Product Technical Datasheet

MYNICE

Color Tunable module

- Mx8GA33E-RGBW (IP67 & IP68)
- M28GW33E-TW (IP67)
- M28Gx33E (IP67)

  - *M28xxx: IP67 version*
  - *M38xxx: IP68 version*

Areas of application

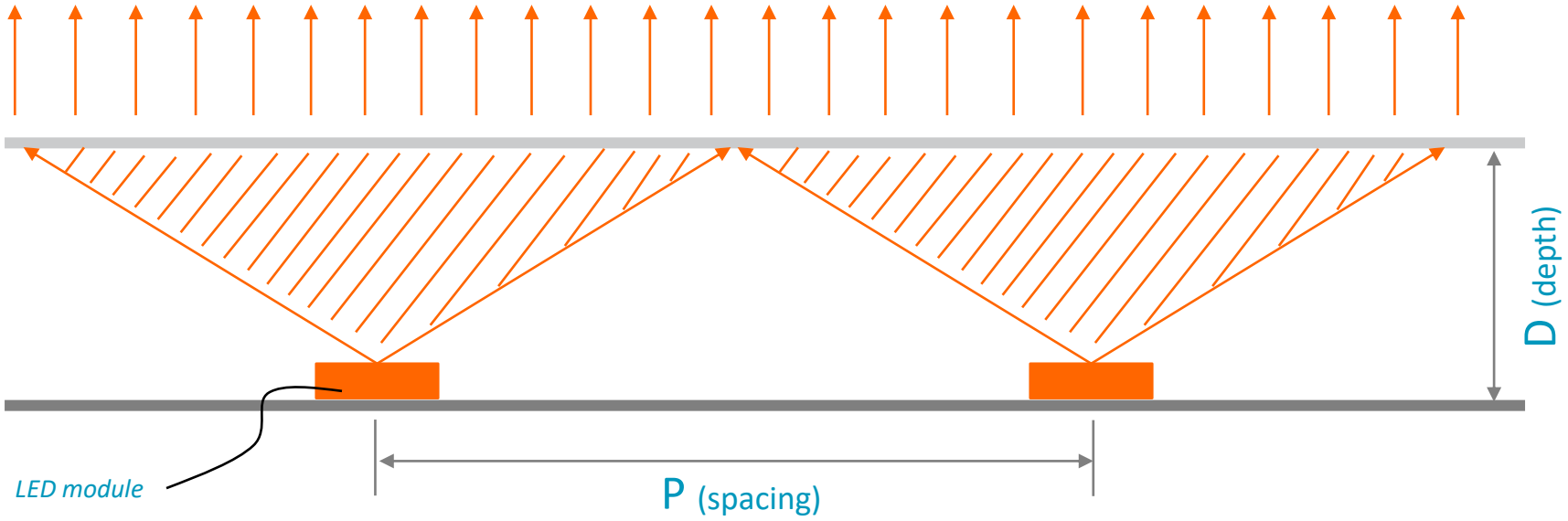
- The color tunable module are backlighting modules to illimunate decorative installations like light ceilings, walls, bars, etc. , Surface like acryl glas, textile or foil will be illiminated to catch the awareness of visitors.
- Best for 50mm to 250mm depth (2inch to 10inch).

Product main benefits

- Uniform and efficient illumination at high LED module distance thanks to new excellent lens design.
- 3 W/module.
- 5 years warranty.
- 160 lm/W (6500K).

RoHS COMPLIANT LM-79 TESTED LM-80 TESTED LUMILEDS

Optics Technology (wide light spot)



$$optical\ performance\ proportion = \frac{D(depth)}{P(spacing)} = 1{:}2.5$$

- The proportion of “P” and “D” can show the performance of lens optics design.
- The bigger proportion, the wider light spot.
- The proportion is for reference from lab, actual layout need based on real application.

