

OptiKa 777

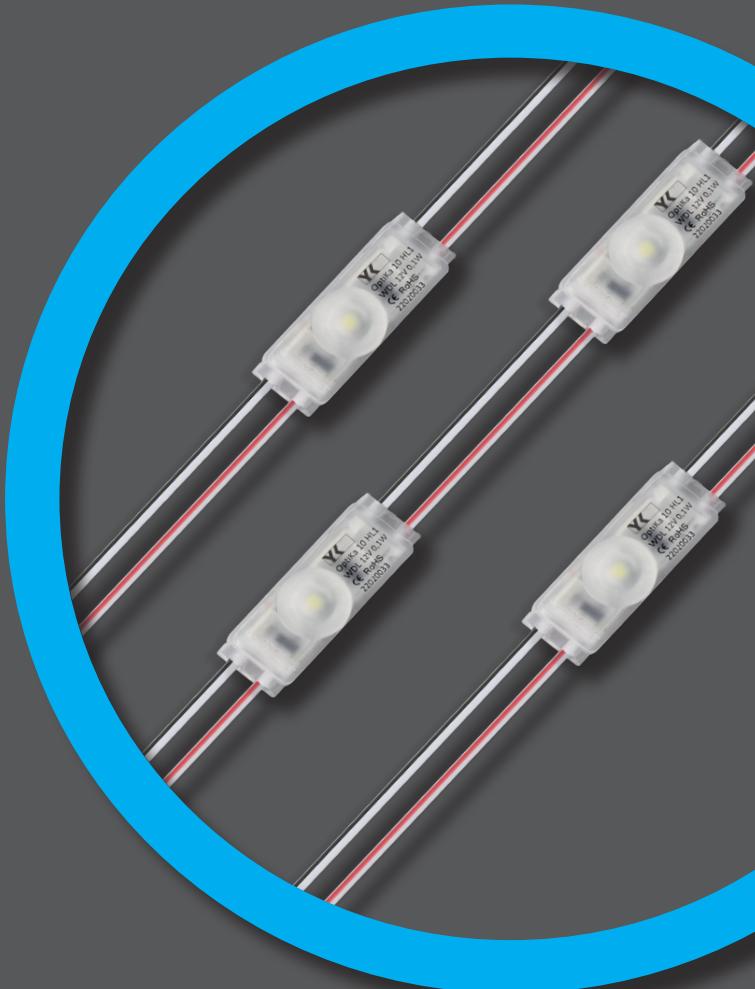
Signage – Backlighting

10-20-30 HL1

**7 YEARS
70.000 hrs
L70**

**Long Life & Warranty
packed in the thinnest module**

- ▶ Optimised 150° lens for backlighting surfaces or letters with few modules. Allows bright and very uniformly lit applications from 30mm (1.2 in) depth
- ▶ For Block letters and 30mm deep very uniformly lit applications
- ▶ Up to 113lm/W Tiny 10, 20 & 30 lm module with regulation
- ▶ Choose from 5 different white color temperatures
- ▶ IP67 rated for outdoor applications
- ▶ MacAdam ellipse 3 to achieve Consistent light



YAKI
3 allée des vignes,
91160 CHAMPLAN - FRANCE

OptiKa 10-20-30 HL1

FEATURES & BENEFITS

- Optimised lens for backlighting surfaces or letters with few modules. Allows bright and very uniformly lit applications from 30mm (1.2 in) depth
- Flexible chains with 100 modules cuttable anywhere
- New 150° IRISLENS achieves superior light distribution like you haven't seen before. Allows unparalleled uniformity
- IP67 rated for outdoor applications
- Durability: Robust body made with innovative thermally conductive plastic and PC lens , both UV rated
- Up to 113 lm/W efficiency brings your customer high energy savings
- Choose between 2 distances between modules: 68 or 152mm
- All modules are equipped with regulation component (11-14V) to ensure that any fluctuation of the output voltage from the converter would not affect the lumen output, increase of temperature or life time of the module
- 3M VHB 4950 adhesive-tape
- DC 12V
- 100% aging test
- Wide operating temperature from -30° to +75°C

