

SAMPLE WIRING DIAGRAMS

Installation Guide

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SAMPLE WIRING DIAGRAMS

LS200 LEVEL SELECT

Installation Guide

BEFORE YOU BEGIN, READ INSTALLATION INSTRUCTIONS THOROUGHLY

- Install in accordance with the National Electric Code and local regulations
- All IFX products are intended to be installed and serviced by a qualified, licensed electrician.
- MAKE SURE you check voltages before powering on any products. EX: DO NOT connect low voltage lighting products to 120V lines.
- Choose the right wire gauge size to maintain correct voltage throughout the whole system.
- Make sure to check polarity (+,-) is correct.
- Ensure all connections are water tight and protected from the elements.
- Both outer and inner jackets of wiring must be water tight so water CANNOT wick back up through the system.
- Make sure you are not exceeding wattage limits (see specific product spec. sheets for more information)
- Waterproof all components of the system that require additional protection. See specific product sheets for more information.

Example 1 – 12VDC

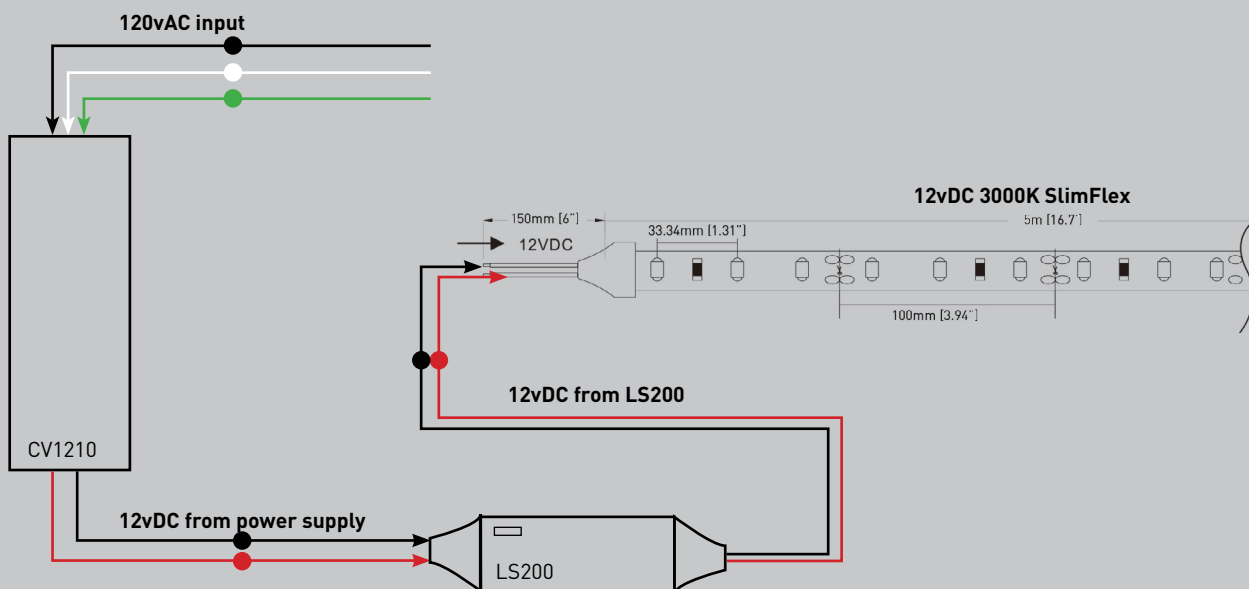
12VDC (ELECTRONIC POWER SUPPLY) > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

LS200 - Level Select RF remote dimmer controller

SFT35 - 3000K Warm White LED SlimFlex tape light



Example 2 – 12VAC

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE

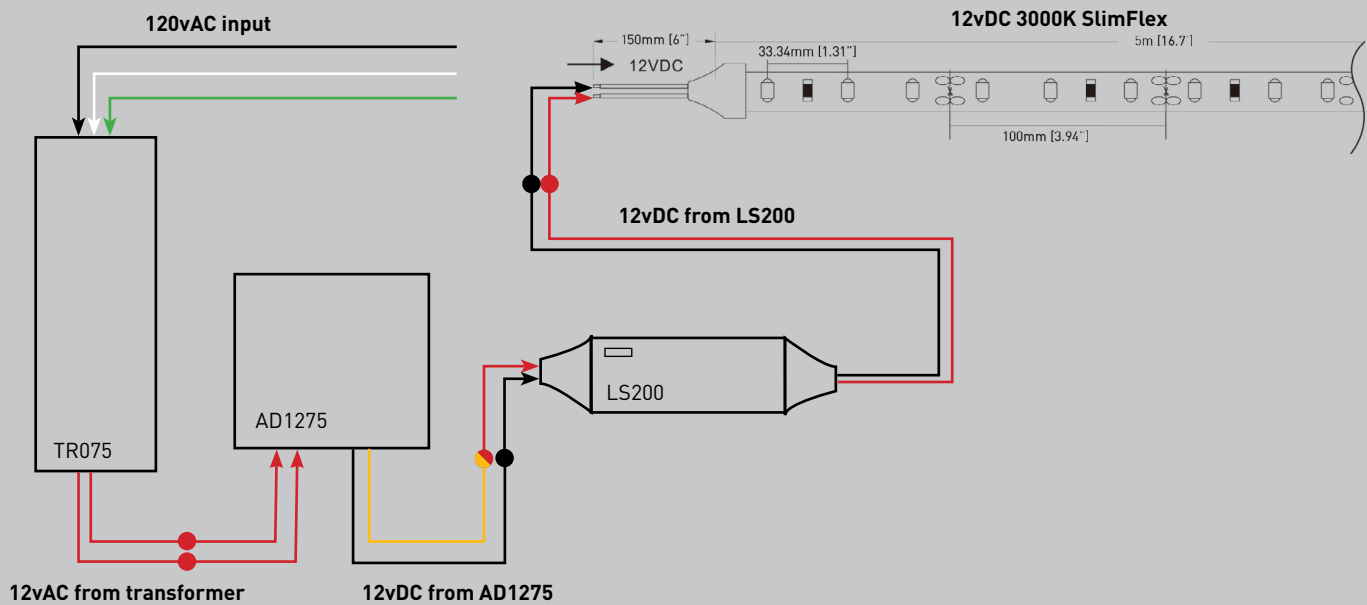
PART NUMBERS USED:

TR075- 75W low voltage 12Vac transformer

AD1275 - 75W AC to DC convertor

LS200 - Level Select RF remote dimmer controller

SFT35 - 3000K Warm White LED SlimFlex tape light



SAMPLE WIRING DIAGRAMS

CS200 COLOR SELECT

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- Make sure you are not exceeding wattage limits (see specific product spec. sheets for more information)
- Waterproof all components of the system that require additional protection. See specific product sheets for more information.

Example 1 – 12VDC

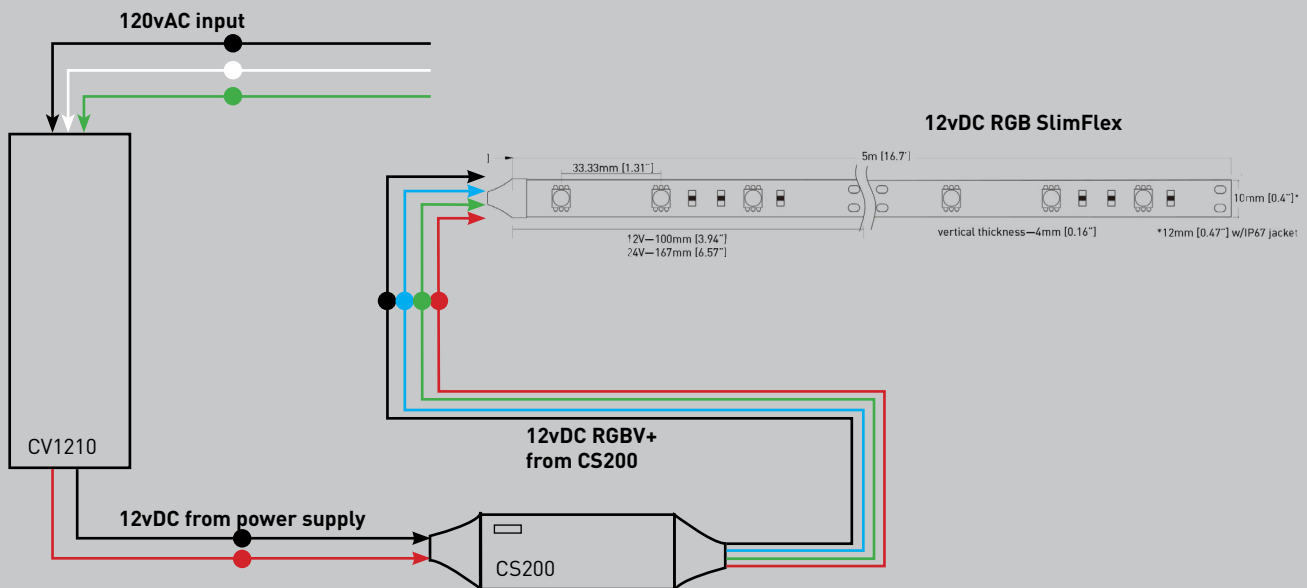
12VDC (ELECTRONIC POWER SUPPLY) > CS200 >RGB 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

CS200 - Color Select RF remote RGB controller

SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light

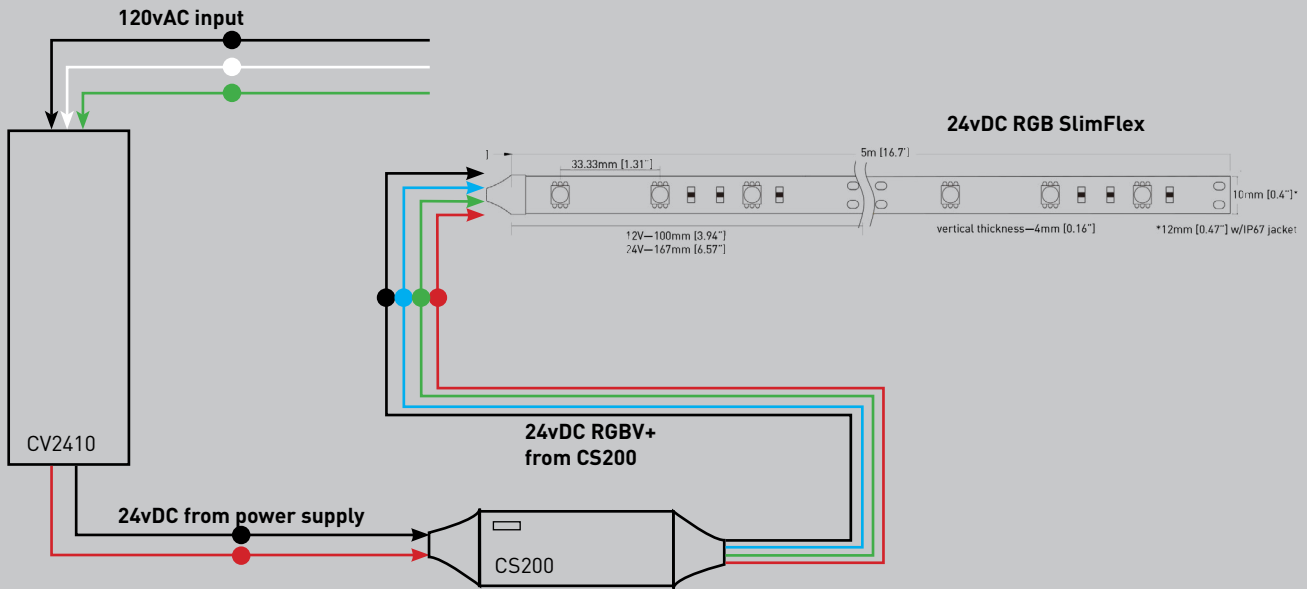


Example 2 – 24VDC

24VDC (ELECTRONIC POWER SUPPLY) > LS200 > RGB 24VDC LIGHTING FIXTURE

PART NUMBERS USED:

- CV2410 - 100W low voltage 24Vdc power supply
- CS200 - Color Select RF remote RGB controller
- SFT50 - 24VDC RGB Color Changing LED SlimFlex tape light

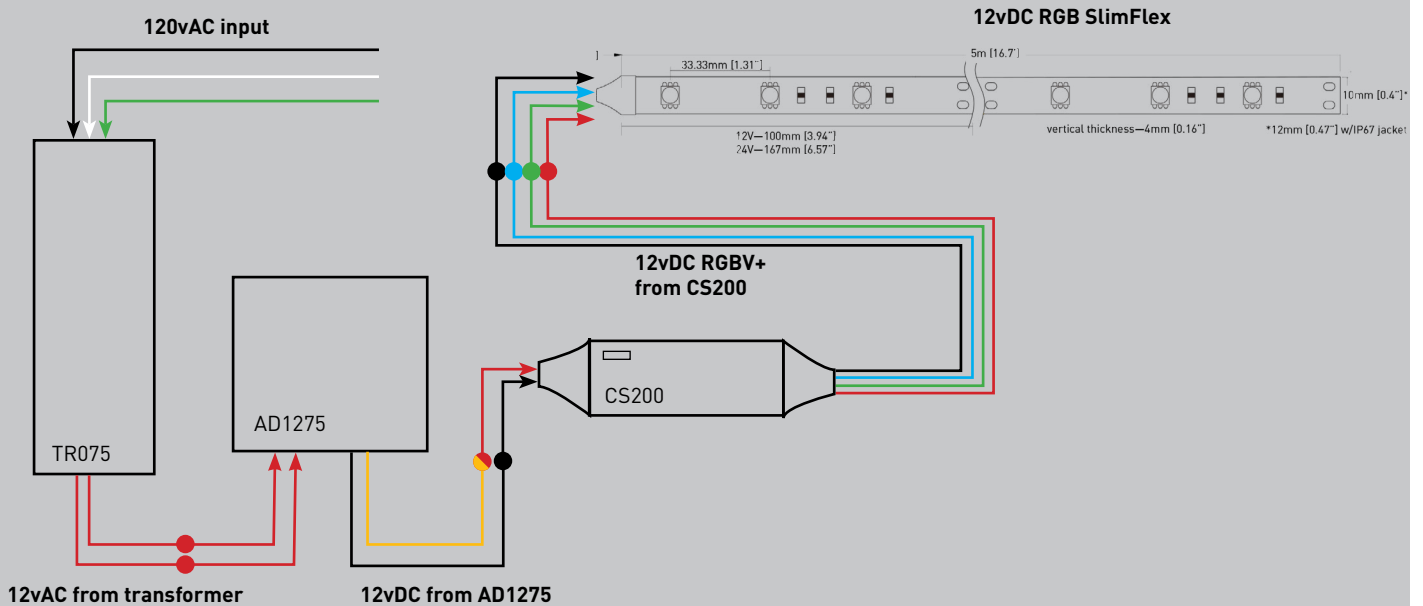


Example 3 – 12VAC

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > CS200 > RGB 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

- TR075- 75W low voltage 12Vac transformer
- AD1275 - 75W AC to DC convertor
- CS200 - Color Select RF remote RGB controller
- SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light



SAMPLE WIRING DIAGRAMS

PA201 LEVEL SELECT

Installation Guide

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Example 1 – 12VDC in Parallel

12VDC (ELECTRONIC POWER SUPPLY) > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE > PA201 > SINGLE COLOR 12VDC LIGHTING FIXTURE > 12VDC (ELECTRONIC POWER SUPPLY) >

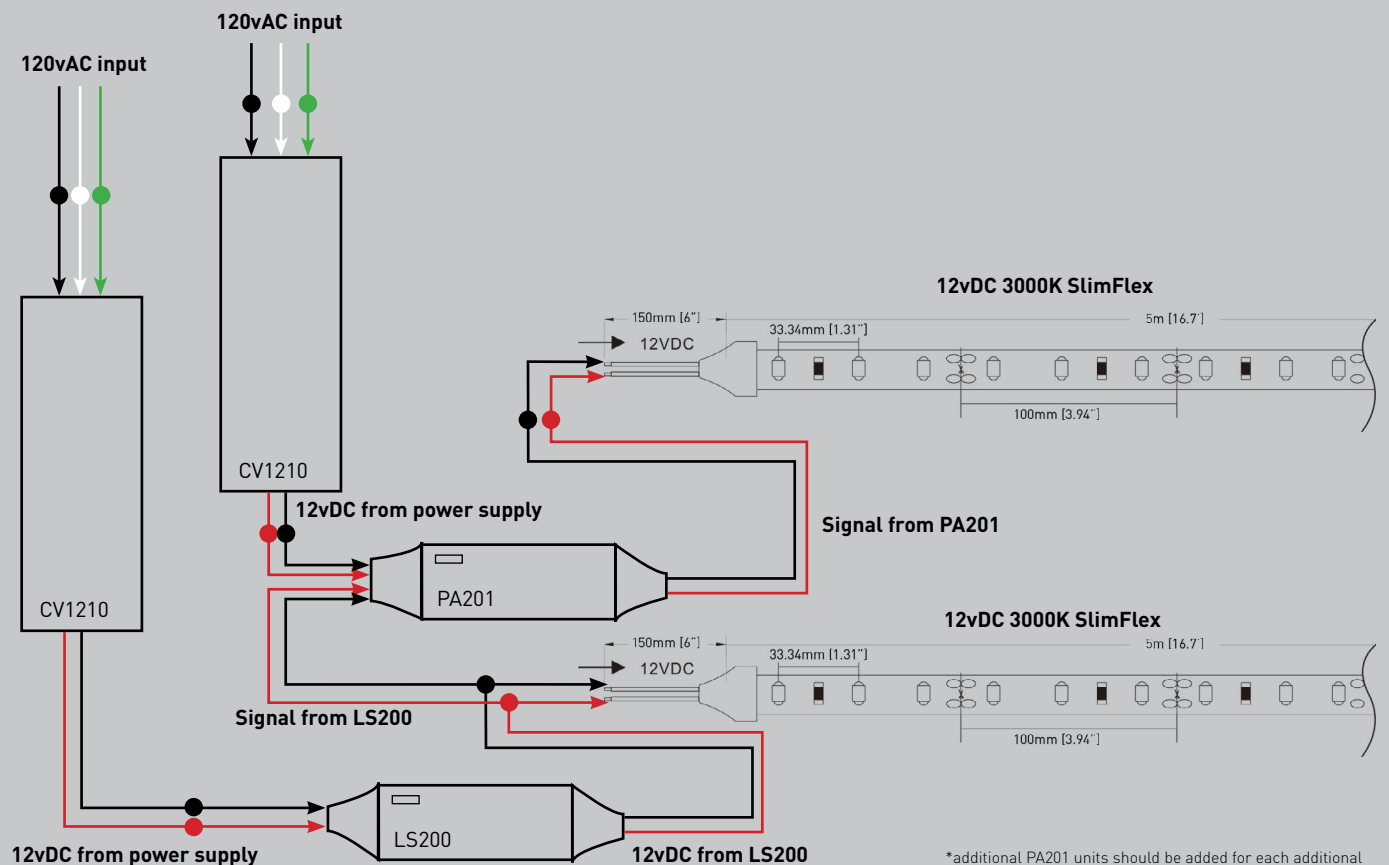
PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

LS200 - Level Select RF remote Single Color controller

SFT35 - 12VDC Single Color LED SlimFlex tape light

PA201 - Single Color Signal Amplifier



*additional PA201 units should be added for each additional power supply/transformer used

Example 2 – 12VAC in Parallel

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE > PA201 > SINGLE COLOR 12VDC LIGHTING FIXTURE
 12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR >

PART NUMBERS USED:

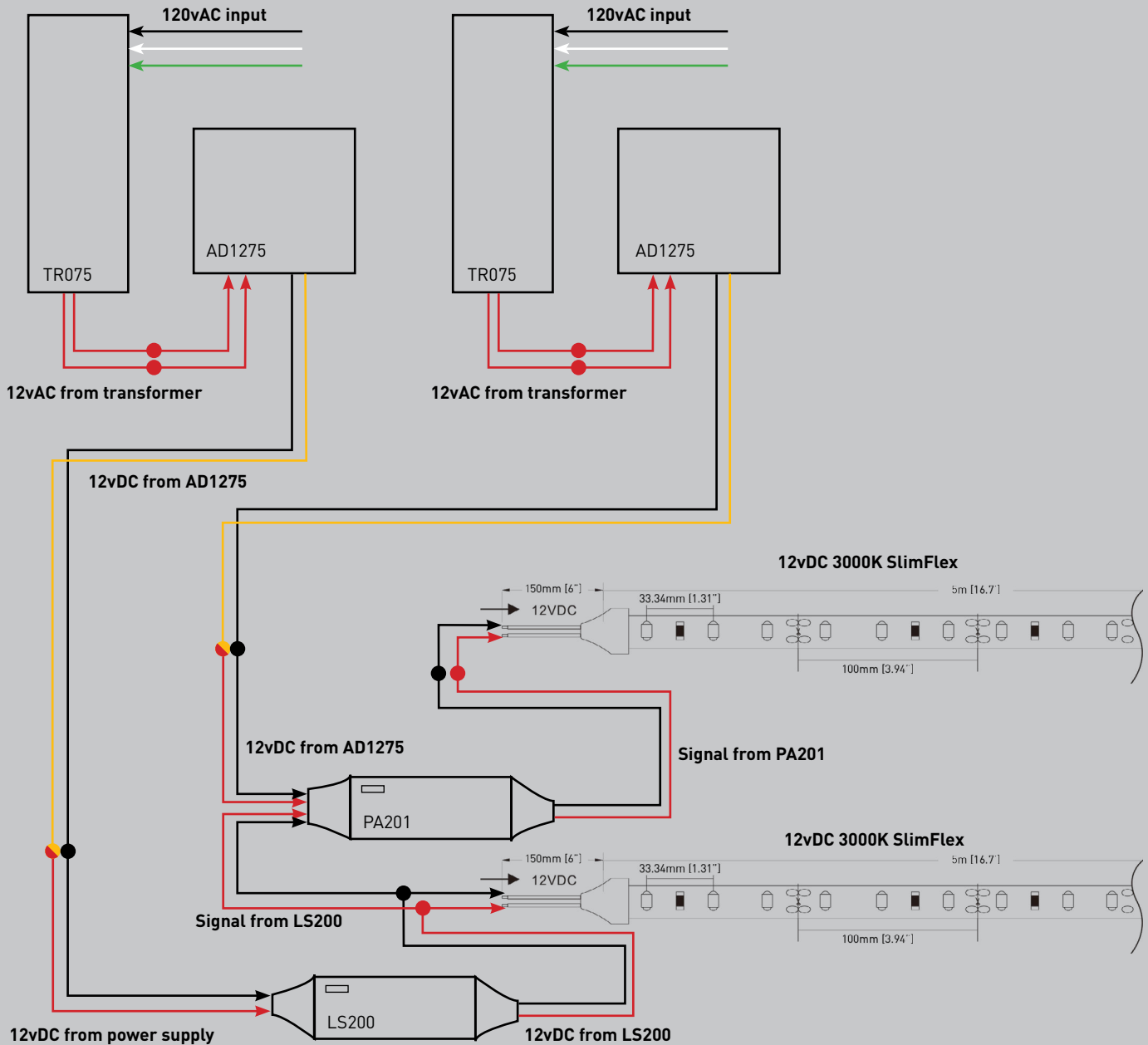
TR075 - 75W low voltage 12Vac transformer

