



Light for advertising

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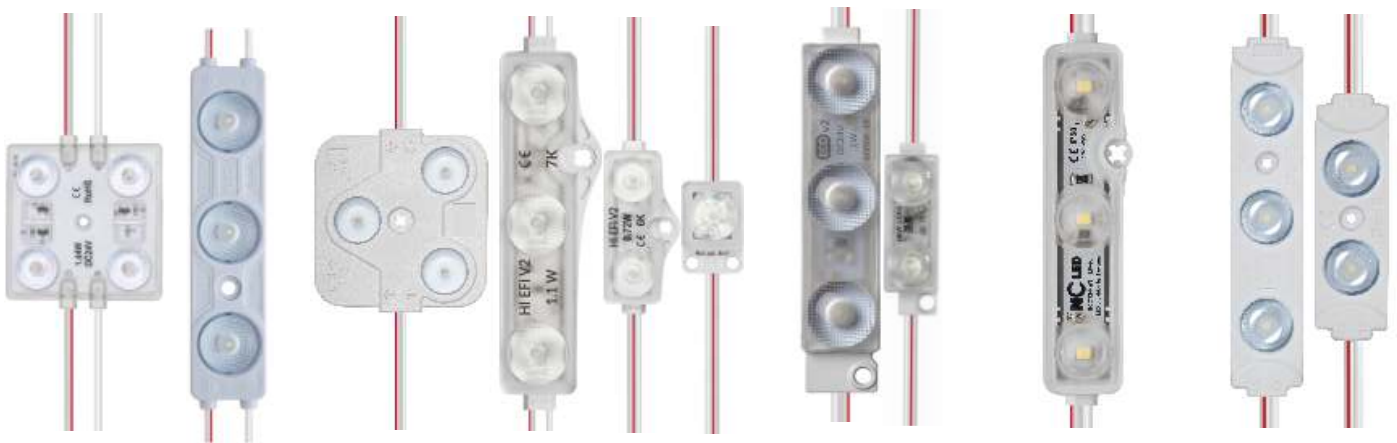
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WIDE-ANGLE LED MODULES



MODEL	CITI LENS HE			CITI LENS V3			ARENA LENS HE	PANORAMA MINI/ PANORAMA MINI CRISTAL	PANORAMA 12V 2W	PANORAMA II	PANORAMA HE 1,5W	
IP CLASS	IP 65			IP 65			IP 65	IP 65	IP 65	IP 65	IP 65	
BEAM ANGLE [°]	175°			175°			175°	175°	160°	165°	170°	
WARRANTY	7 YEARS			7 YEARS			7 YEARS	5 YEARS	5 YEARS	5 YEARS	5 YEARS	
LED CHIP TYPE	2835			2835			2835	2835	3030	3030	2835	
POWER [W]	0,6 2 LED	0,6	0,72	1,08	0,72	0,72 2 LED	1,08	1,0	2,0	2,0	1,5	
COLOR TEMPERATURE [K]	6500 8000	3000 4000 5000 6500 8000 9500	6500 8000 9500	4000 5000 6500- 7000 8000	3000 4000 5000 6500- 7000	2500- 3000 5000 R, G, B	6500 8000 9500	3000 4000 4000 5000 7000 8000	6500	4000 6500	6500-7000 7000-8000	
VOLTAGE [V]	12			12/24			12	12 24	12	12	24	
LIGHT EFFICIENCY [lm/W]	130			90			130	90	90	90	135	
APPLICATION	channel letters with min. 60 mm depth						channel letters with min. 70 mm depth	light boxes with min. 50 mm depth	light boxes with min. 85 mm depth			

LED MODULES COMPARISON



YES PANORAMA HE	SUBLENS V2	SUBLENS 5W		HI-EFI V2			ECO V2 NEW LENS			NC LENS SAMSUNG	L-LED		
IP 67	IP 65	IP 65		IP 65			IP 68			IP 68	IP 68	IP 65	
175°	170°	170°		175°			160°			140°	160°		
5 YEARS	5 YEARS	3 YEARS		6 YEARS			4 YEARS			5 YEARS	4 YEARS		
2835	2835	3030		2835			2835			2835	2835		
1,44	1,2	5,0		0,36 1 LED	0,72 2 LED	1,1 3 LED	0,72 2LED	0,72 3LED	1,0 3LED	1,0	0,72	1,0	1,2
7000	4000 6500 7500	4000 6500	6500	7000-8000	6000-7000 7000-8000	6000-7000 7000-8000	3000 4000 5000 6500 8000 R, G, B	3000 4000 6500 8000	4000 6500 9000	7000	6500 10000		
12/24	12	12	48	12			12/24			12	12		
150	115	100		165			80			93	90		
channel letters & light boxes with min. 85 mm depth	channel letters & light boxes with min. 55 mm depth	light boxes with min. 120 mm depth 9-12 pcs./m2		channel letters with min. 80 mm depth			channel letters with min. 65 mm depth			channel letters & light boxes with min. 80 mm depth	channel letters & light boxes with min. 70 mm depth		

WIDE-ANGLE LED MODULES



TYPE	XBAR 180° XBAR 180° Connector XBAR 180° Wire connector				XBAR 170°		RGB LENS	RGB+IC	RGBW
IP CLASS	IP 20				IP 20		IP 65	IP 20	IP 65
BEAM ANGLE [°]	180°				170°		170°	140°	140°
WARRANTY	3 YEARS				3 YEARS		5 YEARS	5 YEARS	5 YEARS
LED CHIP TYPE	2835				3030		2835	5050	5050
POWER [W]	5,4	6,6	9,18	14,4	9,16	14,4	0,72	0,72	0,96
COLOR TEMPERATURE [°K]	6500	4000 5000 6500	4000 5000 6500 10 000	4000 6500 10 000	6500	4000 6500	RGB	RGB+IC	RGBW
VOLTAGE [V]	12/24				12	24	12	12	12
LIGHT EFFICIENCY [lm/W]	130				130		R-21, G-62, B-15, W-32	R-32, G-62, B-28, W-16	R-25, G-56, B-15, W-32
APPLICATION	light boxes with min. 40 mm depth				light boxes with min. 50 mm depth		channel letters & light boxes with min. 65 mm depth		channel letters & light boxes with min. 80 mm depth

LED MODULES COMPARISON

WIDE-ANGLE LED MODULES



MINI SEM	SEMAFOR II	SEMAFOR 3W	SEMAFOR XL 1M	SEMAFOR 3 3,6W/24V	SEMAFOR 3 3W/12V	SEMAFOR XL 50 CM
IP 65	IP 65	IP 65	IP 44	IP 65	IP 65	IP 44
15x45°	15x45°	6x45°	15x45°	10x60°	10x50°	20x40°
4 YEARS	4 YEARS	4 YEARS	5 YEARS	3 YEARS	5 YEARS	4 YEARS
3030	3030	3535	3030	3030	3030	3030
1,2	2	3	27	3,6	3	11 22
6500 10 000	4000 6500	6500	6500	6000	6500	6000
12	12	12	12	24	12	24
100	80	70	98	110	100	82
light boxes with up to 800 mm height		light boxes with up to 1500 mm height	light boxes with up to 2500 mm height	light boxes with up to 1800 mm height	light boxes with up to 1800 mm height	light boxes with up to 2500 mm height

MINI, MICRO LED MODULES



MINI 183*142			MINI 140			MINI 170	MINI 170 V2	MICRO LENS	MICRO LENS V2	MICRO PRO		MINI Z		
IP 67			IP 65			IP 67	IP 67	IP 67	IP 65	IP 67		IP 66		
142x183°			140°			130x170°	170°	140°	168x147°	120°		120°		
5 YEARS			5 YEARS			5 YEARS	5 YEARS	5 YEARS	5 YEARS	4 YEARS		3 YEARS		
2835			2835			2835	2835	2835	2835	2835		4014		
0,24 1 LED	0,48 2 LED	0,72 3 LED	0,36 1 LED	0,50 2 LED	0,60 3 LED	0,36	0,36	0,20	0,36	0,1	0,2	0,38 2 LED	0,4 3 LED	
3000 4000 6500 8000 R, G, B			3000 4000 6500 8000			4000 5000 7000 R, G, B	4500 6500 R, G, B	7100	2800-3200 4000-4500 5000-5500 6500-7000 7000-8000	6500 8000	4000 6500 8000	4000 8000		
12			12			12	12	12	12	12		12		
96			100			105	120	165	125	100		104	138	
small channel letters with min. 40 mm and max. 120 mm depth								small channel letters with min. 30 mm and max. 100 mm depth			acrylic channel letters with min. 30 mm depth		small channel letters with min. 40 mm and max. 70 mm depth	

MINI LED MODULES

MINI LED modules - comparison

MICRO LENS

0,2 W

CCT: 7100K



MICRO LENS V2

0,36 W

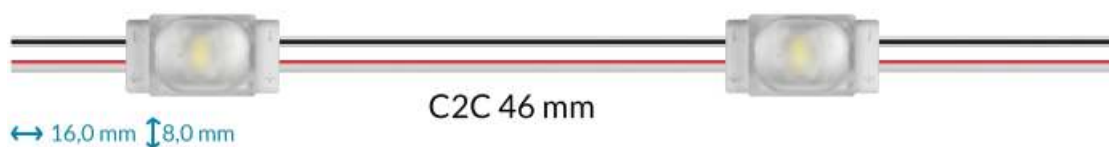
CCT: 2800-3200K
4000-4500K
5000-5500K
6500-7000K
7000-8000K



MINI LENS 170

0,36 W

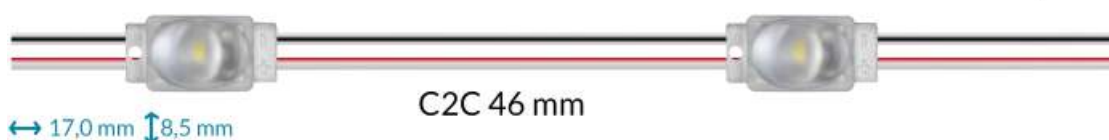
CCT: 4000K
5000K
7000K
RED
GREEN
BLUE



MINI LENS 170 v2 (H-MINI)

0,36 W

CCT: 2800 - 3200K
4000 - 4500K
5000 - 5500 K
6500 - 7000K
7000 - 8000K
RED, GREEN, BLUE



MINI LENS 183

0,24 W

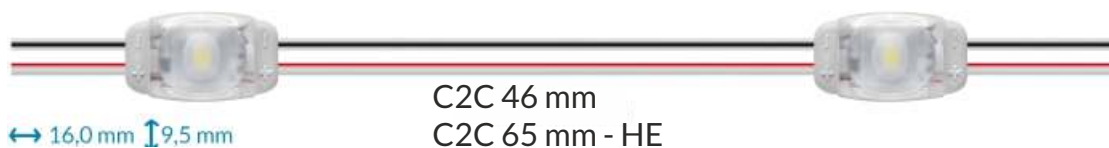
CCT: 3000K
4000K
6500K
8000K



MINI LENS 170 HE (Z-MINI)

0,24 W
0,36 W

CCT: 5000K
6500K
7000K
8000K
7000K - HE



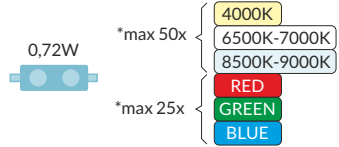
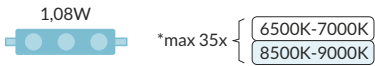
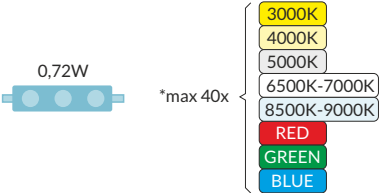
CITI LENS V3