TECHNICAL DATA

Code	Designation	Color	ColorTemp / wavelength	Volt-age (V)	Typical power/mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Mod-ules / chain	Modules max in series	Module distance - axe to axe (mm / in)
22020031	OptiKa 10 HL1 WS 100mod 68mm 0,1W 12V IP67	WS	8700-10000K	12	0,09	9	100	100	100	68±5 / 2,68"
22020032	OptiKa 10 HL1 OW 100mod 68mm 0,1W 12V IP67	OW	6800-7500K	12	0,09	10	105	100	100	68±5 / 2,68"
22020033	OptiKa 10 HL1 WDL 100mod 68mm 0,1W 12V IP67	WDL	6000-6500K	12	0,09	10	113	100	100	68±5 / 2,68"
22020034	OptiKa 10 HL1 NW 100mod 68mm 0,1W 12V IP67	NW	3850-4250K	12	0,09	10	112	100	100	68±5 / 2,68"
22020035	OptiKa 10 HL1 WW 100mod 68mm 0,1W 12V IP67	WW	2900-3100K	12	0,09	10	111	100	100	68±5 / 2,68"
22020036	OptiKa 20 HL1 WS 100mod 68mm 0,2W 12V IP67	WS	8700-10000K	12	0,19	18	98	100	100	68±5 / 2,68"
22020037	OptiKa 20 HL1 OW 100mod 68mm 0,2W 12V IP67	OW	6800-7500K	12	0,19	19	103	100	100	68±5 / 2,68"
22020038	OptiKa 20 HL1 WDL 100mod 68mm 0,2W 12V IP67	WDL	6000-6500K	12	0,19	21	111	100	100	68±5 / 2,68"
22020039	OptiKa 20 HL1 NW 100mod 68mm 0,2W 12V IP67	NW	3850-4250K	12	0,19	20	109	100	100	68±5 / 2,68"
22020040	OptiKa 20 HL1 WW 100mod 68mm 0,2W 12V IP67	WW	2900-3100K	12	0,19	20	108	100	100	68±5 / 2,68"
22020005	OptiKa 30 HL1 WS 100mod 68mm 0,3W 12V IP67	WS	8700-10000K	12	0,28	27	95	100	100	68±5 / 2,68"
22020004	OptiKa 30 HL1 OW 100mod 68mm 0,3W 12V IP67	OW	6800-7500K	12	0,28	28	100	100	100	68±5 / 2,68"
22020003	OptiKa 30 HL1 WDL 100mod 68mm 0,3W 12V IP67	WDL	6000-6500K	12	0,28	30	106	100	100	68±5 / 2,68"
22020002	OptiKa 30 HL1 NW 100mod 68mm 0,3W 12V IP67	NW	3850-4250K	12	0,28	30	105	100	100	68±5 / 2,68"
22020001	OptiKa 30 HL1 WW 100mod 68mm 0,3W 12V IP67	WW	2900-3100K	12	0,28	29	103	100	100	68±5 / 2,68"
22020063	OptiKa 30 HL1 WDL 50mod 152mm 0,3W 12V IP67 x2	WDL	6000-6500K	12	0,28	30	106	50	50	152±5/5,36"
22020076	OptiKa 30 HL1 WW 50mod 152mm 0,3W 12V IP67 x2	WW	2900-3100K	12	0,28	29	103	50	50	152±5/5,36"
22020077	OptiKa 30 HL1 R 100mod 68mm 0,32W 12V IP67	R	625-630 nm	12	0,32	12	38	100	100	68±5 / 2,68"
22020078	OptiKa 30 HL1 G 100mod 68mm 0,32W 12V IP67	G	520-525 nm	12	0,32	18	56	100	100	68±5 / 2,68"
22020079	OptiKa 30 HL1 B 100mod 68mm 0,32W 12V IP67	B	465-470 nm	12	0,32	4	13	100	100	68±5 / 2,68"

Tolerance range for optical and electrical data: ±15 %.

NORMS & CERTIFICATES

- EN55015:2013
- EN61547:2009
- EN61000-3-2:2014
- EN61000-3-3:2013
- EN62031:2008 + A1:2013
- IEC62321:2013
- EN62471:2008

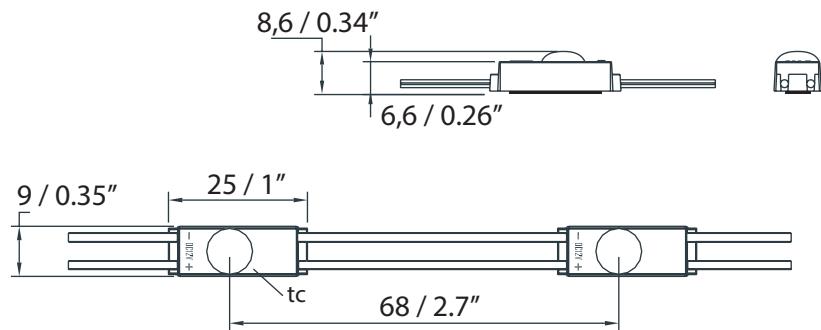


LIFETIME & WARRANTY

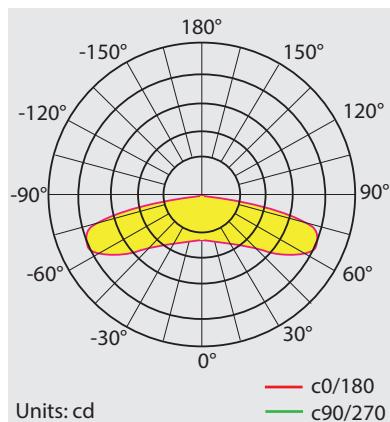
- Warranty: 7 years
- Lifetime: 70.000 hrs at L70