RGBW color (LED) layout – *IC constant current version*

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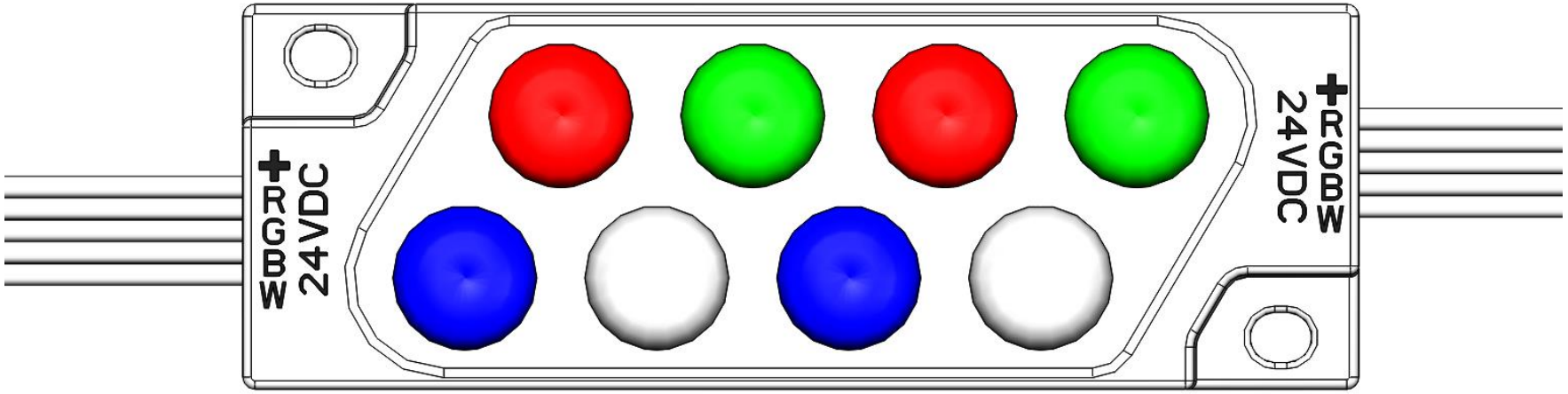
Support Line Color Control



Part number	Light color	CCT/Wavelength	Power/channel	Lumen/channel
Mx8GA33E-RGBW (20 modules/chain) *- Both IP67 and IP68 water-proof can be selected.*	Red channel	620nm~625nm	0.75W	30lm
	Green channel	520nm~525nm	0.75W	64lm
	Blue channel	465nm~470nm	0.75W	16lm
	White channel	6500K	0.75W	120lm
	RGBW all channels	-	3W	230lm

RGBW color (LED) layout – *DMX512 version*

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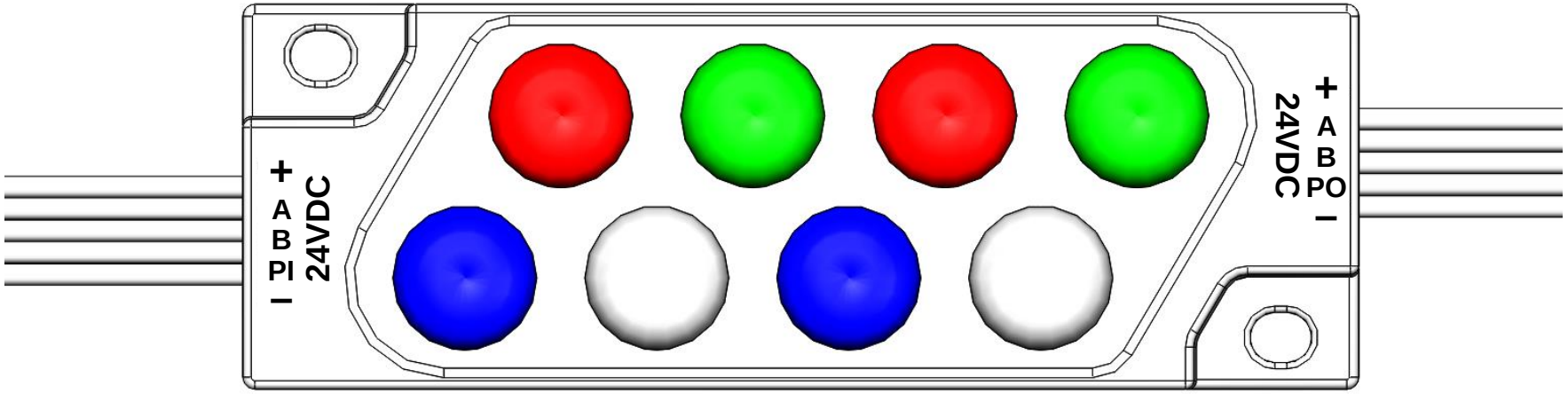
Support Point Color Control