Universal wide-angle 175° modules with extended warranty

12V 24V
IP 65
175°
7 YEARS
3000K to 9500K
CONSTANT CURRENT DRIVING SYSTEM
RED
GREEN
BLUE



RED
GREEN
BLUE

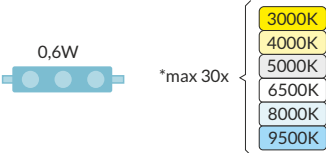


*Maximum amount of modules in one chain

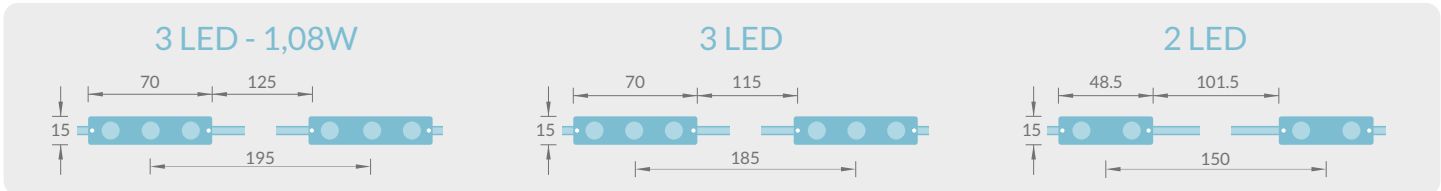
CITI LENS HE

High-quality modules with high efficiency

12V
IP 65
175°
7 YEARS
3000K to 9500K
CONSTANT CURRENT DRIVING SYSTEM



*Maximum amount of modules in one chain



TYPE		CITI V3			CITI LENS HE 2 LED	CITI LENS HE 3 LED 0,6 W	CITI LENS HE 3 LED 0,72 W
LED CHIP TYPE					2835		
POWER	[w]	1,08	0,72		0,6		0,72
COLOR TEMPERATURE	[°K]	4000 6500;7000 8500;9000 9500	3000 4000 6500;7000 8500;9000 R, G, B	6500 8000 R, G, B	6500 ; 8000	3000 ; 4000 5000 ; 6500 8000 ; 9500	6500 ; 8000 9500
IP CLASS					IP65		
VOLTAGE	[V]	12/24			12		
BEAM ANGLE	[°]				175		
LIGHT EFFICIENCY	[lm/W]	90			130		
DIMENSIONS	[mm]	70x15x7,7		48,5x15x7,7	48,5x15x8,5	70x15x8,5	
LED SPACING	[mm]	195	185	150	150	185	
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	35	40	50 white 25 colors	30	25	
WARRANTY	[years]				7		
APPLICATION					channel letters with min. 60 mm depth		

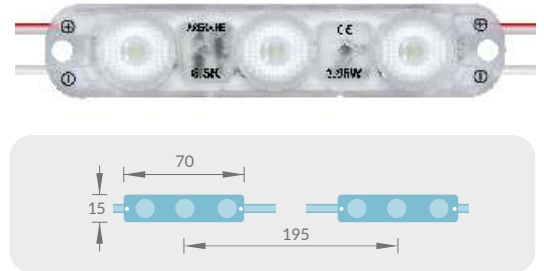
WIDE-ANGLE LED MODULES

ARENA LENS HE

Standard LED modules with modern lenses

12V IP65 175° 7 YEARS 6500K 8000K 9500K CONSTANT CURRENT DRIVING SYSTEM

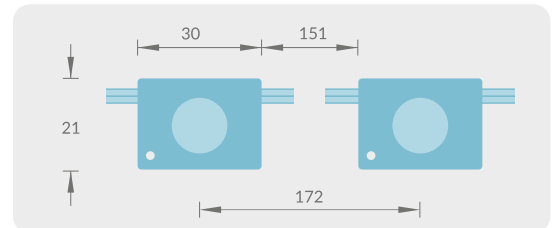
TYPE	ARENA V4	
LED CHIP	2835	
POWER	[w]	1,08
COLOR TEMPERATURE	[°K]	6500
		8000
		9500
IP CLASS	IP65	
VOLTAGE	[V]	12
BEAM ANGLE	[°]	175
LIGHT EFFICIENCY	[lm/w]	130
DIMENSIONS	[mm]	70x15x7,7
LED SPACING	[mm]	195
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	18
WARRANTY	[years]	7
APPLICATION	channel letters with min. 70 depth	



PANORAMA MINI

Wide-angle LED modules for shallow applications

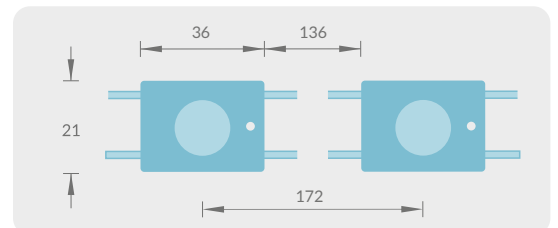
12V 24V IP65 175° 5 YEARS 3000K to 6500K CONSTANT CURRENT DRIVING SYSTEM



PANORAMA MINI CRISTAL

Wide-angle LED modules for shallow advertisements

12V 24V IP65 175° 5 YEARS 4000K to 7000K CONSTANT CURRENT DRIVING SYSTEM



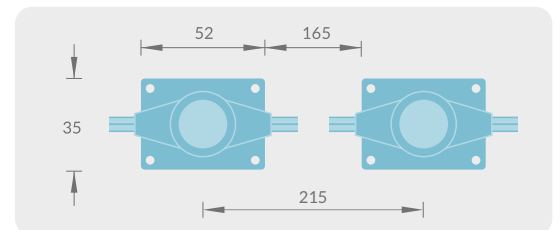
TYPE	PANORAMA MINI		PANORAMA MINI CRISTAL		
LED CHIP TYPE	2835				
POWER	[w]	0,6	1,0	0,6	1,0
COLOR TEMPERATURE	[°K]	3000		4000	
		4000		5000	
		5000		7000	
		7000			
		8000			
IP CLASS	IP65				
VOLTAGE	[V]	12	24	12	24
BEAM ANGLE	[°]	175		175	
LIGHT EFFICIENCY	[lm/W]	90		90	
DIMENSIONS	[mm]	30x21x7		36x21x8	
LED SPACING	[mm]	172		172	
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	20	50	20	50
WARRANTY	[years]	5		5	
APPLICATION	light boxes with min. 50 mm depth				

PANORAMA 12V 2W

Powerful wide-angle LED modules for light boxes



12V IP65 160° 5 YEARS 6500K

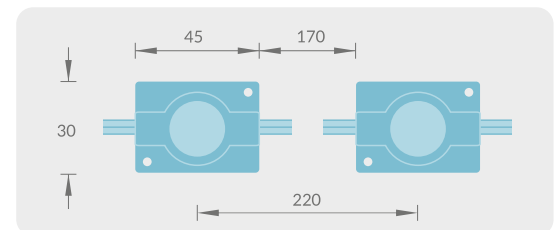


PANORAMA II

Powerful wide-angle LED modules for light boxes



12V IP65 165° 5 YEARS 4000K TO 6500K CONSTANT CURRENT DRIVING SYSTEM

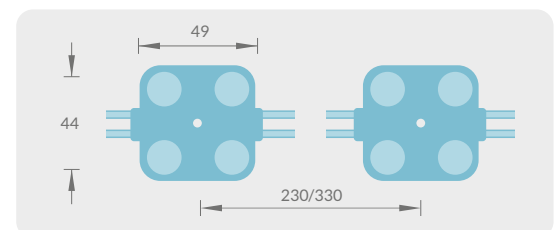


PANORAMA HE 1,5W

Wide-angle high-efficiency LED modules for light boxes



24V IP65 170° 5 YEARS 6500K TO 8000K CONSTANT CURRENT DRIVING SYSTEM

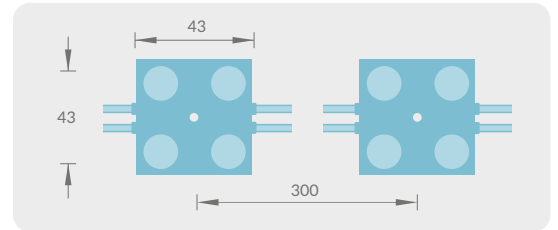


TYPE	PANORAMA 12V 2W	PANORAMA II	PANORAMA HE 1,5W
LED CHIP TYPE	3030	3030	2835
POWER [w]	2,0	2,0	1,5
COLOR TEMPERATURE [°K]	6500	4000 6500	6500-7000 7000-8000
IP CLASS	IP65	IP65	IP65
VOLTAGE [V]	12	12	24
BEAM ANGLE [°]	160	165	170
LIGHT EFFICIENCY [lm/w]	90	90	135
DIMENSIONS [mm]	52x35x7,3	45x30x7,6	49x44x8,5
LED SPACING [mm]	215	220	230/330
MAX AMOUNT IN A SINGLE CHAIN [pcs.]	20	20	20
WARRANTY [years]	5	5	5
APPLICATION	light boxes with min. 80 mm depth		

WIDE-ANGLE LED MODULES

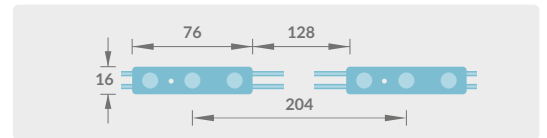
Y-PANORAMA HE

Wide-angle high efficiency LED modules



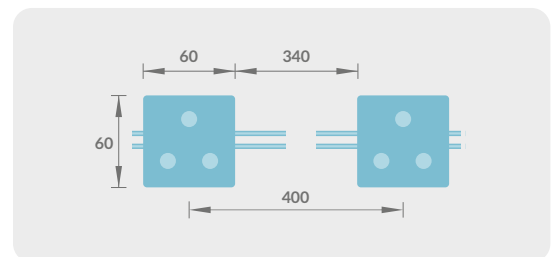
SUB LENS V2

Wide-angle LED modules for light boxes



SUB LENS 5W

High power wide-angle LED modules for large ads; 9 modules / m²

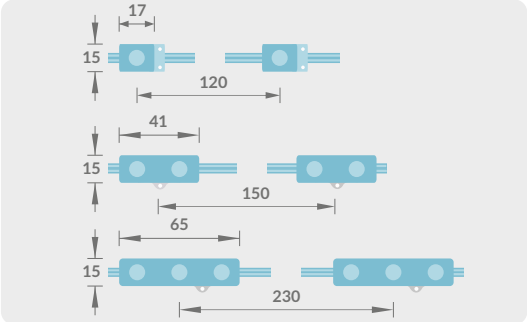


TYPE	Y-PANORAMA HE	SUBLENS V2			SUBLENS 5W	
LED CHIP TYPE	2835	2835			3030	
POWER [w]	1,44	0,4	0,8	1,2	5,0	
COLOR TEMPERATURE [°K]	7000	4000 6500 7500			4000 6500	6500
IP CLASS	IP67	IP65			IP65	
VOLTAGE [V]	12/24	12			12	48
BEAM ANGLE [°]	175	170			170	
LIGHT EFFICIENCY [lm/W]	150	115			100	
DIMENSIONS [mm]	43x43x8,5	32x16x6,5	54x16x6,5	72x16x6,5	60x60x4	
LED SPACING [mm]	300	138	175	204	400	
MAX AMOUNT IN SINGLE A CHAIN [pcs.]	25	25	25	30	10	
WARRANTY [years]	5	5			3	
APPLICATION	channel letters and light boxes 85mm depth	channel letters and light boxes with min 55 mm depth			light boxes with min. 120 mm depth; 9-12 pcs./m ²	