LS200 - Level Select RF remote Single Color controller

SFT35 - 12VDC Single Color LED SlimFlex tape light

PA201 - Single Color Signal Amplifier

AD1275 - 75W AC to DC convertor



*additional PA201 units should be added for each additional power supply/transformer used

Example 3 – 12VDC in Series

12VDC (ELECTRONIC POWER SUPPLY) > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE > PA201 > SINGLE COLOR 12VDC LIGHTING FIXTURE > 12VDC (ELECTRONIC POWER SUPPLY) >

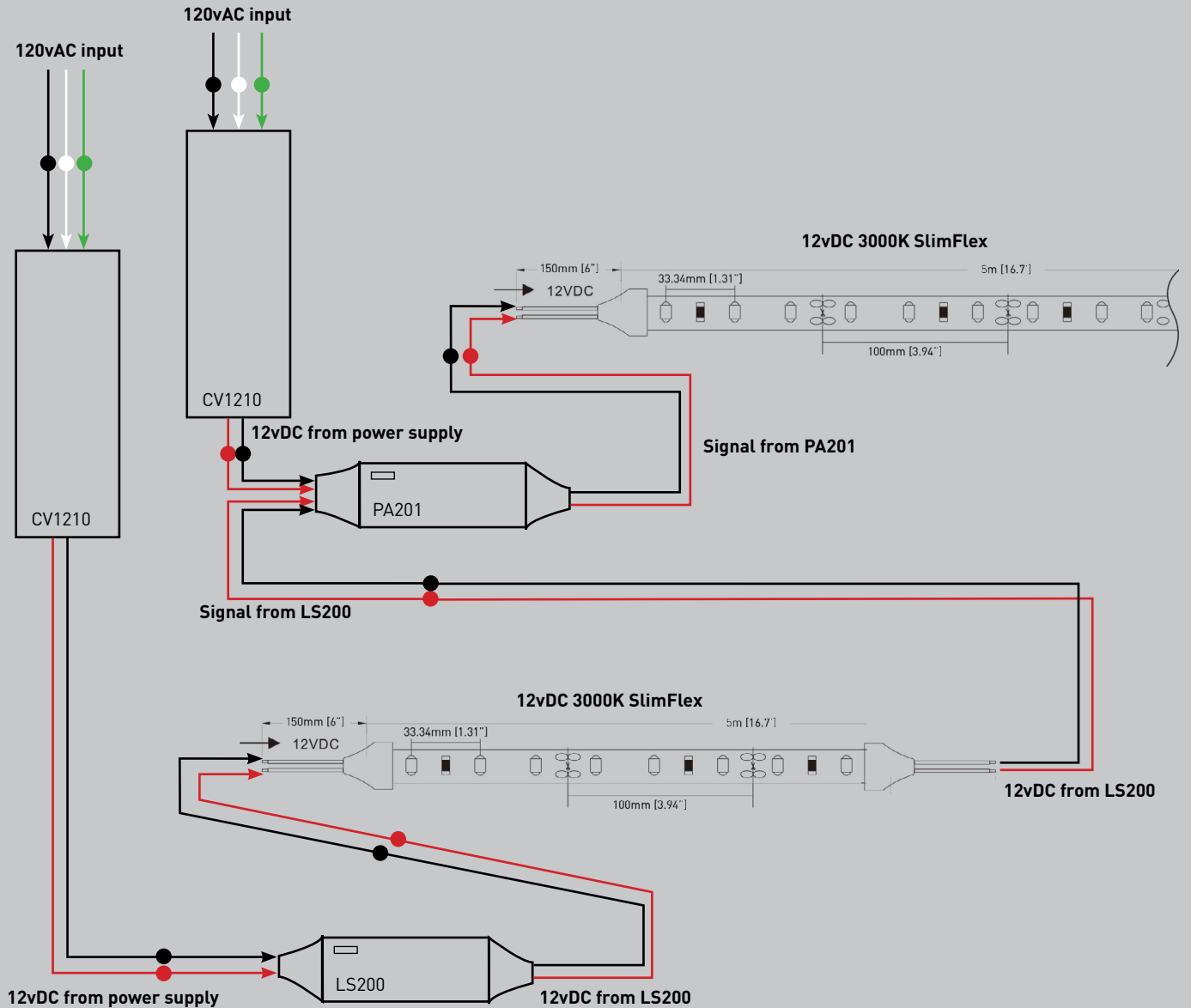
PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

PA201 - Single Color Signal Amplifier

LS200 - Level Select RF remote Single Color controller

SFT35 - 12VDC Single Color LED SlimFlex tape light



*additional PA201 units should be added for each additional power supply/transformer used

*12VAC transformers can also be used in this method. Make sure to use AD12 AC to DC converters

Example 4 – 12VAC in Series & 12VDC in Parallel

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > LS200 > SINGLE COLOR 12VDC LIGHTING FIXTURE > PA201 > SINGLE COLOR 12VDC LIGHTING FIXTURE
 12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR >

PART NUMBERS USED:

TR075 - 75W low voltage 12Vac transformer

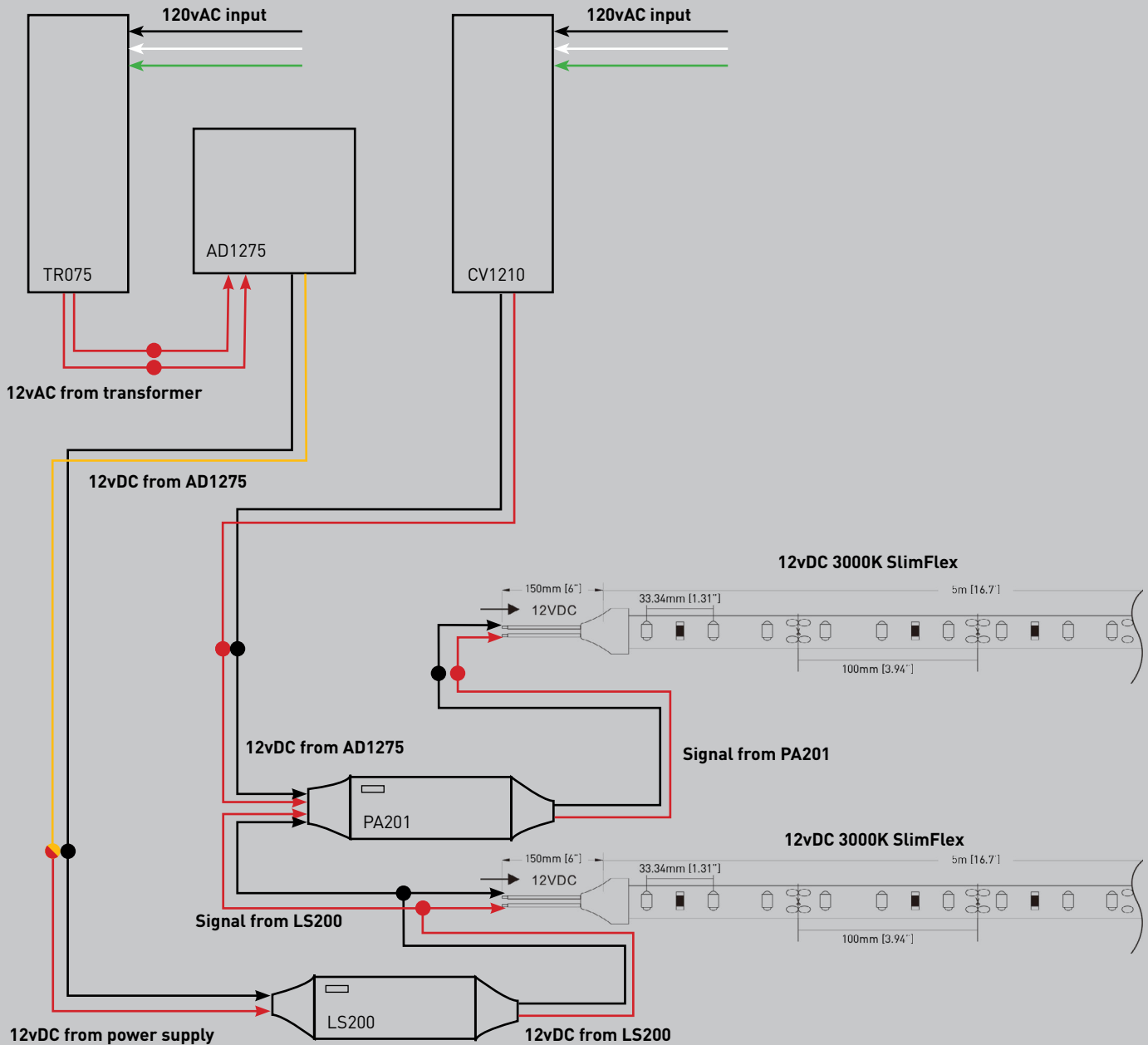
LS200 - Level Select RF remote Single Color controller

SFT35 - 12VDC Single Color LED SlimFlex tape light

PA201 - Single Color Signal Amplifier

AD1275 - 75W AC to DC convertor

CV1210 - 100W low voltage 12Vdc power supply



*additional PA201 units should be added for each additional power supply/transformer used

SAMPLE WIRING DIAGRAMS

PA203 COLOR SELECT

Installation Guide

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- Make sure you are not exceeding wattage limits (see specific product spec. sheets for more information)
- Waterproof all components of the system that require additional protection. See specific product sheets for more information.