Part number	Light color	CCT/Wavelength	Power/channel	Lumen/channel
Mx8GA33E-RGBW(DMX512) (20 modules/chain) *- Both IP67 and IP68 water-proof can be selected.*	Red channel	620nm~625nm	0.75W	30lm
	Green channel	520nm~525nm	0.75W	64lm
	Blue channel	465nm~470nm	0.75W	16lm
	White channel	6500K	0.75W	120lm
	RGBW all channels	-	3W	230lm

RGBW color (LED) layout – *SPI version*

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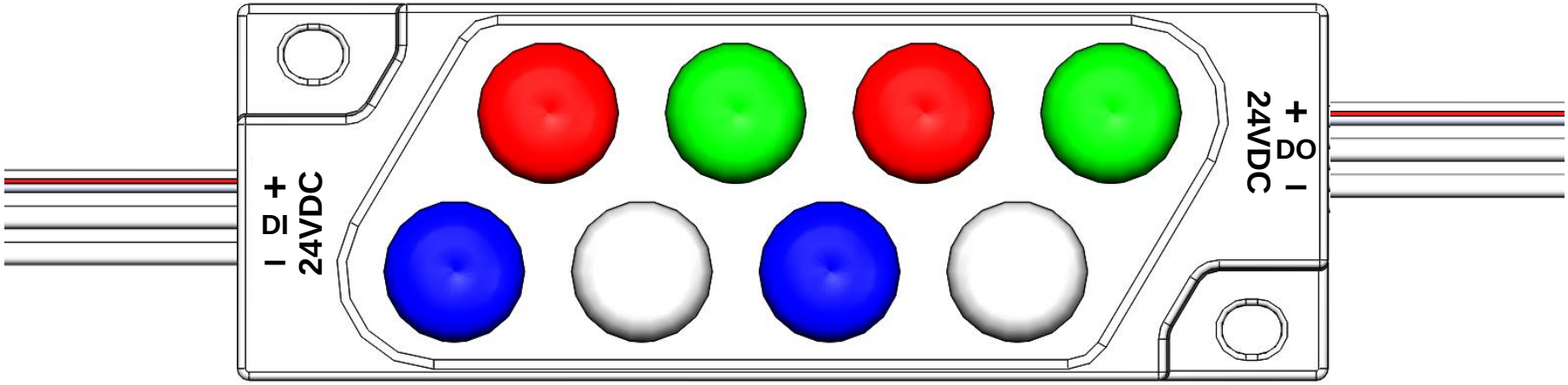
Support Point Color Control



Part number	Light color	CCT/Wavelength	Power/channel	Lumen/channel
Mx8GA33E-RGBW(SPI) (20 modules/chain) *- Both IP67 and IP68 water-proof can be selected.*	Red channel	620nm~625nm	0.75W	30lm
	Green channel	520nm~525nm	0.75W	64lm
	Blue channel	465nm~470nm	0.75W	16lm
	White channel	6500K	0.75W	120lm
	RGBW all channels	-	3W	230lm