OptiKa 10-20-30 HL1

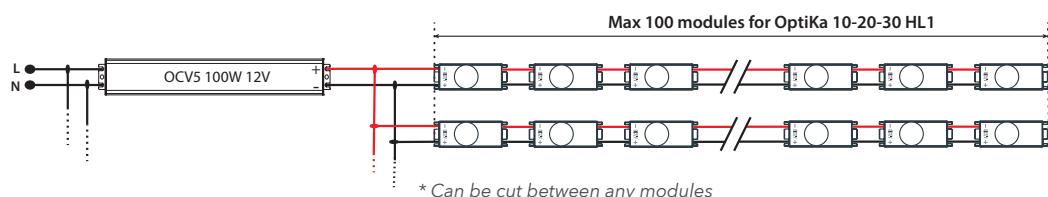
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM



APPLICATION

RECOMMENDED MODULES PER TYPE OF SIGNAGE

TYPE	Depth of letter or box to be illuminated (mm)					
	BLOCKLED (30mm)	<50mm <2in	50 to 80mm 2 to 3in	80 to 120mm 3 to 4,7in	120 to 150mm 4,7 to 6in	>150mm >6in
OptiKa 10/20/30 HL1	***	***	***			
OptiKa 35/70 HL2		**	***	***	**	
OptiKa 100 HL3			**	***	***	
OptiKa 90 HL1			**	***	***	
OptiKa 180 HL2			**	***	***	
OptiKa 270 HL3			**	***	***	

