

Great illumination comes in a small package.

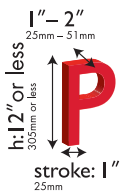
Nano, by Permlight for Signs is a tiny and flexible, low-profile, specially designed lighting system that fits into very small and narrow sign letter spaces. It's ideal for serif letters, reverse/halo lighting, interior coves, edge lighting and intricate logo designs.

It's a complete system too, that's offered in six whites, blue, green, red and amber. And, because of the two inch on center consistent spacing and soft brightness, there's never a hot spot.

Nano utilizes Permlight's patented thermal management technology and uses dramatically less energy, making it another, Permlight for Signs, better for the earth product.

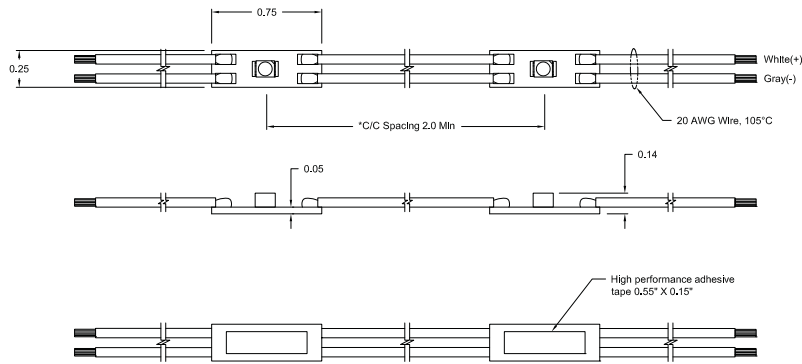
Like all Permlight LED lighting systems, Nano is the most efficient and best performing at the lowest overall cost of ownership. These new modules shine brighter, consume less energy and deliver the lowest cost per lumen.

Nano. Think small.



led
modules

Mechanical Dimension



* Other C/C spacing is available upon request

DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX = ± 0.01"
X.X = ± 0.1"

Technical Specifications

Product Warranty.....	5 Year Limited (see Permlight for Signs website for details)
LED Module Dimension	0.75" (19.00mm) x 0.25" (6.30mm)
Power Consumption, Estimated Life	(see color specification matrix)
Content Per Package	50 modules per package
Operating Temperature @ 90% relative humidity	-40°C to +50°C
Maximum Input Voltage	12.3VDC
Recommended Modules per Foot	6
System Certifications:	
UL Recognized File	E213411
UL Classified File (retrofit applications)	E246705

Required Components

60-12D	60 Watt LED Driver (120-240 VAC Input - 12 VDC Output)
60-12D-A.....	60 Watt LED Driver (120 VAC Input - 12 VDC Output)
250-12DC.....	240 Watt LED Driver (120 VAC Input - 12 VDC Output)
250-12DC-240.....	240 Watt LED Driver (240 VAC Input - 12 VDC Output)
250-12DC-240.....	240 Watt LED Driver (240 VAC Input - 12 VDC Output)

Color Specification

Part Number	Color: Wavelength (nm)/ Temperature (K)	Est. Life @ 70% Light Output (hours)	Avg. Power per Module (Watts)	Max. Modules 60-12D ^[1] (units)	Max Modules 250-12DC ^[2] (units)
PFS0560W28	Warm White (2800K)	40,000	0.3	200	800 (200/channel)
PFS0560W35	Halogen White (3500k)	40,000	0.3	200	800 (200/channel)
PFS0560W41 ^[3]	Fluorescent White (4100K)	40,000	0.3	200	800 (200/channel)
PFS0560W51 ^[3]	Neutral White (5100K)	40,000	0.3	200	800 (200/Channel)
PFS0560W65	Daylight (6500K)	40,000	0.3	200	800 (200/channel)
PFS0560W80	Ultra White (8000K)	40,000	0.3	200	800 (200/channel)
PFS0560B	Blue (470nm)	40,000	0.3	200	800 (200/channel)
PFS0560G	Green (525nm)	40,000	0.3	200	800 (200/channel)

Notes: ^[1] 60-12D series is a single channel 60 Watt LED Driver, see Product Specification Sheet for more information. ^[2] 250-12DC series is a 4 channel 240 Watt LED Driver, with a rated output of 60Watts per channel. ^[3] Custom color. Please allow up to 8 weeks for delivery.