TW (tunable white) color (LED) layout – *IC constant current version*

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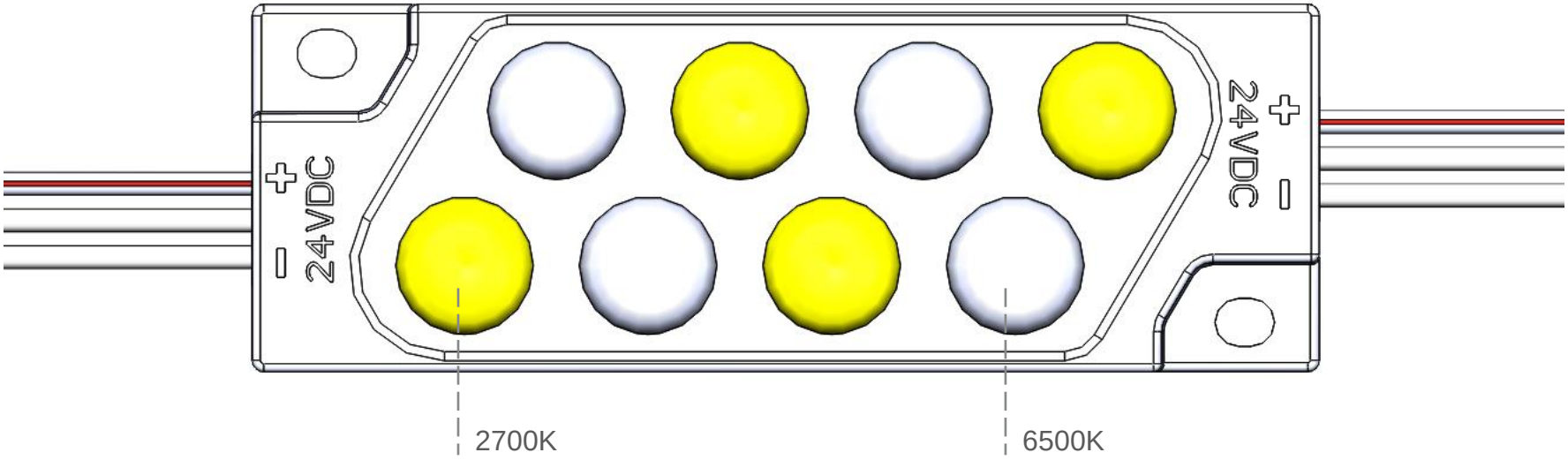
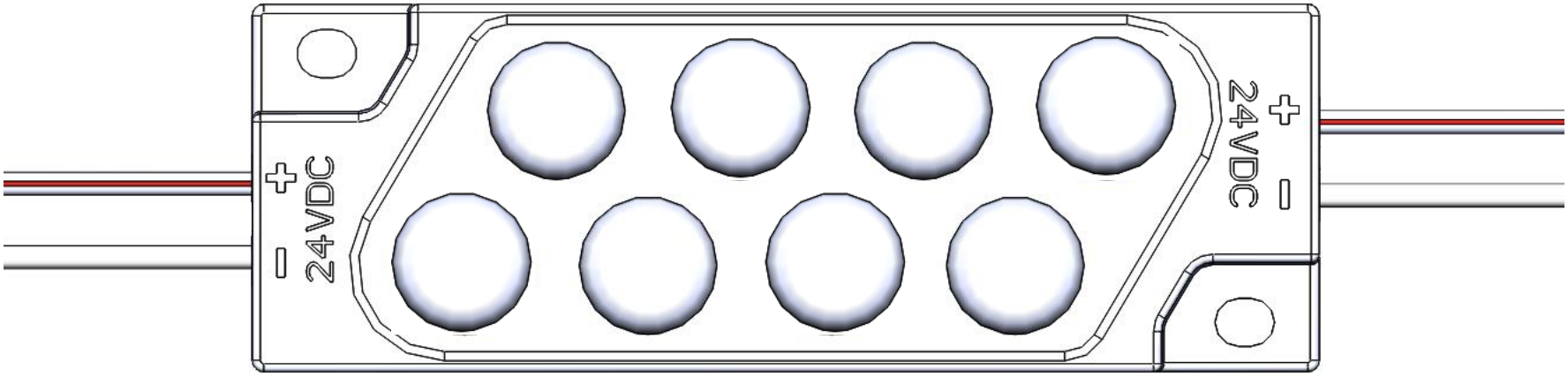
Support Line Color Control



Part number	Light color	CCT	Power/channel	Lumen/channel
Mx8GW33E-TW (20 modules/chain) *- IP67*	Warm white channel	2700K	1.5W	225lm
	Cool white channel	6500K	1.5W	240lm
	TW both channels	2700K~6500K	3W	465lm

SC (single color) – *IC constant current version*



Part Numbers *- IP67*	Light color	CCT	Typical Power (W/module)	Typical Brightness (lumen/module)	Additional Information (modules/chain)
Mx8GN33E	Warm white	3000K/4000K	3W	450lm	20
Mx8GW33E	White	5000K/6500K/7100K	3W	480lm	20
Mx8GW33E	Cool White	8000K/10000K	3W	450lm	20

Application

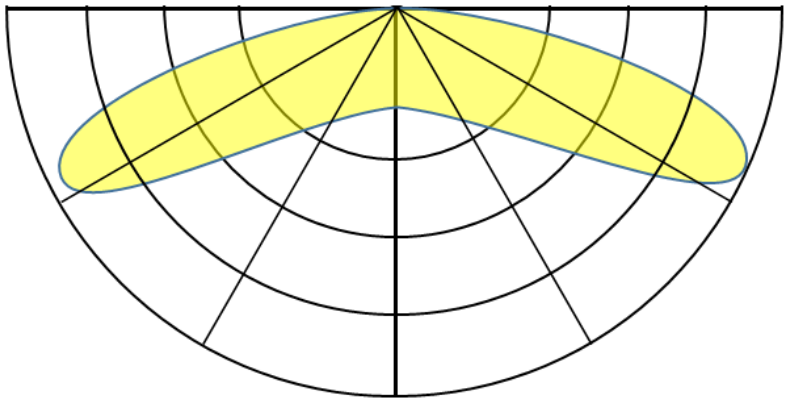
The color tunable module are backlighting modules to illimunate decorative installations like light ceilings, walls, bars, etc. , Surface like acryl glas, textile or foil will be illiminated to catch the awareness of customers or visitors.

