

Twister

for signs

PFS1630 LED System for Signs

A new twist on Twister.

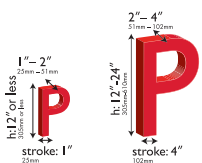
When Twister by Permlight for Signs was introduced in 2003, it was greeted with immediate acceptance for its small form factor, range of color options, and bright output. So, when no other systems manufacturer could offer a white LED solution with this level of brightness and an even higher degree of color consistency, the Twister was quickly adopted as the LED solution for a variety of applications including high-visibility brand identity programs.

But now, the Twister has been re-engineered. Why? Performance! What used to consume nearly 0.8 Watts per module, now uses half that amount – an energy saving and environmental bonanza.

The new Twister has been further optimized for peak operating efficiency too. And the wide-spread adoption of the new Twister has resulted in one of the highest end-user installation base of any white LED system for signage.

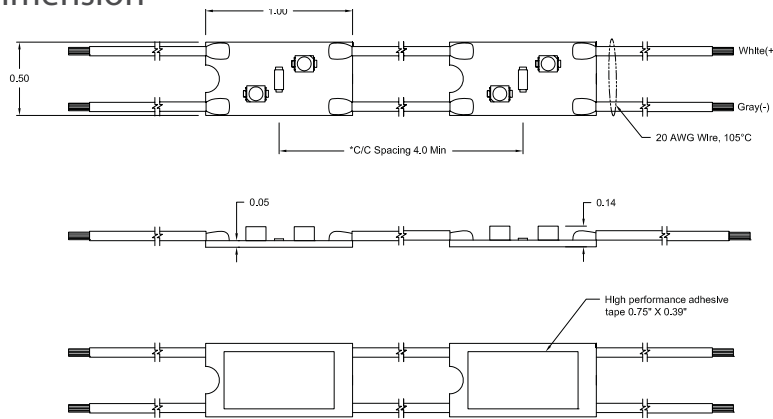
Like all Permlight LED lighting systems

Twister is the brightest, most efficient and best performing products at the lowest overall cost of ownership - they shine brighter, consume less energy and deliver the lowest cost per lumen – Another nice twist.



led
modules

Mechanical Dimension



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

* Other C/C spacing is available upon request

Technical Specifications

Product Warranty	5 Year Limited (see Permlight for Signs website for details)
LED Module Dimension	1.00" (25.40mm) x 0.50" (12.70mm)
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	3
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-277	240 Watt LED Driver (277 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)
PFS1630W28	Warm White (2800K)	40,000	0.4	150	600 (150/channel)
PFS1630W35	Halogen White (3500K)	40,000	0.4	150	600 (150/channel)
PFS1630W41	Fluorescent White (4100)	40,000	0.4	150	600 (150/channel)
PFS1630W51 ^[3]	Neutral White (5100K)	40,000	0.4	150	600 (150/channel)
PFS1630W65	Daylight (6500K)	40,000	0.4	150	600 (150/channel)
PFS1630W80	Ultra White (8000K)	40,000	0.4	150	600 (150/channel)
PFS1630B	Blue (470nm)	40,000	0.4	150	600 (150/channel)
PFS1630G	Green (525nm)	40,000	0.4	150	600 (150/channel)
PFS1630R	Red (630nm)	100,000	0.4	150	600 (150/channel)
PFS1630N	Orange (605nm)	100,000	0.4	150	600 (150/channel)
PFS1620A	Amber (590nm)	100,000	0.4	150	600 (150/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.

permlightforsigns.com

©2010 Permlight Products Inc. All rights reserved. Permlight, Permlight for Signs, Brillia, Enbryten, Twister, NANO, for signs STAR for signs, NITRO for signs, OMNISTAR for signs, Cayenne for signs and el Plato for signs are Trademarks of Permlight Products Inc. All others are trademarks of their respective companies or organizations. The information provided were obtained using data from laboratory results and may be subject to change. Permlight reserves the right to change any information without notice.

