

# MONOPIX EVO

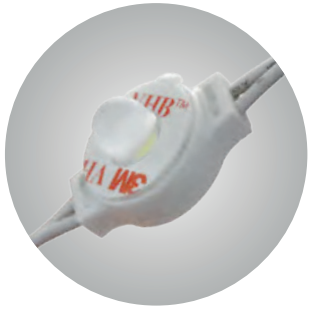
SIGNAGE - Pixel Lighting

Light up your sign  
and see it shine even  
under direct sunlight!



**5 YEARS**  
**50.000hrs**  
**L50**

- Pixel or Neon-like applications
- Special 50° lens and outdoor treatment
- 3 whites, 6 colors and RGB
- Small and robust. IP67 design



**5 YEARS**  
**50.000hrs**  
**L50**



IP67



50°  
VISION 120°



100 MOD. MAX  
IN SERIES



CUTTABLE  
EVERY 1 MOD.



12V



11 TO 17V



40 TO 12,5  
MOD./ML

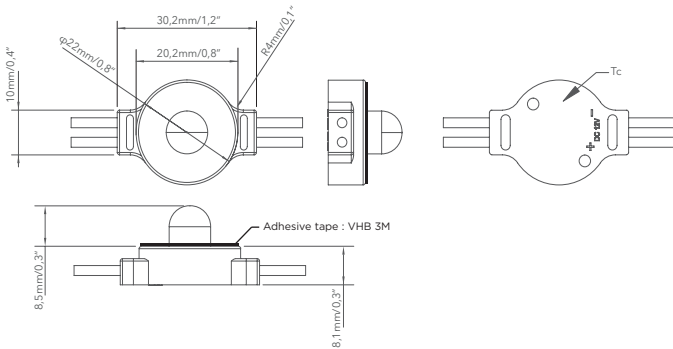


-30°/+55°C

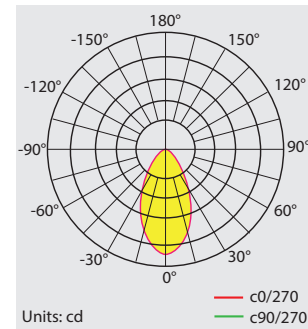
## TECHNICAL DATA

Code	Designation	Color Temp / wavelength	Typical power/ mod (W)	Lumen output (lm/mod)	Efficiency (Lm/W)	Mod / chain	Module distance - axe to axe (mm / in)
21820071	Monopix EVO9 WS 100mod 80mm 0,24W 12V IP67	WS 7700-8900K	0,24	20	83	100	80±5/3"
21820072	Monopix EVO9 WDL 100mod 80mm 0,24W 12V IP67	WDL 5900-6600K	0,24	21	88	100	80±5/3"
21820073	Monopix EVO9 WW 100mod 80mm 0,24W 12V IP67	WW 2850-3450K	0,24	20	83	100	80±5/3"
21820074	Monopix EVO9 R 100mod 80mm 0,24W 12V IP67	R 620-625nm	0,24	5,5	22	100	80±5/3"
21820075	Monopix EVO9 G 100mod 80mm 0,24W 12V IP67	G 520-525nm	0,24	14	58	100	80±5/3"
21820076	Monopix EVO9 B 100mod 80mm 0,24W 12V IP67	B 465-475nm	0,24	3	12	100	80±5/3"
21820077	Monopix EVO9 A 100mod 80mm 0,24W 12V IP67	A 585-595nm	0,24	4,5	16	100	80±5/3"
21820078	Monopix EVO9 O 100mod 80mm 0,24W 12V IP67	O 600-610nm	0,24	7,2	30	100	80±5/3"
21820079	Monopix EVO9 P 100mod 80mm 0,24W 12V IP67	P 605-615nm	0,24	1,8	7,5	100	80±5/3"
21820111	Monopix EVO9 RGB 50mod 80mm 0.72W 12V IP67	RGB R: 625±5 nm G: 525±5nm B: 465±5nm	R: 0,24 G: 0,24 B: 0,24	R: 1,7 G: 3,2 B: 1,0	R: 7,1 G: 13,3 B: 4,2	50	80±5/3"

