



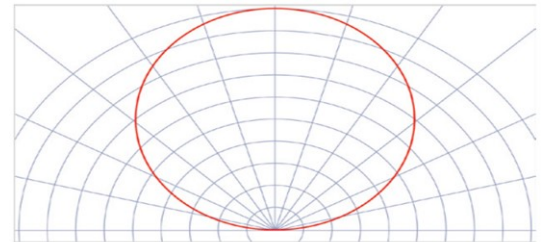
FRL White modules are premium brightness changing signage modules engineered for constant current so there is no lumen drop across the full length of any string. The FRL White modules are available in different CCT, enabling a wide variety of applications for nuanced indoor and outdoor signage and accent lighting. At the same time, The FRL White is ideal for outdoor media applications, where it can be integrated seamlessly into the facade, or it can be installed to float in the air with our highly transparent mounting options. Use DMX controls to tune brightness. Insulation Displacement Connection is adopted to reduce the voltage drop of long-distance supply. FRL Series modules are rated IP66 and come with a 2-year warranty.

## APPLICATIONS

- Channel letter
- Box signs
- Cove and Accent lighting

## LUMINOUS INTENSITY DISTRIBUTION

Batwing Beam Pattern (beam angle: 120°)



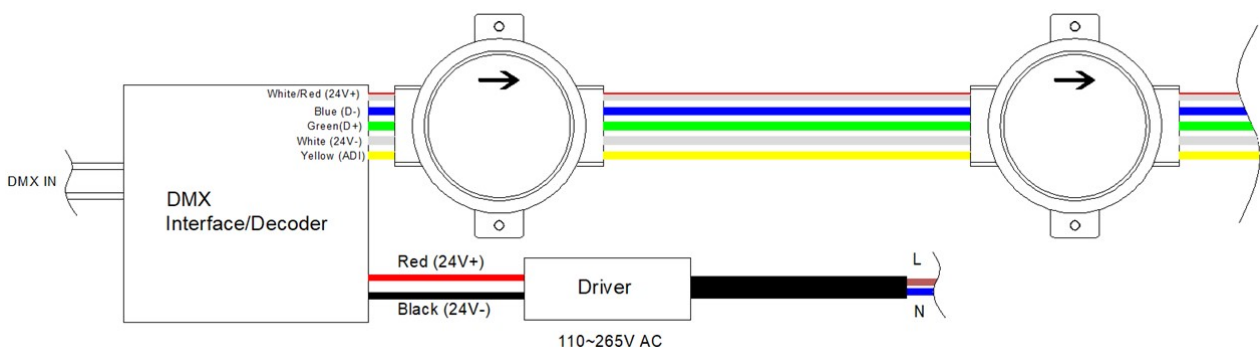
## ORDERING GUIDE

Part Number	White color Temp.	Color rendering index	Module Spacing (mm)	Number of Modules		Nominal Light Output (lm)*		
				Per Foot	Per Meter	Per Module	Per Foot	Per Meter
FRL-W-71K	7100K	≥80	166	1.8	6	123	221.4	738
FRL-W-65K	6500K	≥80	166	1.8	6	118	212.4	708
FRL-W-57K	5700K	≥80	166	1.8	6	115	207	690
FRL-W-50K	5000K	≥80	166	1.8	6	115	207	690
FRL-W-45K	4500K	≥80	166	1.8	6	108	194.4	648
FRL-W-40K	4000K	≥80	166	1.8	6	108	194.4	648
FRL-W-30K	3000K	≥80	166	1.8	6	98	176.4	588
FRL-W-27K	2700K	≥80	166	1.8	6	93	167.4	558

## PRODUCT RATINGS

Luminous Efficacy	118 lm/W @6500K	Operating Temperature	-40° — +60° C
Wattage per Module	1.32 W	L70 Lifetime @ 60° C	50,000 Hours
Input Voltage	24 VDC	Warranty	2 Year Limited Warranty
Input Current	55 mA per module	Control	DMX512
Power Supply Loading	68 modules per 100W	Number of Pixel	40 pixels / Strip (1 Pixel per module)
Ingress Protection	IP66	Addressing Options	Auto-Addressing

## WIRING DIAGRAM



**SHIPPING INFORMATION**

Module Type	Packaging Quantity		Carton Dimensions			Gross Weight	Net Weight
	Per Strip	Per Carton					
FRL-W-xxK	40Modules	120Modules	W	D	H	5.45KG	4.98KG
	21.7FT	65.1FT	19.7 inch	9.1 inch	6.7 inch		
	6.6m	19.8m	500mm	230mm	170mm		

**LAYOUT GUIDE\***

Channel Depth (in.)	Single Row		Multiple Rows		Channel Depth (mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing		Max. Stroke	Module Spacing	Row Spacing	Module Spacing
4	11	5	10	5	100	275	125	250	125
5	14	6	10	6	125	350	150	250	150
6	14	6	10	6	150	350	150	250	150
7	14	6	10	6	175	350	150	250	150
≥7	14	6	10	6	≥200	350	150	250	150

\*Density guide designed to maintain a minimum of 600 lux for a single row or 800 lux for multiple rows at sign face .

**POWER SUPPLY LOADING**

FRL-W-xxK					
Power Supply		18AWG/0.82 mm <sup>2</sup> supply wire Max. # of Modules Per Continuous String	16AWG/1.31 mm <sup>2</sup> supply wire Max. # of Modules Per Continuous String	14AWG/2.08 mm <sup>2</sup> supply wire Max. # of Modules Per Continuous String	12AWG/3.31 mm <sup>2</sup> supply wire Max. # of Modules Per Continuous String
Maximum Supply Wire Limits	18W	10Pcs ( 1.6m )	/	/	/
	35W	20Pcs ( 3.2m )	/	/	/
	60W	35Pcs ( 5.8m )	/	/	/
	75W	40Pcs ( 6.6m )	/	/	/
	100W	40Pcs ( 6.6m )	45Pcs ( 7.6m )	60Pcs ( 9.6m )	/
	150W	40Pcs ( 6.6m )	45Pcs ( 7.6m )	60Pcs ( 9.6m )	72Pcs ( 12.1m )
	200W	40Pcs ( 6.6m )	45Pcs ( 7.6m )	60Pcs ( 9.6m )	72Pcs ( 12.1m )
	240W	40Pcs ( 6.6m )	45Pcs ( 7.6m )	60Pcs ( 9.6m )	72Pcs ( 12.1m )
	300W	40Pcs ( 6.6m )	45Pcs ( 7.6m )	60Pcs ( 9.6m )	72Pcs ( 12.1m )

Note 1. The number of modules in each of the parallel strings should not exceed the specified maximum.

2. \*3 – 300 Watt Channels

**DIMENSIONS**