HI-EFI V2

Wide-angle LED modules with high luminous efficiency - 150 lm/W

12V IP65 170° 5 YEARS 6000 K to 7000 K

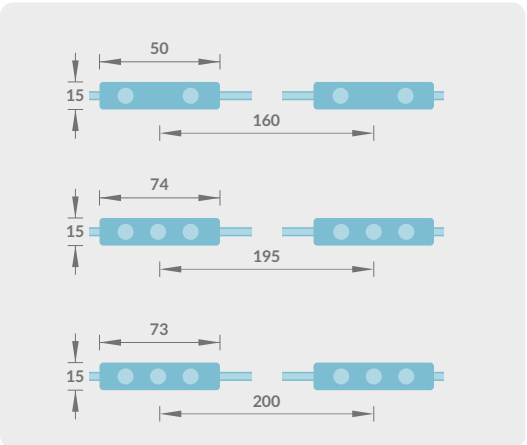


TYPE		HI-EFI V2		
LED CHIP TYPE		3030		
POWER	[W]	0,36	0,72	1,1
COLOR TEMPERATURE	[°K]	7000-8000		6000-7000 7000-8000
IP CLASS		IP65		
VOLTAGE	[V]	12		
BEAM ANGLE	[°]	175		
LIGHTING EFFICIENCY	[lm/W]	165		
DIMENSIONS	[mm]	17x15x10	41x15x10	65x15x11
LED SPACING	[mm]	120	150	
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	60	45	25
WARRANTY	[years]	6		
APPLICATION		channel letters with min. 80 mm depth		

L-LED

Modern modules with lenses with power of 1.2W and 0.72W

12V IP68 IP65 160° 4 YEARS 6500 K to 10 000 K



L-LED 1.2W

Economic 1.2W modules



TYPE		L-LED		
LED CHIP TYPE		2835		
POWER	[W]	0,72	1,0	1,2
COLOR TEMPERATURE	[°K]	7000		6500 10 000
IP CLASS		IP68		IP65
VOLTAGE	[V]	12		
BEAM ANGLE	[°]	160		
LIGHT EFFICIENCY	[lm/W]	90		
DIMENSIONS	[mm]	50x15x6,5	74x15x8,6	50x15x5,5 73x15x5,5
LED SPACING	[mm]	160	195	165 200
MAX AMOUNT IN SINGLE CHAIN	[pcs.]	20		
WARRANTY	[years]	4		
APPLICATION		channel letters & light boxes with min. 75 mm depth		

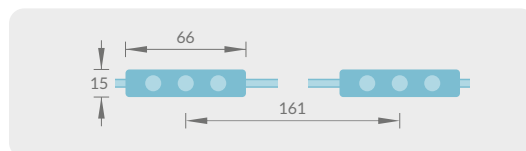
WIDE-ANGLE LED MODULES

NC LENS SAMSUNG

Economic modules equipped with lenses and SAMSUNG 2835 chipset



12V IP68 140° 4 YEARS 4000 K to 9000 K

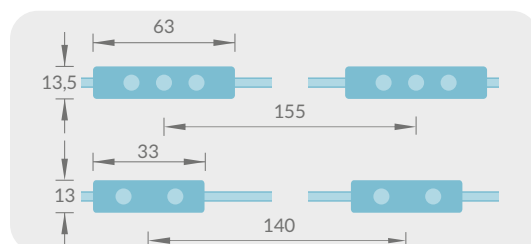


ECO V2 NEW LENS

Economic modules equipped with lenses - 170° light beam



12V 24V IP67 170° 4 YEARS 625 525 460



TYPE		NC LENS	ECO V2 NEW LENS			
LED CHIP TYPE		2835	2835			
POWER	[W]	1.0	0,72	1,0	0,72	1,0
COLOR TEMPERATURE	[°K]	4000	3000	4000	4000	6500 8000
		6500	4000	4000		
		9000	6500	6500		
			8000	8000		
			Red, Green, Blue			
IP CLASS		IP68	IP67			
VOLTAGE	[V]	12	12		24	
BEAM ANGLE	[°]	140	170			
LIGHT EFFICIENCY	[lm/W]	93	80			
DIMENSIONS	[mm]	66x15x11	68x13,8x8,5			
LED SPACING	[mm]	161	155			
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	50	50			
WARRANTY	[years]	5	4			
APPLICATION		channel letters & light boxes with min. 80 mm depth	small channel letters with min. 65 mm depth			

RGB LENS



IP65 5 LAT RGB

Any color in a compact housing

DIGITAL RGB + IC

Digital RGB modules



RGBW

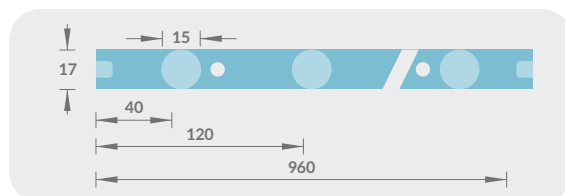


TYPE		RGB LENS	RGBW	DIGITAL RGB + IC	
LED CHIP TYPE		5050	5050	5050	
POWER	[W]	0,72	0,96	0,72	
COLOR TEMPERATURE	[°K]	RGB	RGB	RGB	
IP CLASS		IP65	IP65	IP65	
VOLTAGE	[V]	12	12	12	
BEAM ANGLE	[°]	170	140	140	
LIGHT EFFICIENCY	[lm/W]	R-25, G-56, B-15, W-32	R-25, G-56, B-15, W-32	R-32, G-62, B-28, W-16	
DIMENSIONS	[mm]	78x17,8x8,3	74x18x6,5	69x15x7	
LED SPACING	[mm]	204	160	157	
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	20	20	20	
WARRANTY	[years]	5	5	5	
APPLICATION		channel letters & light boxes with min. 65 mm depth			

XBAR 170° bar

LED bar with a 170° beam angle for 50-120 mm depth

12V 24V IP 20 170° 3 YEARS 4000K 6500K



TYPE		XBAR 170			
LED TYPE TYPE		3030			
POWER	[W]	5,4	6,6	9,18	14,4
COLOR TEMPERATURE	[°K]	4000 6500			
IP CLASS		IP20			
VOLTAGE	[V]	12/24			
BEAM ANGLE	[°]	170			
LIGHT EFFICIENCY	[lm/W]	130			
DIMENSIONS	[mm]	30x21x7			
LED SPACING	[mm]	172			
MAX AMOUNT IN SINGLE CHAIN	[pcs.]	10			
WARRANTY	[years]	3			
APPLICATION		light boxes with min. 50 mm depth			

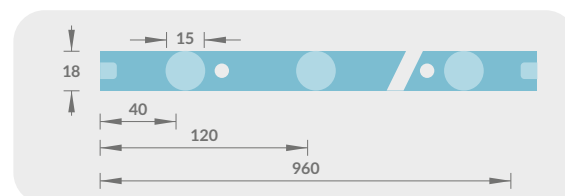
XBAR 180° bar

Innovative strip lenses with a 180° beam angle for 35-60 mm depth

12V 24V IP 20 180° 3 YEARS 6500K to 10 000K



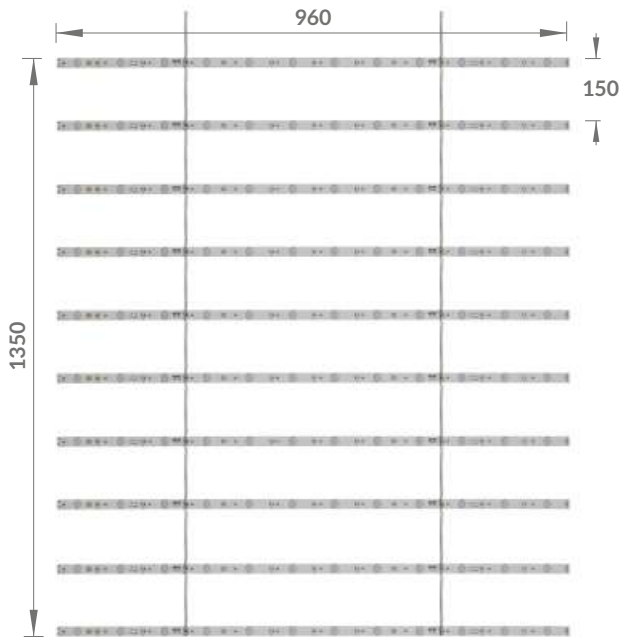
180° BEAM ANGLE AVAILABLE ONLY IN AMC SYSTEM



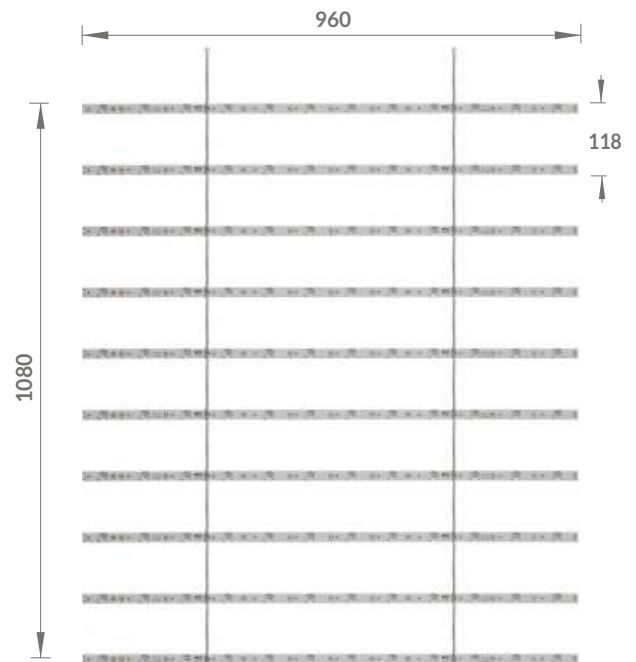
TYPE		XBAR 180			
LED CHIP TYPE		2835			
POWER	[W]	5,4	6,6	9,18	14,4
COLOR TEMPERATURE	[°K]	6500	4000 5000 6500	4000 5000 6500 10 000	4000 6500 10 000
IP CLASS		IP20			
VOLTAGE	[V]	12/24			
BEAM ANGLE	[°]	180			
LIGHT EFFICIENCY	[lm/W]	130			
DIMENSIONS	[mm]	960x17x10			
LED SPACING	[mm]	-			
MAX AMOUNT IN SINGLE CHAIN	[pcs.]	10			
WARRANTY	[years]	3			
APPLICATION		light boxes with min. 35 mm depth			

WIDE-ANGLE LED BARS

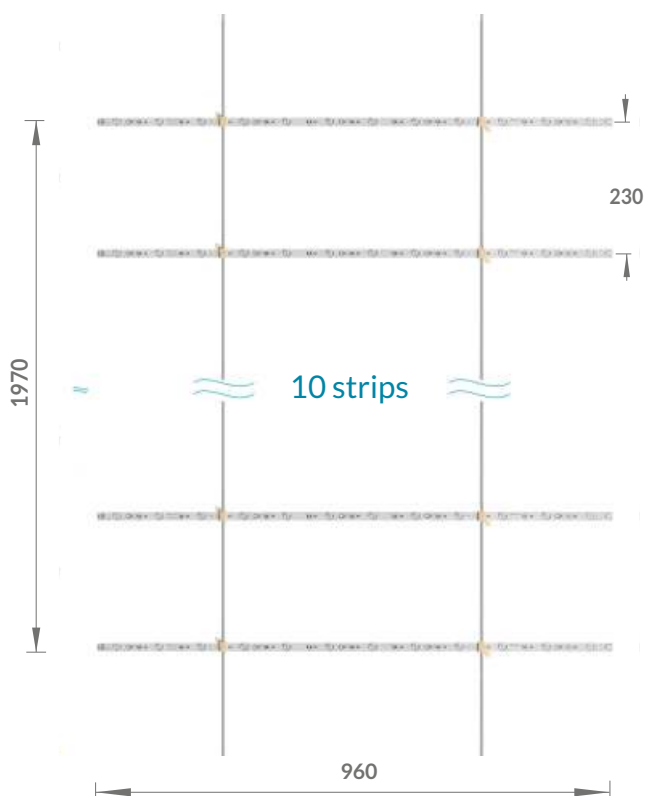
LISTWA XBAR 170° & XBAR 170° XL
Ladder connection



