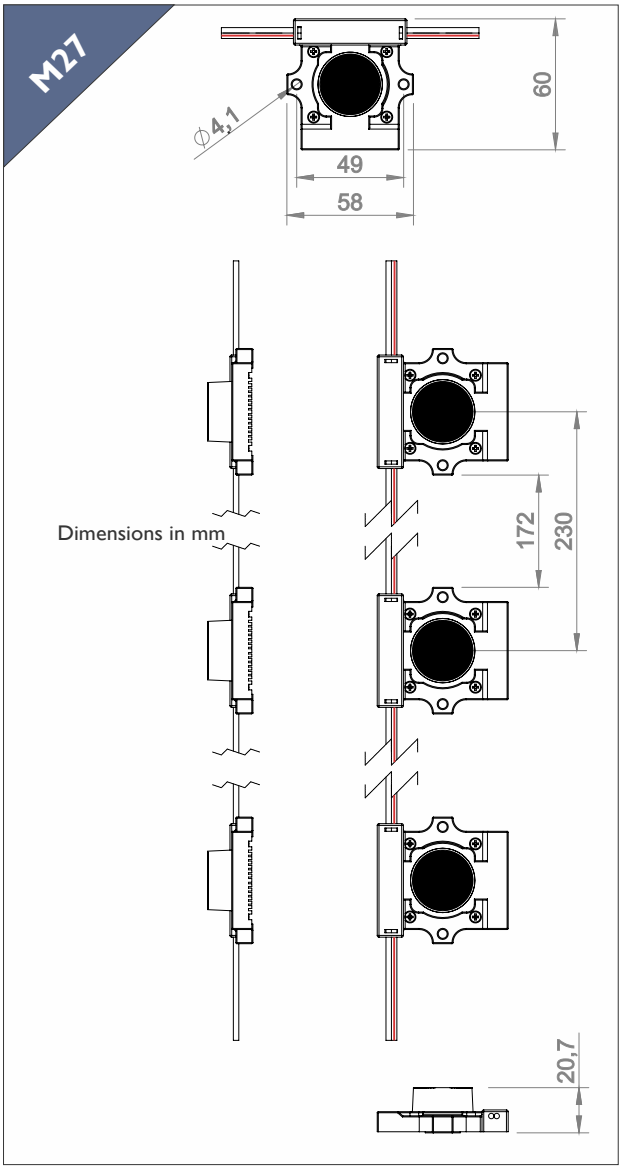
Light span*: up to 2000mm, max. 2500mm,

Depending on the subject, at

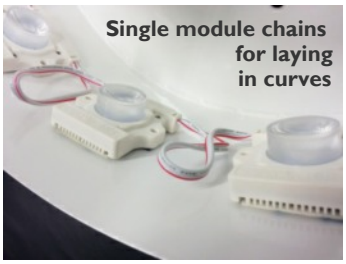
90mm spacing and box depth 120mm

*** Distance between two opposite edges**

NB: LED PLACEMENT IS ALONG BOTH LONGEST EDGES



Technical Data	ED-IP-M27-01W69K230
Application	Edge mounted lighting
System type	flexible LED-Chain
Colour	White 6,900°K
LEDType	SMD3535
Luminous Flux	310 Lumen
Light beam angle	12 x 40°
Connection type	12V DC, Parallel Constant current regulation
PCB	Aluminium
Module Power	2.7W
Current	225mA
Lifespan @25°45%rF	35,000h
Protection	IP65
Control options	dimming and switching
Fixing	Self adhesive pads, Holes for screw fixing
Operating temperature	-25°C to +55°C
Storage temperature	-25°C to +70°C
Dimensions (LxBxH)	60 x 58 x 22mm
Module spacing (Centre/Centre)	variable, 70 to max.230mm
Cable length (Module to Module)	178mm
Cutting points	each Module
Pack qty Module (VE)	15 pcs
Max. No. of modules per circuit branch	15 pcs



Name	Colour	Lumen output	
ED-LED M27	White 6390K	310 lumens	

All data given is approximate, we reserve the right to make technical changes

MODULES FOR FRAME AND LIGHT BOX

Suitable for light boxes from depths:

Single Faced > 90mm

Double Faced > 120mm

Box depth: 90-200mm, single faced

120-300mm, double faced

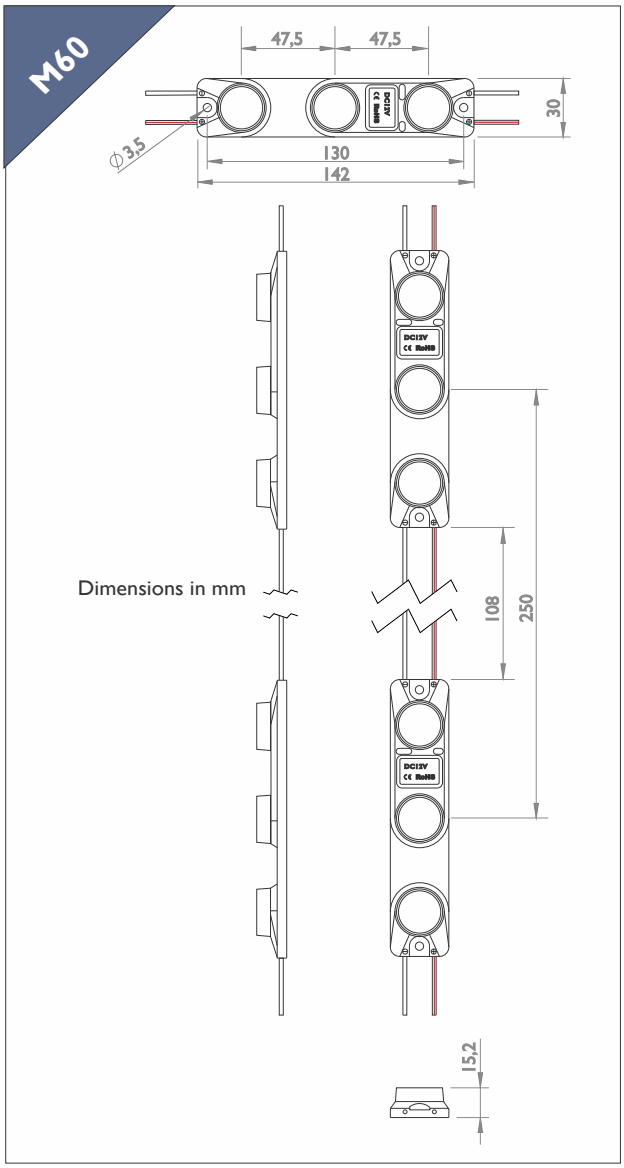
Module spacing: Box depth x 1,25

Light span*: up to 2,500mm, max. 3,000mm,

Depending on the subject at 150mm spacing and depth 120mm

*** Distance between two opposite edges**

NB: LED PLACEMENT IS ALONG BOTH LONGEST EDGES



Technical Data	ED-IP-M60-03W63K250
Application	Edge mounted lighting
System	flexible LED-chain
Colour	White 6,500°K
LED Type	SMD3535
Luminous flux	780 Lumen
Light beam angle	10 x 40°
Connection type	12V DC, Parallel Constant current regulation
PCB	Aluminium
Module power	6,5W
Current	540mA
Lifespan @25°45%rF	35,000h
Protection	IP65
Control options	dimming and flashing
Mounting methods	Self adhesive pads, Holes for screw fixing
Operating temperature	-25°C to +55°C
Storage temperature	-25°C to +70°C
Dimensions (LxBxH)	142 x 30 x 15,2mm
Module spacing (centre to centre)	variable, 150 to max. 250mm
Cable length between modules	108mm
Cutting point	each module
Pack quantity	20 pcs:
Max number per circuit branch	10 pcs.

Example brightness - luminance measurement
Lightbox double sided - fabric covering

Length	=	2000 mm
Depth	=	120 mm
Assembly	=	6 Module/Meter 2 sides
Luminance	=	ca. 380 cd/m²

Name	Colour	Lumen output	
ED-LED M60	White 6500K	780 lumens	

All data given is approximate, we reserve the right to make technical changes

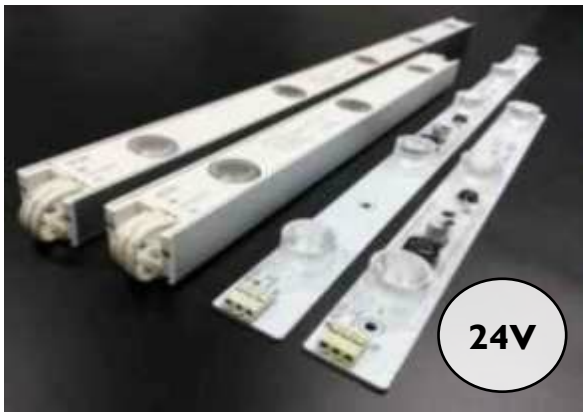
ED LED Linear light source

For wall wash applications

Short Description
The ED-LED linear light source is a rigid strip light fitted with 3W high power EDISON LEDs

The LEDs are fitted with a 10 x 40 degree angle lense which focuses the light to a line.

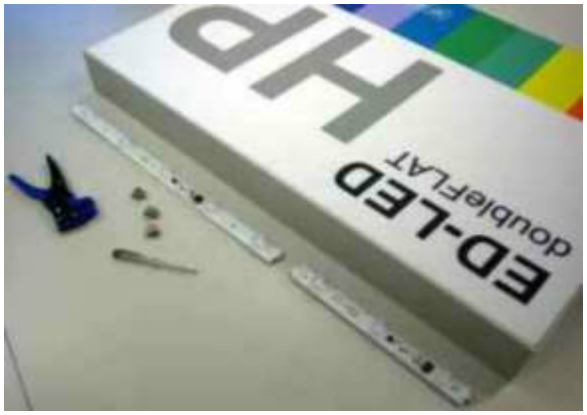
The linear light is a board with either 3 LEDs @ 323 mm long or 5 LEDs @543 mm long
Optional protection to IP00 or IP65.
Average distance between the LEDs is 110 mm.



Application
The ED-LED range, can be used in architectural applications for wall wash etc.

For wall wash applications, the unit is mounted horizontally to a wall illuminating the vertical area above or below. The wall reflects the light, giving the impression of a luminous surface.

The linear light source range are also used to illuminate both single and double sided light boxes. Normally mounted along the longest edges facing each other to give the shortest distance between light sources.



Compared to direct illumination methods, this is a cost effective solution and can be used to cover up to 200 cm. For distances approaching 200 cm a fall in light at the centre should be expected and this is also affected by the subject and material used.

Technical
The LED linear lamp range operate at constant voltage 24 v DC.

The wide range of ballasts we supply, offer great advantage over operation with power drivers.

Constant current supply to the LED is ensured by the fitting of control chips internally on the boards.

Several units (up to 80 W) can be connected (in parallel) at once.

Mounting
The units feature 3.5 mm holes that can be used to mount them with screw or rivet.

The IP00 version should be mounted to a good thermally conductive surface to aid cooling.

The IP65 version, due to it's aluminium extrusion has adequate cooling built in.

The use of tape is not recommended to fix the IP00 version as it prevents heat transfer to the mounting substrate. If a heat transfer compound is available it should be used.

Colours
White 6000K is standard on this range, but warmer whites are available by Request.

Also R G B

Dimming and Switching
A built in dimming control allows for simple dimming operation using a 5 V PWM control voltage.

Name	Colour	Lumen output	
ED-LED LINEAR	White 6000K	323 - 543 lumens	

All data given is approximate, we reserve the right to make technical changes

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All data given is approximate, we reserve the right to make technical changes

Embedding of LEDs – The dos and do nots for a quality result

Embedding LEDs is sometimes considered a bit of a black art, not in so much with the actual physical work in doing it, but with the thought and preparation that is required to achieve a great outcome. An outcome that pleases both you and your customer.

There are many things that can go wrong with the embedding process, from start to finish, so the better the preparation the less likely that problems will occur.

With the knowledge that has been built up with our suppliers of both the LEDs and suitable resins, together with input from long term users we have put together a list of procedures that should hopefully give you a great result.

We will assume at this point that you have already chosen your preferred LED for the job in hand. If it is one of our products, either Hansen or Neon Products then you are already on the right track.

Steps in the process -

1- Determine what area you intend to illuminate, face, sides halo etc. Further information is available on LED placement if needed. Please request from us.

2- Machine suitable slots for the LEDs as required. Generally this should be around 2-3 mm wider than the dimensions of the LED to allow for easy placement. This also allows for addition of cables where LED lines have to double back to another area of the part.
Making the groove tight may encourage the use of excess or ill applied pressure to move the LED into the exact required position.

3- Thoroughly clean the slots from any residues from the machining process using isopropyl alcohol.

4- Once the LEDs are in place switch on to test that circuits and LED are all working correctly. Allow to cool completely before carrying out any further processing.

IMPORTANT

If using the Hansen LEDs do not connect or disconnect the LEDs from the driver with power connected.
We know that with 12 and 24V systems people will tend to leave the driver live and connect the LEDS by just touching wires to test. No real problem at those voltages, but the Hansen LEDs are series connected at higher voltages and the driver does not like being powered up without LEDs connected.

5- Follow the resin manufacturers recommendations on pot life of the material being used, also curing times and temperatures. We recommend that all operations should be carried out at temperatures between 18° and 26° C Preferably warming all materials including the work piece before any resin pouring is carried out.