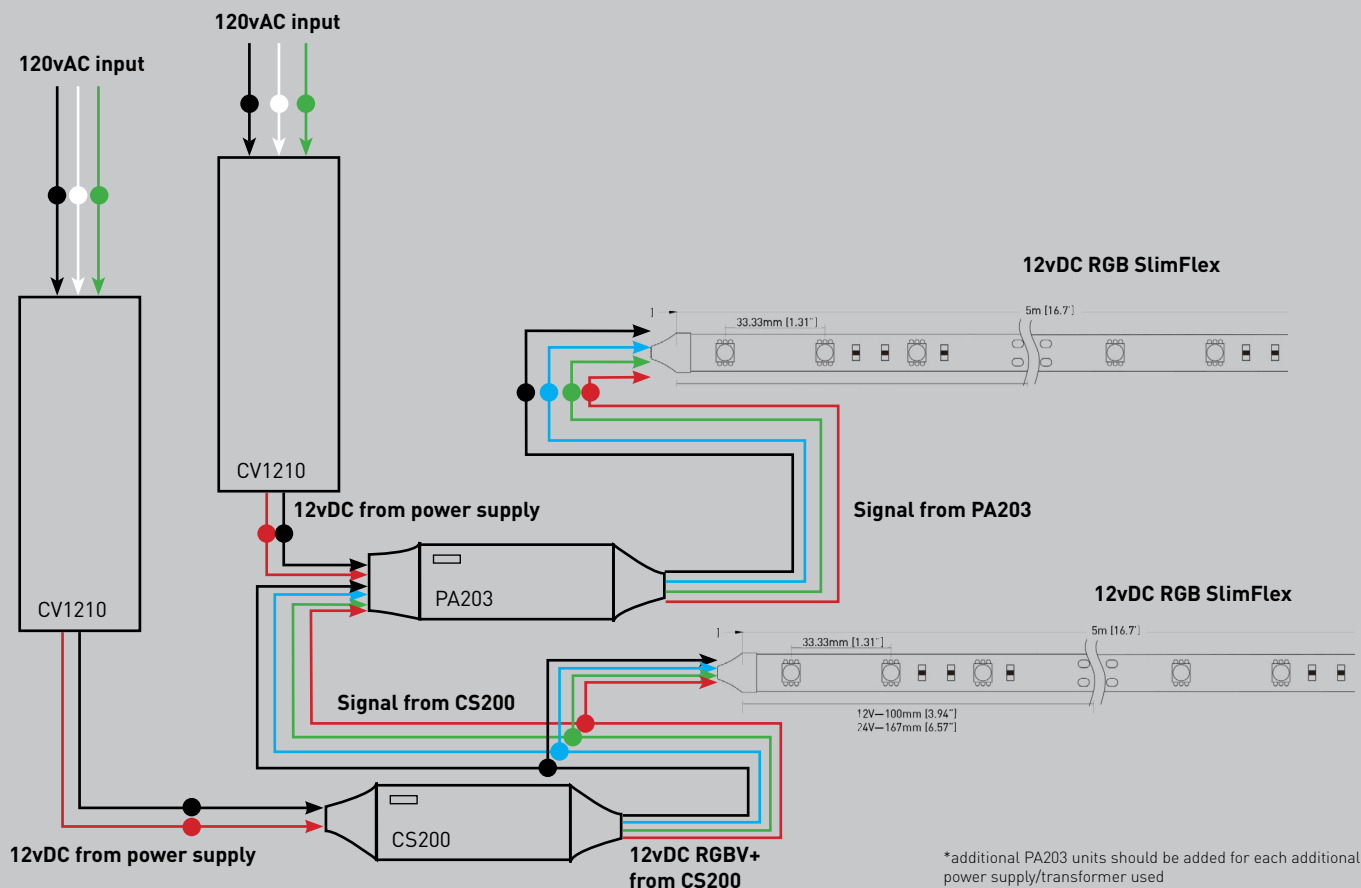
Example 1 – 12VDC in Parallel

12VDC (ELECTRONIC POWER SUPPLY) > CS200 > RGB 12VDC LIGHTING FIXTURE > PA203 > RGB 12VDC LIGHTING FIXTURE > 12VDC (ELECTRONIC POWER SUPPLY) >

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply
 CS200 - Color Select RF remote RGB controller
 SFT50 - 12VDC RGB LED SlimFlex tape light

PA203 - RGB Signal Amplifier



*additional PA203 units should be added for each additional power supply/transformer used

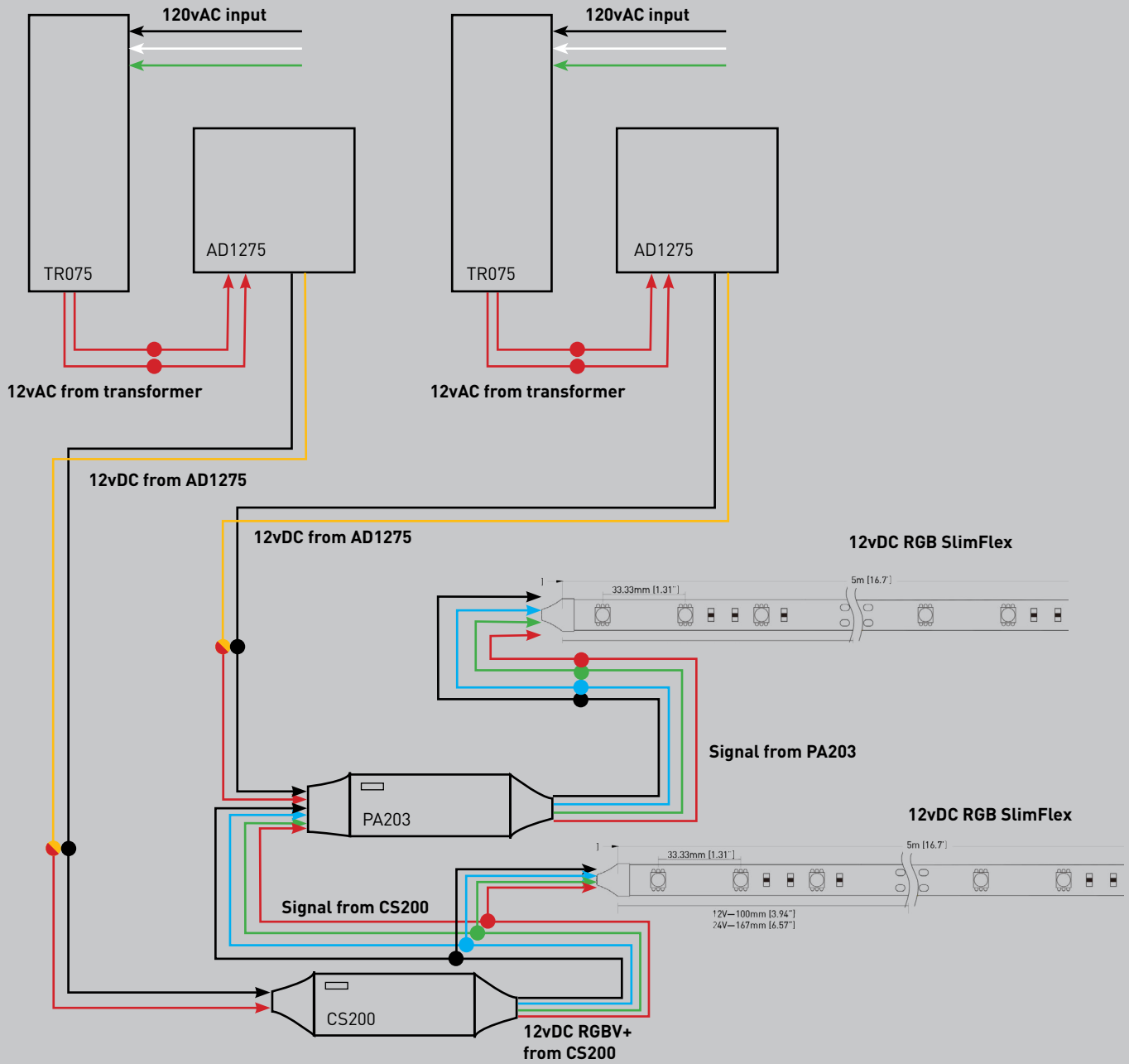
Example 2 – 12VAC in Parallel

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > CS200 > RGB 12VDC LIGHTING FIXTURE > PA203 > RGB 12VDC LIGHTING FIXTURE
 12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR >

PART NUMBERS USED:

TR075 - 75W low voltage 12Vac transformer
CS200 - Color Select RF remote RGB controller
SFT50 - 12VDC RGB LED SlimFlex tape light

PA203 - RGB Signal Amplifier
AD1275 - 75W AC to DC convertor



*additional PA203 units should be added for each additional power supply/transformer used

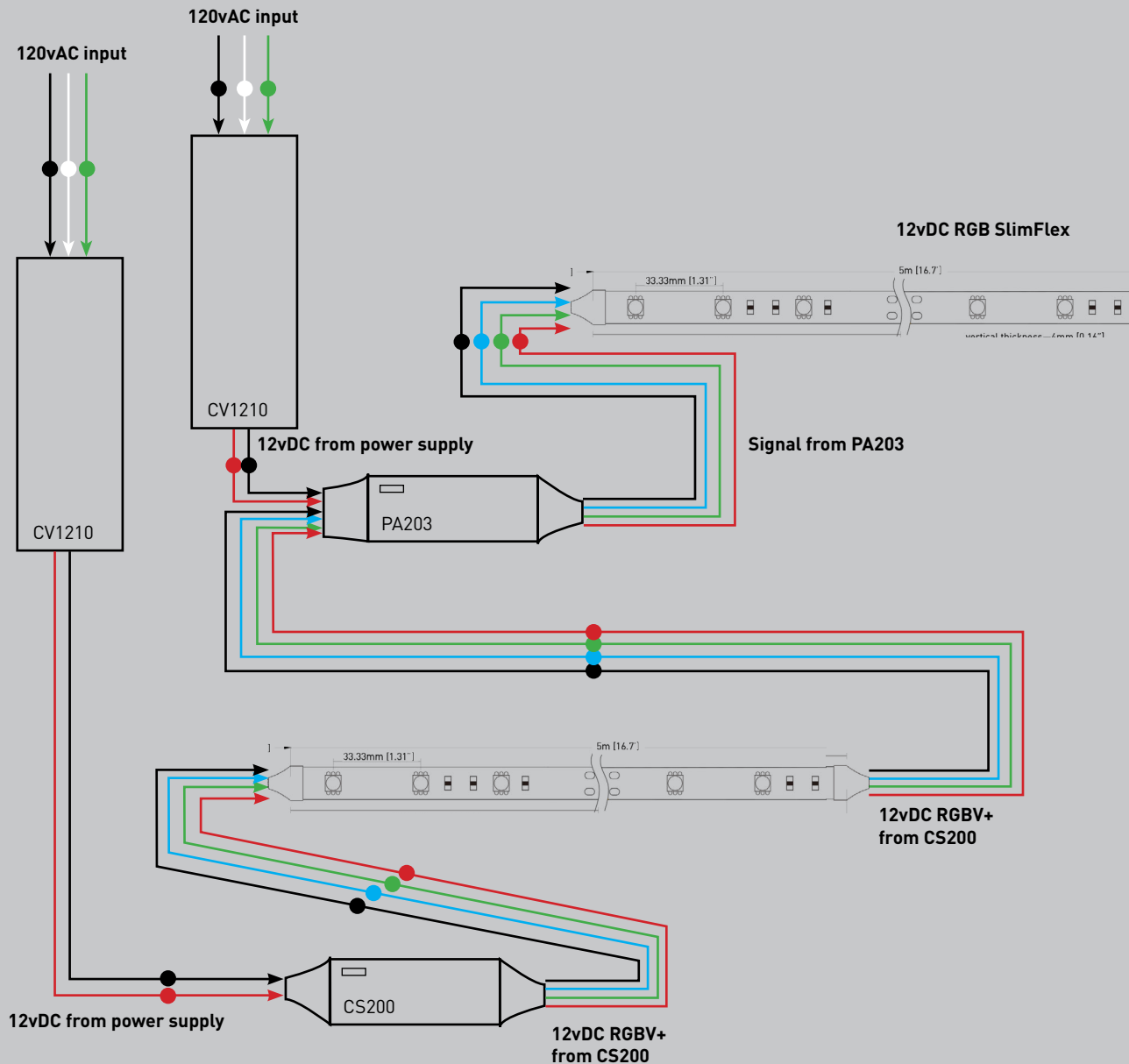
Example 3 – 12VDC in Series

12VDC (ELECTRONIC POWER SUPPLY) > CS200 > RGB 12VDC LIGHTING FIXTURE > PA203 > RGB 12VDC LIGHTING FIXTURE > 12VDC (ELECTRONIC POWER SUPPLY) >

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply
CS200 - Color Select RF remote RGB controller
SFT50 - 12VDC RGB LED SlimFlex tape light

PA203 - RGB Signal Amplifier



*additional PA203 units should be added for each additional power supply/transformer used

*12VAC transformers can also be used in this method. Make sure to use AD12 AC to DC converters