RGBW module

Tunable white (TW) module

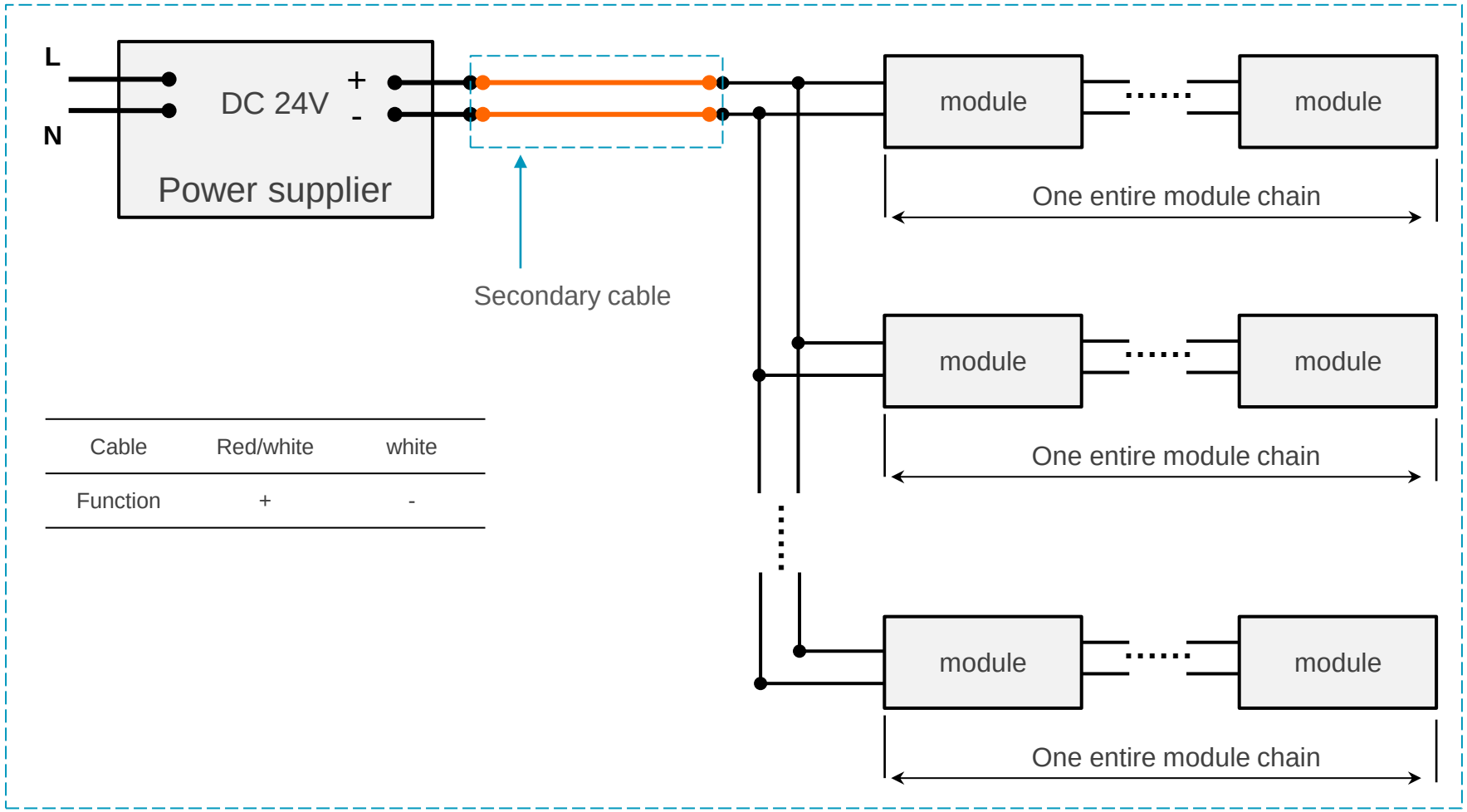
Application Conditions and light distribution

