

Installation Instructions - Smart Pixel LineLED Decoder

Models SR-DMX-SPI

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

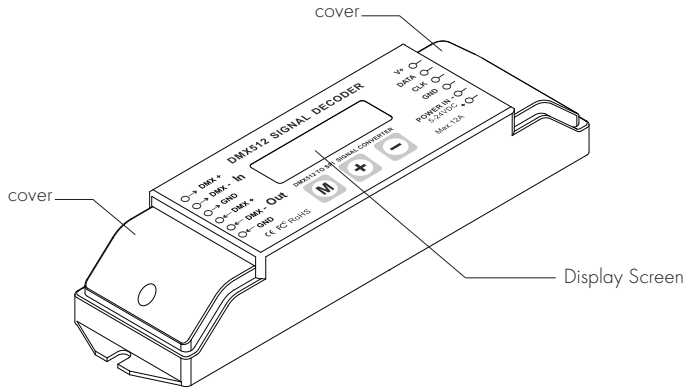
1. ENSURE POWER TO POWER SUPPLY IS OFF BEFORE INSTALLING
2. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
3. USE ONLY WITH CLASS 2 POWER UNIT

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Prior to installing determine the location, which requires a minimum of 2" clearance around the decoder to provide proper air circulation.

Remove covers on both sides of Smart Pixel LineLED decoder by using a small screwdriver. Store covers and their fasteners until decoder setup is complete and functioning properly and then re-install them.

WIRING DIAGRAM

SR-DMX-SPI

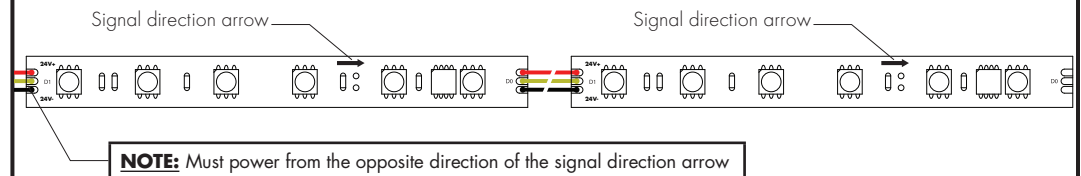
Smart Pixel LineLED Decoder

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

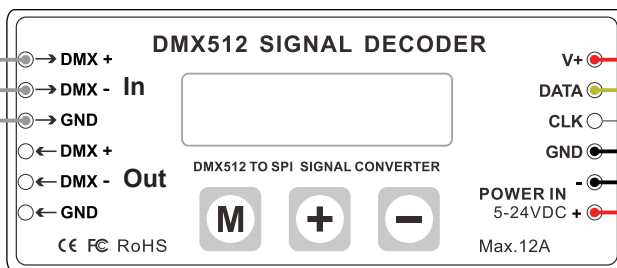
The signal direction arrow should appear on each section (cut increment) of LED strip



NOTE: Must power from the opposite direction of the signal direction arrow

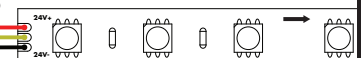
CONTROLLER WIRES

1000 ft max,
decoder to Controller

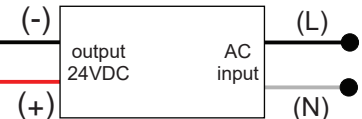


32 ft max, decoder to strip

PIXEL LED



POWER SUPPLY



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OPERATING GUIDE

SR-DMX-SPI

DMX512 Pixel Signal Decoder

There are three buttons on the decoder.



Parameter Setting



Increase Value



Decrease Value

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

1. Long press M button for 5s to unlock the buttons, and the backlight will turn on.
2. Long press M button for 5s to switch between test mode and decode mode after unlocked. 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

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	Address of the starting point/Pixel of a program
DMX Signal RGB	DECODER MODE DMX RGB SEQ:	RGB, BGR, etc.	N/A
Pixel Quantity	DECODER MODE PIXEL QTY:	1-170(RGB), 1-128(RGBW)	Number of Pixels to follow a program
IC TYPE	DECODER MODE IC TYPE:	2903, 8903, 2904, 8904	2903: N/A, 2904: for RGBW, 8903: N/A, 8904: N/A
Color	DECODER MODE COLOR:	MONO, DUAL, RGB, RGBW	MONO: N/A, DUAL: N/A, RGB: N/A, RGBW: for RGBW
Pixel Merging / Pixel Size	DECODER MODE PIXEL MERGE:	1-100	Number of Pixels to merge together
RGB Sequence	DECODER MODE LED RGB SEQ:	RGBW, BGRW, etc.	Sequence of RGBW, 24 possible combinations
Integral Control	DECODER MODE ALL CONTROL:	YES, NO	Yes: Merge all Pixels No: Maintain individual Pixels or Merged Pixels
Reverse Control	DECODER MODE REV-CONTROL:	YES, NO	Reverse program order
Overall Brightness	DECODER MODE BRIGHTNESS:	1-100	1: dimmest setting 100: brightest setting

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		

NOTE:

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

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