All data given is approximate, we reserve the right to make technical changes

Embedding of LEDs – The dos and do nots for a quality result

6- Filling with resin. There are a number of things to be observed in this part of the process.
   1- Ensure that you fully follow the mix ratios, some are by weight and some by volume.
   2- These must be closely and accurately followed as incorrect mixing can lead to discolouration of the resin.
   3- DO NOT ADD EXTRA HARDENER. Adding extra hardener neither makes it set harder or faster, but leads to discolouration as the hardener that is not fully chemically reacted will absorb moisture.
   4- When mixing the resin do not try to mix over enthusiastically as this will introduce air into the material which is not good and hard to get rid of, unless you can vacuum the material before applying it.
   Make sure that the material is thoroughly stirred, not forgetting the corners at the bottom of the pot.

7- Preferred method for installing the LEDs is to pour resin into the groove (up to around 1/3rd of the depth before inserting the LEDs. This is to ensure that the resin is under the LED as well as over it to give full encapsulation. We recommend the Peters Wepuran as it is the lowest viscosity material available and therefore easier to remove air and flow freely around the LED.

8- Pour the resin carefully into the LED groove and immediately check for air bubbles. These can become trapped under the LEDs and should be removed as much as possible. Sometimes small bubbles in the mix can be removed by dragging a hot flame, from a small butane burner, along and just above the surface. This causes the surface tension to change and will often release small bubbles. Allow the resin to set according to the manufacturers recommendations. Keeping the product level.

9- Do not switch on the LEDs for at least 48 hours, preferably 72 hours. This is important as it allows the resin to fully cure. If the full curing time is not observed, when the LEDs are switched on they can cause localised hot spots which can cause the resin to cure locally to the LED and lead to a loss of adhesion as the resin cures and shrinkage occurs. This can cause the resin to pull away from the surface of the LED over a period of days or even weeks which can cause a colour shift local to the area of the offending LEDs.

10- Resin when used correctly for embedding LEDs will normally cause the colour to shift up to as much as 2000k in the warmer direction of white. If the resin pulls away from the LED during the curing process the LED will revert to it's original kelvin range. As it not possible to secure a fixed pull off of the resin from the LED it must be allowed to fully cure and remain adhered to the LED surface.

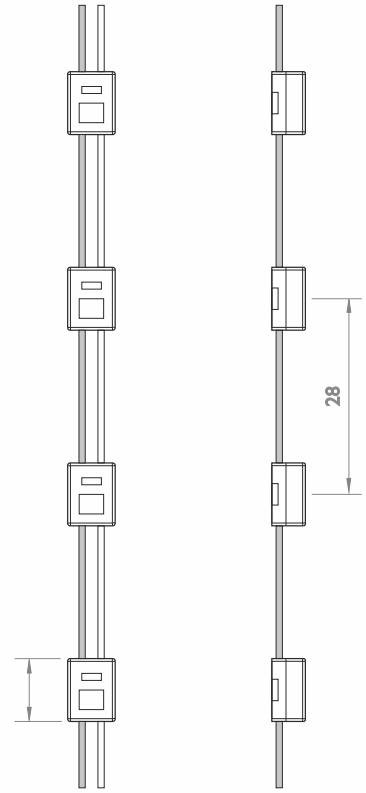
All data given is approximate, we reserve the right to make technical changes

LEDS for Embedding

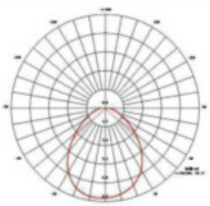
NEW

- Extremely small design
- Suitable for solid acrylic letters embedded
- No colour shift due to air bubbles when embedding
- Small to medium profile letters in protected areas
- Up to 28 mm grid
- Standard whites 6500k and 4000k
- CE, RoHS

PICO



Dimensions in mm

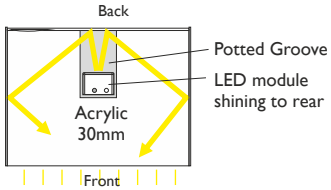


Radiation characteristics

12V DC CE RoHS PWM CONSTANT VOLTAGE CONTROL IP65

Technical Data	PICO-IP-01W65K28
System type	Flexible LED chain
Application	Full acrylic letters as well as small to medium profile letters in protected outdoor areas
Colour	White 6500K / 4000K
LED Type	1 x SMD 2835
Luminence	White 6500° Kelvin 20 Lumen
Circuit type	12V DC, Parallel
Expected life @ 25° 45% rF	35.000h
Control options	Dim and flash
Operating temp range	-25°C to +60°C
Storage temp range	-25°C to +70°C
Dimensions (L x B x H)	9.0 x 6.8 x 4.8mm
Cable length module to module	19mm, AWG18, UI1007
Cutting possible	Each module
Max modules per branch	100.
Beam angle	120°
Module centres	variable, max. 28mm
Number of modules	100.
Power	0,2W
Power consumption	17mA,
Protection	IP65
Mounting	3M tape 3M9080A

Example: **Front lighting**



- 30mm Solid acrylic
- Rear groove for LED modules
- The groove can be filled with a transparent potting compound
- Back and sides covered with completely opaque white

Name	Colour	Lumen output	
PICO-W65K	White 6500K	20 lumens	
PICO-40K	White 4000K	18 Lumens	

All data given is approximate, we reserve the right to make technical changes

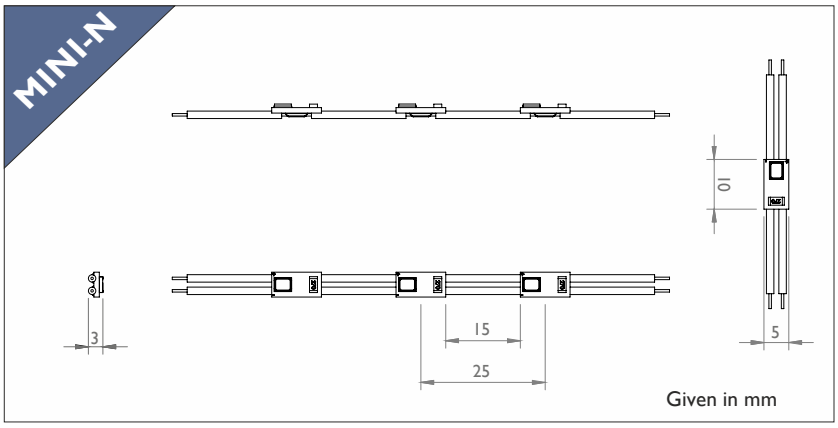
LEDS for Embedding

- ultra compact format
- very bright
- constant voltage control
- for embedding
- for narrow stroke widths
- bare circuit board
- rigid bendable cables
- SMD Technology
- Patent licensed LED
- Life expectancy 5,000h
- CE, RoHS

Technical Data	NA-01W63K25
System	flexible LED Module Chain
Colour	White 6300°K, Warm White 4000°K,
LED Type	1x SMD 2835
Luminous flux Weiss 6500° Kelvin	20 Lumen
Beam angle	120°
Circuit type	12V DC, Parallel
Module power	0.20 W
Current	16.7 mA
Life @ 25° 45% rF	25,000 h
Protection	IP 00
Control options	dimming and switching
Mounting	for embedding only
Operating temperature range	-20°C > +40°C
Storage temperature range	-25°C > +60°C
Dimensions (LxBxH)	10 x 6.5 x 3.7 mm
Module spacing (Centre/Centre)	variable, max. 25 mm
Cable length (Module to Module)	15 mm
LED Spacing	25 mm
Pack quantity - Modules (VE)	2 x 50 pcs. on a roll
Cutting points	every module
Max. no. of module per branch circuit	50 pcs.

Bend radius, avoid sharp bending:

Check potting compound for suitability and follow processing instructions!



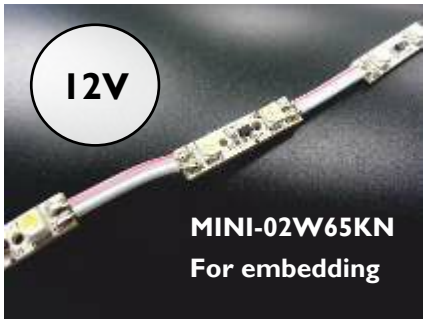
Name	Colour	Lumen output	
MINI 01 65K NAKED	White 6300K	25 lumens	
MINI 01 40K NAKED	White 3000K	25 Lumens	

All data given is approximate, we reserve the right to make technical changes

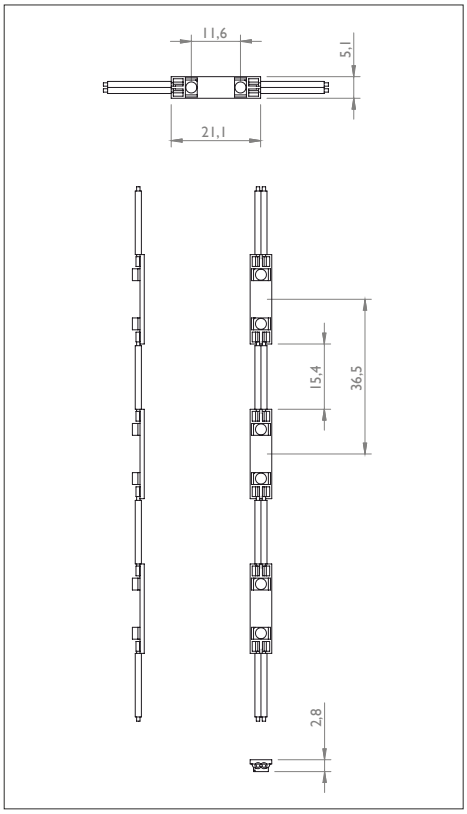
LEDS for Embedding

MINI NAKED RANGE 02 IP00 FOR EMBEDDING

Suitable for solid acrylic letters/narrow profiles



- Ultra compact design
- Very bright
- Constant current regulation
- Max pitch 36.5 mm
- Open boards
- SMD Technology
- Patent licensed LED technology
- Life 30,000h
- Can be cut at every module



System type	Flexible LED chain
LED Type	2 x 1 chip SMD 3528
Colours	White 6500k Other colours on request
Luminous flux White 6500 k	14 lumen
Angle	120°
Switching type	12v DC parallel
Module output	0.3W
Current	25mA
Life @ 25° 45% rF	25,000 hours
Environment Protection	Ip00
Control Option	Dimming Flashing
Mounting	Suitable for potting
Operating temperature range	-25°C to +60°C
Storage temperature range	-25°C to +70°C
Dimensions	21 x 5.1 x 2.8 mm
Module Pitch	Variable max 36.5 mm
LED grid	11.6mm
Number of modules	50 pieces
Cut possibilities	1 module
Maximum modules per branch circuit	50
Cable length between modules	16mm

Name	Colour	Lumen output	
MINI 02 65K NAKED	**White 6500K**	**14 lumens**	
MINI 02 30K NAKED	**White 3000K**	**14 Lumens**	
MINI 02 R NAKED	**RED**	**-**	

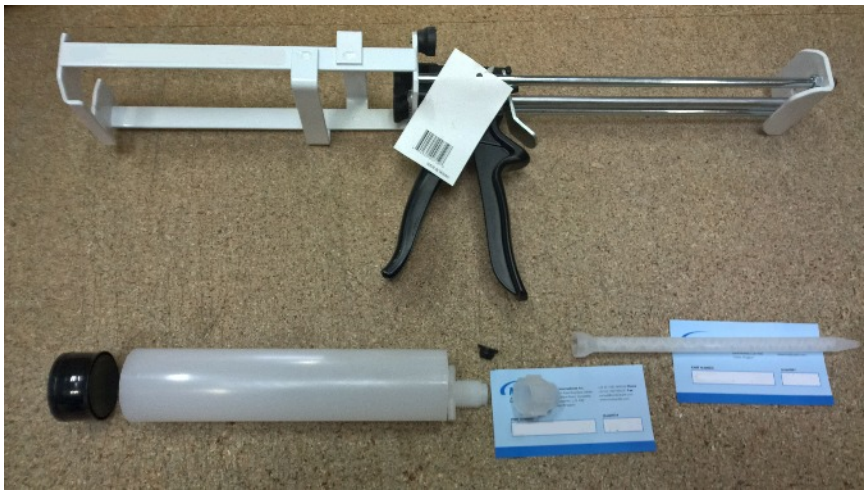
All data given is approximate, we reserve the right to make technical changes

Embedding equipment and resins.

All the extra bits required to make life simpler

Gun, mixing nozzles, cartridges and pistons.

