

Installation Instructions - Smart Pixel LineLED Decoder

Models SR-DMX-SPI



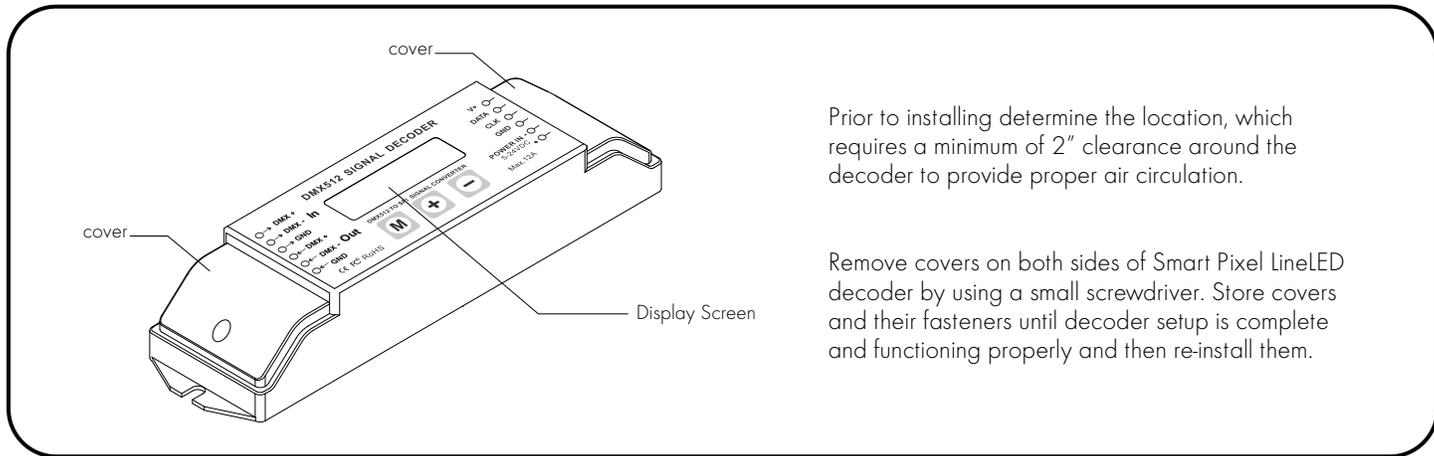
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Please read all instructions prior to installation and keep for future reference!

1. ENSURE POWER TO POWER SUPPLY IS OFF BEFORE INSTALLING
2. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
3. USE ONLY WITH CLASS 2 POWER UNIT

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WIRING DIAGRAM

SR-DMX-SPI

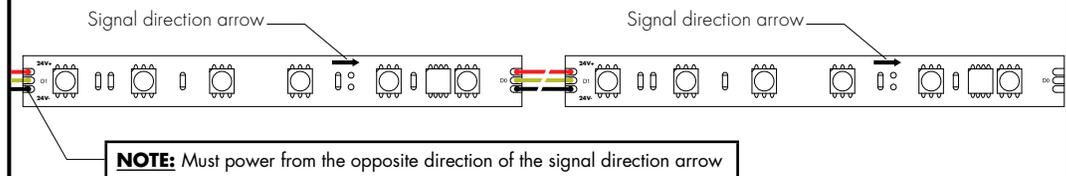
Smart Pixel LineLED Decoder

NOTE: Please make sure that power is turned off before wiring.

Also, ensure that the correct power supply (voltage and wattage) is used to power the LED strips connected to the decoder. Follow illustrated wiring diagram. Use screwdriver to open and close connection slots.

NOTE: When connecting two or more LED strip lights or light fixtures, always make sure the signal direction arrows are pointing to same direction

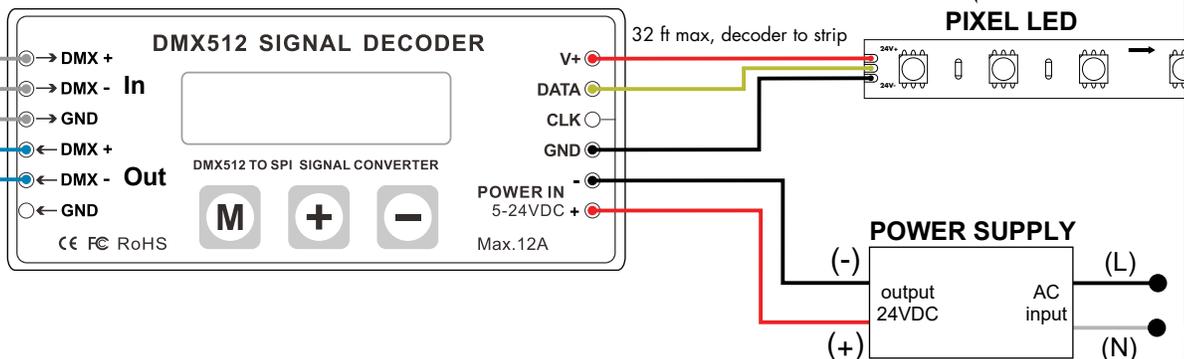
The signal direction arrow should appear on each section (cut increment) of LED strip



CONTROLLER WIRES

1000 ft max, decoder to Controller

DMX Terminator for the last DMX decoder (provided by others)



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OPERATING GUIDE SR-DMX-SPI DMX512 Pixel Signal Decoder

There are three buttons on the decoder.