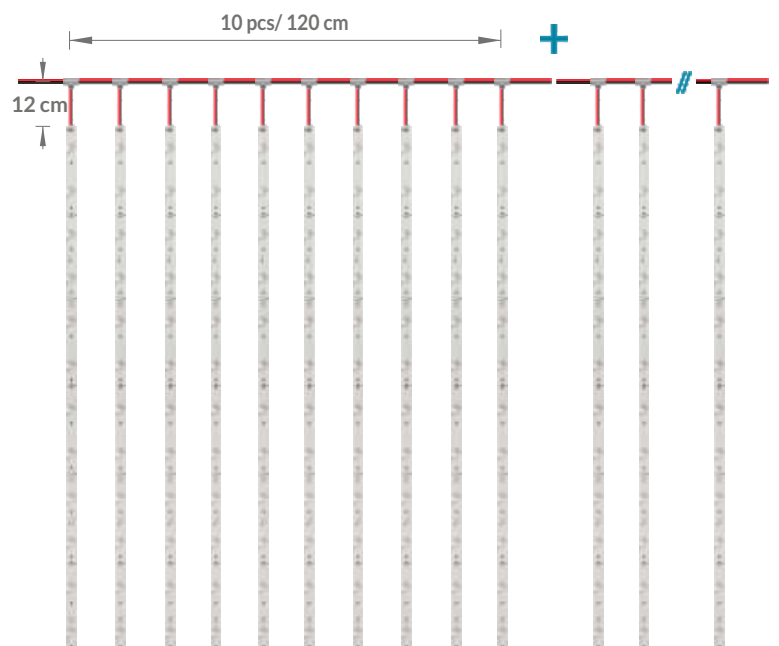
LISTWA XBAR 180°
Ladder connection



LISTWA XBAR 170° XL
Ladder connection



LISTWA XBAR 180° wire connector

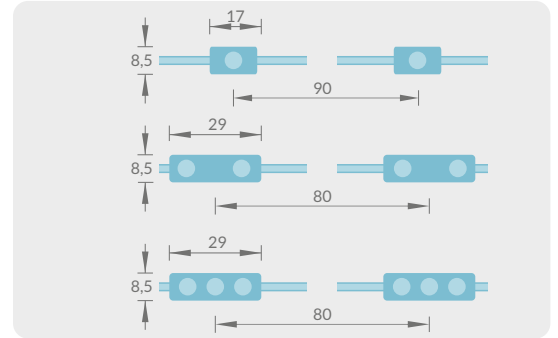


MINI LENS 140

12V IP65 140° 5 YEARS 3000K 8000K

Compact LED modules

TYPE		MINI 140		
LED CHIP TYPE		2835		
POWER	[W]	0,36	0,50	0,60
COLOR TEMPERATURE	[°K]	3000		
		4000		
		5000		
		6500		
		8000		
IP CLASS		IP65		
VOLTAGE	[V]	12		
BEAM ANGLE	[°]	140		
LIGHT EFFICIENCY	[lm/W]	100		
DIMENSIONS	[mm]	17x8,5x8,5	29x8,5x8,5	29x8,5x8,5
LED SPACING	[mm]	90	80	80
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	20		
WARRANTY	[years]	5		
APPLICATION		channel letters with min. 40 mm and max. 120 mm depth		



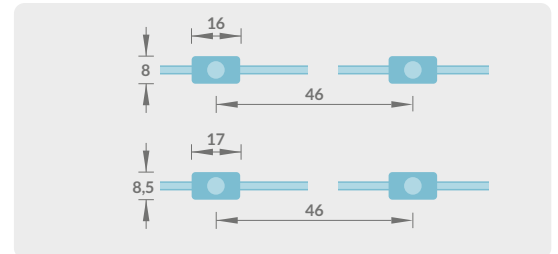
MINI LENS 170

12V IP67 130x170° 5 YEARS 4000K 5000K 7000K

MINI LENS 170 V2

12V IP67 170° 5 YEARS 4500K 6500K

TYPE		MINI 170	MINI 170 V2
LED CHIP TYPE		2835	2835
POWER	[W]	0,36	0,36
COLOR TEMPERATURE	[°K]	4000	
		5000	
		7000	
		Red, Green, Blue	6000-7000
			7000-8000
IP CLASS		IP67	IP67
VOLTAGE	[V]	12	12
BEAM ANGLE	[°]	130x170	170
LIGHT EFFICIENCY	[lm/W]	105	120
DIMENSIONS	[mm]	16x8,5x8	17x8,5x8
LED SPACING	[mm]	46	46
WARRANTY	[years]	5	5



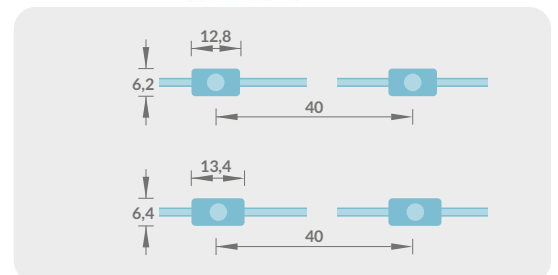
MICRO LENS

12V IP67 140° 5 YEARS 4000K 7100K

MICRO LENS V2

12V IP65 168x147° 5 YEARS 2800K to 8000K

TYPE		MICRO LENS	MICRO LENS V2
LED CHIP TYPE		2835	
POWER	[W]	0,20	0,36
COLOR TEMPERATURE	[°K]	4000	
		7100	
		2800-3200	
		4000-4500	
IP CLASS		IP67	IP65
	VOLTAGE	[V]	12
BEAM ANGLE	[°]	140	168x147
LIGHT EFFICIENCY	[lm/W]	165	125
DIMENSIONS	[mm]	12,8x6,2x6,8	13,4x6,4x7,4
LED SPACING	[mm]	40	39
MAX AMOUNT IN SINGLE CHAIN	[pcs.]	100	100
WARRANTY	[years]	5	
APPLICATION		smallest channel letters	



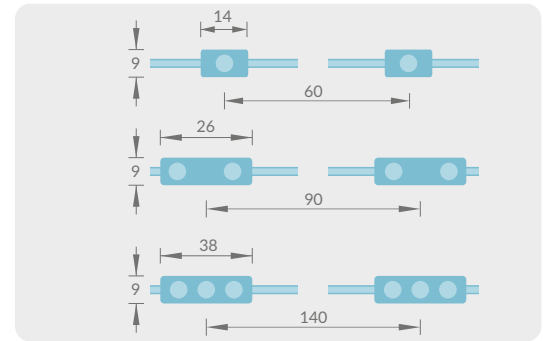
MINI MODUŁY LED

MINI 183*142

Mini LED module with innovative lens

12V IP67 142x183° 5 YEARS 3000K to 8000K

TYPE		MINI 183*142		
LED CHIP TYPE		2835		
POWER	[w]	0,24	0,48	0,72
COLOR TEMPERATURE	[°K]	3000		
		4000		
		5000		
		6500		
		8000		
IP CLASS		Red, Green, Blue		
VOLTAGE	[V]	IP67		
BEAM ANGLE	[°]	12		
LIGHT EFFICIENCY	[lm/w]	142x183		
DIMENSIONS	[mm]	14X9X9	26X9X9	38X9X9
LED SPACING	[mm]	60	90	140
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	96		
WARRANTY	[years]	40		
APPLICATION		5		
		channel letters with min. 20 mm and max. 60 mm depth		

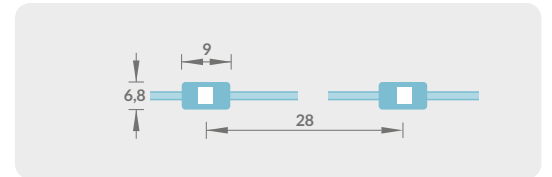


MICRO PRO

For acrylic block letters

12V IP67 120° 4 YEARS 4000K do 8000K

TYPE		MICRO PRO	
LED CHIP TYPE		2835	
POWER	[W]	0,10	0,20
COLOR TEMPERATURE	[°K]	6500	
		8000	
		4000	
IP CLASS		IP67	
VOLTAGE	[V]	12	
BEAM ANGLE	[°]	120	
LIGHT EFFICIENCY	[lm/W]	100	
DIMENSIONS	[mm]	9X6,8X4,8	
LED SPACING	[mm]	28	
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	100	
WARRANTY	[years]	4	
APPLICATION		plexy channel letters with max. 30 mm depth	

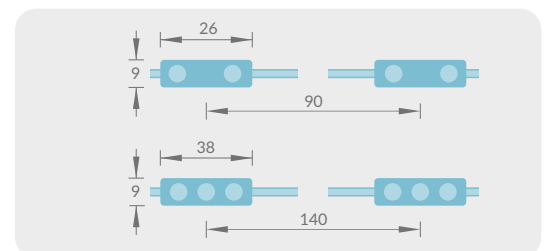


MINI Z

Compact lens modules

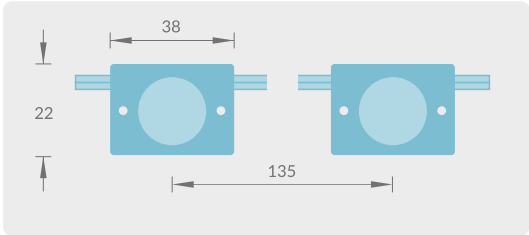
12V IP66 120° 3 YEARS 4000K to 8000K

TYPE		MINI Z	
LED CHIP TYPE		4014	
POWER	[W]	0,385	0,40
COLOR TEMPERATURE	[°K]	4000	
		8000	
		IP66	
IP CLASS		12	
VOLTAGE	[V]	120	
BEAM ANGLE	[°]	104	
LIGHT EFFICIENCY	[lm/W]	138	138
DIMENSIONS	[mm]	32X5X3	40X5X3
LED SPACING	[mm]	77	70
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	50	
WARRANTY	[years]	3	
APPLICATION		channel letters with min. 40 mm and max. 70 mm depth	



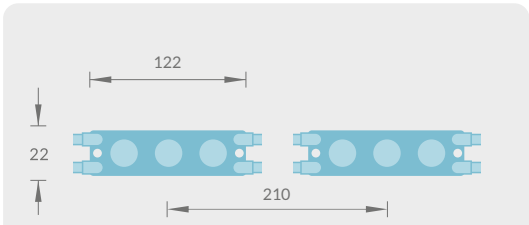
MINI SEM

LED modules designed for edge lighting for shallow lightboxes
 - dedicated aluminum extrusions for lightbox construction are also available
 - easy to illuminate lightboxes, just install the modules on the side walls
 - unrestricted chain cutting

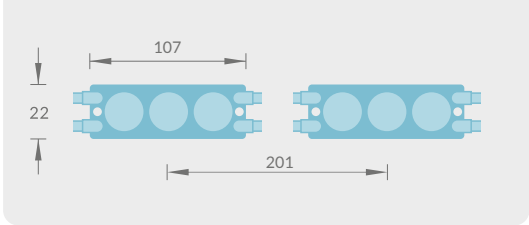


SEMAFOR 3

HIGH POWER EDGE MODULE 3.6W / 24V



HIGH POWER EDGE MODULE 3W / 12V



Thanks to their compact dimensions and the fact that MINISEM modules are equipped with a special optical system, they are ideal for relatively shallow illuminated lightboxes, both with a plastic and textile front.

High luminous flux value and appropriately selected asymmetrically arranged diffusing lenses ensure uniform illumination of the entire boxface, despite the fact that the modules are placed only on its side walls.

AMC System offers specialist aluminum profiles and connectors that allow for independent construction of aesthetic light boxes with MINISEM modules.

The photo on the right shows how to place the modules in a light box.



TYPE		MINI SEM	SEMAFOR 3 3W/12V	SEMAFOR 3 3,6W/24V
LED CHIP TYPE		3030	3030	3030
POWER	[W]	1,2	3	3,6
COLOR TEMPERATURE	[°K]	6500 10 000	6500	6000
IP CLASS		IP65	IP65	IP65
VOLTAGE	[V]	12	12	24
BEAM ANGLE	[°]	15x45	10x50	10x60
LIGHT EFFICIENCY	[lm/W]	100	100	110
DIMENSIONS	[mm]	38x22x12	107x22x12	122x22x12
LED SPACING	[mm]	125	201	210
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	20	20	10
WARRANTY	[years]	4	5	3
APPLICATION		light boxes with up to 800 mm height	light boxes with up to 1800 mm height	

EDGE LIGHTING

SEMAFOR XL LED modules 50 cm

Semafor XL LED modules are designed for edge lighting for single and double sided light boxes with up to 2.5m height.