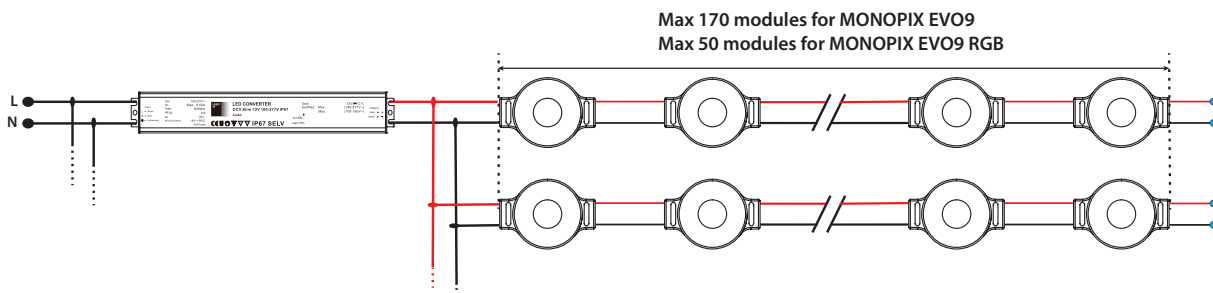
## DIMENSIONS



## LIGHT DISTRIBUTION



## WIRING DIAGRAM





**5 YEARS**  
**50,000hrs**  
**L50**



IP67



50°  
VISION 120°



50 MOD. MAX  
IN SERIES



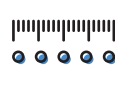
CUTTABLE  
EVERY 1 MOD.



12V



12V



50 TO 17  
MOD./ML

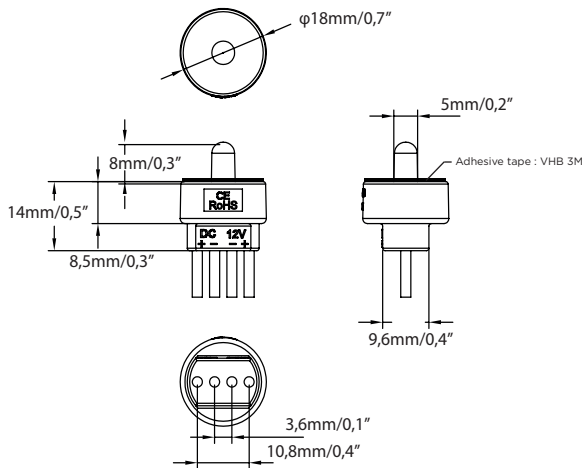


-20°/+55°C

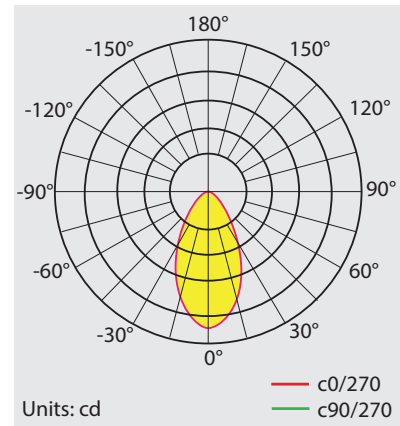
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Code	Designation	Color Temp / wavelength	Typical power/ mod (W)	Lumen output (lm/mod)	Efficiency (Lm/W)	Mod / chain	Module distance - axe to axe (mm / in)
21820306	Monopix EVO5 WS 50mod 70mm 0,2W 12V IP67	WS 7300-8400K	0,2	14	70	50	70±5/2,8"
21820307	Monopix EVO5 WDL 50mod 70mm 0,2W 12V IP67	WDL 5700-6400K	0,2	14	70	50	70±5/2,8"
21820308	Monopix EVO5 WW 50mod 70mm 0,2W 12V IP67	WW 2700-3300K	0,2	13	65	50	70±5/2,8"
21820309	MonoPix EVO5 R 50mod 70mm 0,2W 12V IP67	R 620-625nm	0,2	5,5	28	50	70±5/2,8"
21820310	MonoPix EVO5 G 50mod 70mm 0,2W 12V IP67	G 520-530nm	0,2	12	60	50	70±5/2,8"
21820311	MonoPix EVO5 B 50mod 70mm 0,2W 12V IP67	B 465-475nm	0,2	2,5	13	50	70±5/2,8"
21820322	Monopix EVO5 A 50mod 60mm 0,24W 12V IP67	A 585-595nm	0,24	2,5	10	50	60±5/2,4"