Menu



Increase Value



Decrease Value

After operation, if no action was taken within 30s, the button lock, and backlight of the screen will turn off.

Holding the M button for 3 seconds will turn the decoder screen on and activate the menu.

Once on, hold the M button for 6 seconds switches between test/troubleshoot mode, and DMX mode.

Test/Troubleshoot mode can be used to test the load of individual decoders. The decoder must be in DMX mode, in order to use with the rest of the DMX system as desired.

During test mode, the first line of LCD will show: TEST MODE. Use test mode to verify RGBW Pixel functionality.

During decoder mode, the first line of LCD shows: DECODER MODE. Use decoder mode when connecting to a Controller and for final installation and customization.

The second line of the LCD Display shows the current setting and value. Note: 1 Pixel = 1 Cut Increment

NOTE:
When connected to a controller, DMX512 Signal Decoder will stay in "Decoder Mode".

MODE TABLE

SETTING	LCD DISPLAY	VALUE RANGE	DESCRIPTION
Built-in Programs	TEST MODE MODE NO.:	1-26	See Program Table below
Program Speed	TEST MODE RUN SPEED:	0-7	0: fast, 7: slow
DMX Address	DECODER MODE DMX ADDRESS:	1-512	This is the DMX start address of the decoder, each pixel sequentially takes the next DMX addresses according to PIXEL MERGE and PIXEL QTY
DMX Signal RGB	DECODER MODE DMX RGB SEQ:	RGB, BGR, etc.	This should be set to RGBW or RGB
Pixel Quantity	DECODER MODE PIXEL QTY:	1-170(RGB), 1-128(RGBW)	This is the # of individually controlled pixels attached to the decoder, and how many DMX addresses the decoder will reserve. This is dependent on the length of the load attached to the decoder and the pixel merge setting.
IC TYPE	DECODER MODE IC TYPE:	2903, 8903, 2904, 8904	This should be 2904 for our RGBW LEDs, and 2903 for our RGB LEDs
Color	DECODER MODE COLOR:	MONO, DUAL, RGB, RGBW	this should be RGBW
Pixel Merging / Pixel Size	DECODER MODE PIXEL MERGE:	1-100	This is used to increase the size of each individually controlled pixel. o For example, if set to 3, instead of 4" pixels, you will get 12" pixels and 1/3 of the dmx addresses needed.
LED RGB Sequence	DECODER MODE LED RGB SEQ:	RGBW, BGRW, etc.	This should be set to RGBW or RGB for Luminii tape.
Integral Control	DECODER MODE ALL CONTROL:	YES, NO	This overrides dmx addressing and sends the same signal to all addresses. o This should be set to NO
Reverse Control	DECODER MODE REV-CONTROL:	YES, NO	This reverses the direction of the Addressing. When this is set to NO, the addressing starts @ the decoder and goes sequentially down.
Overall Brightness	DECODER MODE BRIGHTNESS:	0-100	0 for OFF, 100 for Full brightness

NOTE:
The actual maximum control pixels of the controller are 1360 (2903) ,1024 (2904). Please set the pixel and pixel combination value according to the actual situation, and DO NOT exceed the maximum.

NOTE: For Program Table
Change: no fading/dimming between color changes
Fade: fade/dim between color changes
Chase: change pixel by pixel
Chase with Trail: change pixel by pixel with fading between

PROGRAM TABLE

PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION
1	Solid color: Red	10	RGB fading	19	Red chasing green, chasing blue
2	Solid color: Green	11	Full color fading	20	Orange chasing purple, chasing cyan
3	Solid color: Blue	12	Red chase with trail	21	Rainbow chase (7 colors)
4	Solid color: Yellow	13	Green chase with trail	22	Random twinkle: white over red
5	Solid color: Purple	14	Blue chase with trail	23	Random twinkle: white over green
6	Solid color: Cyan	15	White chase with trail	24	Random twinkle: white over blue
7	Solid color: White	16	RGB chase with trail	25	White fading
8	RGB change	17	Rainbow chase with trail	26	Off
9	Full color change	18	RGB chasing and fading		