2 part ultra clear resin for best light transmission



Part No	Description	Notes
0LED-GUN	Application gun for resins 300ml twin	Can be used for either of the bulk resin packs below
0LED-CART300-1:1	300ML twin cartridge	Can be used for either of the bulk resin packs below
0LED-MIX18ELTURB	Turbomix nozzle for 300ml cartridge	Can be used for either of the bulk resin packs below
0LED-PIST200V	Ventilated piston for 300ml cartridge (buy in pairs)	Can be used for either of the bulk resin packs below
Bulk casting resins		
0LED-WEP-A-1KG	Casting resin part A (resin) 1kg	Purchased as a pair mixed 1:1
0LED-WEP-B-1KG	Casting resin part B (hardener) 1kg	
0LED-RES-KIT-10KG	Casting resin kit 10kg	Kit with part A resin and part B hardener (5kg each) 10kg total
0LED-RES-KIT-2KG	Casting resin 2kg kit	Kit with part A resin and part B hardener (1kg each) 2kg total
Small production or test/sample kit		
0LED-50ML-GUN	Application gun for 50ml cartridge	To be used with resin below
0LED-RES-CART-50ML	50ml cartridge of resin	Comes complete with mixing nozzle for use with 50ml gun

Part No	Description		
0LED-GUN	**300ml Applicator Gun**		
0LED-CART300-1:1	**300ml twin**		
0LED-MIX18ELTURB	**Turbomix nozzle**		
0LED-PIST200V	**Ventilated piston**		
0LED-WEP-A-1KG	**Wepuran resin**		
0LED-WEP-B-1KG	**Wepuran resin**		
0LED-RES-KIT-10KG	**STS 10kg kit**		
0LED-RES-KIT-2KG	**STS 2kg kit**		
0LED-GUN-50ML	**50ml cartridge gun**		
0LED-RES-CART-50ML	**Resin sampler**		

All data given is approximate, we reserve the right to make technical changes

UHQF-72LED-7.2W series

Professional LED strip LED 12V, 7.2W/m, tape intended for bending / bending

• Applications:
- *Curve line lighting*
- *Freeze lighting*
- *Light bar applications*

•Features:
- *Tape specially profiled for bending and bending*
- *Two layers 2oz thickness FPC(Flexible Printed Circuit)*
- *Can be cut every 4cm segment(3 LEDs in segment)*
- *Each segment with couple pads for secondary operation*
- *Enhanced 2835 LEDs*
- *Easy installation with 3M adhesive tape*

• MODEL ENCODING

HQS	**- 72 LED**	**- 7.2W**	**- X**
Series	-		- **WW** Warm white colour
			- **NW** Neutral white colour

ELECTRICAL SPECIFICATION

MODEL	**UHQF-72LED-7.2W-NW**	**UHQF-72LED-7.2W-WW**
Chip	2835	
Supply voltage	12V ± 0.5VDC	
Current and Power per 1m	25mA; 7.2W	
Current and Power per 5m	2.5A; 36W	
CCT (Correlated Colour Temperature) - rated	4500K	3200K
CCT (Correlated Colour Temperature) - range	4000K ÷ 5000K	3000K ÷ 3400K
Luminous Flux per meter and per watt	680lm ÷ 864lm / m	
Maximum length for one sided supply	5m	
IP protection degree	IP33	
Working temperature	-25°C ÷ +50°C	
Storage temperature	-25°C ÷ +65°C	
LED Qty (per meter)	72 pcs	
Cut Section	40mm	
Connection wire	2xAWG20(0.52mm^2) stranded wire, length = 140mm;V+: red;V-: black	
Dimensions (L * W * H)	5000 x 6 x 1.2mm	
Packing	5m/roll(bag); 36pcs/ctn; ctn dimensions: 45x45x25.6cm	

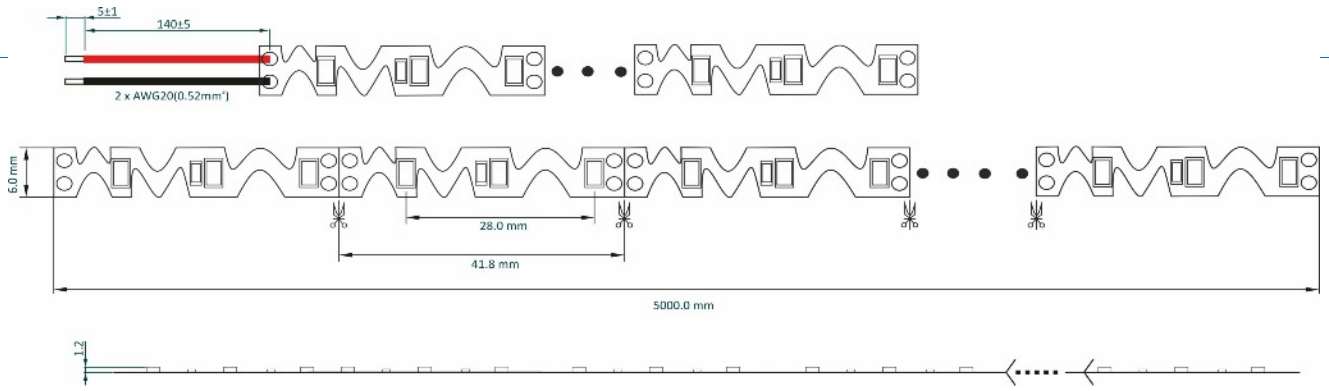
Name	Colour	Lumen output	
ZIG 40K	White 4000K	730 lumen/m	

All data given is approximate, we reserve the right to make technical changes

UHQF-72LED-7.2W series

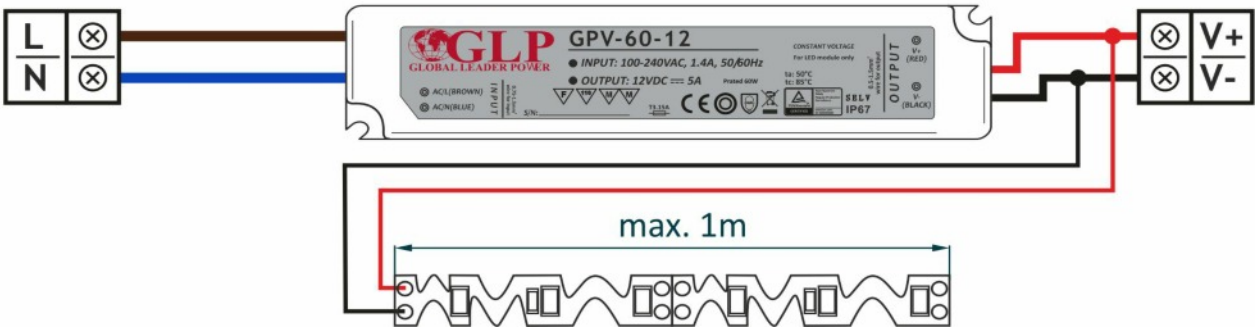
Professional LED strip LED 12V, 7.2W/m, tape intended for bending / bending

MECHANICAL SPECIFICATION

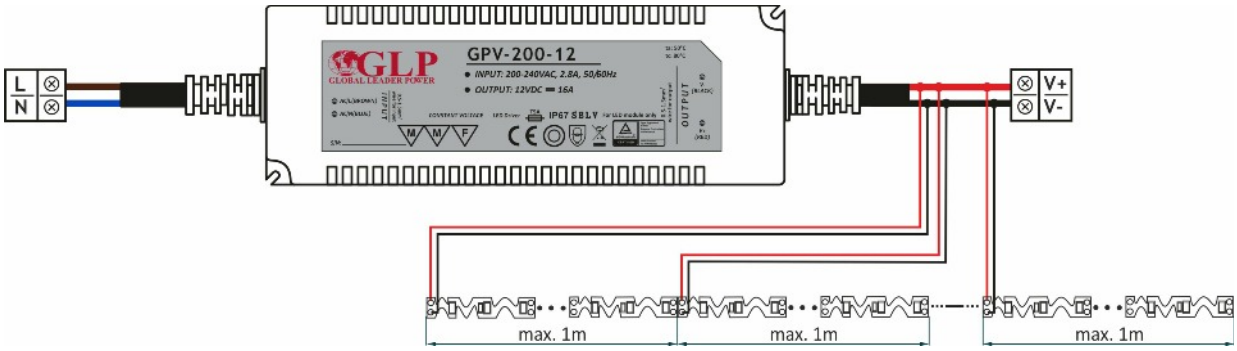


Connection

• Strip length < 5m



• Strip length > 5m



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Sign-Tec Services - Product List - 2021
ZIG ZAG

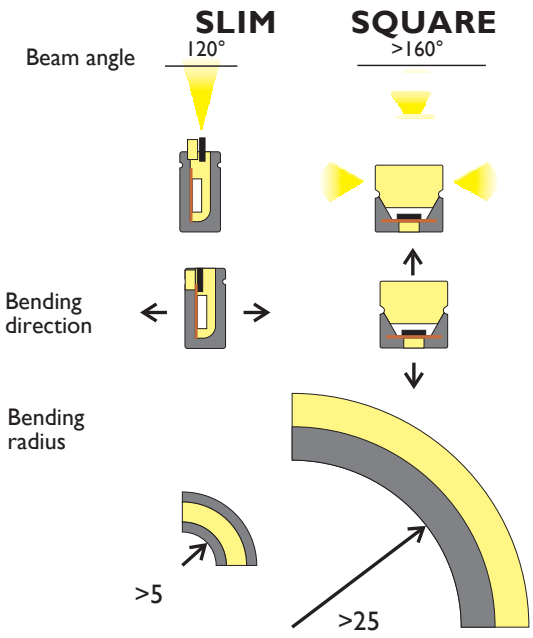
LED - Mini-Flex

NEW

Mini-Flex.
An all new product from NP lighting. IP65 rated, very small and flexible. It has a range of possible uses, both indoor and outdoor
All 24V 7.2W per metre
Available in White, 3,000, 4,000 and 6,500k.
Red Green and Blue

New Mini-Flex Slim.
With a bend radius of just 5mm, great outlines can be achieved.
Very good for discreet colour lines, can be set into furniture cabinets etc.
Cross section of 6 x 12mm
Up to 30m in one piece

New Mini-Flex Square.
With a bend radius of just 25mm, contours are easy to follow.
Very good for discreet colour lines, can be set into furniture cabinets etc.
Cross section of 10 x 10mm
Up to 20m in one piece



Part No	Description	
MINIFLEX SLIM	White 6500	
MINIFLEX SLIM	Red/Blue/Green	
CONNECTION CAP	SLIIM VESION	
END CAP	SLIM VERSION	
MOUNT SLIM	EXTRUSION 1M	
MINIFLEX SQUARE	White 6500	
MINIFLEX SQUARE	Red/Blue/Green	
CONNECTION CAP	SQUARE VERSION	
END CAP	SQUARE VERSION	
MOUNT SQUARE	EXTRUSION 1M	
CONNECTION CABLE	ALL VERSION	

All data given is approximate, we reserve the right to make technical changes

NP LED FLEXTUBE

LED - Flextube FT-R RED GREEN BLUE RGB

LED - Flextube, closely approaches classic neon looks and colours and offers many possibilities for architectural, accent and art lighting designs.

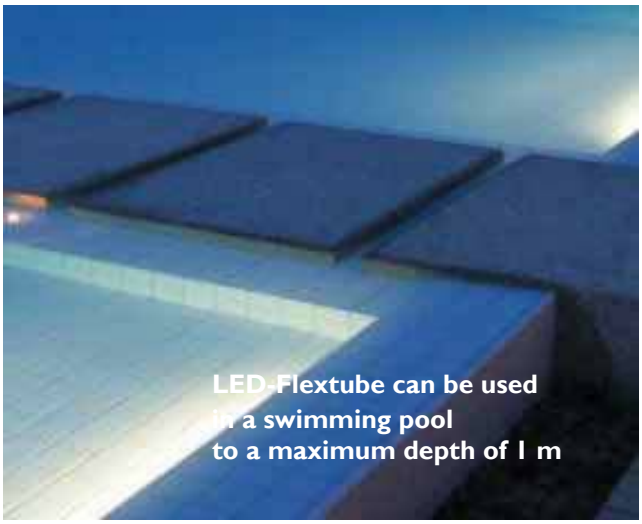
With the mushroom shaped PVC dome, there is a viewing angle of 270° and a beam angle of 160° which gives a 3D effect.

Building outlines, light sculptures, shop and window dressing, light guidelines, bridge lighting, etc. are only some of the applications possible.

This can be used in up to 20 metre lengths without undesirable effect on the light. (Powered both ends)

Through a specially developed interface sealing to IP68 is achieved ensuring safe use for external applications.

Also available as a back bending type in flat profile



General Technical data

System	LED FLEXTUBE
Colours	White, Warm White, Red, Green, Blue, RGB
Casing	PVC UV Stabilised, Ivory, white or coloured
LED Type	3 Chip SMD 5050
LED Qty	60 per metre
Maximum Length	20 M fed both sides 10 M fed single side
Illumination angle	270 °
Power	24 V DC Parallel
Life expectancy @ 25° 45% r.F.	50,000 hours
Protection class	IP68
Operation options	Dimming and Flashing
Attachment	With aluminium profile
Operating temperature range	-20° to + 45° C
Dimensions (cross sectional)	11.5 x 29 mm
Min bend radius	> 6 cm
Packaging	1 roll = 20 metres

Part No	Description	
3L-FT-R-IP-24RGB	RGB Domed Opal/Metre	
RGB POWER END CAP	RGB 1 Metre Cable	
RGB END CAP	RGB Blank End Snap Type	
3L-FT-R-IP-24R72	Red Domed Opal/Metre	
3L-FT-R-IP-24B72	Blue Domed Opal/Metre	
RED/BLUE POWER ENDCAP	Red/Blue 1 Metre Cable	
RED/BLUE ENDCAP	Red Blank End Snap Type	
ASSEMBLY RGB/RED/BLUE	Cut And Assemble To Length	
MOUNTING PROFILE	1 Metre RGB and RED/Blue	

Other colours and options available to order

All data given is approximate, we reserve the right to make technical changes

Flex-tube - Product Range

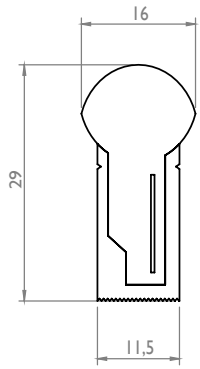
Due to the scope of this product it is generally only available to order.
However as we have stockists that have different requirements around Europe, some types are available on short delivery times. RGB is often in stock here in the UK.
Connection fittings and mountings are additional as this is a tailored product. See bottom of page for detail.

