

## Flexible LED Strip

# Manual



LED Color	Model	
Red	SL-S212-RAQ	
Yellow	SL-S212-YAQ	
Blue	SL-S212-BAQ	
White	SL-S212-WAQ	

- Flexible LED Strip easily installs anywhere.
- Can be cut every 3 LEDs.
- Gold plated connector for reliability.
- Connect up to 30 LED Strips (12-inches each).
- Self adhesive backing for easy installation.
- Wide 120° beam spread.
- Energy efficient—only 2.4W.
- Three brightness levels.\*
  \*May require additional wiring





Note: Products with model numbers that end with "Q" or that have a round green "Q" sticker are RoHS compliant.

### **Overview:**

The SL-S212 series of ENFORCER Flexible LED Strips provides energy efficient illumination in a flexible package, perfect for a wide variety of indoor lighting applications. The lightweight Flexible LED Strips can be placed anywhere, trimmed to length and output only minimal heat.

<b>Specifications:</b>	
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Operating voltage	12VDC	Number of LEDs per strip	12	
Current draw per LED Strip	200mA@12VDC	Distance between LEDs	1" (25mm)	
Current draw per 3-LED segment	50mA@12VDC	Operating temperature	-5°~115° F (-20°~45° C)	
Dimensions	12"x <sup>7</sup> / <sub>16</sub> " (305x10 mm)	Weight	0.4-oz (11.4g)	

#### LED Specs:

Model	Model Color		Lumen output	
SL-S212-WAQ White		2500~3500 K	1200~2000 mcd	
SL-S212-BAQ	SL-S212-BAQ Blue		400~500 mcd	
SL-S212-RAQ Red SL-S212-YAQ Yellow		620~635 nm	950~1050 mcd	
		585~595 nm	950~1050 mcd	

## Installation:

#### WARNINGS:

- ▲ THE SL-S212 FLEXIBLE LED STRIP IS FOR INDOOR USE ONLY AND SHOULD NOT BE EXPOSED TO MOISTURE, WEATHER OR HIGH HUMIDITY.
- ▲ DO NOT FOLD STRIP. DO NOT BEND STRIP REPEATEDLY OR INSTALL IN SUCH A WAY THAT MAY CAUSE STRIP TO BEND REPEATEDLY. DAMAGE MAY RESULT.

#### • Mounting:

- 1. The LED Strip can be mounted anywhere using the self adhesive mounting strip on the back.
- For installations where use of the adhesive strip is not practical or not applicable, use another fastener such as optional SL-SAS-SH1Q Strip Fastener (sold in packs of 10).
- NOTE: When mounting, do not pierce the LED Strip, as internal circuitry may be damaged.
- End Caps: (Optional—Sold in packs of 10)
  - 1. For protection against accidental short circuit, dust and water, place optional SL-SAS-EC1Q End Cap over the unconnected end of the LED Strip.
  - 2. For further protection, seal end cap with silicon sealant.
  - **NOTE:** Sealing the end cap will increase the water resistance of the LED Strip but will not make it applicable for outdoor use. LED Strip is for indoor use only.
- Power supply (not included)
  - 1. Choose a power source which will supply 12VDC with current capacity of 200mA or more **per** LED strip connected:

(# of strips) x (0.2A) x (1.1\*) = total current capacity required.

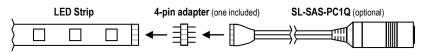
\*Always maintain a margin of safety by choosing a power supply with at least 10% additional current capacity.

2. The following ENFORCER 12VDC Power Supplies are ideal for use with the LED Strip:

Power Supply Model	Max. Supply Current	Number of Strips
ST-UV12-S0.5Q	0.5A	up to 2
ST-UV12-S1.0Q	1.0A	up to 4
ST-UV12-S2.0Q	2.0A	up to 9
ST-UV12-S5.0Q	5.0A	up to 24

#### • Wiring

- 1. Each LED Strip has a female pin connector at each end and one included 4-pin adapter.
- 2. Connect the 4-pin adapter to either end of the LED Strip.
- 3. Use the optional SL-SAS-PC1Q Power Connector (2.1mm) to connect the LED Strip to a power adapter. Use a CA-161T DC Plug to Removable Terminal Block adapter if required.

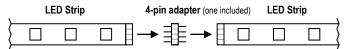


4. If use of SL-SAS-PC1Q is not desired, the LED Strip pin connections are as follows:

5. If at any time the strip fails to illuminate when power is connected, it is likely that the pins have been reversed. Flip the power connector over or reverse the power connections to correct the problem. The product is reverse polarity protected and damage will not result.

#### • Connecting Multiple Units (max. 30 strips)

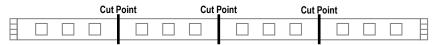
1. Up to 30 LED Strips can be connected together in series.



- 2. If any strip fails to illuminate when power is connected, flip end for end to reverse polarity.
- 3. The LED Strip is reverse polarity protected so inverse connection will not cause damage. **WARNING:** DO NOT CONNECT MORE THAN 30 LED STRIPS IN SERIES.

## Cutting the LED Strip:

- 1. The LED Strip can be cut to length every 3 LEDs using wire cutters, tin snips or strong scissors.
- 2. At any of the points shown below, cut as close to the mid-point between the LEDs as possible.
- 3. If desired, the cut end may be covered with electrical tape or silicon sealant.
- 4. Connect the shortened strip to the power supply. No further electrical connections are needed.



## Adjusting Brightness

1. The brightness of the LED Strip can be adjusted to three levels.

- NOTE: Brightness is not adjustable when using the SL-SAS-PC1Q power connector.
- Connecting a different number of +12VDC pins to the power supply will change the brightness as shown in the chart on the following page.

ENFORCER®	Flexible LED Strip
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	Brightness	Number of pins			<b>Connection Diag</b>	ram	
-	Maximum	Connect all +12\	12VDC pins		Maximum		
-	Medium	Connect two +12	-12VDC pins		edium +12VDC tness Ground		
-	Minimum	Connect one +12	+12VDC pin			+12VDC Ground	
Red	commende	ed Accessori	es:				
	<b>D End Cap</b> I in packs of 10	LED Strip Fastener Sold in packs of 10	LED Pov Connec		DC Plug Adapter w/Terminal Block	DC Jack Adapter w/ Removable Terminal Block	
		00	9	-			
SL-	SAS-EC1Q	SL-SAS-SH1Q	SL-SAS-F	C1Q	CA-161T	CA-151R	
Als	o Availabl	e from SECO	-LARM:				
	LED Strobe L	ight	High Inter 1Wx4 LED N		52 LED	Disk Module	
		6	001				

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to the purchaser or anyone else.

SI -1301-BAQ Series

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