IP-SF™3

Waterproof LED Light Module

Product Guide

IP-SF™3 is a low voltage, low wattage LED light module offering an energy efficient, reliable and low cost lighting solution for both indoor and outdoor installations. Typical applications include cove and under-cabinet lighting, backlighting and channel letter signs, delineation and any application where moisture or extreme temperatures may occur.

Each module consists of three LEDs available in 6 color temperatures of white as well as Amber, Red, Green and Blue. The modules are completely sealed and IP65 rated for wet locations and can operate in ambient temperatures from -40°C to +50°C.

Each module is only 54mm long, 16mm wide, 9.5mm high and connected to adjacent modules with 70mm jumper wires (max. 150mm center-to-center). The compact size and flexibility of an IP-SF-3 assembly affords unlimited installation options. Standard assemblies are sold with 100 modules.

The IP-SF™3 modules can be mounted with the pre-applied Very High Bond (VHB) double sided tape or with screws through the pre-drilled mounting flanges on each end of the module.

Features

- Three LEDs per module with wide 140° beam angle
- High luminous flux per module, 38lm
- Built-in constant current circuitry maintains equal luminous output module-to-module for full run length
- Projected lifetime 50,000 hours (L50)
- IP65 waterproof protection (sealed by epoxy resin)
- Extreme ambient temperature range: -40°C to +50°C (-40°F to +122°F)
- 100 pre-wired modules with 70mm (2-3/4") long jumper wires eliminate joints, save installation time and provide the ability to build curved illuminated lines
- Safe low voltage operation (12VDC)
- Very low power consumption; Maximum 0.5W per module
- LED available in 6 color temperatures of white as well as Amber, Red, Green and Blue
- Vibration resistant
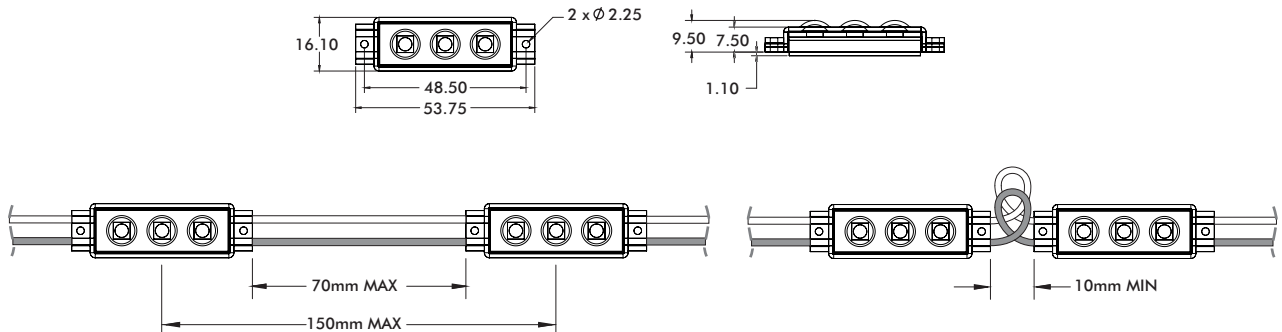- Pre-applied VHB double sided tape or built in screw flanges for quick installation
- Low cost
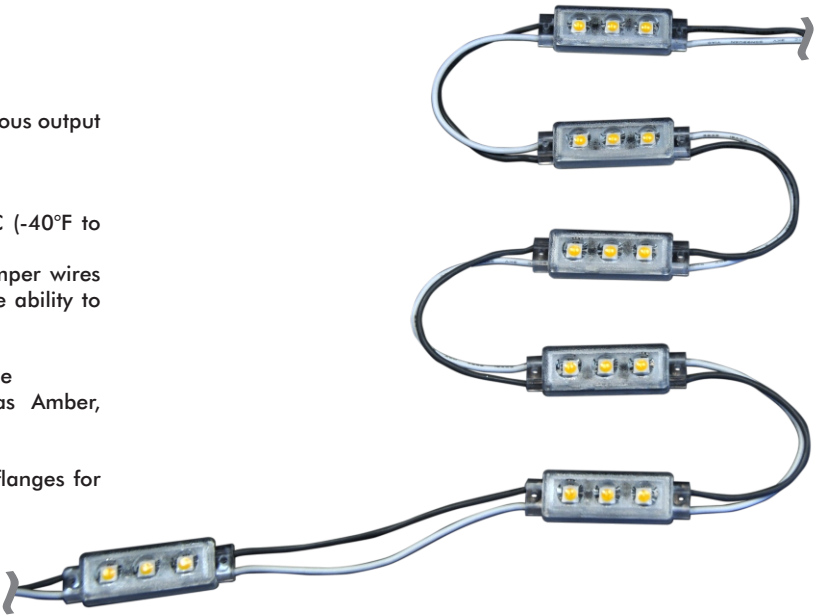
IP-SF™3 Module Ordering Logic