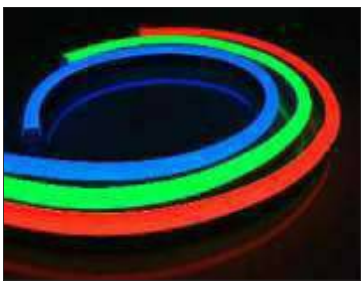
Your requirements can be supplied cut to length and with connections ready to install (Note cut possibilities).

Article-No.	Colour	Sheath colour	Cutting possibility	Output Luminous flux
FT-R-IP-24W57KT	White 5700K	Ivory White	Every 6 Led or every 100 mm	12 W/m ca. 400 lm/m
FT-R-IP-24W27KT	Warm white 2700K	Ivory White	Every 6 LED or every 100 mm	12 W/m ca. 380 lm/m
FT-R-IP-24R	Red	Ivory White	Every 10 LED or every 167 mm	7.2 W/m k.A.
FT-R-IP-24O	Orange	Ivory White	Every 10 LED or every 167 mm	7.2 W/m k.A.
FT-R-IP-24A	Amber	Ivory White	Every 10 LED or every 167 mm	7.2 w/m k.A.
FT-R-IP-24G	Green	Ivory White	Every 6 LED or every 100 mm	12 W/m k.A.
FT-R-IP-24B	Blue	Ivory White	Every 6 LED or every 84 mm	12 W/m k.A.
FT-R-IP-24RGB	RGB	Ivory White	Every 6 LED or every 100 mm	12 W/m k.A.
FT-R-IP-24RE	Red	Red	Every 10 LED or every 167 mm	7.2 W/m ca. 60 lm/m
FT-R-IP-24GE	Green	Green	Every 6 LED or every 100 mm	12 W/m ca. 180 lm/m
FT-R-IP-24BE	Blue	Blue	Every 6 LED or every 100 mm	12 W/m ca. 12 lm/m
FT-R-IP-24A	Yellow	Yellow	Every 6 LED or every 100 mm	12 W/m ca. 200 lm/m

Type R Mushroom Shape
Viewing angle 270°
Light 160°

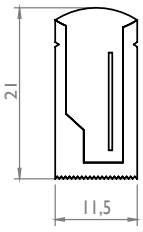
R



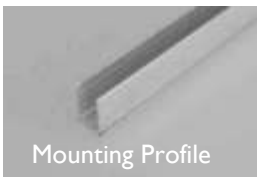


Type F - Flat head
For inlay as for instance in floor or stair joints.
This product is not listed but can be offered

F



Connectors and accessories



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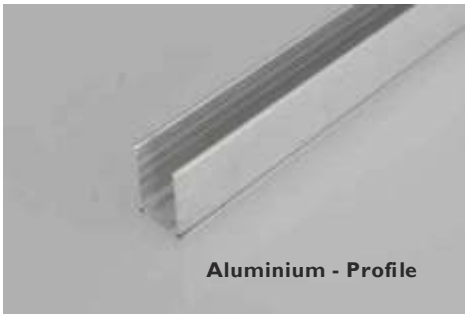
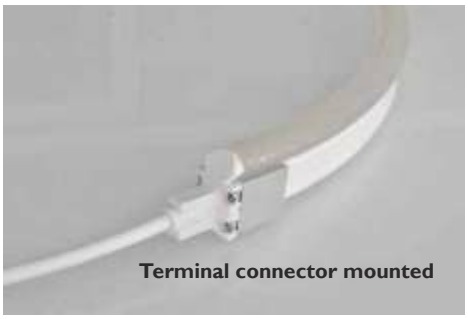
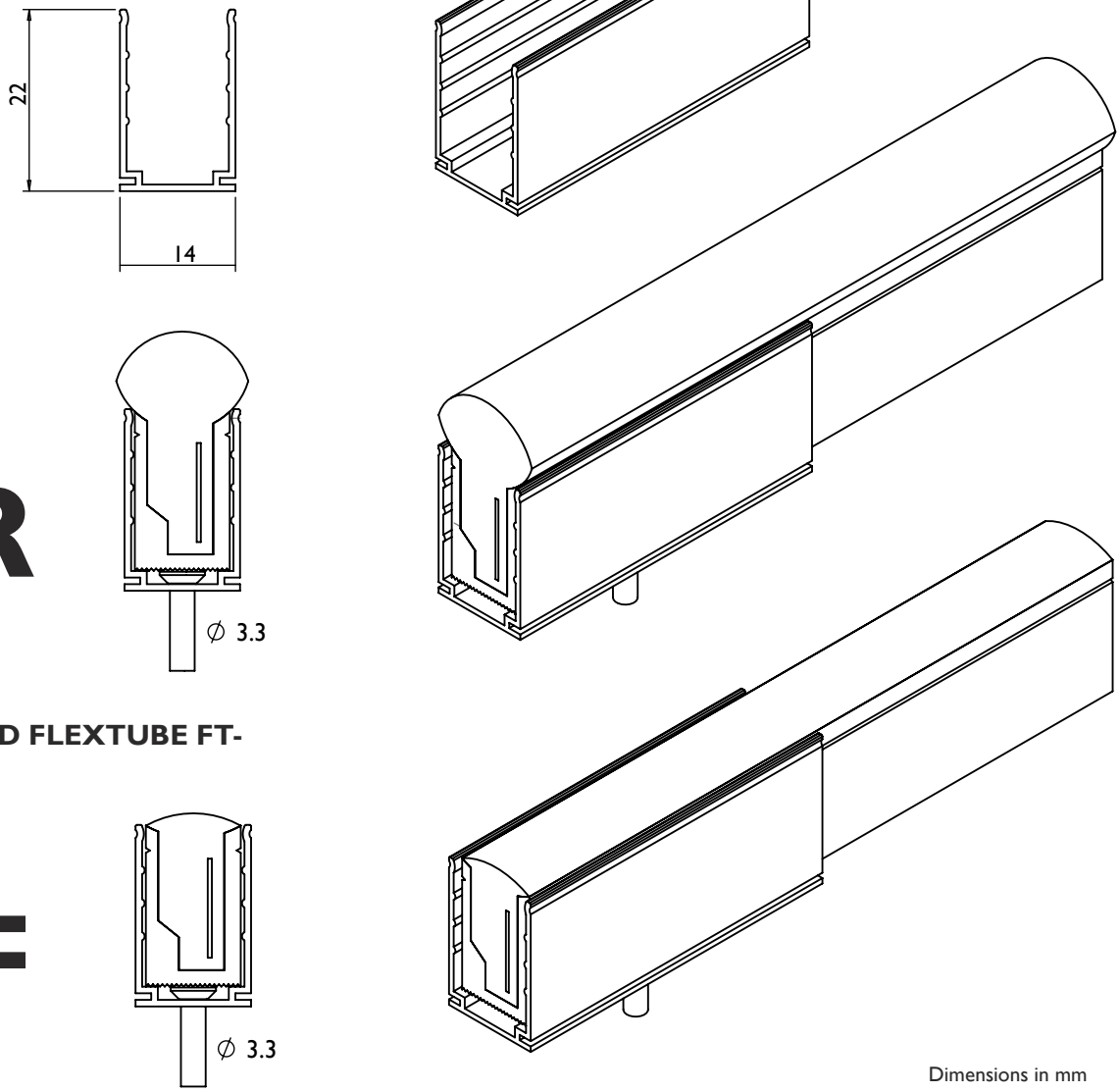
LED - Flextube FT-R







Dimensions in mm

All data given is approximate, we reserve the right to make technical changes

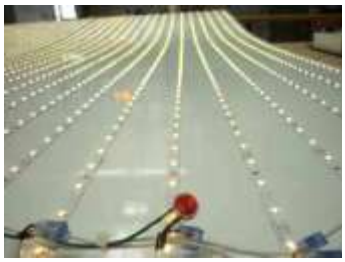
Sign-Tec Services - Product List - 2021

NP FLEXTUBE

NP LED FLEXSTRIP

LED Flexstrip

These are strips of LEDs on a roll. long runs in straight lines are quickly and easily achieved. Whilst not intended for curves. they can be achieved using short straight pieces.
The strips are ideal for using to accentuate long straight edges or as a light source for buildings or defining architectural contours.



LED - Flextube, closely approaches classic neon looks and colours and offers many possibilities for architectural, accent and art lighting designs.
With the mushroom shaped PVC dome, there is a viewing angle of 270° and a beam angle of 160° which gives a 3D effect.
Building outlines, light sculptures, shop and window dressing, light guidelines, bridge lighting, etc. are only some of the applications possible.

This can be used in up to 20 metre lengths without undesirable effect on the light.
Through a specially developed interface, sealing to IP68 is achievable ensuring safe use for external applications.
Available in various colour options and RGB

All data given is approximate, we reserve the right to make technical changes

NP LED FLEXSTRIP

Quick Description
The LED FLEXSTRIP products are flexible LED strip fitted with various options of TOP-LED SMD 3528.TOPLED, SMD 5050 or Side LED SMD 3806.
The number of LEDs per metre can be 30. 60 or 120, (for the LED Type SMD 5050 maximum is 60 LED/m). The strips are open (IP00) but can also be supplied as IP64 or IP67 for outdoor use.
The strips are supplied in 5 metre lengths on rolls. The beginning of the strip has a short length of cable. Cut lengths to 5 m can be supplied on request.

Technical
The strips run at constant 12 v dc and can be cut at every 3 LEDs.
Recommended maximum strip as one piece is 5 metres.
All versions can be dimmed and flashed .
We have a number of different controller options available.

Mounting
Both the IP 00 and IP 67 versions are backed with 3M tape for easy and secure mounting.
The IP 67 rated version also has a mechanical mounting method using a silicon clamp type arrangement.
IP67 rated versions must be fitted with a silicon endcap and silicon after cutting, to ensure the ongoing IP rating.

Options
All strips in this series can be supplied as follows -
White 3500 and 6000 Kelvin
Red
Green
Blue
There is also an RGB version.

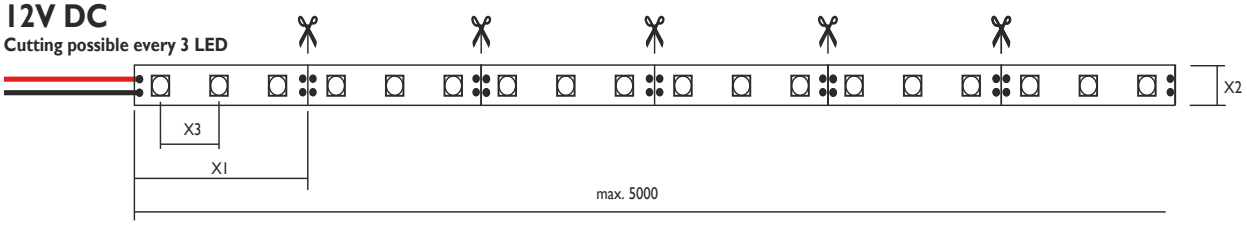
Application
Due to the close spacing of the LEDs on the strips they can be used very effectively in shallow light boxes.
Also very good for highlighting curves and creating halo and background type lighting effects in coving and other architectural features.

All data given is approximate, we reserve the right to make technical changes

NP LED FLEXSTRIP

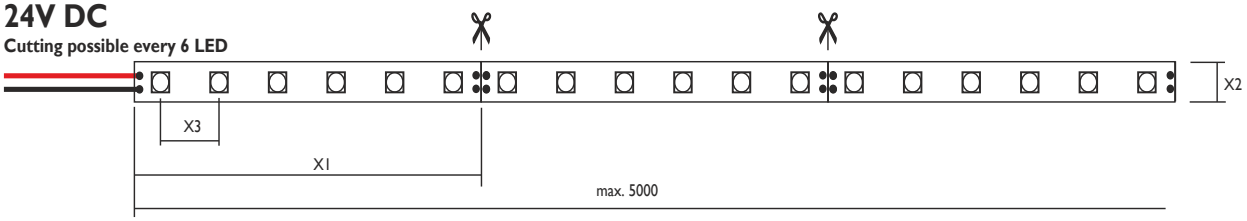
12V DC

Cutting possible every 3 LED

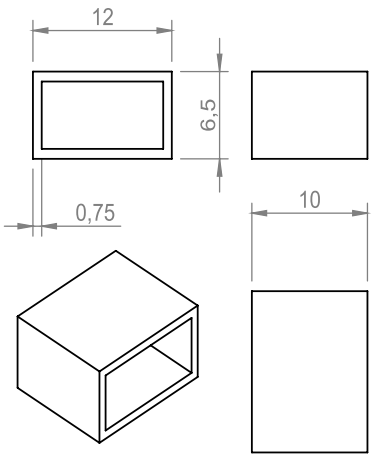


24V DC

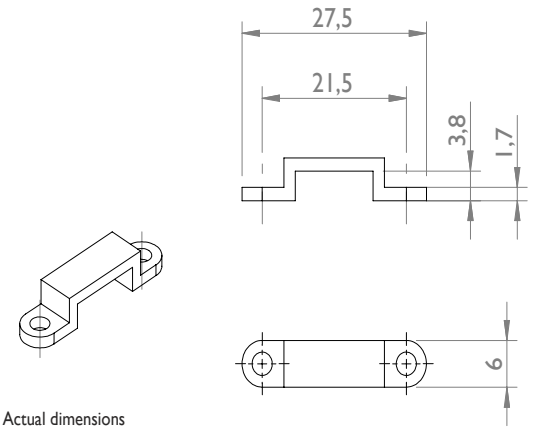
Cutting possible every 6 LED



Dimensions are shown in the tables



Actual dimensions
Can vary depending on product choice

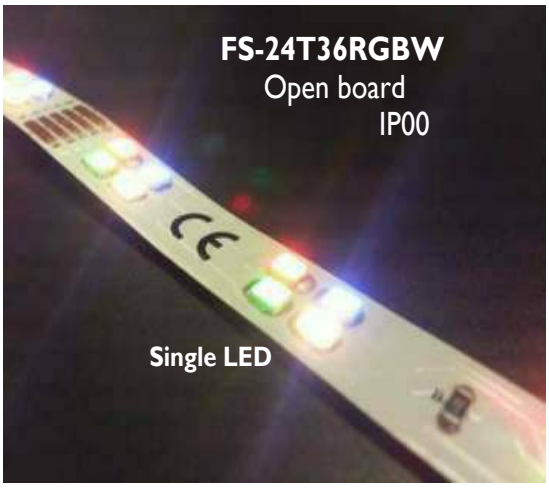


Actual dimensions
Can vary depending on product choice

Data shown is approximate, we reserve the right to make technical modifications.