Operating Environment (t_a)	-25°C to +60°C
Storage Temperature Range (t_s)	-40°C to +85°C
IP Rating	IP67 & IP68
Lifetime (L70B50)	5 years
tc temperature	80℃
Dimming mode	Dimmable
Cutting Resolution	Cut on wire between every module



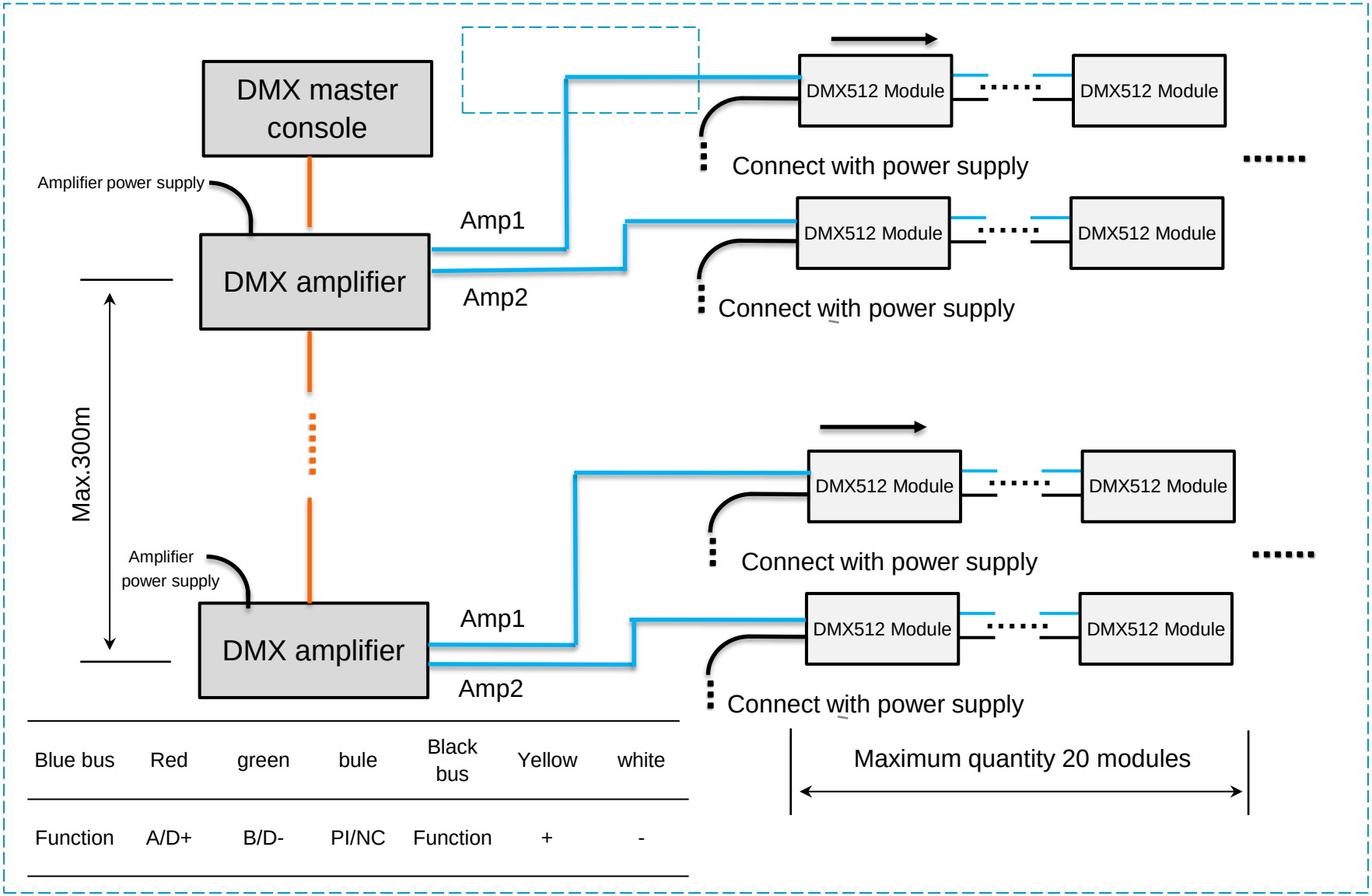
Beam angle: 160°

Wiring method



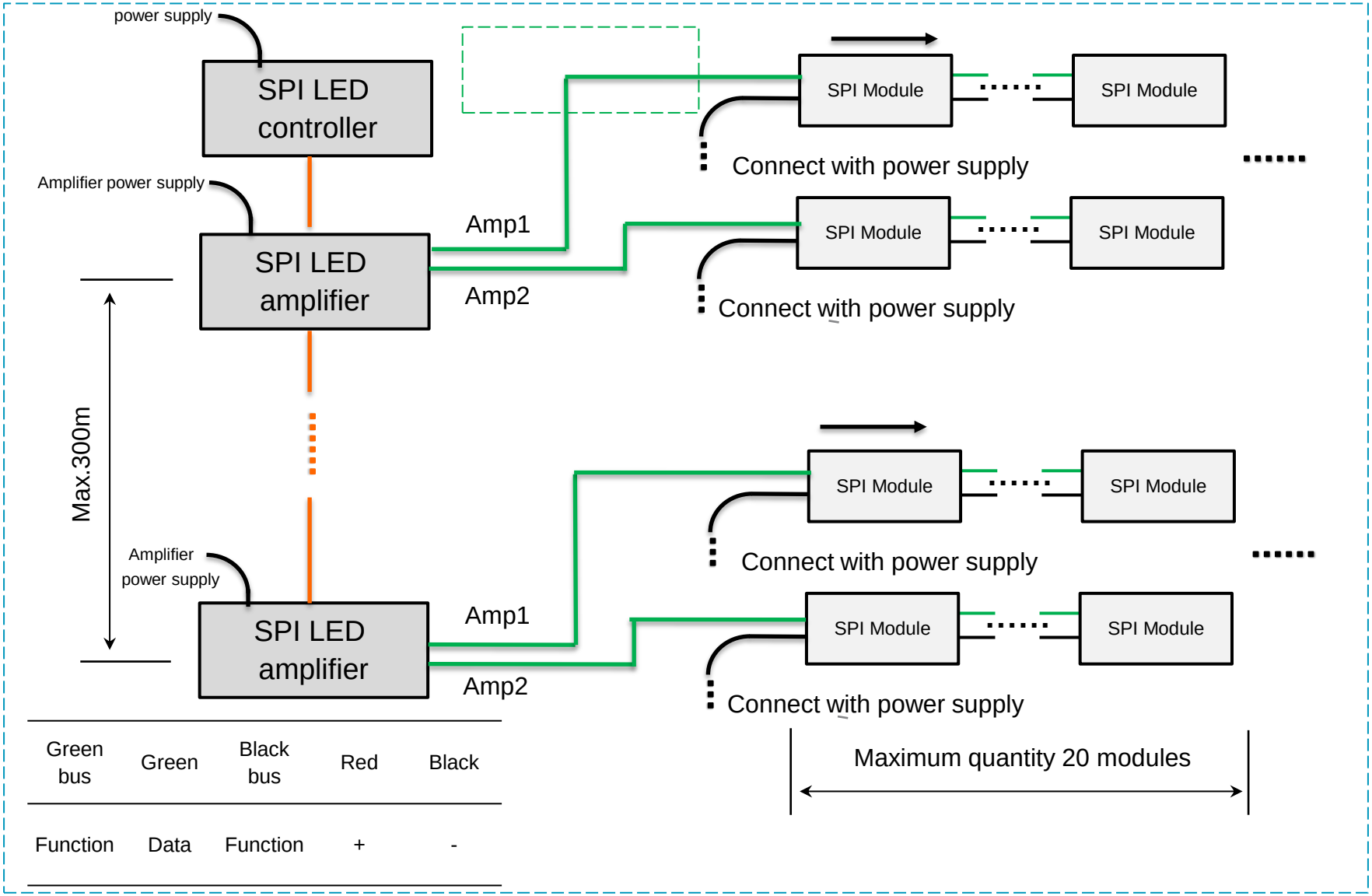
Cable	Red/white	white
Function	+	-

DMX 512 Wiring method