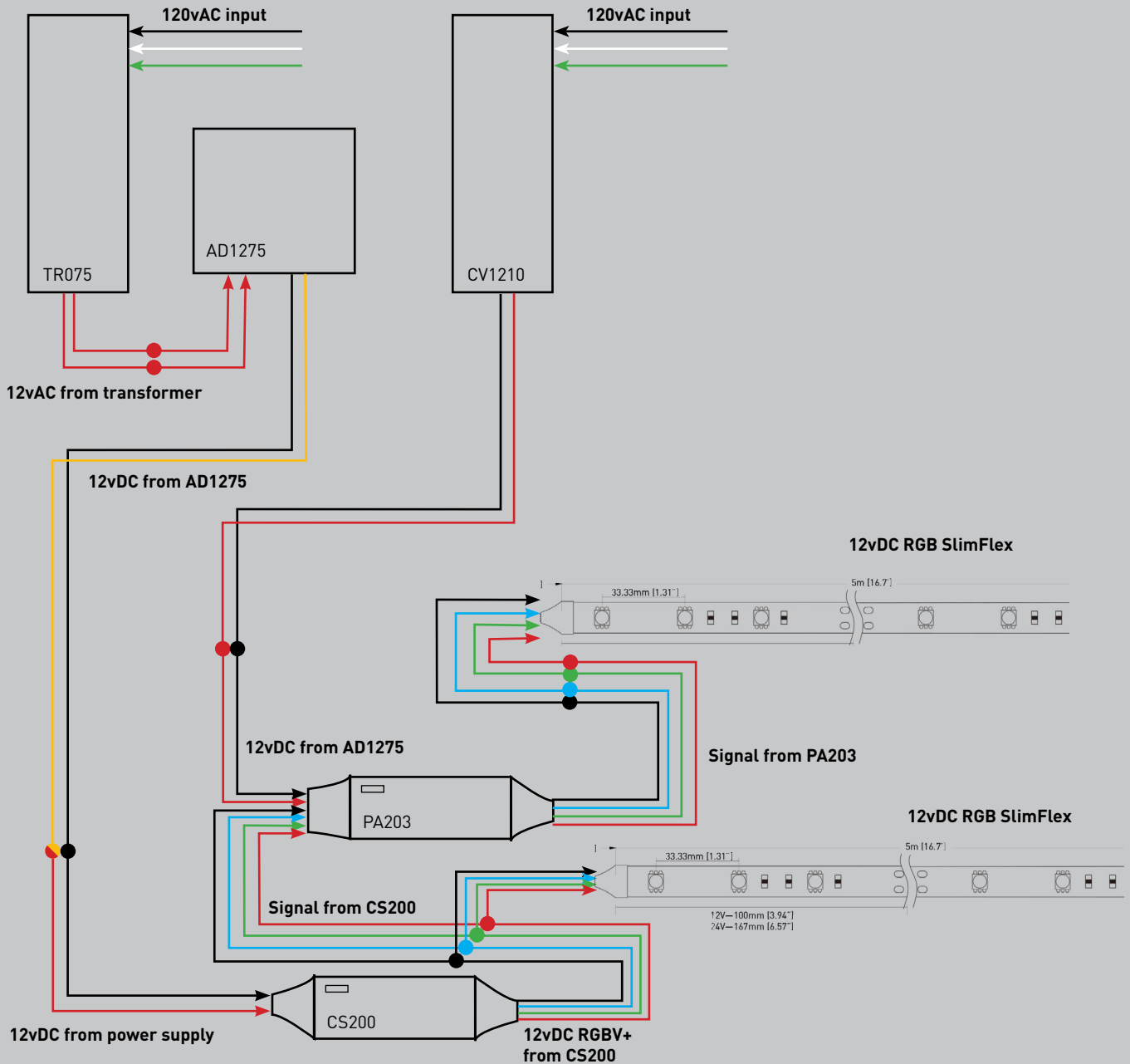
Example 4 – 12VAC & 12VDC in Parallel

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > CS200 > RGB 12VDC LIGHTING FIXTURE > PA203 > RGB 12VDC LIGHTING FIXTURE > 12VDC (ELECTRONIC POWER SUPPLY) >

PART NUMBERS USED:

TR075 - 75W low voltage 12Vac transformer
CS200 - Color Select RF remote RGB controller
SFT50 - 12VDC RGB LED SlimFlex tape light

PA203 - RGB Signal Amplifier
AD1275 - 75W AC to DC convertor
CV1210 - 100W low voltage 12Vdc power supply



*additional PA203 units should be added for each additional power supply/transformer used

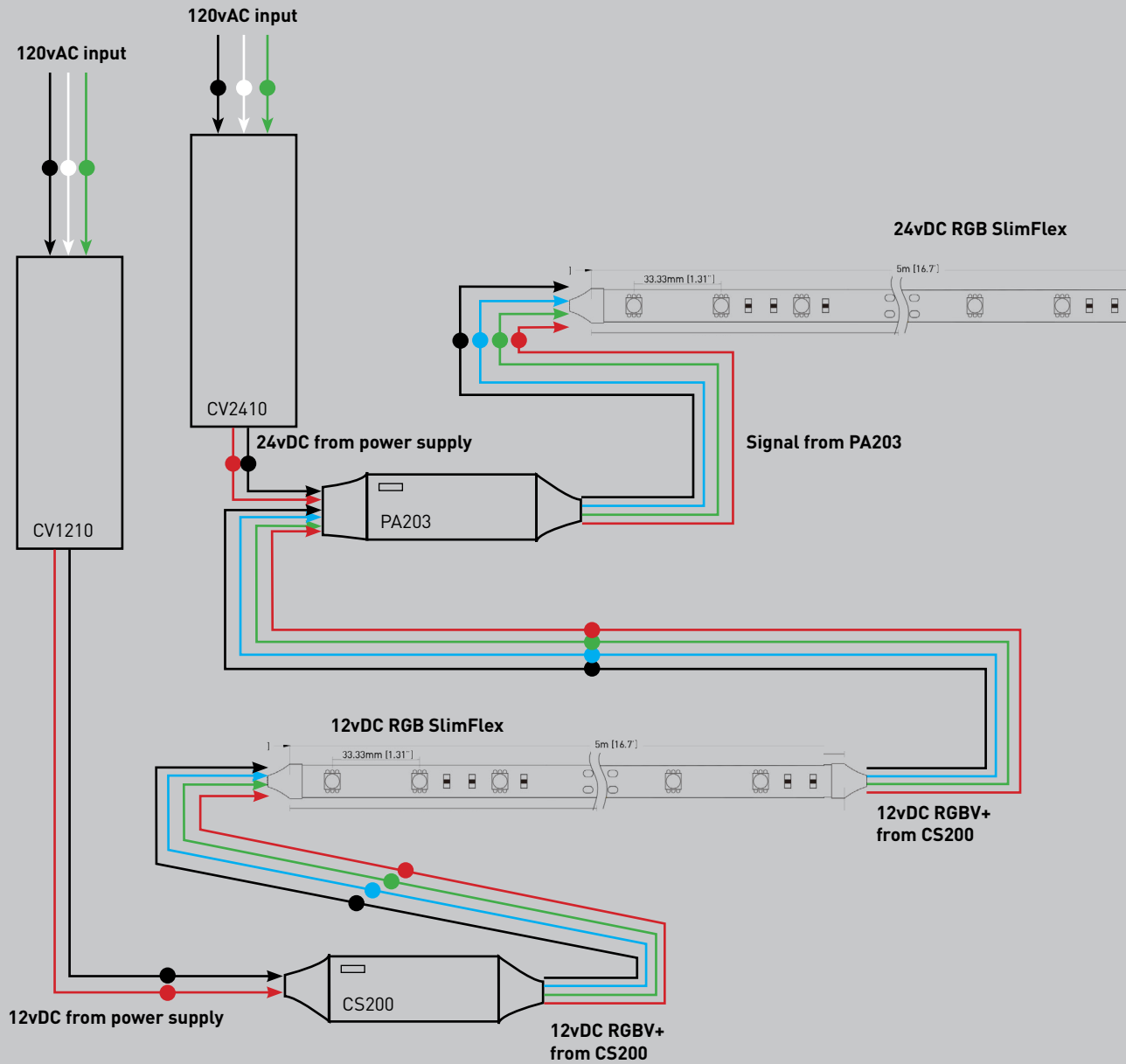
Example 5 – 12VAC & 24VDC in Series

12VDC (ELECTRONIC POWER SUPPLY) > CS200 > RGB 12VDC LIGHTING FIXTURE > PA203 > RGB 12VDC LIGHTING FIXTURE
 24VDC (ELECTRONIC POWER SUPPLY) >

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply
CV2410 - 100W low voltage 24Vdc power supply
CS200 - Color Select RF remote RGB controller

SFT50 - 12VDC RGB LED SlimFlex tape light
SFT50 - 24VDC RGB LED SlimFlex tape light
PA203 - RGB Signal Amplifier



*additional PA203 units should be added for each additional power supply/transformer used

*12VAC transformers can also be used in this method. Make sure to use AD12 AC to DC convertors

SAMPLE WIRING DIAGRAMS

WIFI104 COLOR SELECT PLUS

Installation Guide

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Example 1 – 12VDC

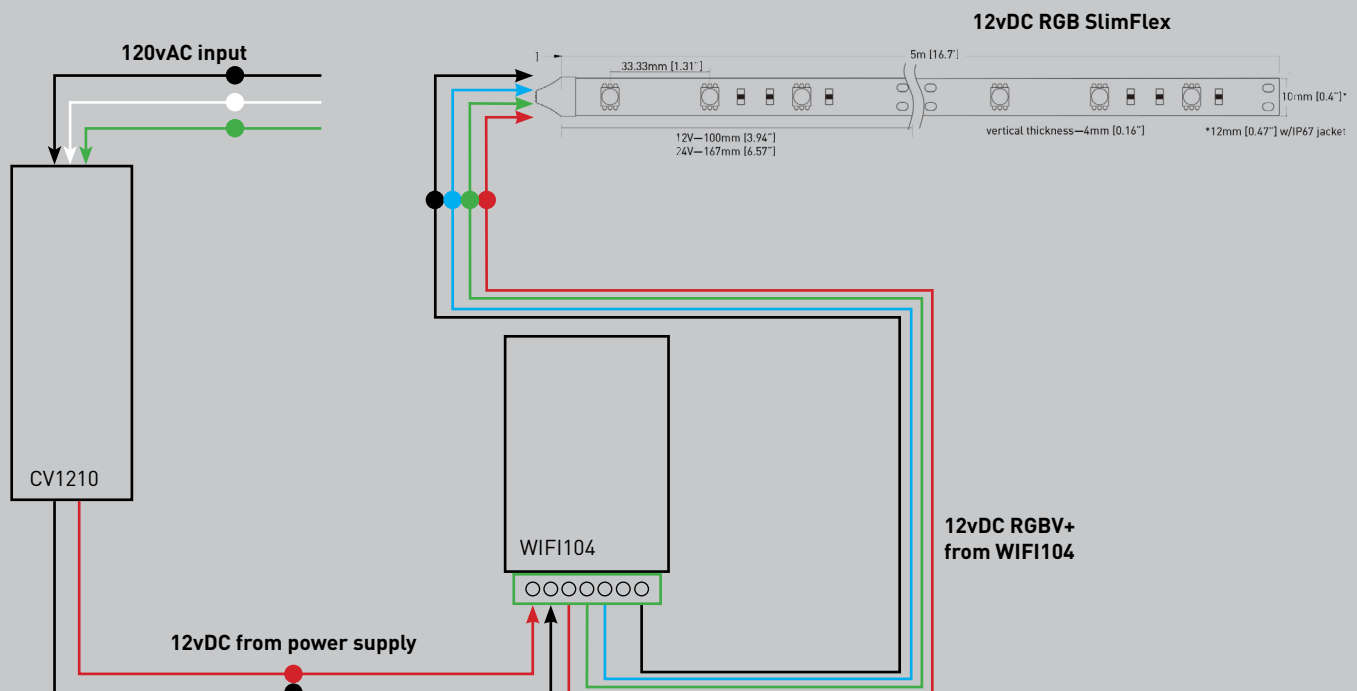
12VDC (ELECTRONIC POWER SUPPLY) > WIFI104 > RGB 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