All data given is approximate, we reserve the right to make technical changes

NP LED FLEXSTRIP



LED FLEXSTRIP RGBW

The RGB LED strip consists of 4 LEDs grouped with individual LEDs in red green blue and white type SMD2835

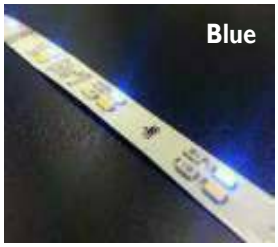
This method of construction gives pure white plus improved and stable colours.
In addition the efficiency and luminous flux is greatly increased over previous versions.

Clear uniform white reproduction

Stable, even colours through better selection
High Luminous flux
Efficiency approaching 100 lumen/Watt

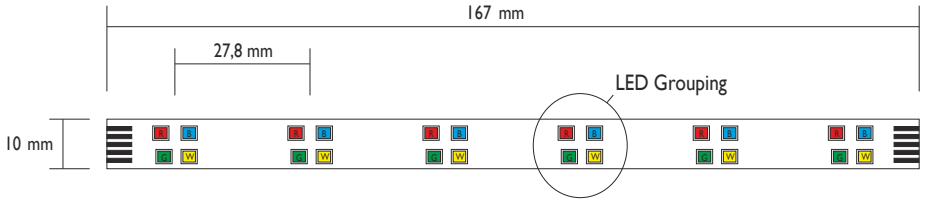
General Specifications

System Type	LED Flexstrip
Power Consumption	12W / m
Light type	RGB
	Red 630 nm
	Green 520 nm
	Blue 470 nm
	Warm white
Luminous flux	Red 80 lm/m
	Green 130 lm/m
	Blue 30lm/m
	White 350 lm/m
Efficiency	100lm/W per metre for white
LED type	SMD 2835
Number of LED	144 LED per metre or
	36 RGBW groups per metre
Distance (groups) centre to centre	27.8 mm
Cutablity	Every 167 mm
Maximum operation length	5 m
Beam angle	120°
Protection rating	IP 00
	IP 65 in silicone sleeve
Control options	Dimming and Flashing
Fixing	Using 3M adhesive tape or
	Mounting bracket
Operating temperature	-25° C to + 60° C
Storage temperature	-25° C to + 70° C
Dimensions IP 00 W x H	10 x 1.5 mm
Dimensions IP 65 W x H	12.5 x 4.5 mm**
Supply multiple	1Roll = 5m



** Please note the silicone sleeve for IP 65 slightly alters the light colour

Description
IP00-Variant = FS-24T36RGBW
IP65-Variant = FS-IPT-



Data shown is approximate, we reserve the right to make technical modifications.

All data given is approximate, we reserve the right to make technical changes

NP Lighting Gruppe
Light years ahead!

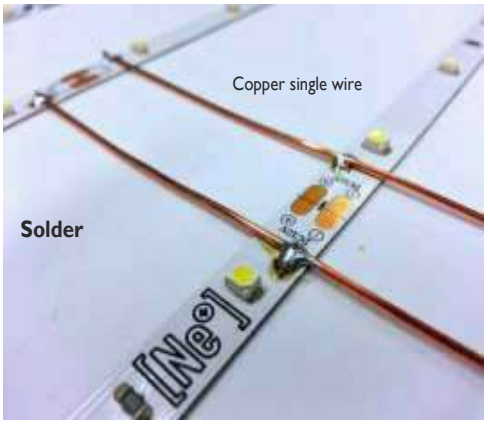
NP LED FLEXSTRIP

12 V DC

(24V DC on request)

The LED strips are IP00 suitable for indoor use and fixed with 3M tape.
THE strips are also available with IP67 rating, suitable for indoor or outdoor use and can be fixed with screw or rivet.

LED strips with IP64 (touch and moisture) are also available for indoor and outdoor use.
Fitted with TOPLED 3528



Large solder pads

Backlighting of light boxes with LED strip, an inexpensive solution but labour input is relatively high compared to other solutions

On previous units the small solder pads made good connection difficult even for skilled operators when soldering new connections.

The new bigger size solder pads on the TOP LED SMD 3528 and 5050 with up to 60 LED per metre, (up to 6 times as much soldering over previous versions!) mean that even the less skilled can achieve a good secure solder joint.

LED Beam angle= 120° / white PCB / Strip length 5 m = 1 Roll

Article- No.	Protection	LED /M	LED Distance	Cutting possiblilty	Dimension	Power Consumption	Luminous Flux	Light colour		Supply	Pad	Extra Pad
FS-CL-12T60W65KS	IP00	60/m	16,5mm	50mm	6x2,5mm	4,8 W/m	195 lm/m	white 6500K	W65	5m roll	-	-
FS-CL-12T120W65KS	IP00	120/m	8,3mm	25mm	6x2,5mm	8,0 W/m	195 lm/m	white 6500K	W65	2m roll	-	-
FS-CL-12T30W30K	IP00	30/m	33,3mm	100mm	8x2,5mm	2,4 W/m	180 lm/m	white 3000K	W30	5m Roll	X	X
FS-CL-12T30W65K							195 lm/m	white 6500	W65			
FS-CL-12T60W30K	IP00	60/m	16,6mm	50mm	8x2,5mm	4,8 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-CL-12T60W65K							390 lm/m	white 6500	W65			
FS-CL-12T60R							N.A.	red	R			
FS-CL-12T60G							N.A.	green	G			
FS-CL-12T60B							N.A.	blue	B			
FS-CL-12T120W30K	IP00	120/m	8,3mm	25mm	8x2,5mm	9,6 W/m	720 lm/m	white 3000	W30	5m Roll	-	-
FS-CL-12T120W65K							780 lm/m	white 6500	W65			
FS-IPK-CL-12T30W30K	IP64	30/m	33,3mm	100mm	10x4,5mm	2,4 W/m	180 lm/m	white 3000K	W30	5m Roll	X	X
FS-IPK-CL-12T30W65K							195 lm/m	white 6500	W65			
FS-IPK-CL-12T60W30K	IP64	60/m	16,6mm	50mm	10x4,5mm	4,8 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-IPK-CL-12T60W65K							390 lm/m	white 6500	W65			
FS-IPK-CL-12T120W30K	IP64	120/m	8,3mm	25mm	10x4,5mm	9,6 W/m	720 lm/	white 3000	W30	5m Roll	-	-
FS-IPK- CL-12T120W65K							780 lm/m	white 6500	W65			
FS-IPS-CL-12T30W30K	IP67	30/m	33,3mm	100mm	10x4,5mm	2,4 W/m	180 lm/m	white 3000	W30	5m Roll	X	X
FS-IPS-CL-12T30W65K							195 lm/m	white6500	W65			
FS-IPS-CL-12T60W30K	IP67	60/m	16,6mm	50mm	10x4,5mm	4,8 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-IPS-CL-12T60W65K							390 lm/m	white 6500	W65			
FS-IPS-CL-12T60R							N.A.	red	R			
FS-IPS-CL-12T60G							N.A.	green	G			
FS-IPS-CL-12T60B							N.A.	blue	B			
FS-IPS-CL-12T120W30K	IP67	120/m	8,3mm	25mm	10x4,5mm	9,6 W/m	720 lm/m	white 3000	W30	5m Roll	-	-
FS-IPS-CL-12T120W65K							780 lm/m	white 6500	W65			
FS-IPS-CL-12T120R							N.A.	Red	R			
FS-IPS-CL-12T120G							N.A.	green	G			
FS-IPS-CL-12T120B							N.A.	blue	B			

Data shown is approximate, we reserve the right to make technical modifications.

All data given is approximate, we reserve the right to make technical changes

NP LED FLEXSTRIP

12 V DC
(24V DC on request)

TOPLED SMD 5050

The LED strips are IP00 suitable for indoor use and fixed with 3M tape.
THE strips are also available with IP67 rating, suitable for indoor or outdoor use and can be fixed with screw or rivet.

LED strips with IP64 (touch and moisture) are also available for indoor and outdoor use. Fitted with TOPLED

LED Beam angle = 120° / white PCB

Article - No.	Rating	LED / M	LED Spacing	Cut point	Dimensions	Output	Luminous flux	Light colour		Supply	Pad	Extra Pad
FS-HI-12T16W65KC	IP00	16/m	62mm	62mm	10x2,5mm	3,6 W/m	208 lm/m	white 6500	W65	5 M Roll	X	-
FS-HI-12T30W30KC	IP00	30/m	33,3mm	100mm	10x2,5mm	7,2 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-HI-12T30W65KC							390 lm/m	white 6500	W65			
FS-HI-12T30RGB							N.A.	RGB	RGB		-	-
FS-HI-12T60W30KC	IP00	60/m	16,6mm	50mm	10x2,5mm	14,4 W/m	720 lm/m	white 3000	W30	5m Roll	X	-
FS-HI-12T60W65KC							780 lm/m	white 6500	W65			
FS-HI-12T60RGB							N.A.	RGB	RGB		-	-
FS-IPK-HI-12T30W30KC	IP64	30/m	33,3mm	100mm	10x4,5mm	7,2 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-IPK-HI-12T30W65KC							390 lm/m	white 6500	W65			
FS-IPK-HI-12T30RGB							N.A.	RGB	RGB		-	-
FS-IPK-HI-12T60W30KC	IP64	60/m	16,6mm	50mm	10x4,5mm	14,4 W/m	720 lm/m	white 3000	W30	5m Roll	X	-
FS-IPK-HI-12T60W65KC							780 lm/	white 6500	W65			
FS-IPK-HI-12T60RGB							N.A.	RGB	RGB		-	-
FS-IPS-HI-12T30W30KC	IP67	30/m	33,3mm	100mm	12,5x5mm	7,2 W/m	360 lm/m	white 3000	W30	5m Roll	X	-
FS-IPS-HI-12T30W65KC							390 lm/m	white 6500	W65			
FS-IPS-HI-12T30RGB							N.A.	RGB	RGB		-	-
FS-IPS-HI-12T60W30KC	IP67	60/m	16,6mm	50mm	12,5x5mm	14,4 W/m	720 lm/	white 3000K	W30	5m Roll	X	-
FS-IPS-HI-12T60W65KC							800 lm/m	white 6500K	W65			
FS-IPS-HI-12T60RGB							N.A.	RGB	RGB		-	-

Flexible LED Strips 12 V DC
(24V DC on request)

Side LED SMD 0335

The LED strip is IP00 suitable for indoor use and secured using 3M tape
The IP65 LED strip is suitable for indoor and outdoor use in rectangular silicone case. Holders and endcaps are included in the package.