24V

IP 65

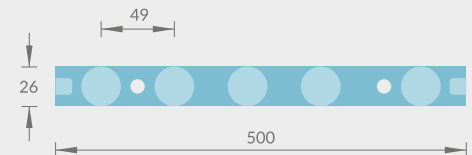
20x40°

4 YEARS

6500K



Semafor XL light bars are equipped with rigid lenses made of special formed plastic. They ensure proper light distribution, even at a quite large distance between the edges of a lightbox.

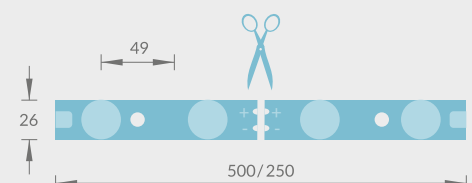


For easy mounting uniform spaces between light points, the Semafor XL modules are connected with dedicated fast connectors.

No special tools or welding is required for mounting, connecting or servicing of the modules.

MODEL	SEMAFOR XL - possible to cut in half	
LED CHIP TYPE		3030
POWER	[W]	20
COLOR TEMPERATURE	[°K]	6500
IP CLASS		IP65
VOLTAGE	[V]	24
BEAM ANGLE	[°]	20x40
LIGHT EFFICIENCY	[lm/W]	82
DIMENSIONS	[mm]	500x26x18
LED SPACING	[mm]	50
MAX AMOUNT IN A SINGLE CHAIN	[pcs.]	5
WARRANTY	[years]	4
APPLICATION		light boxes with up to 2500 mm height

ABILITY TO CUT INTO 2 SECTIONS OF 250 MM



SEMAFOR LED modules

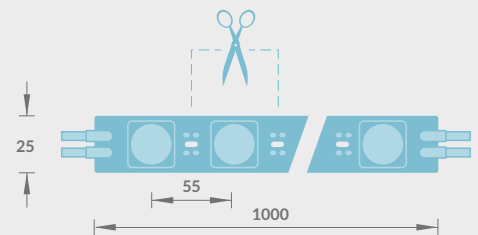
- For edge lighting for light boxes with min. 100 mm and max. 200 mm depth
- for single and double sided light boxes,
- install the LED modules on the side walls of your light box,
- flexible cutting possibilities, each every single module

SEMAFOR XL 1M

12V IP65 15x45° 5 YEARS 4000K 6500K

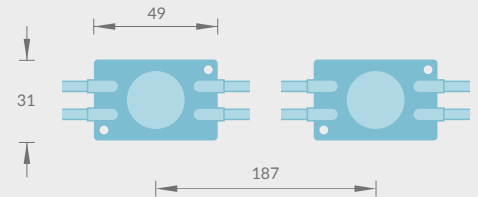


ABILITY TO CUT BETWEEN EACH MODULE



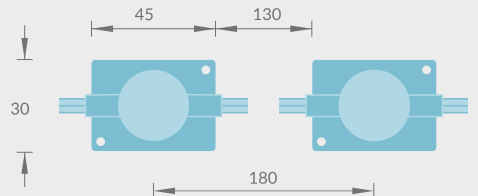
SEMAFOR 3W

12V IP65 6x45° 4 YEARS 6500K

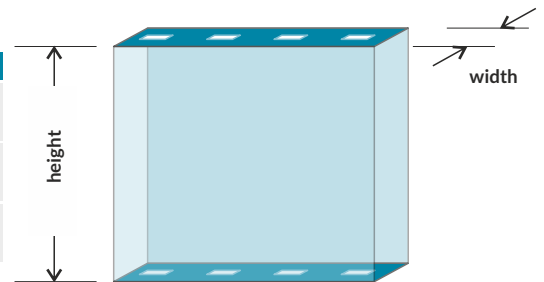


SEMAFOR II

12V IP65 15x45° 4 YEARS 4000K 6500K



LIGHTBOX DIMENSIONS	SEMAFOR II	SEMAFOR 3W	SEMAFOR XL 1M
height (distance between walls with modules)	up to 1000 mm	up to 1500 mm	up to 2500 mm
width (distance between light box faces)	50 - 180 mm	100 - 200 mm	80 mm
amount of modules (for a linear meter)	8-12 pcs.	8-12 pcs.	18 pcs.



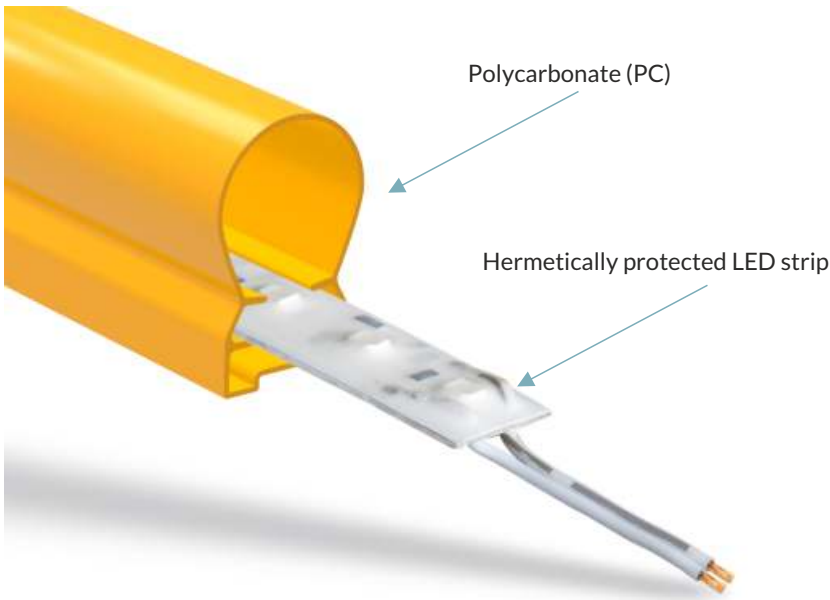
MODEL	SEMAFOR II	SEMAFOR 3W	SEMAFOR XL 1M
LED CHIP TYPE	3030	3535	3030
POWER [W]	2	3	27
COLOR TEMPERATURE [°K]	4000 6500	6500	4000 6500
IP CLASS	IP65	IP65	IP44
VOLTAGE [V]	12	12	12
BEAM ANGLE [°]	15x45	6x45	15x45
LIGHT EFFICIENCY [lm/W]	80	70	98
DIMENSIONS [mm]	45x30x15	43x36x15	1000x25x14,5
LED SPACING [mm]	180	187	55
MAX AMOUNT IN A SINGLE CHAIN [pcs.]	20	20	5
WARRANTY [years]	4	4	5
APPLICATION	light boxes with up to 1000 mm height	light boxes with up to 1500 mm height	light boxes with up to 2500 mm height

CONTOUR LED System

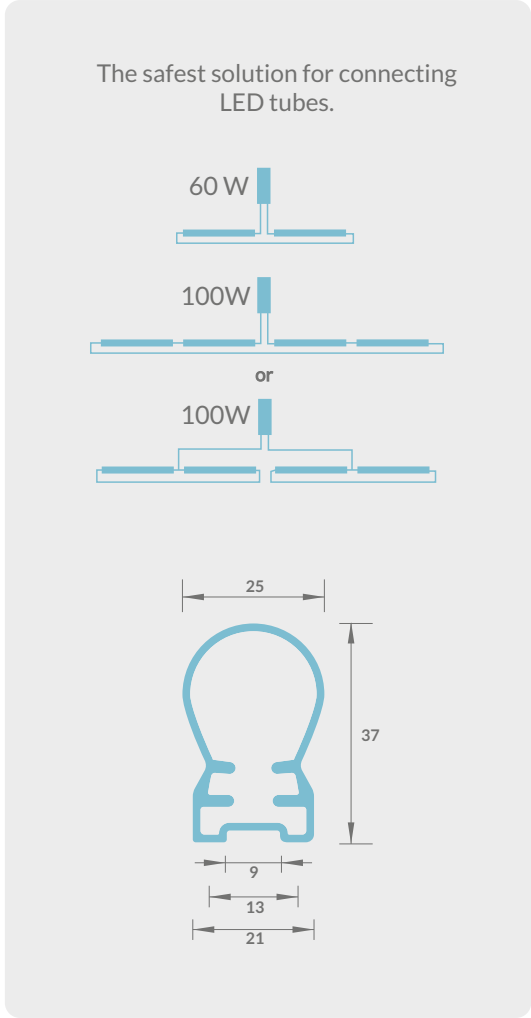
LED linear lighting system in durable polycarbonate frames

12V
24V IP 67 18W 120° 3 YEARS

- successor of neon linear lights, i.e. petrol station fittings
- 9 colors of fittings - end caps, mountings, angle and straight couplings available
- delivered as kits - 3m and 2.5m fittings and LED strips



Rigid and durable LED strips, which can be cut every 25 mm.



ACCESSORIES

model	holder	connector	angle connector	end cap						
color	transparent	transparent	transparent	transparent	white	red	yellow	orange	green	blue

type/RAL								
VOLTAGE	12V/24V							
POWER	18W							
BEAM ANGLE	120°							
IP CLASS	IP 67							
DIMENSIONS (L x W x H [mm])	3000x25x36 (PC fitting), 498x13x2 (LED strip)							
OPERATING TEMPERATURE	-40°C ~ +60 °C							
COLOR TEMPERATURE	red	blue	4200K, 6500K	green			orange	white 4200K

LED light strips

High quality LED tapes for various applications

<p>Series COB 480 LED/m 12V 11W/m 3000-3500 K 4000-4500 K 6000-6500 K</p>	<p>Series SUN 120 LED/m 24V 12W/m 3000-3500 K 4000-4500 K 6000-6500 K IP20</p>	<p>Series SUN 60 LED/m 12V 6W/m 3000-3500 K 4000-4500 K 6000-6500 K IP20</p>	<p>Frez SILICON 120 LED/m 12V 7,2W/m 3000-3500 K 4000-4500 K 6000-6500 K RED PURPLE LIGHT BLUE BLUE LIGHT PINK PINK ORANGE GREEN YELLOW</p>
<p>IP20 50 mm 25 mm 8 mm 5mb</p>	<p>IP20 50 mm 25 mm 5 mm 5mb</p>	<p>IP20 50 mm 25 mm 8 mm 5mb</p>	<p>IP66 50 mm 25 mm 6,5 mm 20mb</p>
<p>Series SUN 120 LED/m 24V 12W/m 4000-4500 K 6000-6500 K</p>	<p>Series SUN S-typ 60 LED 12V 4,8W/m 4000-4500 K 6000-6500 K 9000-12000K</p>	<p>Series RGB 60 LED 24V 14,4W/m</p>	<p>Series RGB+IC 60 LED 12V 14,4W/m</p>
<p>IP20 IP66 100 mm 50 mm 8 mm 5mb</p>	<p>IP20 IP66 100 mm 50 mm 6,5 mm 5mb</p>	<p>IP20 100 mm 50 mm 10 mm 5mb</p>	<p>IP20 100 mm 50 mm 9,5 mm 5mb</p>

STRIP LENS

Strip lens

Unique LED strip with diffuse reflection lenses.