FAMILY	LED COLOR	
IP-SF™3	2700K 3000K 3500K 4000K 5000K 6500K **RD** - Red **GR** - Green **BL** - Blue **AM** - Amber	Sample Logic : **IP-SF-3-2700K**

IP-SF™3 Modules

2 x Ø 2.25

16.10

48.50

53.75

9.50 7.50

1.10

70mm MAX

150mm MAX

10mm MIN

Typical System Diagram

IP-SF™3 in Parallel System Installation

Outdoor Connector (by others)

Outdoor Connector (by others)

Recommended 12V AC/DC Class 2 PSU

C

Optional PSU Enclosure (by others)

AC Input Side
Black = Live
White = Neutral
Green = Ground

DC Output Side
White = + Positive
Grey = - Negative

A+B+C = Max. 100 modules

B
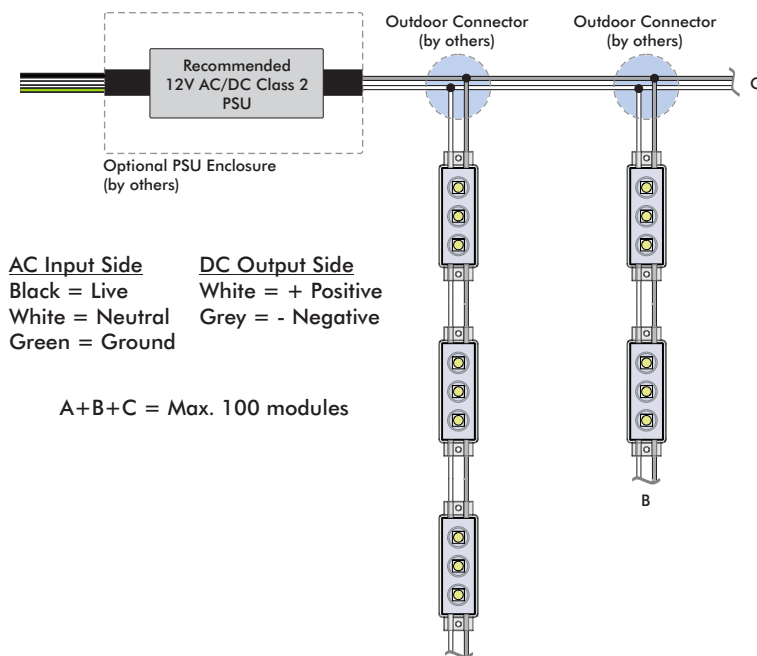
IP-SF™3 in Series System Installation

Outdoor Connector (by others)

Recommended 12V AC/DC Class 2 PSU

Optional PSU Enclosure (by others)