LED Beam angle = 120° / white PCB / Strip length 5 m = 1 Roll

Article - Nr.	Rating	LED / M	LED distance	Cut point	Dimensions	Power consumption	Luminous flux	Light colour		supply	Pad	Extra Pad
FS-CL-12S60W65K	IP00	60/m	16,6mm	50mm	6x1,5mm	4,8 W/m	200 lm/m	white 6500	W65	5 M roll	-	-
FS-IPT-CL-12S60W65K	IP65	60/m	16,6mm	50mm	9x3,5mm	4,8 W/m	200 lm/	white 6500	W65	5 M roll	-	-

Part No	IP Rating	Colour	Watts/m	LEDs/m	Lumen/m	
3LED-FS-CL-12T60W65K	IP00	W6500K	6	60	550	
3LED-FS-IPS-CL-12T60W65K	IP67	W6500K	4.8	60	390	
3LED-FS-IPS-HI-12T30W65	IP67	W6500K	7.2	30	390	
3LED-FS-IPS-HI-12T60W65	IP67	W6500K	14.4	60	780	
3LED-FS-CL-12T60R	IP00	RED	4.8	60	NA	
3LED-FS-IPS-CL-12T60R	IP67	RED	4.8	60	NA	
3LED-FS-IPS-CL-12T60G	IP67	GREEN	4.8	60	NA	
3LED-FS-IPS-CL-12T60B	IP67	BLUE	4.8	60	NA	
3LED-FS-IPS-HI-12T30B	IP67	BLUE	7.2	30	NA	
3LED-FS-IPS-HI-12T30RGB	IP67	RGB	7.2	30	NA	
3LED-FS-HI-12T30RGB	IP00	RGB	7.2	30	NA	

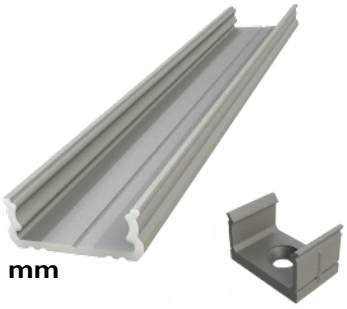
All data given is approximate, we reserve the right to make technical changes

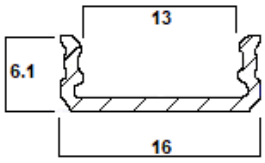
GLALU GLOBAL LEADER ALUMINIUM

Surface profile

AL12-GLS1

Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **surface tiles**
LED strip width: **up to 12 mm**
Available lengths:
1000mm, 2020mm, 3000mm, 4150 mm

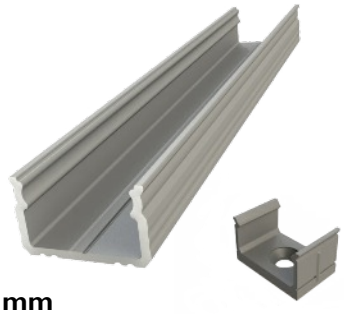


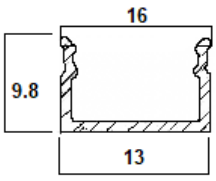


AL12-GLS-MB01-p (plastic)
AL12-GLS-MB03-m (metal)

AL12-GLS2

Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **surface tiles**
LED strip width: **up to 12 mm**
Available lengths:
1000mm, 2020mm, 3000mm, 4150 mm

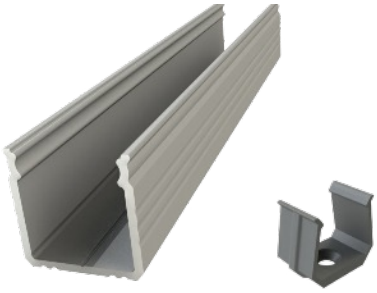


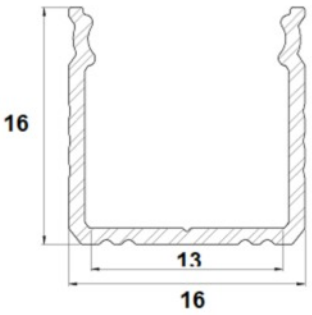


AL12-GLS-MB01-p (plastic)
AL12-GLS-MB03-m (metal)

AL12-GLS3

Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **surface tiles**
LED strip width: **up to 12 mm**
Available lengths:
1000mm, 2020mm, 3000mm, 4150 mm



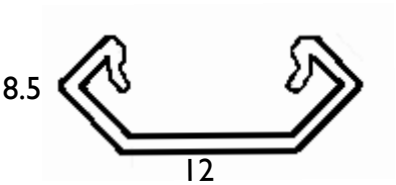


AL12-GLS-MB01-p (plastic)
AL12-GLS-MB-m (metal)

Corner profile

AL12-GLC1

Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **standard corner**
LED strip width: **up to 12 mm**
Available lengths:
1000mm, 2020mm, 3000mm, 4150 mm



AL12-GLC-MB02-p (plastic)

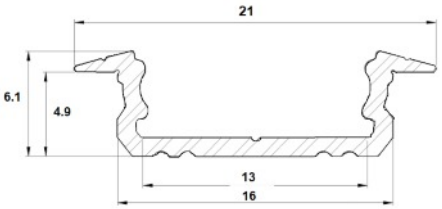
All data given is approximate, we reserve the right to make technical changes

Groove profile

GLALU GLOBAL LEADER ALUMINIUM

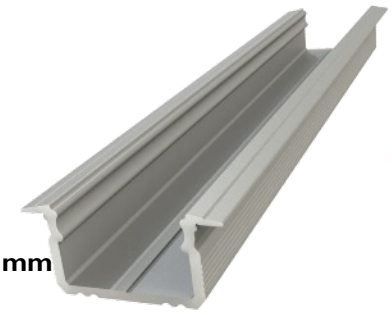
AL12-GLG1

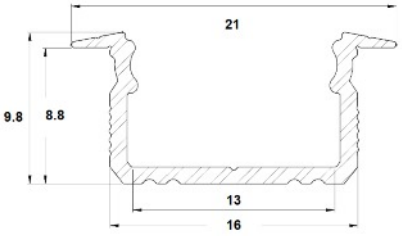
Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **grove tiles**
LED strip width: **up to 12 mm**
Additional lengths
1000mm, 2020mm, 3000mm, 4150 mm



AL12-GLG2

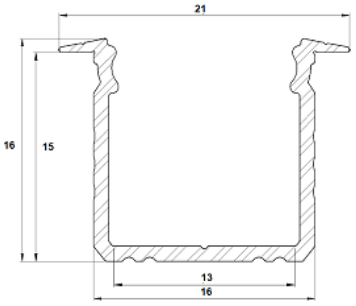
Available colours silver,white, black
Material: **anodized aluminium**
Application: **grove tiles**
LED strip width: **up to 12 mm**
Additional lengths:
1000mm, 2020mm, 3000mm, 4150 mm





AL12-GLG3

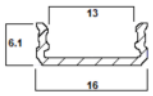
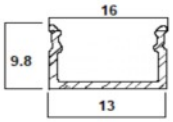
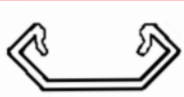
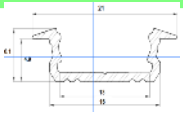
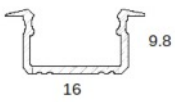
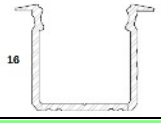
Available colours: **silver,white, black**
Material: **anodized aluminium**
Application: **grove tiles**
LED strip width: **up to 12 mm**
Additional lengths:
1000mm, 2020mm, 3000mm, 4150 mm



SEE NEXT PAGE FOR PRICING

All data given is approximate, we reserve the right to make technical changes

Profiles

Part No	Profile Shape		Dimensions W x H mm		Strip size Up to	
AL12-GLS1			16 x 6.1		> 12mm	
AL12-GLS-MB01-p		Plastic clip				
AL12-GLS-MB03-m		Metal clip				
AL12-GLS2			16 x 9.8		> 12mm	
AL12-GLS-MB01-P		Plastic clip				
AL12-GLS-MB03-M		Metal clip				
AL12-GLS3			16 x 16		> 12mm	
AL12-GLS-MB01-p		Plastic clip				
AL12-GLS-MB03-p		Metal Clip				
AL12-GLC1			12 x 8.5		> 12mm	
AL12-GLC-MB02-p		Plastic clip				
AL12-GLG1			16 x 6.1		> 12mm	
AL12-GLG2			16 x 9.8		> 12mm	
AL12-GLG3			16 x 16		> 12mm	

All data given is approximate, we reserve the right to make technical changes

Extrusion End Caps

AL12-GLS1-AS-EC(grey)
Colours: **grey, black, white**
Models:
AL12-GLS1-AB-EC (black)
AL12-GLS1-LW-EC (white)

AL12-GLS2-AS-EC(grey)
Colours: **grey, black, white**
Models:
AL12-GLS2-AB-EC (black)
AL12-GLS2-LW-EC (white)

AL12-GLS3-AS-EC(grey)
Colours: **grey, black, white**
Models:
AL12-GLS3-AB-EC (black)
AL12-GLS3-LW-EC (white)

AL12-GLS1-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLS1-AB-EC-O (black)
AL12-GLS1-LW-EC-O (white)

AL12-GLS2-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLS2-AB-EC-O (black)
AL12-GLS2-LW-EC-O (white)

AL12-GLS3-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLS3-AB-EC-O (black)
AL12-GLS3-LW-EC-O (white)

AL12-GLC1-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLS1-AB-EC-O (black)
AL12-GLS1-LW-EC-O (white)

AL12-GLC1-AS-EC(grey)
Colours: **grey, black, white**
Models:
AL12-GLS1-AB-EC (black)
AL12-GLS1-LW-EC (white)

AL12-GLG1-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLG1-AB-EC-O (black)
AL12-GLG1-LW-EC-O (white)

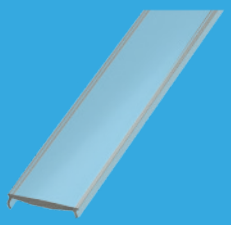
AL12-GLG2-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLG2-AB-EC-O (black)
AL12-GLG2-LW-EC-O (white)

AL12-GLG3-AS-EC-O(grey)
Colours: **grey, black, white**
Models:
AL12-GLG3-AB-EC-O (black)
AL12-GLG3-LW-EC-O (white)

Profile covers

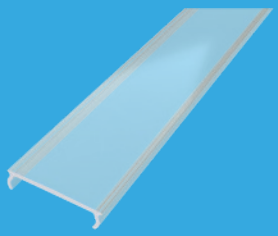
Professional
Milk PC with light scattering

Professional
Frost PC



Professional
Transparent PC

Milk PCV



Transparent PCV

All data given is approximate, we reserve the right to make technical changes

MW FLEXSTRIP

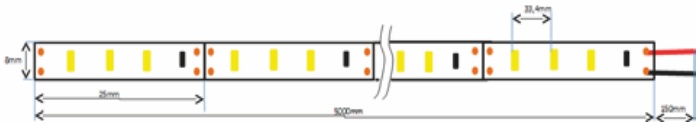
HQS series

FEATURES

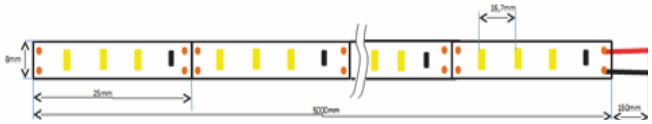
- Two layers 2oz thickness FPC (Flexible Printed Circuit)
- Can be cut every segment 2.5cm (9.6W), 5cm (6W, 12W)
- Each segment with couple pads for secondary operation
- Enhanced 2835 LEDs
- Easy installation with 3M adhesive tape

12/24 VDC | >70 CRI[RA] | 120° | 2 years warranty | CE | RoHS

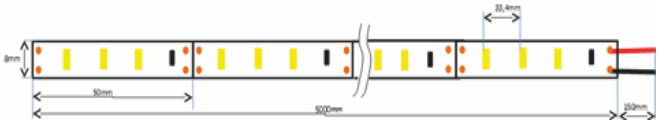
HQS-2835-6W-X | HQS-2835-6W-X-WP



HQS-2835-9.6W-X | HQS-2835-9.6W-X-WP



HQS-2835-12W-X | HQS-2835-12W-X-WP



Model	LED type	Power	Colour temp	Luminous flux	Width	IP		
HQS-2835-6W-CW	60 x 2835	6W	~9,000K	480-510 lm/m	8mm	33		
HQS-2835-6W-W			~6,500K			33		
HQS-2835-6W-NW			~4,500K			33		
HQS-2835-6W-WW			~3,000K			33		
HQS-2835-9.6W-CW	120 x 2835	9.6W	~9,000K	840-1020 lm/m	8mm	33		
HQS-2835-9.6W-W			~6,500K			33		
HQS-2835-9.6W-NW			~4,500K			33		
HQS-2835-9.6W-WW			~3,000K			33		
HQS-2835-12W-CW	60 x 2835	12W	~9,000K	1020-1260 lm/m	10mm	33		
HQS-2835-12W-W			~6,500K			33		
HQS-2835-12W-NW			~4,500K			33		
HQS-2835-12W-WW			~3,000K			33		
HQS-2835-6W-CW-WP	60 x 2835	6W	~9,000K	480-510 lm/m	8mm		64	
HQS-2835-6W-W-WP			~6,500K				64	
HQS-2835-6W-NW-WP			~4,500K				64	
HQS-2835-6W-WW-WP			~3,000K				64	
HQS-2835-9.6W-CW-WP	120 x 2835	9.6W	~9,000K	840-1020 lm/m	8mm		64	
HQS-2835-9.6W-W-WP			~6,500K				64	
HQS-2835-9.6W-NW-WP			~4,500K				64	
HQS-2835-9.6W-WW-WP			~3,000K				64	
HQS-2835-12W-CW-WP	60 x 2835	12W	~9,000K	1020-1260 lm/m	10mm		64	
HQS-2835-12W-W-WP			~6,500K				64	
HQS-2835-12W-NW-WP			~4,500K				64	
HQS-2835-12W-WW-WP			~3,000K				64	

All data given is approximate, we reserve the right to make technical changes

UHQH series

MW FLEXSTRIP

UHQH-2014 UP to 308LED/M

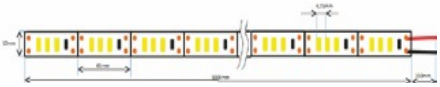
UP TO 308LED

PER METRE

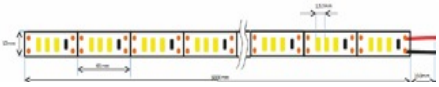
FEATURES

- High-quality 2014 SMD LED, highly reliable
- ERP system, good colour uniformity
- Extremely high LEDs density - up to 308LED/m
- Anti-oxidation by silver for bonding pad
- Simple and elegant
- Guaranteeing high quality
- 3 years warranty or 13,000 hours, whichever comes first