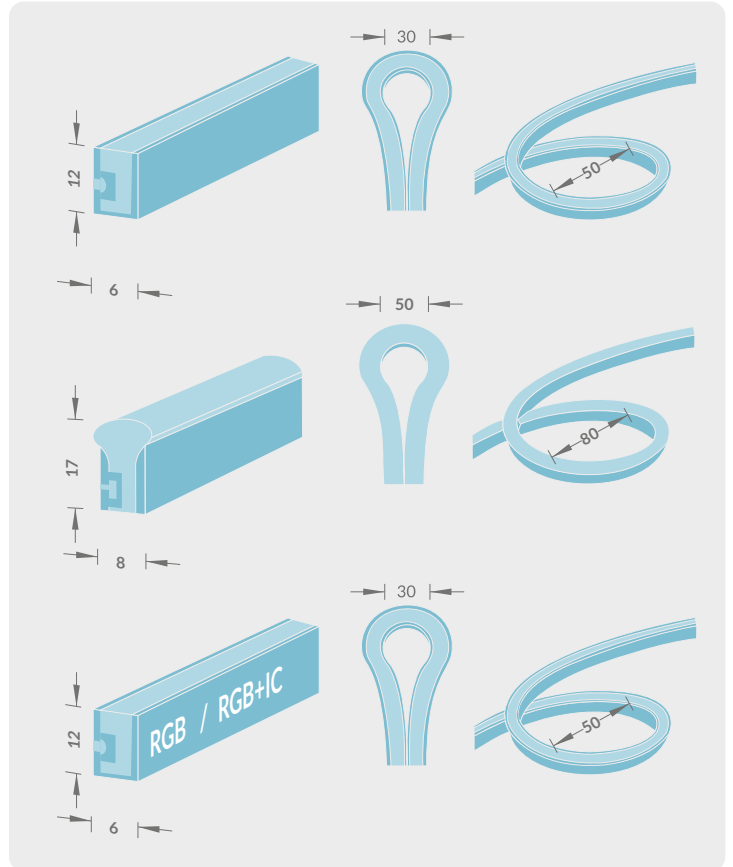
24V IP 20 175° 3 YEARS 3000K 4000K 6500K



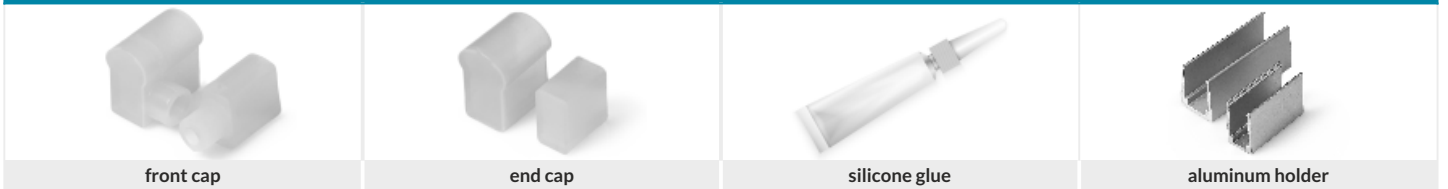
MODEL		Strip Lens
LED CHIP TYPE		2835
POWER	[W/M.]	16
COLOR TEMPERATURE	[°K]	3000K, 4000K, 6500K
IP CLASS		IP20
VOLTAGE	[V]	24
BEAM ANGLE	[°]	175
DIMENSIONS	[mm]	0.8x13x5000
CUTTING DISTANCE	[mm]	20 mm
WARRANTY	[years]	3
APPLICATION		aluminum profiles

LED Neon made with branded silicone Dow Corning

24V UV 3 YEARS IP 65



ACCESSORIES



MODEL	MINI	SMALL	RGB	RGB+IC
VOLTAGE [V]	24			12/5
POWER [W/M.]	9		12,5	17,5
COLOR TEMPERATURE [°K]	3000K, 4000K, 6500K, red, green, blue, pink, yellow		RGB	RGB+IC
IP CLASS	IP65			
CUTTING DISTANCE	EACH 5 CM OR ONE CHIP - WHITE, EACH 5 CM - COLORED		EACH 6 CM	EACH 3 CM
BEAM ANGLE [°]	180	270	180/270	180
LIGHT EFFICIENCY [lm/w]	6500K - 45lm/W, R - 25lm/W, G - 38lm/W, B - 11lm/W		-	-
DIMENSIONS [mm]	6x12x5000	8x17x5000	8x17x5000/12x20x5000	6x12x3000
DURABILITY [h]	50 000			
LED CHIP TYPE	SMD2835			
WARRANTY [years]	3			
OTHER	120 LED/linear meter		96 LED/linear meter	

YES LED NEON

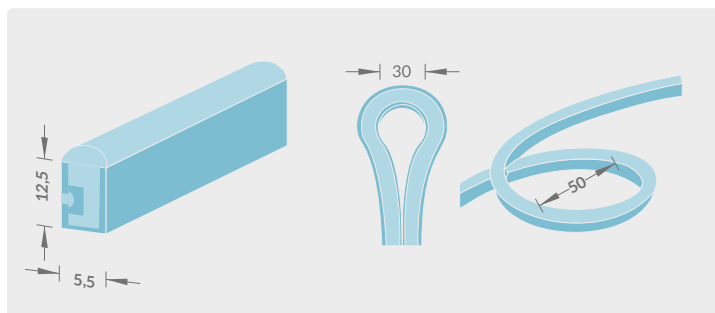
LED diodes placed in a colored shell with a cutting section every 1 cm

12V

UV

2 YEARS

IP 67



Package contents:

- Yes LED neon roll - 25 m
- aluminum clip (25mm) - 10 pieces
- back cap with holes - 10 pieces
- cap without holes - 10 pieces
- screws - 10 pieces

AKCESORIA



end cap with holes



end cap

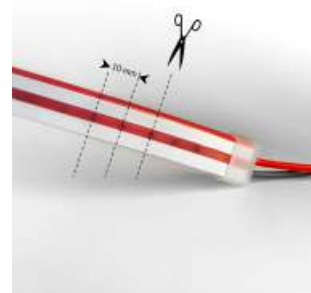


screws



aluminum holder

MODEL	YES LED NEON	
VOLTAGE	[V]	12
POWER	[W/M.]	10
COLOR TEMPERATURE	[°K]	3000, 4000, 6500, red, yellow, lemon, blue, green, pink, orange, purple, light blue, gold, RGB
IP CLASS		IP67
CUTTING DISTANCE		EACH 1 CM / EACH 28 MM - RGB
BEAM ANGLE	[°]	133
DIMENSIONS	[mm]	12,5x5,5x25000
DURABILITY	[h]	5000
LED CHIP TYPE		SMD2835
WARRANTY	[years]	2
OTHER		100 LED/linear meter



SLIM - NON-HERMETIC

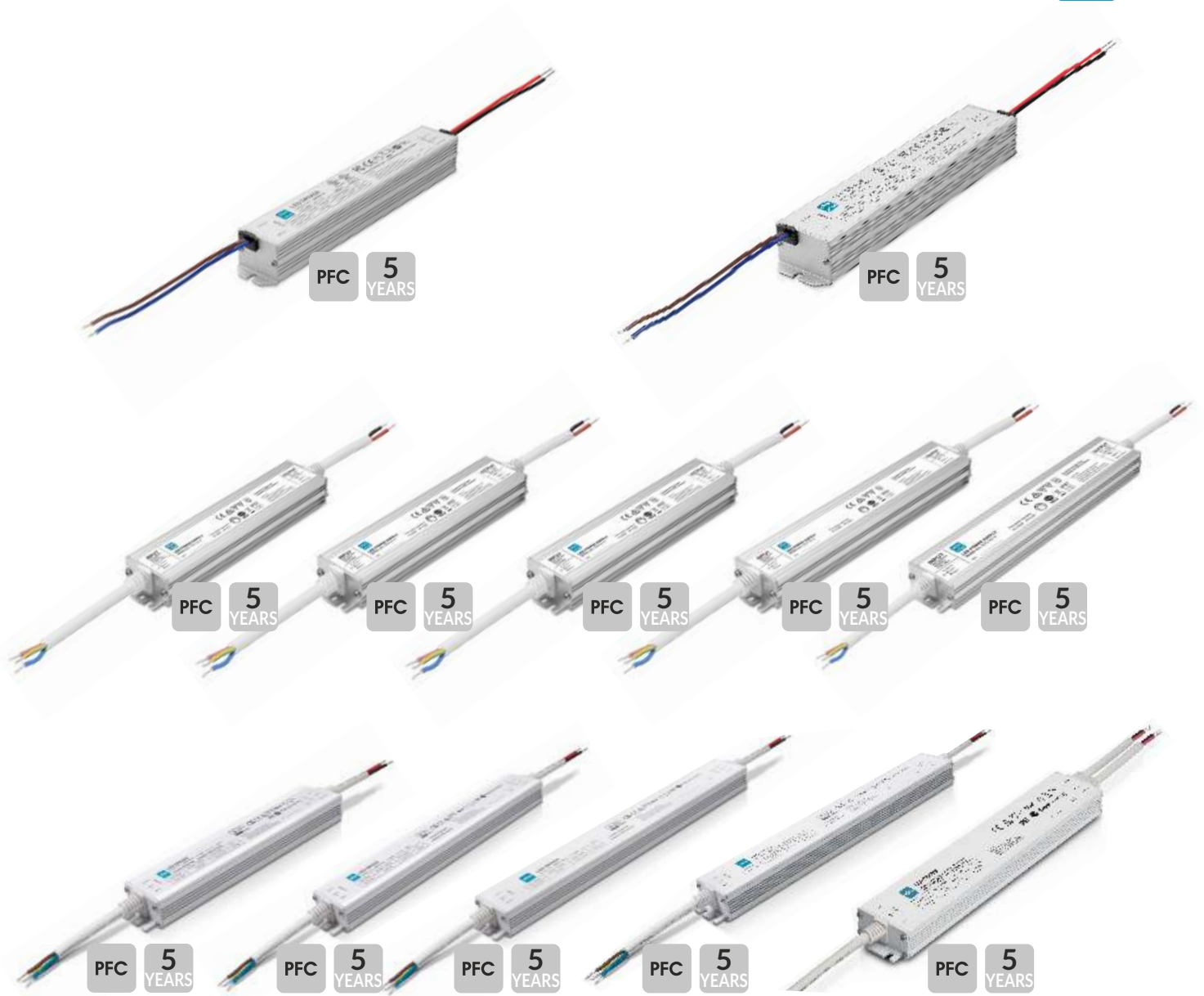


MODEL	POWER/CURRENT 12V	POWER/CURRENT 24V	DIMENSIONS	IP	PFC	WARRANTY
MEAN WELL SLD-50	50.4W/2A	50.4W/ 2.1A	280x30x16.8	IP 20	Yes	3 years
MEAN WELL SLD-80	79.2W/6.6A	79.2W/3.3A	320x30x16.8	IP 20	Yes	3 years
MEAN WELL SLD-150	144W/12A	151,2W/6,3A	330x35x22	IP 20	Yes	5 years
SLIM EPV - 36	36W/3A	-	140x45x22	IP 20	Yes	3 years
SLIM LMN -30	30W/2.5A	-	249x30x16.5	IP 20	Yes	5 years
SLIM LMN -100	100W/8.33A	-	320x30x18	IP 20	Yes	5 years
SLIM LMN -150	150W/12.5A	150W/ 6.25 A	320x30x21.5	IP 20	Yes	5 years
SLIM LMNZ - 36	36W/3A	36W/1.5A	264x30x18.5	IP 20	Yes	5 years
SLIM LMNZ - 100	150W/8.33A	150W/4.17A	334x31x22.5	IP 20	Yes	5 years
SLIM LMNZ - 200	200W/16.7A	200W/8.3A	334x31x22.5	IP 20	Yes	5 years

