



PRO SERIES - With VersaLenz[®] advanced optics, SignRayz PRO LED Modules feature batwing beam patterns that enable large light coverage areas per module and significantly reduce the number of modules per sign. These technologies allow for reduced installation cost to sign makers and end-users.



Applications:

- Shallow channel letters 2–4" deep
- Wide stroke channel letters
- Shallow box signs 2–4" deep
- Small to large cloud signs
- Cove lighting



12V DC



5 YEAR LIMITED WARRANTY



ONEWhite[®] COLOR CONSISTENCY



VERSALENZ[®] ADVANCED OPTICS



CAPZUL[®] WATERPROOF



CONSTANT CURRENT



UV RESISTANT



50,000 HRS L70 LIFETIME

ORDERING GUIDE

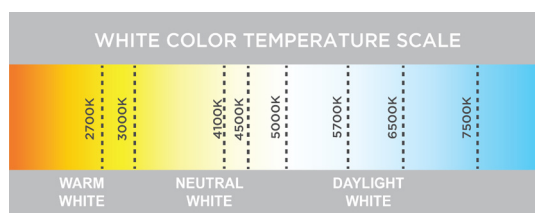
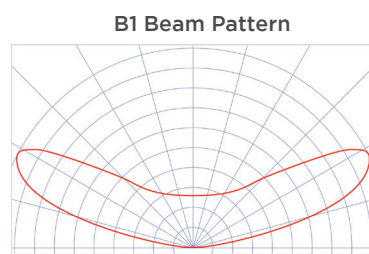
Part Number	White Color Temp.	Module Spacing (mm)	Number of Modules		Nominal Light Output (lm)*		
			Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-PRO160-ASW-2B1C	7500K	168	2	6	89	178	534
LS-PRO160-65K-2B1C	6500K	168	2	6	90	180	540
LS-PRO160-57K-2B1C	5700K	168	2	6	89	178	534
LS-PRO160-50K-2B1C	5000K	168	2	6	89	178	534
LS-PRO160-45K-2B1C	4500K	168	2	6	81	162	486
LS-PRO160-41K-2B1C	4100K	168	2	6	81	162	486
LS-PRO160-30K-2B1C	3000K	168	2	6	81	162	486
LS-PRO160-27K-2B1C	2700K	168	2	6	74	148	444

* ± 10%

PRODUCT RATINGS

Luminous Efficacy	115 lm/W @ 6500K
Wattage per Module	0.78 W Nominal 0.82 W Maximum
Input Voltage	12 V DC
Input Current	0.065 A/ module
Power Supply Loading	70 modules per 60 W
Ingress Protection	IP68
Operating Temperature	-40° - +140° F (-40° - +60° C)
L70 Lifetime @ 60° C	50,000 Hours
Warranty	5 Year Limited Warranty

LUMINOUS INTENSITY DISTRIBUTION



MODULE DIMENSIONS

Part Number	Length (in/mm)	Width (in/mm)	Height (in/mm)
LS-PRO160-xxx-2B1C	3.34/84.8	0.80/20.3	0.47/12.0

REV: 24MAY2019
Data sheet subject to change without notice.



POWER SUPPLY LOADING

Module Type		LS-PRO160-xxx-2B1C				LED Module to Power Supply Wire Size			
UL Class	Power Supply (wired in Parallel Strings)	Max. # of Modules Per String	Total # of Modules	Total # of Feet	Total # of Meters	Gauge AWG	Metric (mm ²)	Feet	Meters
	UL Class 2	12 W	14	14	7.0	2.3	26	0.13	3
15 W		18	18	9.0	3.0	24	0.21	4	1.2
35 W		41	41	20.5	6.8	22	0.33	7	2.1
60 W		70	70	35.0	11.7	20	0.52	11	3.4
180 W**		70	210	105	32	18	0.82	18	5.5
UL Class 1	100 W	70	115	57.5	19.2	16	1.31	29	8.8
	150 W	70	173	86.5	28.8	14	2.08	45	12.7
	180 W	70	208	104.0	34.7	12	3.31	71	21.6
	220W	70	254	127.0	42.3	10	5.26	120	36.6

The number of modules in each of the parallel strings should not exceed the specified maximum.
** 3 - 60 Waatt channels

LAYOUT GUIDE*

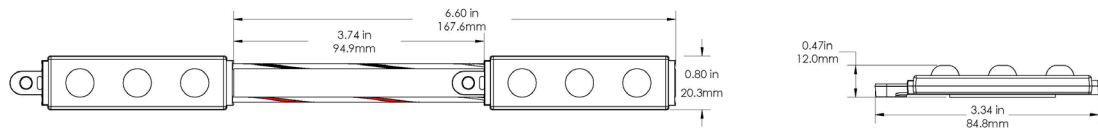
Channel Depth (in.)	Single Row		Multiple Rows		Channel Depth (mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing		Max. Stroke	Module Spacing	Row Spacing	Module Spacing
2	5	4	5	4	50	127	102	127	102
3	9	4.75	8	4.75	75	229	121	203	121
4	12	6.6	12	6.6	100	305	168	305	168
5	16	6.6	15	6.6	125	406	168	381	168
6	14	6.6	16	6.6	150	356	168	406	168
7	12	6.6	15	6.6	180	305	168	381	168

*Module spacing is defined to achieve minimum 600 lux at sign face (7328 white)

SHIPPING INFORMATION

Module Type	Specs	Packaging Quantity			Carton Weight	Box Dimensions			Carton Dimensions										
		Per Bag	Per Box	Per Carton		W	D	H	W	D	H								
LS-PRO160-xxx-2B1C	Modules	40	200	1000	45.4 lb 20.6 kg	18.9	10.4	3.7	20.7	19.3	11.4	inch							
	Feet	20.0	100.0	500.0									480	265	95	525	490	290	mm
	Meters	6.7	33.5	167.6															

DIMENSION DRAWING



NOTES: WIRE IS 18 AWG / 0.82mm²
RED STRIPE (+), BLACK STRIPE (-)



1. UL ONLY - These products are only suitable for connection to a UL rated Class 2 power source rated 12 Volt or less.
2. UL ONLY - These products are intended for use only when connected to a power source that complies with UL rated Class 2 voltage and energy limited circuit.
3. UL ONLY - When these units are connected to a UL rated Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the UL rated Class 2 power supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry, damp, and wet locations. Not suitable for submersed applications.