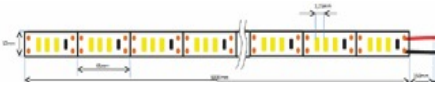
UHQH-210LED-16W-



UHQH-280LED-21W-C90-S3



UHQH-308LED-23W-C90-S3



Model	LED type	Power	Colour temp	Luminous flux	Width	IP
UHQH-210LED-16W-C90-S3-W-6kK	210 x 2014	15.8W	~6500K	1400lm/m	10mm	IP20
UHQH-210LED-16W-C90-S3-NW-5kK			~5000K	1440lm/m		
UHQH-210LED-16W-C90-S3-NW-4kK			~4000K	1440lm/m		
UHQH-210LED-16W-C90-S3-WW-3kK			~3000K	1325 lm/m		
UHQH-210LED-16W-C90-S3-WW-2k7			~2700K	1295 lm/m		
UHQH-210LED-16W-C90-S3-WW-2k4			~2400K	1265 lm/m		
UHQH-210LED-16W-C90-S3-WW-2k2			~2200K	1180 lm/m		
UHQH-210LED-16W-C90-S3-WW-1k8			~1800K	910 lm/m		

Model	LED type	Power	Colour temp	Luminous flux	Width	IP
UHQH-280LED-21W-C90-S3-W-6kK	280 x 2014	21.0W	~6500K	1830lm/m	10mm	IP20
UHQH-280LED-21W-C90-S3-NW-5kK			~5000K	1890lm/m		
UHQH-280LED-21W-C90-S3-NW-4kK			~4000K	1890lm/m		
UHQH-280LED-21W-C90-S3-WW-3kK			~3000K	1740 lm/m		
UHQH-280LED-21W-C90-S3-WW-2k7			~2700K	1700 lm/m		
UHQH-280LED-21W-C90-S3-WW-2k4			~2400K	1660 lm/m		
UHQH-280LED-21W-C90-S3-WW-2k2			~2200K	1550 lm/m		
UHQH-280LED-21W-C90-S3-WW-1k8			~1800K	1190 lm/m		

Model	LED type	Power	Colour temp	Luminous flux	Width	IP
UHQH-308LED-23W-C90-S3-W-6kK	308 x 2014	23.2W	~6500K	2010lm/m	10mm	IP20
UHQH-308LED-23W-C90-S3-NW-5kK			~5000K	2070lm/m		
UHQH-308LED-23W-C90-S3-NW-4kK			~4000K	2070lm/m		
UHQH-308LED-23W-C90-S3-WW-3kK			~3000K	1900 lm/m		
UHQH-308LED-23W-C90-S3-WW-2k7			~2700K	1860 lm/m		
UHQH-308LED-23W-C90-S3-WW-2k4			~2400K	1820 lm/m		
UHQH-308LED-23W-C90-S3-WW-2k2			~2200K	1700 lm/m		
UHQH-308LED-23W-C90-S3-WW-1k8			~1800K	1300 lm/m		

All data given is approximate, we reserve the right to make technical changes

GPV LED DRIVERS 12V / 24V

For outdoor use

GPV RANGE -

Excellent value all round LED power supply

- **5 year warranty**
- **Very cost effective**
- **12 & 24V versions from stock**
- **Constant voltage**
- **Universal AC input (except 18W version)**
- **100% full load burn in tested**
- **IP67 rated**

Part No	Output Voltage	Rated Current	Rated Power	Dims	
EVG-GPV-18-12 / 24	12V or 24V dc	1.5A / 0.75A	18W / 18W	130 x 25 x 21	
EVG-GPV-35-12 / 24	12V or 24V dc	3.0A / 1.5A	35W / 35W	149 x 32 x 28	
EVG-GPV-60-12 / 24	12V or 24V dc	5.0A / 2,5A	60W / 60W	162 x 42 x 33	
EVG-GPV-100-12 / 24	12V or 24V dc	8.3A / 4.2A	99.6W / 100.8W	187 x 52 x 37	
EVG-GPV-120-12 / 24	12V or 24V dc	10A / 6A	120W / 144W	203 x 70 x 45	
EVG-GPV-150-12 / 24	12V or 24V dc	10.0A / 6.0A	120W / 144W	203 x 70 x 45	
EVG-GPV-200-12 / 24	12V or 24V dc	16.0A / 8.3A	192W / 199.2W	205 x 70 x 45	

MCHQ Constant Voltage 12 & 24Vdc - IP67 - Advanced Range

- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active P FC function
- IP67 design for indoor and outdoor
- Type A Output Voltage and Constant Current adjustable
- Type B Built in 3 way dimming 1-10V PWM or resistance
- Type E Basic version but still with PFC built in

Part No	Output Voltage	Rated current	Rated Power W 12/24V	Dims	
EVG-MCHQ100V__E	12V or 24V dc	8.1A / 4.1A	97W / 99W	190 x 62 x 37	
EVG-MCHQ150V__E	12V or 24V dc	12.5A / 6.3A	150W / 150W	221 x 62 x 37	
EVG-MCHQ200V__E	12V or 24V dc	16.7A / 8.33A	200W / 200W	221 x 62 x 37	
EVG-MCHQ250V__E	12V or 24V dc	18.0A / 10.4A	216W / 250W	226 x 74 x 38	
EVG-MCHQ320V__E	12V or 24V dc	22.0A / 13.0A	320W / 320W	246 x 84 x 42	
Dimmable Version 1-10V					
EVG-MCHQ040V--B	12V dc	3.3A	40W	157 x 53 x 36.5	
EVG-MCHQ060V__B	12V or 24V dc	5.0A / 2.5A	60W / 60W	172 x 53 x 37	
EVG-MCHQ100V__B	12V or 24V dc	8.1A / 4.1A	97W / 99W	190 x 62 x 37	
EVG-MCHQ150V__B	12V or 24V dc	12.5A / 6.3A	150W / 150W	221 x 62 x 37	
EVG-MCHQ185V__B	12V or 24V dc	14.0A / 7.7A	168W / 185W	195 x 74 x 38	
EVG-MCHQ250V__B	12V or 24V dc	18.0A / 10.4A	216W / 250W	226 x 74 x 38	
EVG-MCHQ320V__B	12V or 24V dc	22.0A / 13.0A	320W / 320W	246 x 84 x 42	
EVG-MCHQ600V__B	12V or 24V dc	50.0A / 25.0A	480W / 600W	290 x 124 x 46	
V and A Adjustable					
EVG-MCHQ060V__A	12V or 24V dc	5.0A / 2.5A	60W / 60W	172 x 53 x 37	
EVG-MCHQ100V__A	12V or 24V dc	8.1A/4.1A	97W / 99W	190 x 62 x 37	
EVG-MCHQ150V__A	12V or 24V dc	12.5A/6.3A	150W / 150W	221 x 62 x 37	
EVG-MCHQ185V__A	12V or 24V dc	14.0A/7.7A	185W / 185W	195 x 74 x 38	
EVG-MCHQ250V__A	12V or 24V dc	18.0A/10.4A	216W / 250W	226 x 74 x 38	
EVG-MCHQ320V__A	12V or 24V dc	22.0A/13.0A	320W / 320W	246 x 84 x 42	
EVG-MCHQ600V__A	12V or 24V dc	50.0A/25.0A	480W / 600W	290 x 124 x 46	

All data given is approximate, we reserve the right to make technical changes

ALL DRIVERS ON THIS PAGE ARE SELV TYPE (Separated Extra Low Voltage) - SPECIFICALLY FOR LED USE. BEWARE OTHER TYPES!

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FTMC60/100W-DA series DALI

60/100W /LED Constant voltage Switching Power Supply, DALI and push dimming

Features:

- Constant voltage design
- European AC input range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class I
- Linear shape
- DALI and push dimming function

METAL CASE

METAL CASED

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(Separated Extra Low Voltage) -
SPECIFICALLY FOR LED USE. BEWARE OTHER TYPES!

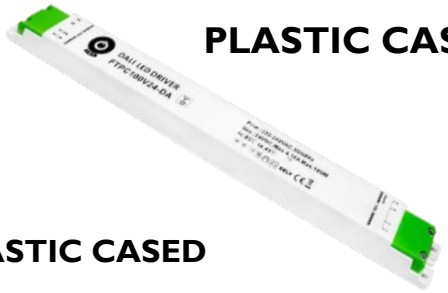
Electrical Specification		
Model	FTMC60v12	FTMC100v12
Output	60W	100W
Rated Voltage	12V	
Rated Current	5A	8.33A
Dimming range	1 - 100%	
Input	220 - 240v AC	
Voltage range	50/60Hz	
AC current (typ @230VAC	0.4A	0.6A
Inrush current (max)	50A / 230V AC (25°C)	
Protection	IP00	
Over current	Range 110 ~ 140%	
Over voltage	120÷150%	

Part No	Output Voltage	Current	Watts	Dims (mm)	
EVG-FTMC60V12-DA	12V DC	5.0A	60W	365 x 30 x 21	
EVG-FTMC100V12-DA	12V DC	8.33A	100W	365 x 30 x 21	

All data given is approximate, we reserve the right to make technical changes

FTPC60/100W-DA series DALI

60/100W LED Constant voltage Switching Power Supply, DALI and push dimming



PLASTIC CASE

PLASTIC CASED

Features:

- Constant voltage design
- European AC input range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II
- Linear shape
- DALI and push dimming function

ALL DRIVERS ON THIS PAGE ARE SELV TYPE

(Separated Extra Low Voltage) -

SPECIFICALLY FOR LED USE. BEWARE OTHER TYPES!

Electrical Specification		
Model	FTMC60v12	FTMC100v12
Output	60W	100W
Rated Voltage	12V	
Rated Current	5A	8.33A
Dimming range	1 - 100%	
Input	220 - 240v AC	
Voltage range	50/60Hz	
AC current (typ @230VAC	0.4A	0.6A
Inrush current (max)	50A / 230V AC (25°C)	
Protection	IP00	
Over current	Range 110 ~ 140%	
Over voltage	120÷150%	

Part No	Output Voltage	Current	Watts	Dims (mm)	
EVG-FTPC60V12-DA -WP	12V DC	5.0A	60W	361.5 x 30 x 21.3	
EVG-FTPC100V12-DA -WP	12V DC	8.33A	100W	361.5 x 30 x 21.3	

All data given is approximate, we reserve the right to make technical changes

FTPC SLIMLINE series

SLIMLINE RANGE

- European AC Input
- Protections: Short circuit / Over load / Over voltage / Temperature
- Cooling by free air convection
- Built-in active PFC function
- Isolation class II
- Extremely short and slim case size
- WP Version IP66 rated

Part No	Output Voltage	Current	Watts	Dims (mm)	
3LED-EVG-FTPC30V-12-S	12V DC	2.5A	30W	251 x 30 x 16	
3LED-EVG-FTPC60V-12S-WP	12V DC	5A	60W	339 x 30 x 18	
3LED-EVG-FTPC100V-12S-WP	12V DC	8.1A	100W	356 x 30 x 20	
EVG-FTPC100V-**-S-WP	24V DC	8.33A/4.17A	99W/100W	356 x 30 x 20	

DIMMABLE RANGE

0-10V Dimmable models:

Part No	Output Voltage	Current	Watts	Dims (mm)	Price
EVG-DMV-60D-12	12V DC	5.0A	60W	241 x 43 x 30	
EVG-DMV-80D-24	24V DC	3.3A	80W	241 x 43 x 30	

All data given is approximate, we reserve the right to make technical changes

LED Power Supplies 12V / 24V

For outdoor use

A range of quality power supplies and drivers with ratings from 18 - 192 Watts, various options available for dimming etc.

ALL DRIVERS ON THESE PAGES ARE SELV TYPE (Separated Extra Low Voltage) - SPECIFICALLY FOR LED USE. BEWARE OTHER TYPES!

Order code	Model	Voltage	Power W	Dims	
3LED-EVGMW12018	LPH-18-12	12V DC	18	140 x 30 x 22	
3LED-EVGMW12035	LPV-35-12	12V DC	35	163 x 40 x 30	
EVG-MCHQ150V__A	LPV-60-12	12V DC	60	163 x 43 x 32	
3LED-EVGMW12100	LPV-100-12	12V DC	100	190 x 52 x 37	
3LED-EVGMW12132	CLG-150-12A	12V DC	132	223 x 66 x 39	
Dimmable					
3LED-EVGMW12132-HLG	HLG-150H-12A	12V DC	132	228 x 68 x 39	
3LED-EVGMW12192-HLG	HLG-240H-12A	12V DC	192	251 x 68 x 39	
Order code	Model	Voltage	Power W	Dims	
3LED-EVGMW24018	LPH-18-24	24V DC	18	140 x 30 x 22	
3LED-EVGMW24035	LPV-035-24	24V DC	35	163 x 40 x 30	
3LED-EVGMW24060	LPV-060-24	24V DC	60	163 x 43 x 32	
3LED-EVGMW24100	LPV-100-24	24V DC	100	190 x 52 x 37	
Dimmable					
3LED-EVGMW24150H-HLG	HLG-150H-24A	24V DC	150	228 x 68 x 39	
3LED-EVGMW24240H-HLG	HLG-240H-24A	24V DC	240	251 x 68 x 39	

All data given is approximate, we reserve the right to make technical changes

ADWS-200 series

200W LED Ultra Short Power Supply

Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over
- Temperature • Cooling by free air convection
- Ultra short case design
- Fully encapsulated with IP67 level [5]

RoHS SELV CE IP67

• ELECTRICAL SPECIFICATION

MODEL	ADWS-200-12	ADWS-200-24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	16.7A	8.3A
Rated Power	200.4W	201.6W
Line Voltage Range	170 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Dimensions	238 x 57 x 32mm (L x W x H)	
Weight	0.88kg	

ADWS-250 series

250W LED Ultra Short Power Supply

• ELECTRICAL SPECIFICATION

MODEL	ADWS-250-12	ADWS-250-24
OUTPUT		
Rated Voltage	12V	24V ***Rated***
Current	21A	10.5A
Rated Power	252W	
INPUT		
Voltage Range	170 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz ***Efficiency***	
Dimensions	228 x 72 x 32mm (L x W x H)	
Weight and Packing	1.1kg;	

Type	Capacity	Size (mm)	Watts	
3LED-EVG-ADWS-200-24 / 12	ADWS 200W 12 or 24V IP67	238 x 57 x 32	200	
3LED-EVG-ADWS-200-24 / 12	ADWS 250W 12 or 24V IP67	228 x 72 x 32	250	

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Promotion Electronique LOW VOLTAGE LED FLASHERS & DIMMERS

Promo LED Technology

Easy to install - connect in between a single LED power supply (between 8V and 24V DC) and give controlled outputs to the LEDS, meaning that the installation is 100% low voltage.
They all have adjustable speed control. The Programmed Dimmers have level adjustments as well.
Most units include protection against reverse polarity connection and short circuits.
All backed up by the usual Promo 5 year warranty, except for the DC12-24 and Box 36 with 1 year warranty.