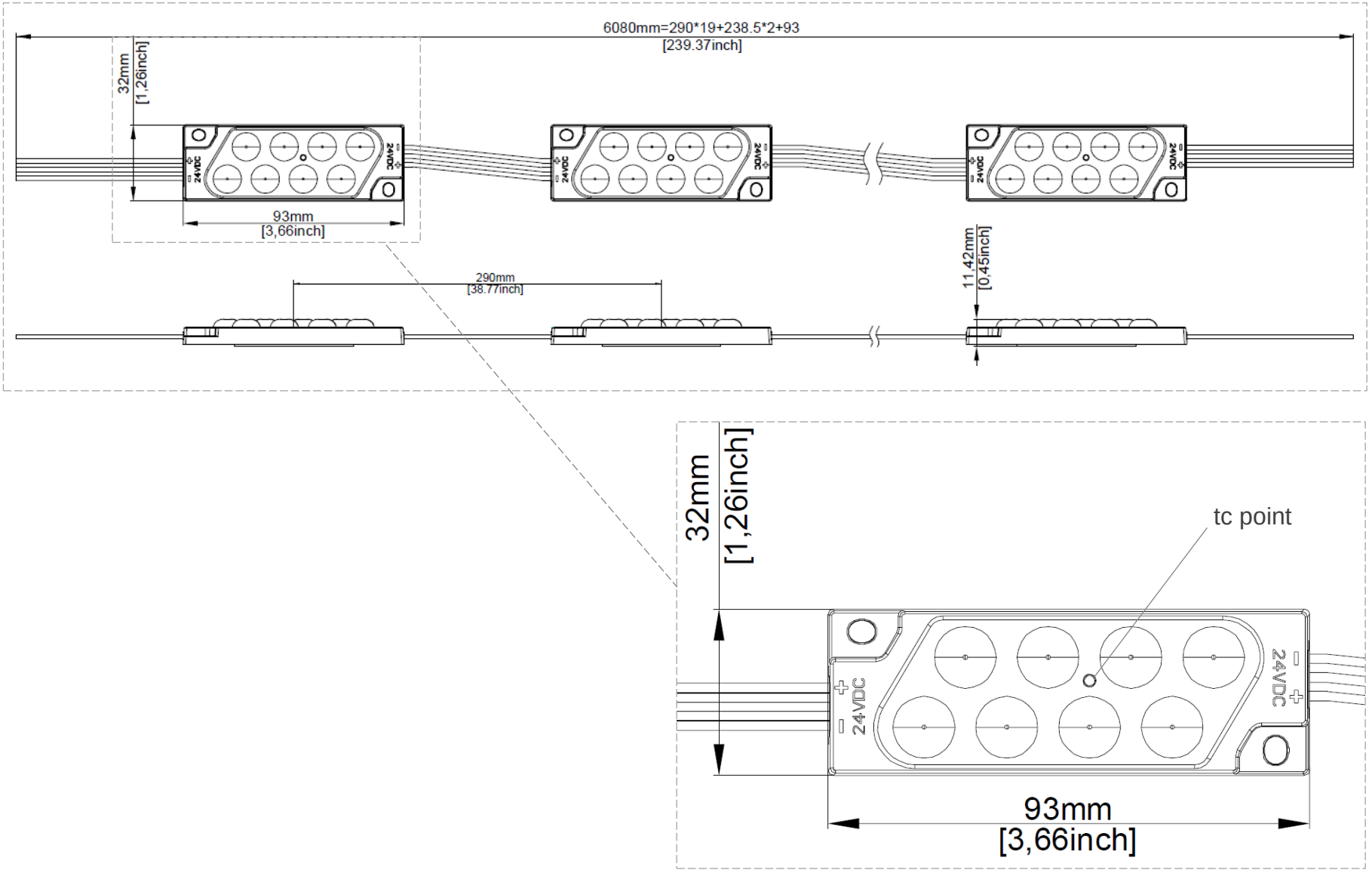


Blue bus	Red	green	bule	Black bus	Yellow	white
Function	A/D+	B/D-	PI/NC	Function	+	-

SPI Wiring method



Drawing


6080mm=290*19+238.5*2+93
[239.37inch]
32mm
[1.26inch]
93mm
[3,66inch]
290mm
[38.77inch]
11.42mm
[0,45inch]
24VDC
32mm
[1,26inch]
tc point
93mm
[3,66inch]

Package and additional information

Products	Part Number	Package unit (modules/carton box)	Carton box Dimensions (length x width x height)
Color Tunable module	Mx8Gx33E	TBD	52 x 37 x 26 cm

Additional information:

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED modules are dimmable by means of PWM (pulse width modulation).
- During installation, it is highly recommended to install modules with screws to ensure long-term stability. Other means of securing modules(sealant, vinyl, etc.) are also acceptable.