POWER SUPPLIES

SLIM - HERMETIC

slim CE



MODEL	POWER/CURRENT 12V	POWER/CURRENT 24V	DIMENSIONS	IP	PFC	WARRANTY
SLIM LMX - 60	60W/5A	-	157x23x20	IP 67	Yes	5 years
SLIM LMX - 100	96W/8A	96W/4A	157x29x20	IP 67	Yes	5 years
SLIM ENC - 30	30W/2.5A	30W/1.25A	182x36x21	IP 67	Yes	5 years
SLIM ENC - 45	45W/3.75A	45W/1.87A	182x36x21	IP 67	Yes	5 years
SLIM ENC - 60	60W/5A	60W/2.5A	202x36x21	IP 67	Yes	5 years
SLIM ENC - 100	100W/8.33A	100W/4.16A	217x36x21	IP 67	Yes	5 years
SLIM ENC - 150	150W/12.5A	150W/6.25A	255x45x21	IP 67	Yes	5 years
SLIM LMW - 30	30W/2.5A	-	240x35x20	IP 67	Yes	5 years
SLIM LMW - 60	60W/5A	-	295x35x20	IP 67	Yes	5 years
SLIM LMW - 100	100W/8.33A	100W/4.16A	309x35x23	IP 67	Yes	5 years
SLIM LMW - 150	150W/12.5A	150W/6.25A	309x35x23	IP 67	Yes	5 years
SLIM LMW - 200	200W/16.6A	200W/8.3A	256x45x23	IP 67	Yes	5 years

Mean Well LED power supplies



MODEL	POWER/CURRENT 12V	POWER/CURRENT 24V	DIMENSIONS	IP	PFC	WARRANTY
APV-8	8W/0.67A	8W/0.3A	60x30x23.5	IP 42	No	3 years
APV-12	12W/1A	12W/0.5A	77x40x29	IP 42	No	3 years
APV-25	25W/2.1A	25W/1.05A	84x57x29.5	IP 42	No	3 years
LPH-18	18W/1.5A	18W/0.75A	140x30x22	IP 67	No	3 years
LPV-20	20W/1.67A	20W/0.84A	118x35x26	IP 67	No	3 years
LPV-35	36W/3A	36W/1.5A	148x40x30	IP 67	No	3 years
LPV-60	60W/5A	60W/2.5A	162.5x42.5x32	IP 67	No	3 years
LPV-100	100W/8.5A	100W/4.2A	190x52x37	IP 67	No	3 years
LPV-150	120W/10A	151.2W/6.3A	191x63x37.5	IP 67	No	3 years
ELG-75	60W/5A	75.6W/3.15A	180x63x35.5	IP 65/67	Yes	5 years
ELG-150	132W/11A	150W/6.25A	219x63x35.5	IP 65	Yes	5 years
ELG-200	192W/16A	201.6W/8.4A	244x71x37.5	IP 65/67	Yes	5 years

POWER SUPPLIES



PFC 5 YEARS



PFC 5 YEARS



PFC 5 YEARS



PFC 5 YEARS



PFC 5 YEARS

MODEL	POWER/CURRENT 12V	POWER/CURRENT 24V	DIMENSIONS	IP	PFC	WARRANTY
XLG-75	60W/5A	74.4W/3.1A	140 x 63 x 32	IP 67	Yes	5 years
XLG-100	96W/8A	96W/4A	140 x 63 x 32	IP 67	Yes	5 years
XLG-150	150W/12.5A	150W/6.25A	180 x 63 x 35.5	IP 67	Yes	5 years
XLG-200	192W/16A	199.2W/8.3A	199 x 63 x 35.5	IP 67	Yes	5 years
XLG-320 V	216W/18A	312W/13A	246 x 77 x 39.5	IP 67	Yes	5 years



3
YEARS



3
YEARS



3
YEARS



PFC **7**
YEARS



PFC **7**
YEARS



PFC **7**
YEARS



PFC **7**
YEARS



PFC **3**
YEARS

MODEL	POWER/CURRENT 12V	POWER/CURRENT 24V	DIMENSIONS	IP	PFC	WARRANTY
LRS-35	36W/3A	36W/1.5A	99x82x30	IP 20	No	3 years
LRS-50	50.4W/4.2A	51.8/2.2A	99x82x30	IP 20	No	3 years
LRS-75	72W/6A	76,8W/3.2A	99x97x30	IP 20	No	3 years
LRS-100	102W/8.5A	108W/4.5A	129x97x30	IP 20	No	3 years
LRS-150	150W/12.5A	156W/6.5A	159x97x30	IP 20	No	3 years
HLG-150	150W/12.5A	151.2/6.3A	228x68x38.8	IP 67	Yes	7 years
HLG-240	192W/16A	240W/12A	244x68x38.8	IP 67	Yes	7 years
HLG-320	264W/22A	320.1W/13.34A	252x90x43	IP 67	Yes	7 years
HLG-600	480W/40A	600W/25A	280x144x48.5	IP 67	Yes	7 years
ERPF-400	360W/30A	400W/16.7A	220x130x48	IP -	Yes	3 years

LED CONTROLLERS

LED Controllers

Controllers, dimmers, flashers and smart devices

Controllers

<p>Controller MINI RGB 72W 1x6A</p>  <p>43x13x4</p>	<p>Controller RGB 3x80W 3x6 6A</p>  <p>80x64x24</p>	<p>Controller RGB 360W 3x10A</p>  <p>91x88x24</p>	<p>Digital Controller Multi RGB+IC (max1903)</p>  <p>160x46x25</p>	<p>Controller Multi RGB/RGBW 2in1 1x5A or 4x4A</p>  <p>70x40x20</p>	<p>Controller Multi RGBW 4x8A 384W</p>  <p>91x88x24</p>	<p>Controller RGBW 4x8A 384W</p>  <p>91x88x24</p>
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Dimmers

<p>Dimmer MINI RGB 72W 1x6A</p>  <p>43x13x4</p>	<p>Dimmer MINI 96W 1x8A</p>  <p>63x35x20</p>	<p>Dimmer 300W 1x25A</p>  <p>127x57x35</p>	<p>Dimmer Multi 300W 1x25A</p>  <p>127x57x35</p>	<p>Dimmer HOME 300W 1x25A</p>  <p>127x57x35</p>	<p>Dimmer 360W 3x10A</p>  <p>91x88x24</p>	<p>Dimmer 360W 30A</p>  <p>63x35x20</p>
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Other

<p>Dusk sensor ORNO 2000W</p>  <p>57x37x24</p>	<p>Controller MULTI CCT 360W 3x10A</p>  <p>91x88x24</p>	<p>Controller CCT T4 /dimmer 360W 2x15A (remote control of your choice)</p>  <p>103x40x24</p>
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 - Voltage range 5-24V

 - Voltage range 12-24V

 - RJ45 Interface

 - Dimming function

 - Smooth color change

GLASS FOR NEON PRODUCTION

	HT 20 15000 K		HD 51 Bright green
	PT 20 Bright super white 8000 K		HV 51 Multi green
	HT 16 Tri-base-white 8000 K		PT 52 Fresh green
	PT 21 Snow white 6500 K		PT 53 Aquamarine
	HC 14 Standard white		HT 72 Ocean blue
	HT 18 4500K		HT 71 Tri-base-blue
	HT 13 3500K		HD 71 Coated blue
	HT 19 3000 K		HD 72 Coated deep blue
	HT 17 2700K		HV 71 Multi-blue
	HT 15 2400 K		PT 81 Dip purple
	HT 42 Bright yellow		HV 81 Multi-violet
	HD 32 Coated grass yellow		HT 82 Purple red
	HD 41 Gold yellow		HT 22 Tri-base-peach red
	HV 41 Multi-yellow		HT 21 Tri-base-red
	PT 54 Tri-base-green		HD 42 Orange
	HC 51 Standard green		HV 42 Multi orange
	HV 52 Multi light green		HV 23 Multi red
	MG		HV 23 Ne

NEON ACCESSORIES

ELECTRODES



HIGH VOLTAGE SILICON CABLES

TUBE HOLDERS

SILICON CAPS

TESTERS



CE CERTIFIED ELECTRONIC POWER SUPPLIES
FOR NEON LIGHTS
WITH DIMMER POWER CABLE WITH A SWITCH

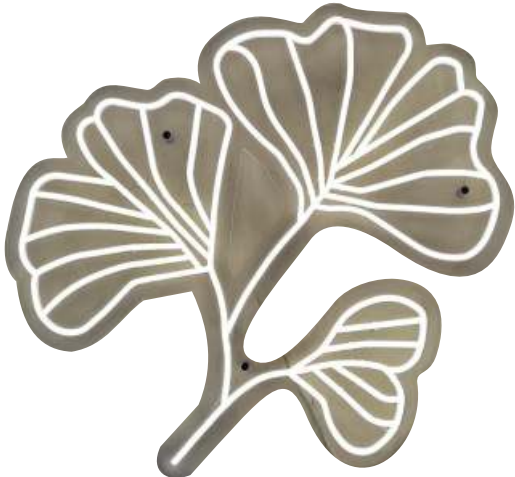
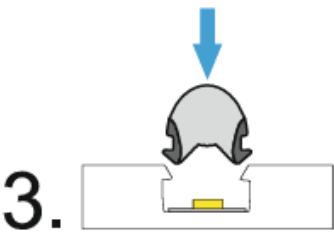
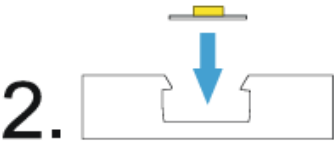
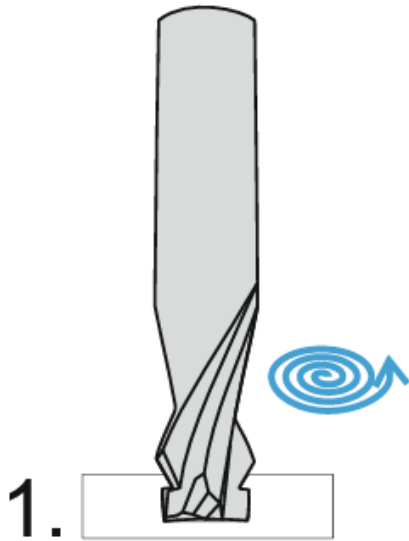


BROLLO SIET HIGH VOLTAGE ELECTROMECHANICAL TRANSFORMERS
FROM 1000 to 15000 V WITH WORKING CURRENT FROM 25 to 50 mA



An alternative to LED neon lights for indoor use

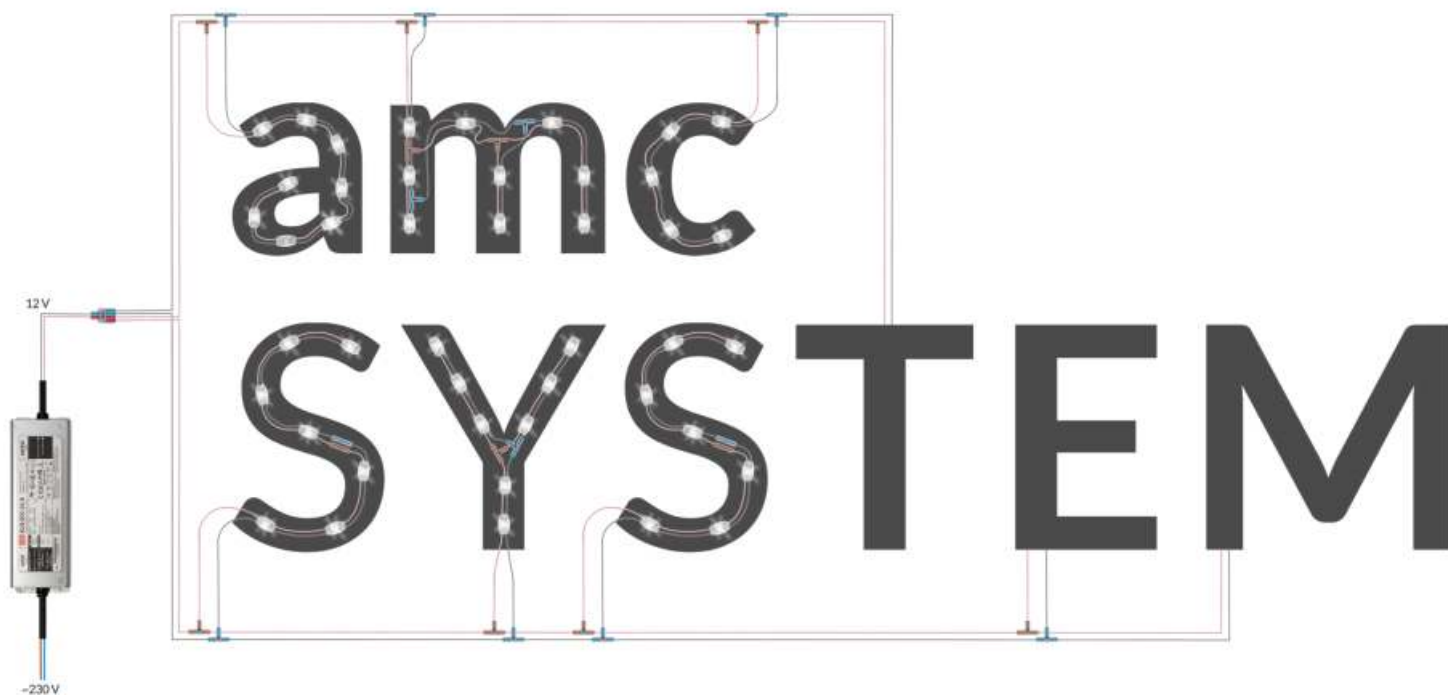
System in which at first the selected pattern is milled in Plexiglass with a minimum thickness of 8mm, and then a special LED strips is glued in, which can be bent at will, and at the very end the silicone is installed in the color of the LED strip. The silicone and the milling cutter are available in two widths - 6 mm and 8 mm, and the milling cutter shank is 6 mm and 10 mm.



