



PRO SERIES – With VersaLens<sup>®</sup> 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:**

- Wide stroke channel letters
- Box signs from shallow to deep
- Cloud signs from small to large
- Cabinet signs
- Accent lighting



**ORDERING GUIDE**

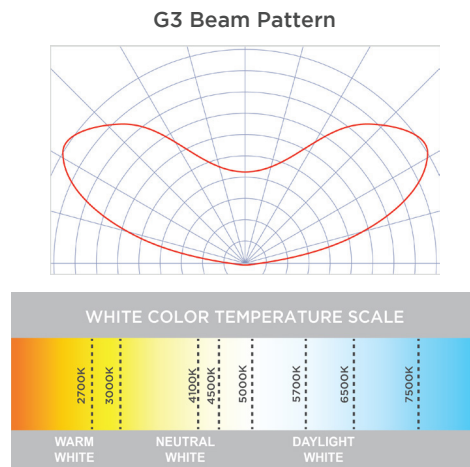
Part Number	White Color Temp.	Module Spacing (mm)	Number of Modules		Nominal Light Output (lm)*		
			Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-PRO160-ASW-1G3A	7500K	250	1.22	4	92	112	368
LS-PRO160-65K-1G3A	6500K	250	1.22	4	93	114	372
LS-PRO160-57K-1G3A	5700K	250	1.22	4	92	112	368
LS-PRO160-50K-1G3A	5000K	250	1.22	4	92	112	368
LS-PRO160-45K-1G3A	4500K	250	1.22	4	84	103	336
LS-PRO160-41K-1G3A	4100K	250	1.22	4	84	103	336
LS-PRO160-30K-1G3A	3000K	250	1.22	4	84	103	336
LS-PRO160-27K-1G3A	2700K	250	1.22	4	77	94	308

\* ± 10%

**PRODUCT RATINGS**

Luminous Efficacy	119 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-1G3A	3.34/84.8	0.80/20.3	0.47/12.0

REV: 30MAY2019  
Data sheet subject to change without notice.



**POWER SUPPLY LOADING**

	Module Type	LS-PRO160-xxx-1G3A			
		Power Supply (wired in Parallel Strings)	Max. # of Modules Per String	Total # of Modules	Total # of Feet
UL CLASS 2	12 W	14	14	11.5	3.5
	15 W	18	18	14.8	4.5
	35 W	41	41	33.6	10.3
	60W	70	70	57.4	17.5
	180W***	70	210	172.2	52.5
ULCLASS1	100W	70	115	94.3	28.8
	150W	70	173	141.8	43.3
	180W	70	208	170.5	52.0
	220W	70	254	208.2	63.5

**LED MODULE TO POWER SUPPLY WIRE SIZE**

Wire Size	Maximum Distance*		
	Guage AWG	Metric (mm <sup>2</sup> )	Feet
26	0.13	3	0.9
24	0.21	4	1.2
22	0.33	7	2.1
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	12.7
12	3.31	71	21.6
10	5.26	120	36.6

The number of modules in each of the parallel strings should not exceed the specified maximum.  
\*\*\* 3 - 60 Watt Channels

**LAYOUT GUIDE**

Channel Depth (in.)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.57**	3.5	3.33	2.375	3.33
2	5	3.75	3.75	3.75
3	8	6	6	6
4	11	8	8.5	8
5	14	9.84	11	9.84
6	13	9.84	10.5	9.84
7	12	9.84	10	9.84
8	11	9.84	9.5	9.84

Channel Depth (mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
40**	89	85	60	85
50	127	95	95	95
75	203	152	152	152
100	279	203	216	203
125	356	250	279	250
150	330	250	267	250
180	305	250	254	250
200	279	250	241	250

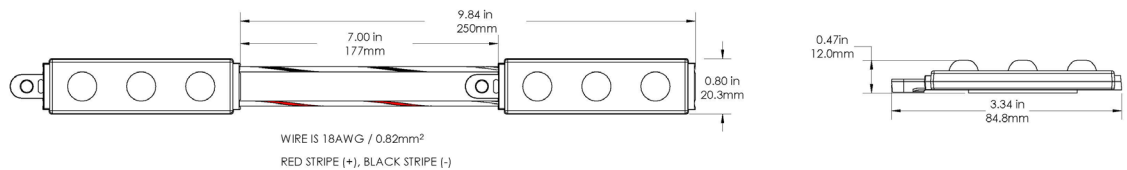
Module spacing is defined to be achieve minimum 600 lux at sign face (7328 white)  
\*\*Modules are staggered

**SHIPPING INFORMATION**

Module Type	Specs	Packaging Quantity		
		Per Bag	Per Box	Per Carton
LS-PRO160-xxx-1G3A	Modules	40	200	1000
	Feet	32.8	164.0	820.2
	Meters	10.0	50.0	250.0

Carton Weight	Box Dimensions			Carton Dimensions		
	W	D	H	W	D	H
45.4 lb 20.6 kg	18.9	10.4	3.7	20.7	19.3	11.4
	480	265	95	525	490	290
						inch mm

**DIMENSION DRAWING**



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.