* To be tested

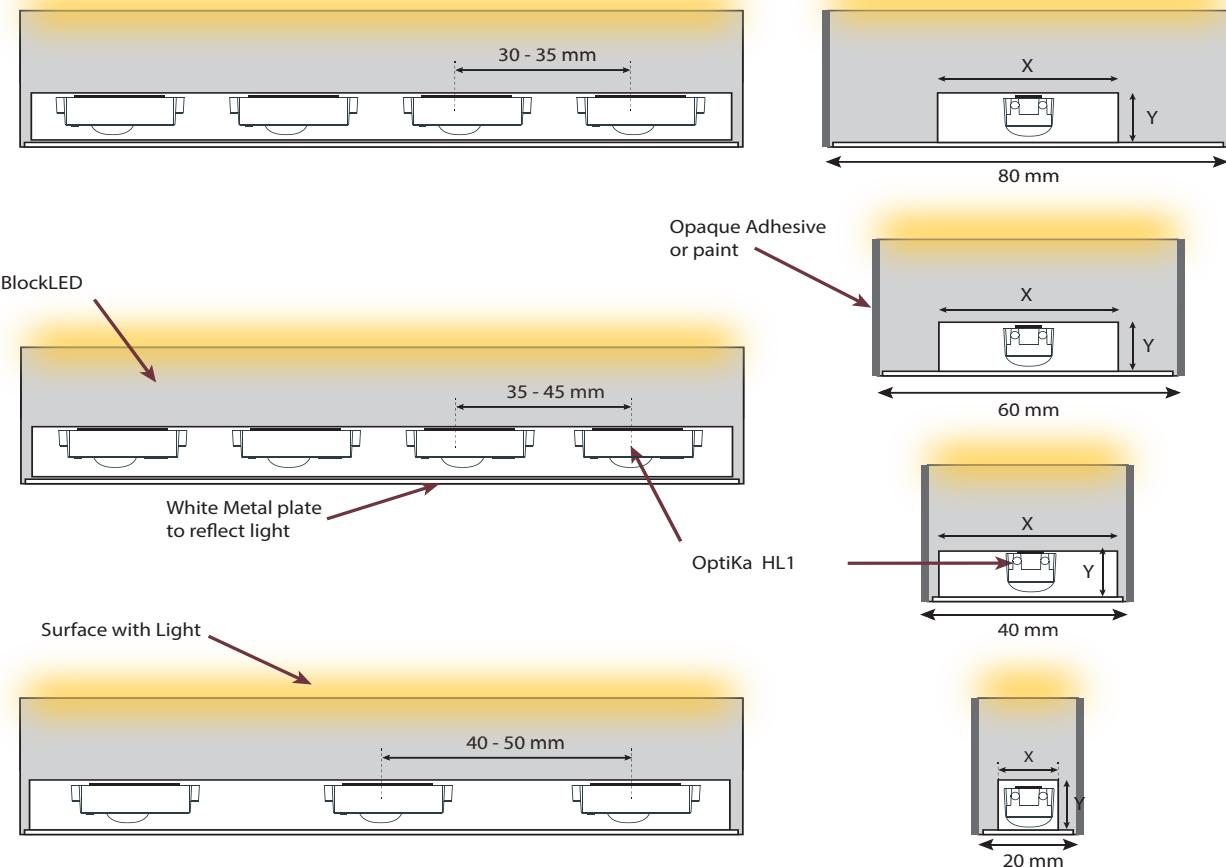
** Possible under conditions

*** Optimum

OptiKa 10-20-30 HL1

APPLICATION - BlockLED

- Data and dimensions are given as recommendations based on standard 30mm BlockLED. Tests are always required for final confirmation. Always make a test or prototype to confirm results for your specific project.
- The light uniformity of your sign can be improved by creating different "holes" into the block. We recommend you to make tests how to achieve the best result (X & Y dimensions are critical to the width of the BlockLED letter).



OptiKa 10-20-30 HL1

INGRESS PROTECTION IP67

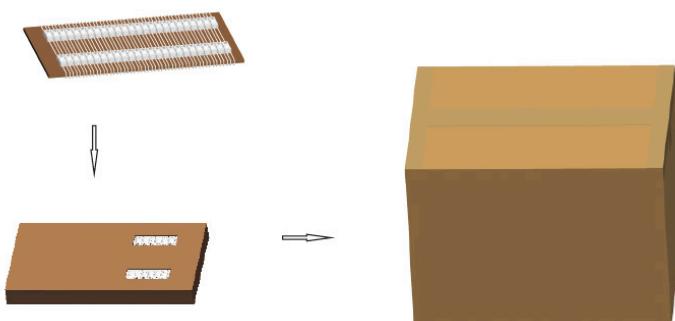
- ▶ Product is an "inbuilt LED module" designed to be used Indoors or Outdoors.
- ▶ The specified environmental protection of the LED module enclosure means that:
It is totally protected against the ingress of dust, and protected against the effect of water immersion up to 1 mtr.
- ▶ The certification requires products to pass a test 30 minutes long at 1 mtr. depth. After 30 minutes of submersion product could start to be affected or damaged.
- ▶ Make sure the application (sign, box, etc.) where the LED modules are installed into, has proper drain holes for water to exit so that LED modules and any other electronic components are not submerged exceeding the IP67 certification limits.

INSTALLATION

- ▶ Always connect the LED modules to the power supply while it is OFF. Only then you can connect the power supply to electricity and turn it ON.
- ▶ Respect the maximum number of modules in a row.
- ▶ Check compatibility between LED and driver voltage.
- ▶ Install LED on a clean work station connected to the earth. all LEDs are sensitive to static electricity (ESD).
- ▶ Limit the cable length between LED and power supply (voltage drop).
- ▶ Do not make direct pressure on LED chip, this could damage the internal connection.
- ▶ Secure LED module lines with mechanical fixation (screws, glue ...) in addition to the adhesive tape.

PACKAGING

	Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (Kg)	Weight (lb)	Nb of Pcs / box
CARTON	OptiKa HL1	40x30x29	1,3x1x1,1	8,9	19,6	28



THERMAL BEHAVIOUR

The temperature limits indicated below are expressed in °C, at full load, after 3 hrs of operation conditions, with natural convection:

- | | |
|-----------------------------|------------------|
| ▶ Operation temperature | Ta -30° to +75°C |
| ▶ Storage temperature | Ts -30° to +80°C |
| ▶ Max. temperature tc point | Tc +80°C |

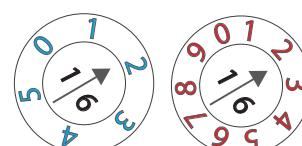
The life of the module will decrease when the maximum temperature limits are exceeded.

If LEDs are operated for a continuous extended time at temperatures that exceed the maximum limits, the modules can fail.

Our Warranty will be void when LED modules are operated exceeding the maximum values indicated.

IDENTIFICATION

- ▶ You can find the following production date code at the back of the module.



Production's Week 22

Production's year 2016