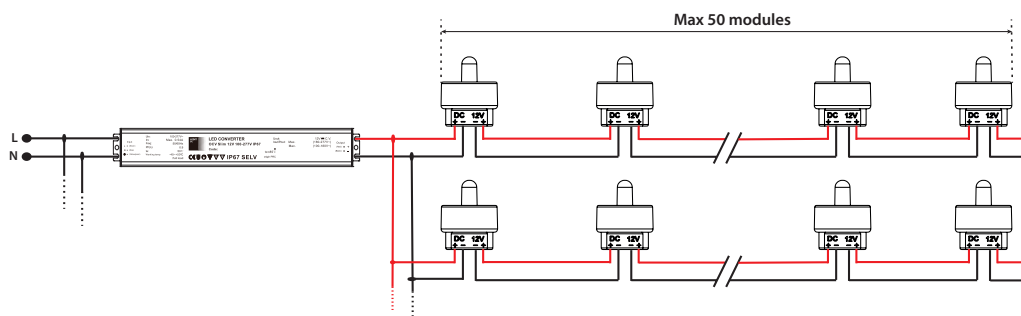
## DIMENSIONS



## LIGHT DISTRIBUTION

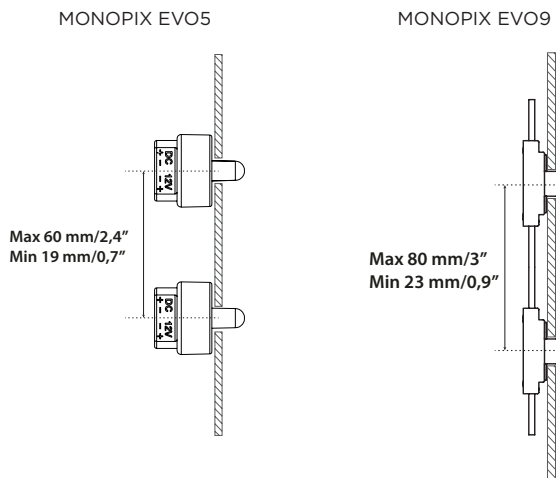


## WIRING DIAGRAM



### APPLICATION

- ▶ Hole diameter:  
> 5mm for MONOPIX EVO5  
> 9mm for MONOPIX EVO9
- ▶ Mounting plate thickness between 2 to 6 mm
- ▶ 52 to 16 modules per meter for MONOPIX EVO5  
45 to 13 modules per meter for MONOPIX EVO9



### 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.

### INGRESS PROTECTION IP67

The 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 that 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.

### NORMS & CERTIFICATES

- ▶ EN55015:2013+A1:2015
- ▶ EN61547:2009
- ▶ EN60598-1:2015+A1:2018
- ▶ EN60598-2-20:2015
- ▶ EN62031:2008+A1:2013+A2:2015
- ▶ EN62471:2008
- ▶ EN62493:2015



## THERMAL BEHAVIOUR

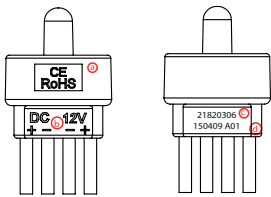
The temperature limits indicated below are expressed in °C, at full load, after 3h of operation conditions, with natural convection:

- ▶ Operation temperature Ta -20°C to +55°C
- ▶ Storage temperature Ts -20°C to +60°C
- ▶ Max. temperature Tc point +80°C

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

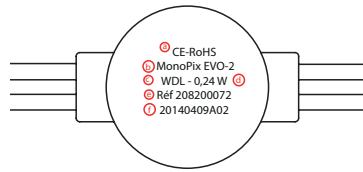
Operating for a continuous extended time at temperatures exceeding the maximum limits, the modules can fail and our warranty will be void.

## IDENTIFICATION



MONOPIX EVO5

- a. CE/RoHS logo
- b. Supply voltage
- c. Product code
- d. Batch number



MONOPIX EVO9

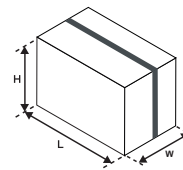
- a. CE/RoHS logo
- b. Product's Type
- c. Color
- d. Module consumption
- e. Product code
- f. Batch number

## FAILURE RATE

Our LED system has a max failure rate of 0.2% per 1000 operating hours.

## PACKAGING

Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (kg)	Weight (lb)	Units (chain)
MONOPIX EVO5	44x35x22	1,7x1,3x0,7	14	31	40
MONOPIX EVO9	43x38x20	1,7x1,2x0,6	8,86	19,5	10
MONOPIX EVO9 RGB	43x38x20	1,7x1,2x0,6	5,6	12,3	10



(When the min and max values are not indicated, the tolerance range for optical and electrical data is ±15 %.)