All models accept between 8V and 24V DC supply. Housings are IP55.

	Type	Capacity	Size (mm)	Part No	
LED Flashers	432	2 x 6A, Alternating Flasher	150x86x58	96L20	
	433	2 x 12A, Alternating Flasher	150x86x58	96L21	
	434	3 / 4 x 5A, 64 programs Flasher	177x175x90	96L44	
	436	5 / 6 x 3A, 64 programs Flasher	177x175x90	96L62	
LED Dimmers - PWM technology, 0 to 100% dimming	438	1 x 5A, Dimmer Manual or auto fading	150x86x58	96L10	
	439	3 x 5A, Programmed Dimmer - RGB 10 Dimmed Programs	177 x 175 x 90	96L30	

RGB CONTROLLERS

Scarlet - A Hansen controller for RGB LED (and neon products)

The multi purpose flexible controller. SD card memory, simple programming.
Output possibilities are -

- PWM
- 0 - 10V
- RGB.
- DMX
- Mains switching (1A)

- Can be slaved together to give many possibilities

Hansen Remote controller

Model	Output	Output Channels	Input	Power	
9C-SCARLET-0/10V	0-10V	9	230V AC	8mA	
9C-SCARLET-0/10V-SLAVE	0-10V	9	230V AC	8mA	
9C-SCARLET-PWM-LV	9-35V DC	15	9-15V DC	3A/Channel	
9C-SCARLET-PWM-LV	9-35V DC	15	9-15V DC	3A/Channel	
9C-SCARLET-DMX	DMX	2	230V AC	DMX	
9C-SCARLET-230V	230V AC	9	230V AC	1A/Channel	
9C-SCARLET-230V-SLAVE	230V AC	9	230V AC	1A/Channel	

All data given is approximate, we reserve the right to make technical changes

LED RGB Controller - CON-RGB-RF-D

Operating between 12V and 24V DC supply.

• Brief Introduction

CON-RGB-RF-D RGB controller. A universal high-performance power controller for entire colour changing using PWM (Pulse-Width-Modulation) controlling technology.

Controls all common anode 4-pin 3-loop full colour LED lights such as: RGB full colour LED module, LED strip, LED SMD tape and so on. It can be controlled by the remote within the effective area no matter the direction and obstacles.

• Specifications

Model	Rotary RGB controller	Part No	
Input voltage	DC12V-DC24V	3LED-RGB-RF-D	
Output current	6A/3CH		
Output power	220W(12V)/440W(24V)		
Auto Modes	37 modes		
Remote control distance	30m with obstacle, 60m without obstacle		
Dimensions	L176 X W46 X H30(mm) Weight 210g		

LED RGBW Controller - CON-RGBW-RF-D

Operating between 12V and 24V DC supply.

• Brief Introduction

CON-RGBW-RF-D controller. A universal high-performance power controller for complete colour changing using PWM (Pulse-Width-Modulation) controlling technology.

Controls all common anode 5-pin 4-loop full colour + White LED lights such as: RGBW full colour LED module, LED strip, LED SMD tape and so on.

• Specifications

Model	Rotary RGBW controller	Part No	
Input voltage	DC12V-DC24V	3LED-RGBW-RF-D	
Output current	5A/4CH		
Output power	240W(12V)/480W(24V)		
Auto Modes	37 modes		
Remote control distance	30m with obstacle, 60m without obstacle		
Dimensions	L176 X W46 X H30(mm) Weight 210g		

All data given is approximate, we reserve the right to make technical changes

EX8S Multi Zone RF/DMX RGBW Controller

Wall mounted touch panel controller, suitable for controlling up to four zones of RGBW lighting.

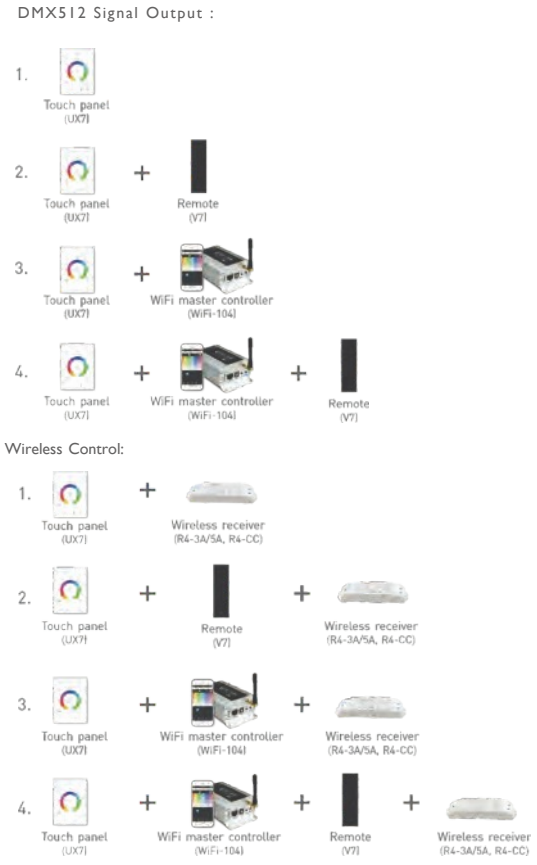
The touch panel requires mains voltage input. The output is an RF signal sent to 'F4-5A' zone receivers (available separately). Alternatively a DMX wired signal can be used with DMX zone receivers. Multiple zone receivers can be connected per zone, whether they are wireless or DMX. Input and output is via screw terminals on the back of the unit.

Features include an on/off button, touch sensitive colour wheel, colour scroll, jump and fade modes, dimming and speed adjustment, scene save and recall, zone selection.

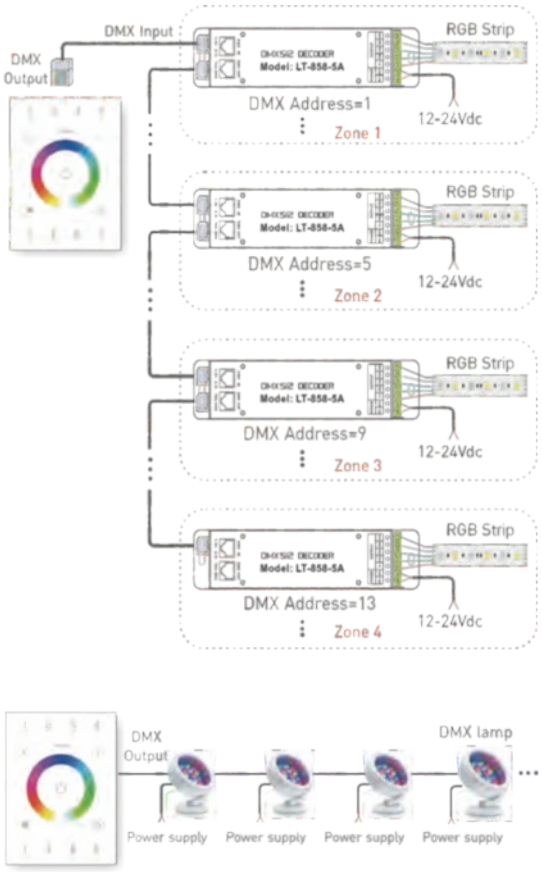
Compatible with standard UK and European wall switches. Back boxes must be at least 25mm deep, back box is not included. Metal back boxes shield the wireless signal so plastic boxes must be used when using the wireless output.

Input Voltage	100~240V AC
Output signal	RF 2.4GHz+DMX512
Control ability	4 Zone
RF distance	30m
Dimensions (mm)	86H 86W 36D

Application Composition



DMX Output Wiring



All data given is approximate, we reserve the right to make technical changes

CONNECTOR AND CABLE RANGE FOR LED

Sign-Tec are now a fully authorised distributor for WAGO connectors and stock many of the range of products on offer

Wago Quick connect -

From 2 pole push in, through the 5 pole lever type terminal and multi part service engineer boxes we have nearly all of the LED connecters here for next day delivery.

If you have an ongoing requirement and regular order, contact the office for pricing.

Crimp Terminal

Connector for ballast to LED or for extensions

Easy to use, no stripping of insulation required. An insulation material which protects against corrosion is displaced into the connector when it is crimped into place on the cable

The gel forms a reliable insulation and gives corrosion protection.

Crimp Connector

Crimp connector for cables in a parallel run. Easy to use, no cable stripping, connection is made by crimping and the connection is sealed with a gel which is contained in the connector and released when crimped. This forms a reliable anti corrosion for the cable.

Connection and Extension cable -

For standard 12 and 24V modules, 2 core flat cable is available and for RGB a 4 core version.

All are consistently colour coded.

Cable details -

2core - Flat cable 0.82². coded red for positive.

4 core flat cable 0.82².

Colour marked White(+)/Red(-)/Green(-)/Blue(-)

Part No	Description	Item	Colour	
3LED-CON-KL2	2 way - for 2 x 0.14-4mm cables	221-412	Clear	
3LED-CON-KL3	3 way - for 3 x 0.14-4mm cables	221-413	Clear	
3LED-CON-KL5	5 way - for 5 x 0.08-4mm cables	221-415	Clear	
3LED-CON-KL2-HC	2 way - for 2 x 0.08 - 2.5mm	222-412	Grey	
3LED-CON-KL3-HC	3 way - for 2 x 0.08 - 2.5mm	222-413	Grey	
3LED-CON-KL5-HC	5 way - for 5 x 0.08 - 2.5mm	222-415	Grey	
3LED-CON-BOX1	Connection box for 222 & 773	51008291	Grey	
3LED-CON-UR2	gel filled 3-way Butt splice for 0.4-0.9mm	UR2	Clear/Red	
3LED-CON-UY2	gel filled 2-way Butt splice for 2 wire	UY2	Clear/Yellow	

All data given is approximate, we reserve the right to make technical changes

DELIVERY TERMS & CONDITIONS JANUARY 2021

UK ORDERS OF £400 AND OVER (excluding VAT) WILL BE DELIVERED FREE by the cheapest method (usually Next Day).

When special or timed delivery is requested on a free delivery, only the additional cost will be charged.

Surcharges applied by the carrier will come into force with immediate effect

Otherwise delivery is charged at £2.50 per package plus carriage at cost.

SPECIAL CONDITIONS

PRICES may be subject to alteration without prior notice and orders are accepted at the price ruling at the date of despatch.
CONTRACTS AND ORDERS are subject to our Conditions of Sale.
VAT will be charged at the ruling rate.

CONDITIONS OF SALE

1. General : Unless otherwise agreed in writing by a principal of Sign-Tec Services Ltd. (the Seller) the terms and conditions set out below shall apply to all contracts entered in to by the Seller to the exclusion of all other terms and conditions.

2. Prices & Delivery Charges for Goods : Stock items - as per current price list. Special items - as per quotation.

3. Prices for Consultancy & Equipment Service :

- a) By telephone - free
- b) In writing - charge to be agreed prior to commencement
- c) By visit - charge to be agreed prior to commencement plus expenses at cost.

4. Delivery :

- a) Time for delivery given by the Seller is as accurate as possible but is not guaranteed and the Seller shall not be liable for the consequence of any delay.
- b) The Seller will endeavour to comply with a request by the Buyer for delivery postponement but shall not be under obligation to do so. Any costs occasioned shall be the Buyer's responsibility.
  c) Loss or damage in transit must be notified separately to the carrier and the Seller within 5 days of receipt of the goods
  d) Any shortage must be notified to the Seller within 5 days of receipt of the goods.
- e) Non arrival of a consignment must be notified to the Seller within 5 days of receipt of the Seller's invoice for the consignment.

5. Terms :

- For non account customers terms are Cash With Order, Cash on Delivery, or as otherwise advised by the Seller. Company cheques must be cleared before the despatch of goods. Personal cheques must be supported by a cheque guarantee card.
- For approved account customers settlement is strictly nett and is due by the end of the month following the month of despatch.
- Request to open a credit account must be on the Seller's Credit Application form.
- In the event of non payment when due the Buyer shall, if required by the Seller, pay a compound surcharge at the rate of 2% in respect of the whole or part of each month on all the monies due and remaining unpaid.

6. Title : All goods remain the property of Sign-Tec Services Ltd. until paid for in full.

7. Warranty : All goods are guaranteed against defective materials or workmanship for a minimum period of six months, or the manufacturer's limit if longer, subject to them being returned carriage paid to the seller for examination. If found to be faulty the Seller shall have the option to replace, repair or refund the original cost. This guarantee does not affect the statutory rights of the Buyer.

8. Consequential Loss : The Seller can not accept any responsibility for any loss or damage arising from the ordering or supply of any Goods or Services.

9. Law : These Conditions and any contract shall be subject to and construed in accordance with English Law.