AC Input Side
Black = Live
White = Neutral
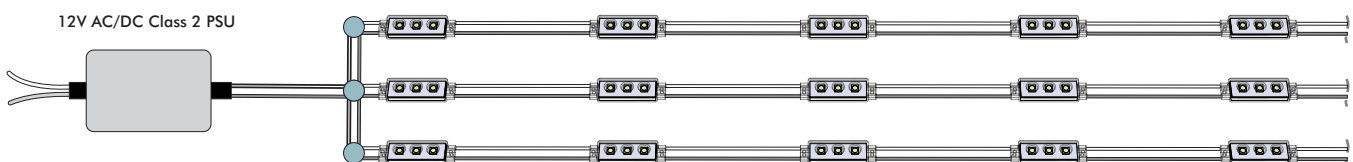Green = Ground

DC Output Side
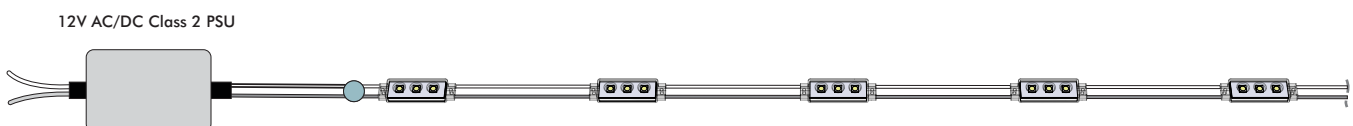White = + Positive
Grey = - Negative

Max. 100 modules in Series
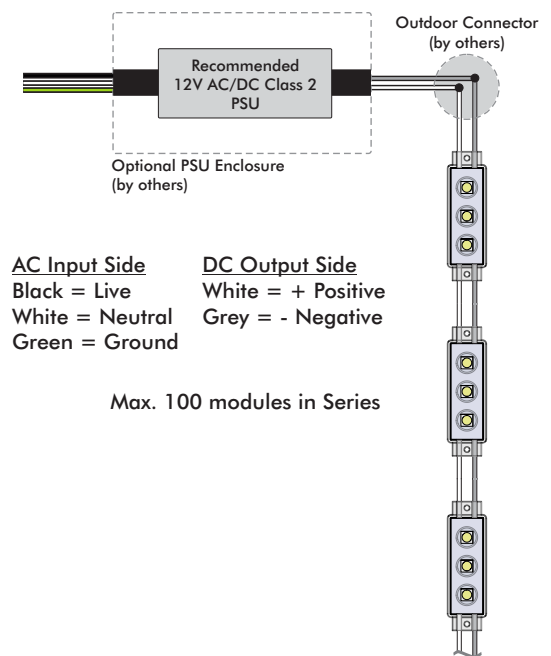
Maximum Run per PSU

In a parallel IP-SF™3 system installation, the total amount of modules needs to equal 100 or less for one power supply.

12V AC/DC Class 2 PSU

In a series IP-SF™3 installation, the maximum number of modules along the run needs to equal 100 or less for one power supply.

12V AC/DC Class 2 PSU

Product Specifications

IP-SF™3 Module			
Electrical	Rated Input Voltage		12VDC
	Power Consumption (maximum)		0.5W
	Approved Remote AC/DC Power Supplies		12VDC Class 2 Power Supplies Only
			CLG-60-12
			PLC-60-12
			LP-1040-12
Optical	Light Source		3 x SMT LEDs
	Luminous (typical per module)		38
	Optic		Wide Beam 140°
	Projected Lumen Maintenance		50,000 hours @ 50° (B50, L70)
Physical	Length x Width x Height	mm	54 x 16 x 9.5
		inches	2.13 x 0.63 x 0.37
	Weight	g	6.5
		oz	.23
	Housing		Injection Molded ABS Body filled with Epoxy Resin
	Fixture Connections		70mm lead wires and 70mm jumper wires between modules
	Rated Operating Temperature		-30°C to +50°C, -22°F to +122°F
	Environment		Indoor/Outdoor, Dry or Damp or Wet Locations

These figures are subject to change due to further development and innovations.

* Under development
These figures are subject to change due to further development and innovations.

L I G H T I N G

CREATING NEW BEAUTY FOR OUR HOME PLANET ™

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