MODEL		LED frez strip
LED CHIP TYPE		2835
POWER	[W/M.]	7.2 W/linear meter
COLOR TEMPERATURE	[°K]	3000K, 4000K, 6500K, yellow, orange, red, light pink, pink, purple, blue, light blue, green
IP CLASS		IP20
VOLTAGE	[V]	12
BEAM ANGLE	[°]	180
DIMENSIONS	[mm]	6.5x1000
CUTTING DISTANCE	[mm]	25 mm
WARRANTY	[years]	3
OTHER		120 LED/linear meter, cutting each 3 chips, UV resistance

WIRING CONNECTORS

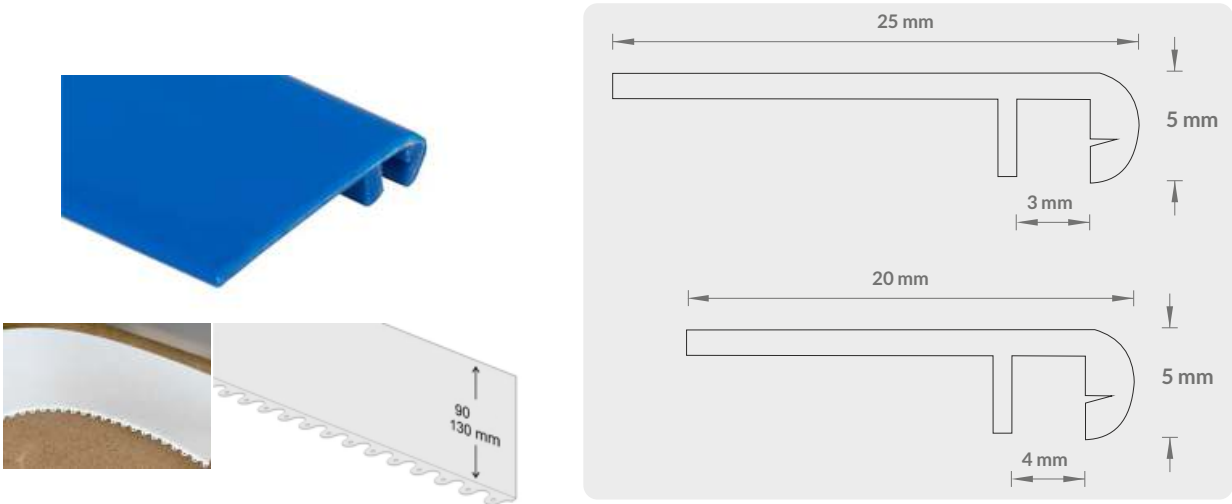
CONVENIENT AND QUICK TO USE



No:	Model
1	Wiring connector 1:1 blue
2	Wiring connector 1:1 orange/gray
3	Wiring connector 1:1 yellow
4	Wiring connector 1:1 orange/colorless
5	Wiring connector 1:2; „T”- shape blue/gray
6	Wiring connector 1:2; T”- shape orange/gray
7	Wiring connector 1:2; T”- shape blue
8	Wiring connector 2:4; 2 entries - 4 outlets
9	Wiring connector 2:6; 2 entries - 6 outlets
10	Wiring connector 3:9; 3 entries - 9 outlets

Plastic tape used to produce letters

Flexible and durable edge tape with a metal core, which is an excellent solution for building block letters. We offer elkamet, which is 25 mm wide and comes in two widths of groove for gluing plexiglass (3 mm and 4 mm). 3 mm width is available in 50 meter rolls and 4 mm width in 4 meters.

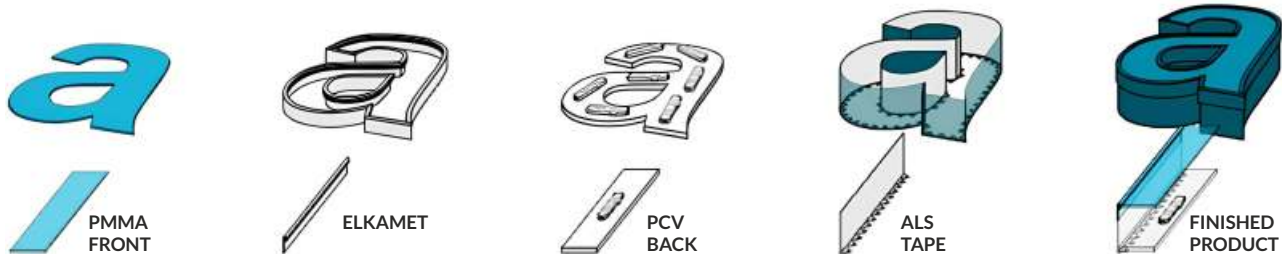


Available colors



ALS tape

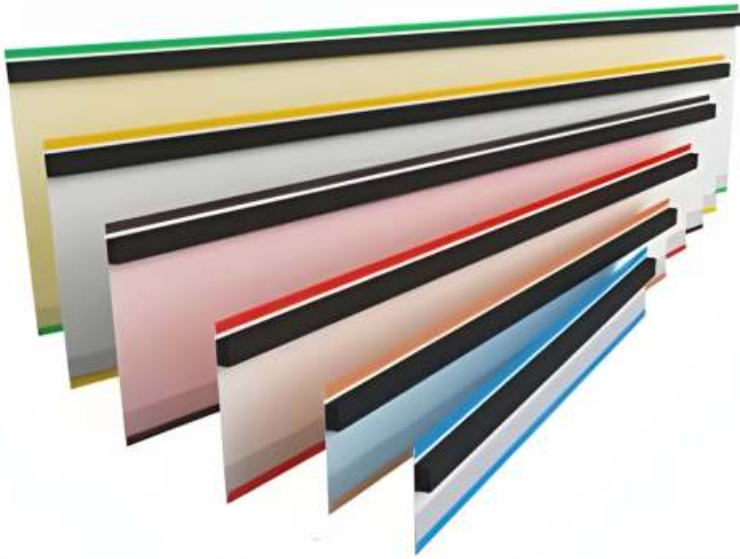
Additionally, in combination with elkamet (F-kamet), you can use ALS tape. This is a prefabricated aluminum tape for the production of block letters. On the back side of the letter, the tape is equipped with angled protrusions allowing for convenient and precise installation. Available in white color and two widths - 90 mm and 130 mm.



3D TAPE

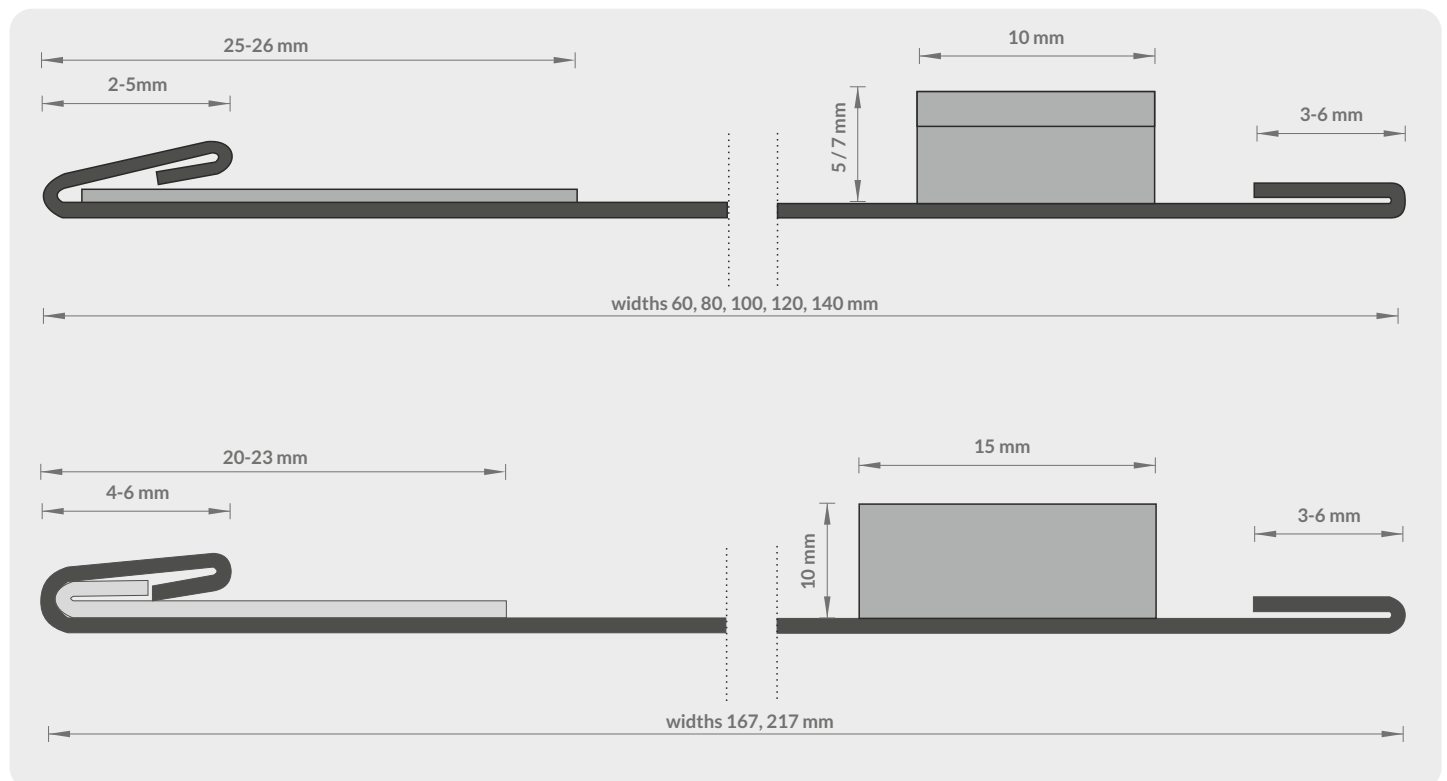
Aluminum tape for building three-dimensional forms

Made of 0.5 mm thick aluminum, painted in the RAL system, with a structure of 40% matt and 60% gloss. Allows the construction of letters from 30 cm to 200 cm.



The 3D profile is made of aluminum tape. It is available in widths: 60, 80, 100, 120, 140, 167 and 217 mm. It is used to create spatial structures, including letters with a height of 30 cm to 200 cm.

In the construction of letters, this tape acts as the main load-bearing element, shaping a compact and stable body, which is the finished product - a channel letter.





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