WIFI104 - Color Select PLUS WIFI104 RGB controller

SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light



Example 3 – 24VDC

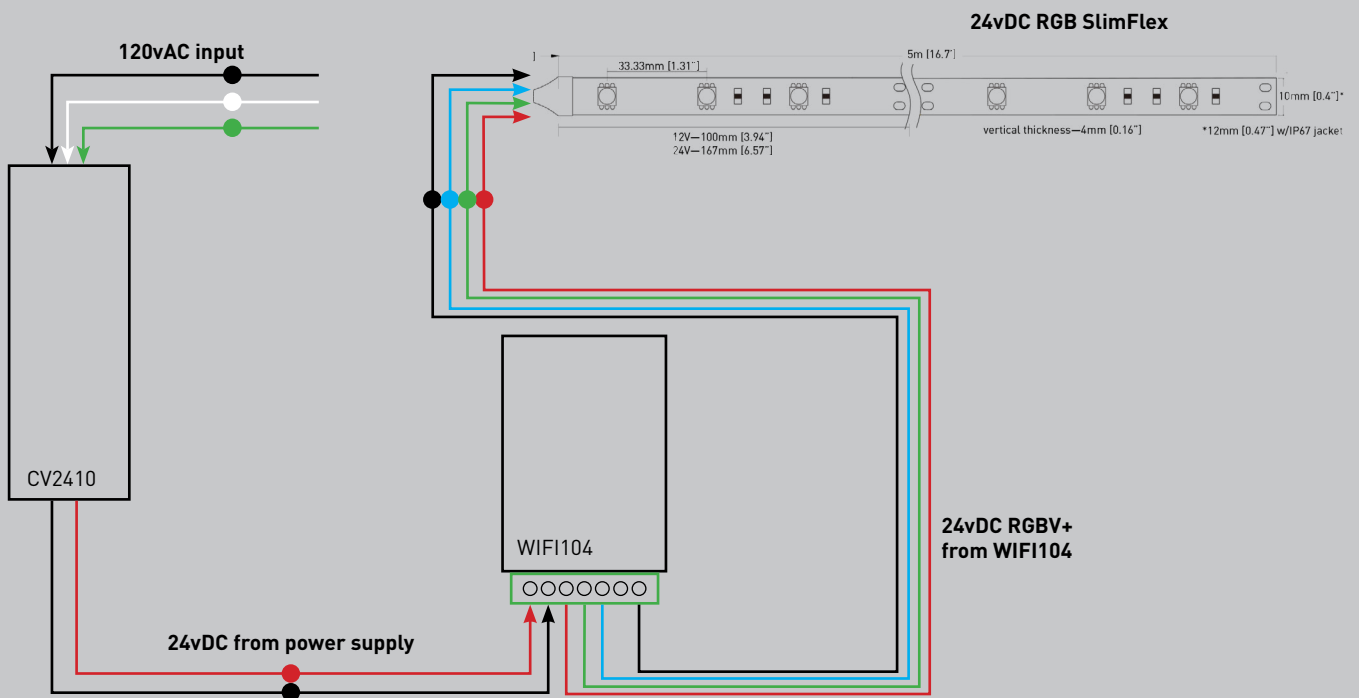
24VDC (ELECTRONIC POWER SUPPLY) > WIFI104 > RGB 24VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV2410 - 100W low voltage 24Vdc power supply

WIFI104 - Color Select PLUS WIFI 104 RGB controller

SFT50 - 24VDC RGB Color Changing LED SlimFlex tape light



Example 3 – 12VAC

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > WIFI104 > RGB 12VDC LIGHTING FIXTURE

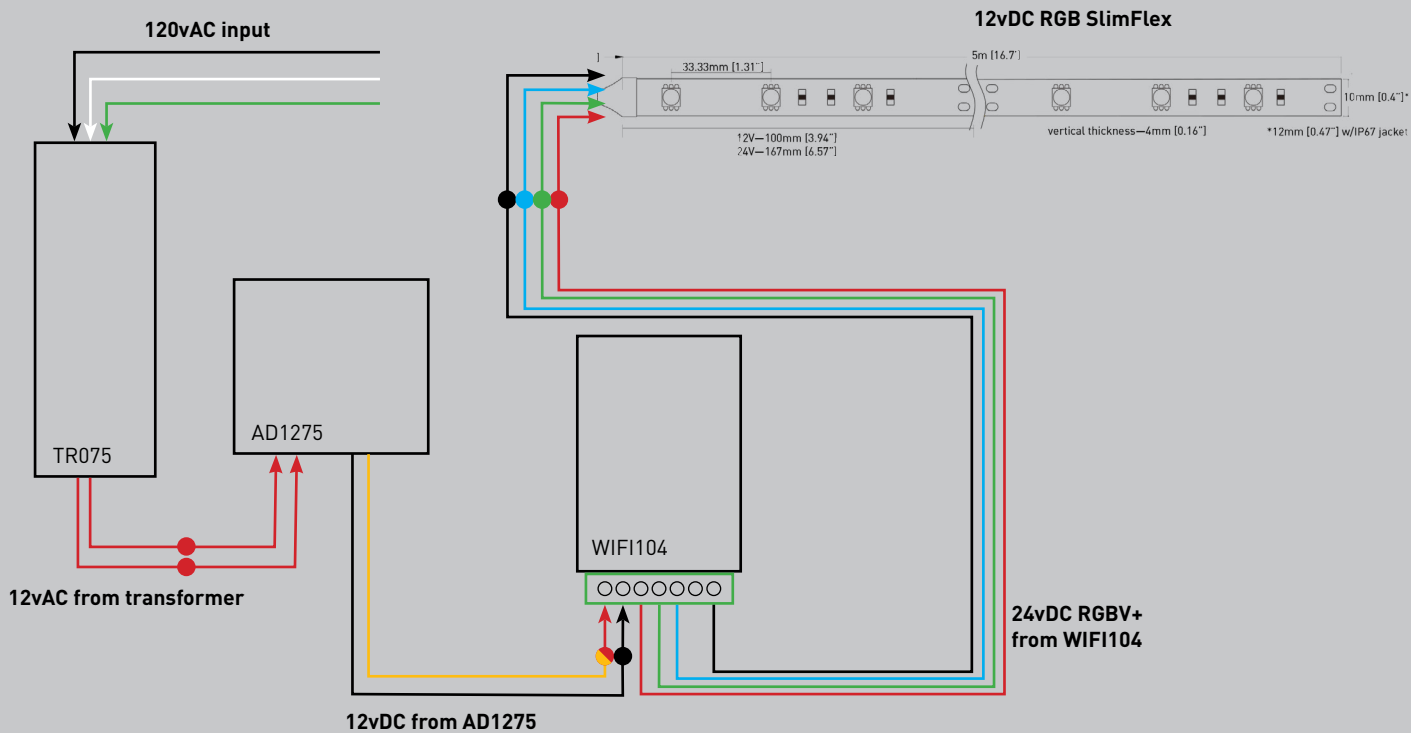
PART NUMBERS USED:

TR075- 75W low voltage 12Vac transformer

AD1275 - 75W AC to DC convertor

WIFI104 - Color Select PLUS WIFI104 RGB controller

SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light



Example 4 – 12VDC as Dimmer Controller

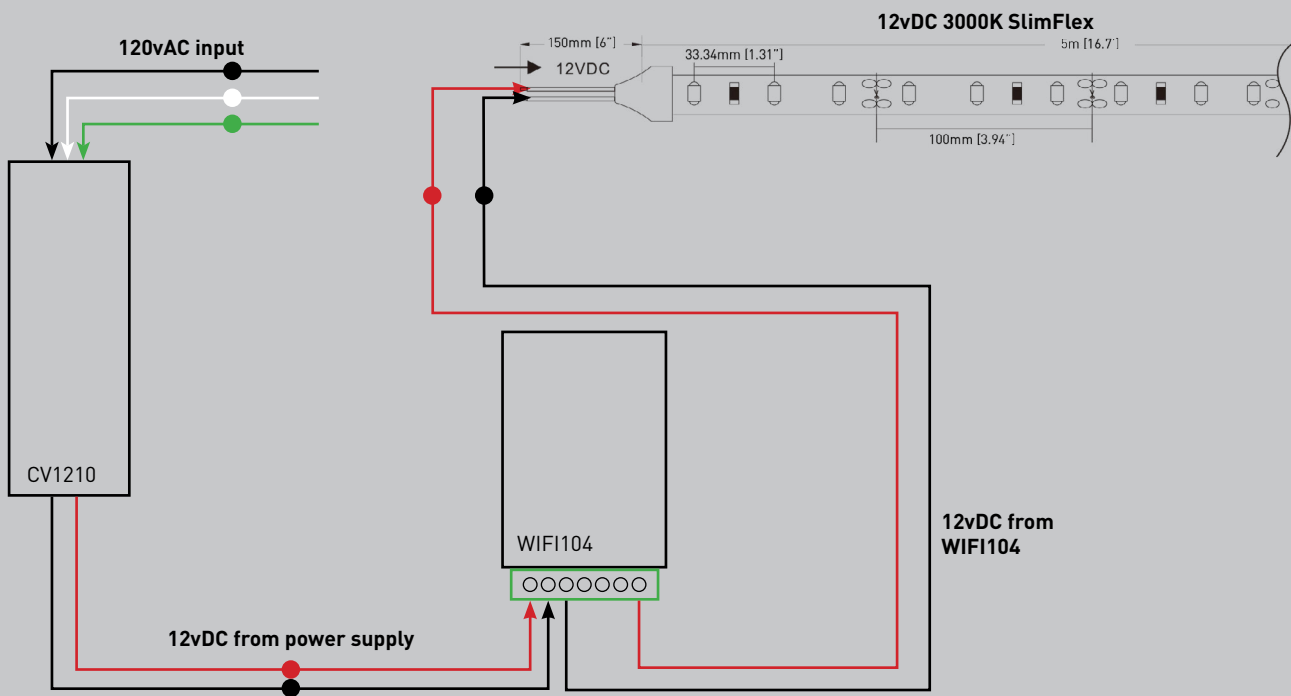
12VDC (ELECTRONIC POWER SUPPLY) > WIFI104 > SINGLE COLOR 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 24Vdc power supply

WIFI104 - Color Select PLUS WIFI 104 RGB controller

SFT35 - 12VDC Single Color LED SlimFlex tape light



Example 5 – 12VAC as Dimmer Controller

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > WIFI104 > SINGLE COLOR 12VDC LIGHTING FIXTURE

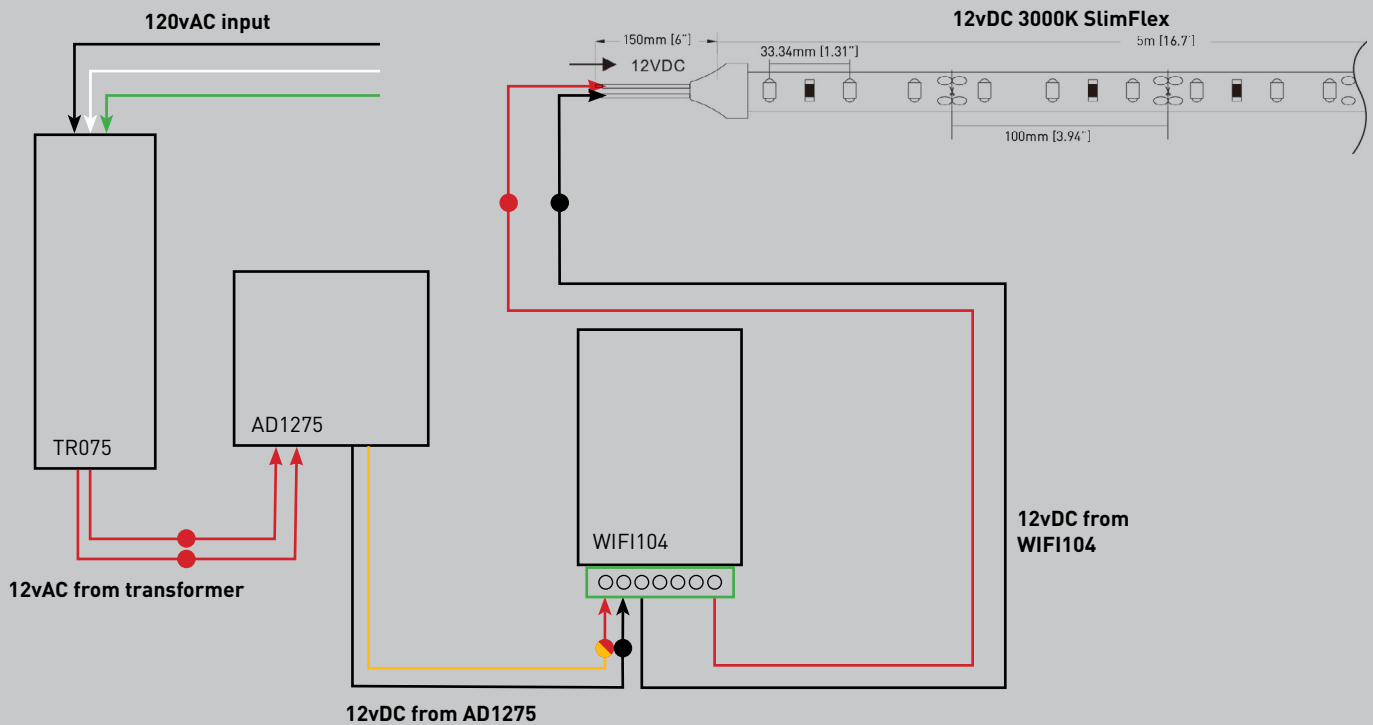
PART NUMBERS USED:

TR075- 75W low voltage 12Vac transformer

AD1275 - 75W AC to DC convertor

WIFI104 - Color Select PLUS WIFI104 RGB controller

SFT35 - 12VDC Single Color LED SlimFlex tape light



SAMPLE WIRING DIAGRAMS

CSP-R45ACV COLOR SELECT PLUS

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Example 1 – 12VDC

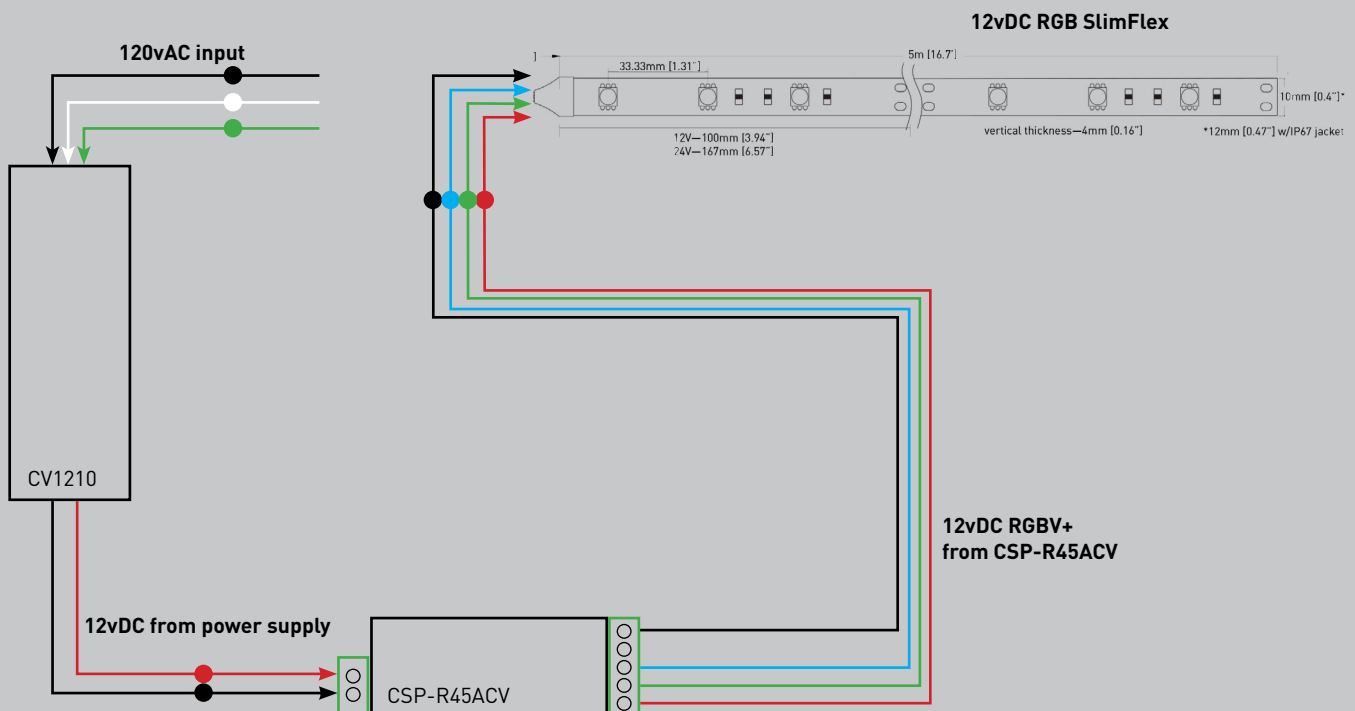
12VDC (ELECTRONIC POWER SUPPLY) > CSP-R45ACV > RGB 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 12Vdc power supply

CSP-R45ACV - Color Select PLUS WIFI Zone Control RGB controller

SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light



Example 2 – 24VDC

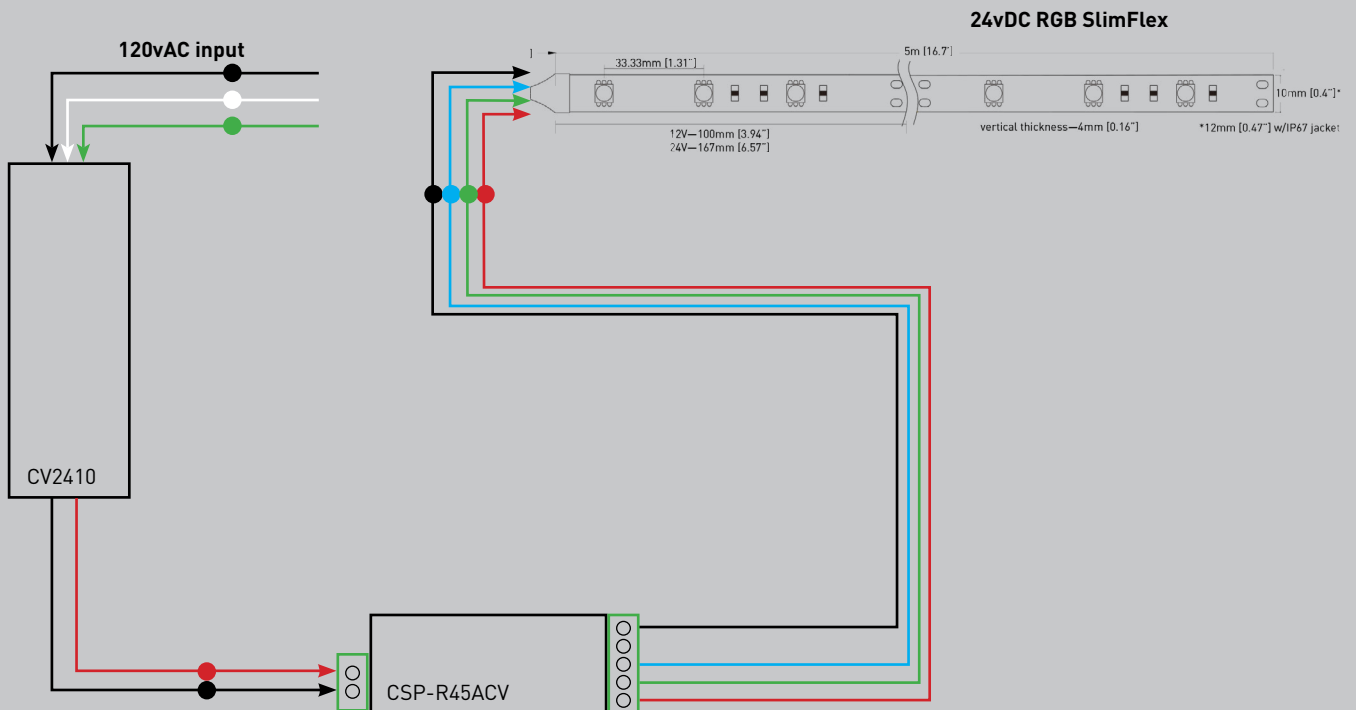
24VDC (ELECTRONIC POWER SUPPLY) > CSP-R45ACV > RGB 24VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV2410 - 100W low voltage 24Vdc power supply

CSP-R45ACV - Color Select PLUS WIFI Zone Control RGB controller

SFT50 - 24VDC RGB Color Changing LED SlimFlex tape light



Example 3 – 12VAC

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > CSP-R45ACV > RGB 12VDC LIGHTING FIXTURE

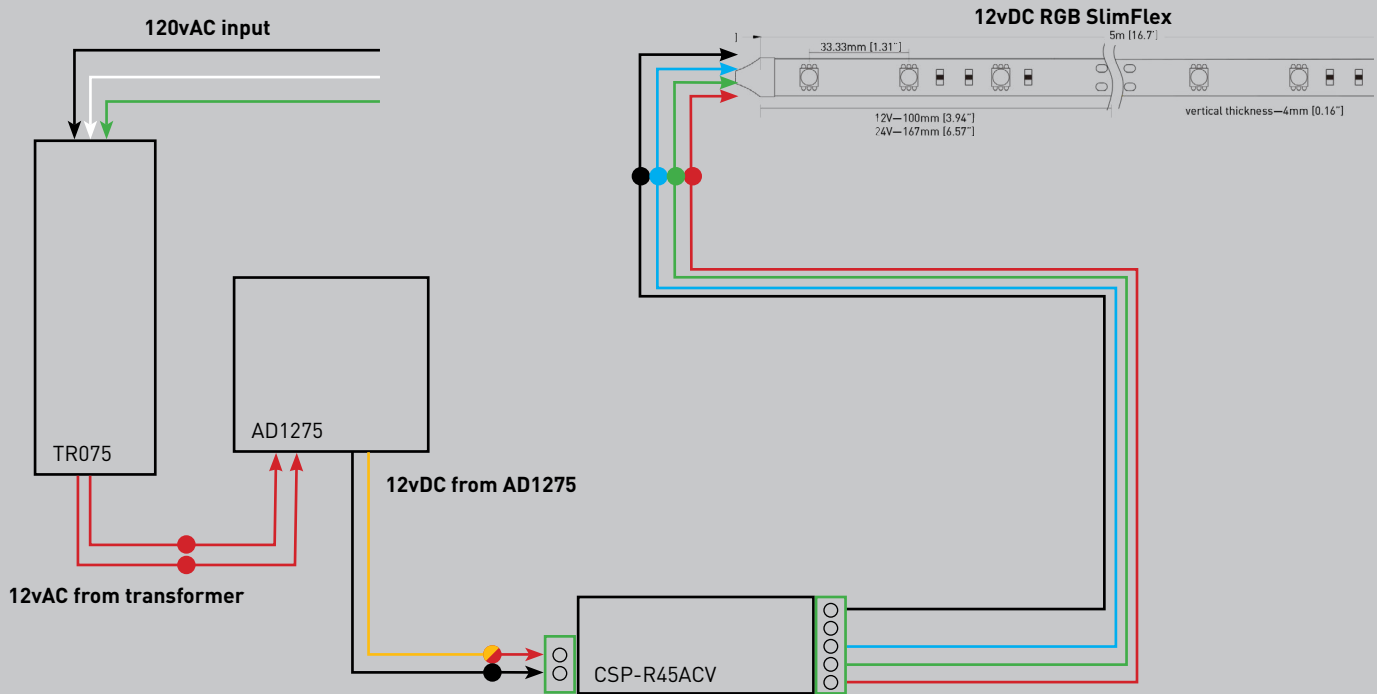
PART NUMBERS USED:

TR075- 75W low voltage 12Vac transformer

AD1275 - 75W AC to DC convertor

CSP-R45ACV - Color Select PLUS WIFI Zone Control RGB controller

SFT50 - 12VDC RGB Color Changing LED SlimFlex tape light



Example 4 - 12VDC

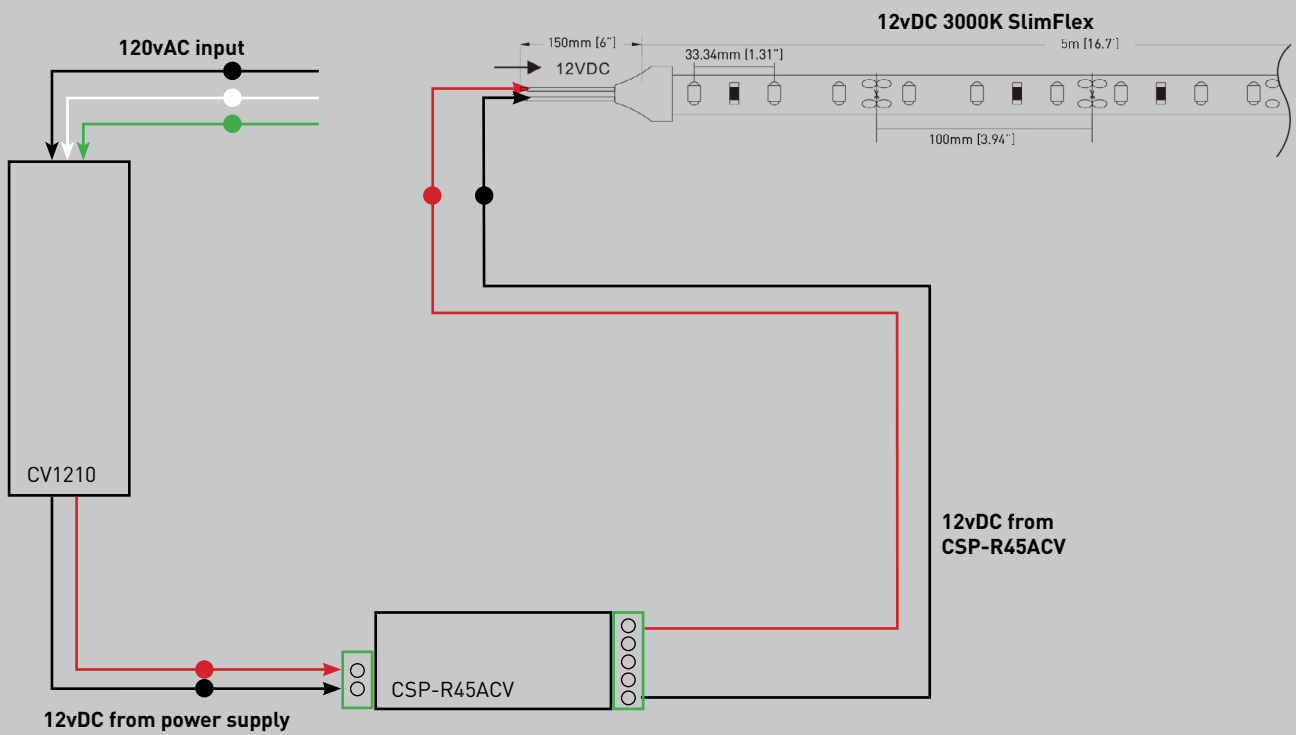
12VDC (ELECTRONIC POWER SUPPLY) > CSP-R45ACV > SINGLE COLOR 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

CV1210 - 100W low voltage 24Vdc power supply

CSP-R45ACV - Color Select PLUS Zone controller

SFT35 - 12VDC Single Color LED SlimFlex tape light



Example 5 – 12VAC as Dimmer Control

12VAC (LOW VOLTAGE TRANSFORMER) > AC-DC CONVERTOR > CSP-R45ACV > SINGLE COLOR 12VDC LIGHTING FIXTURE

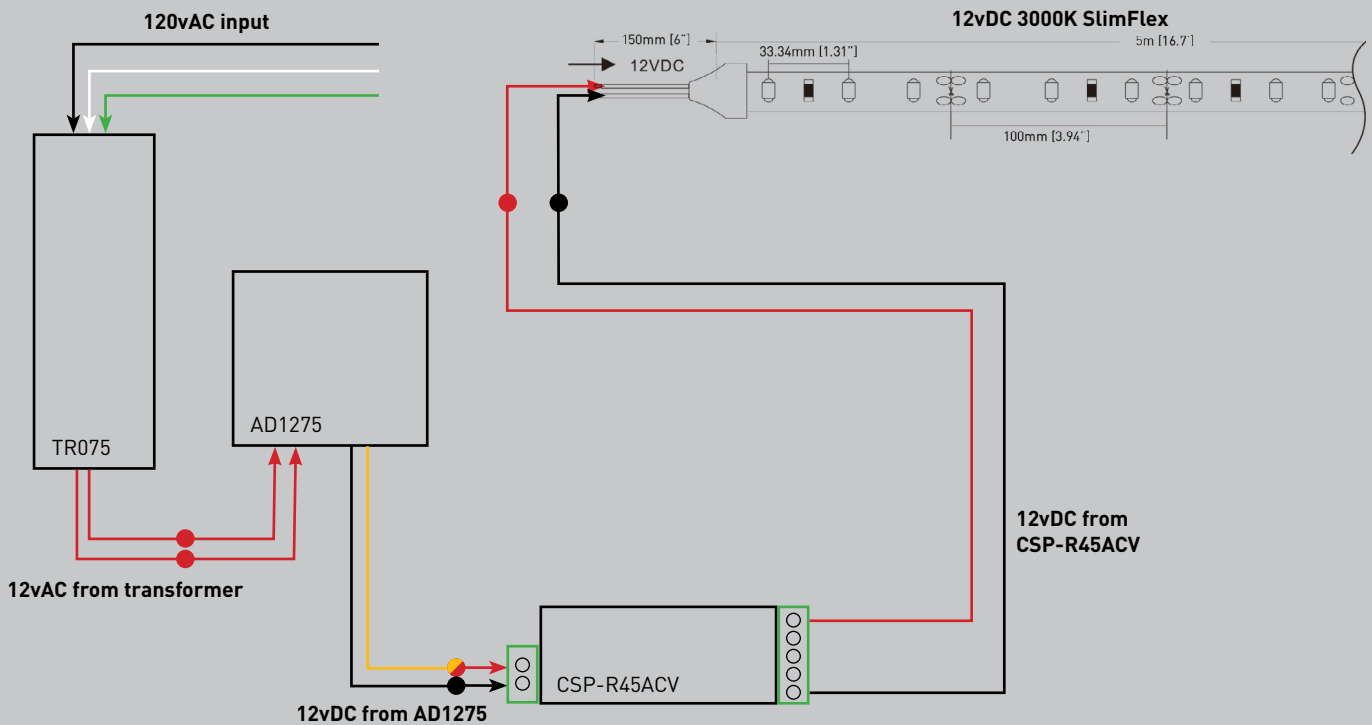
PART NUMBERS USED:

TR075- 75W low voltage 12Vac transformer

AD1275 - 75W AC to DC convertor

CSP-R45ACV - Color Select PLUS Zone controller

SFT35 - **12VDC** Single Color LED SlimFlex tape light



SS-303 DMX Decoders

Example 1 – 24VDC with 3 DMX Decoders

24VDC (ELECTRONIC POWER SUPPLY) > DC4DIN > DMX RGB 24VDC LIGHTING FIXTURE

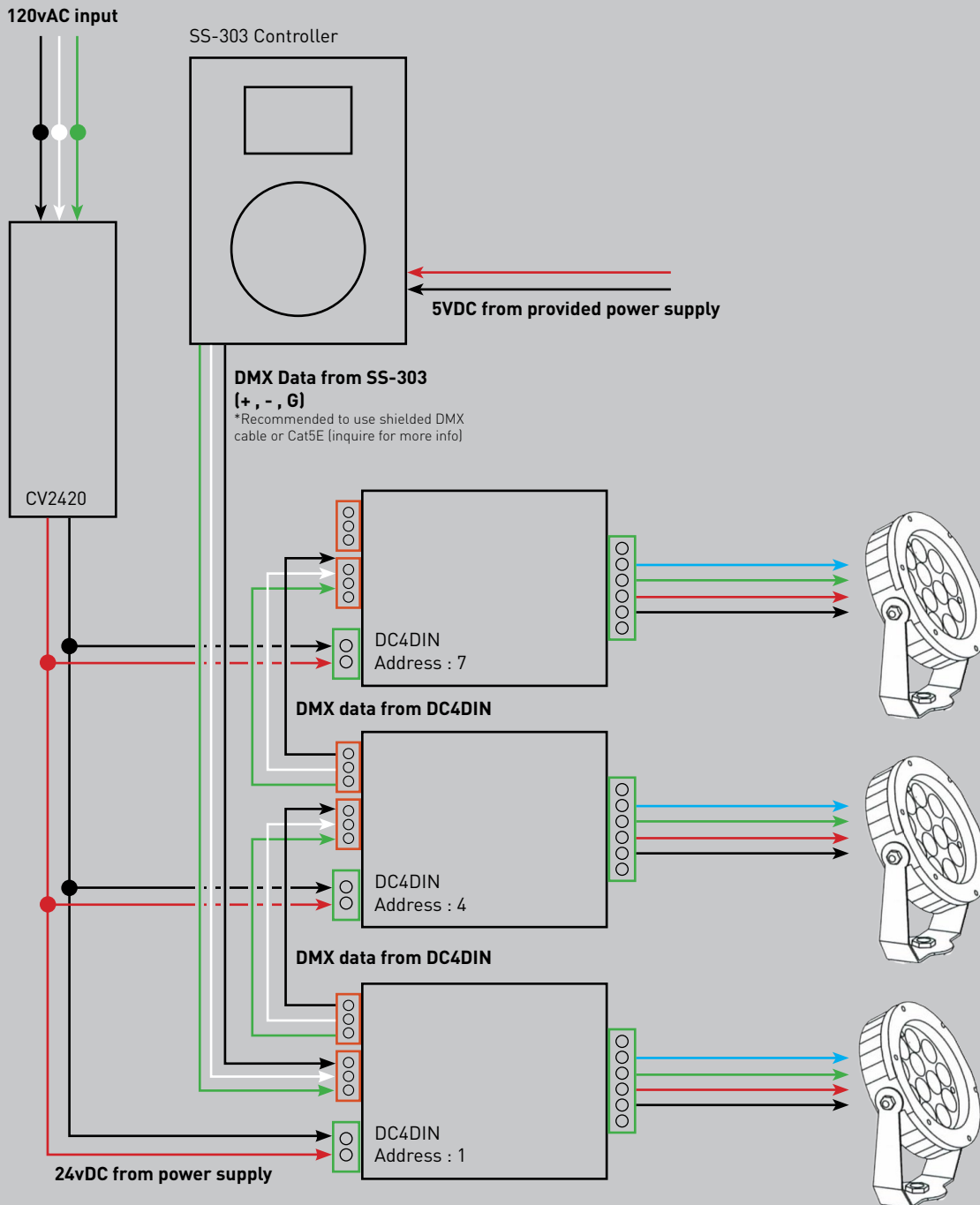
PART NUMBERS USED:

CV2420 - 200W low voltage 24Vdc power supply

SS-303 - DMX Color controller

DC4DIN - DMX Decoder

MR6 - 24VDC DMX RGB LED light (any external DMX light will work)



SAMPLE WIRING DIAGRAMS

MD SERIES MAGNETIC TRANSFORMER

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Example 1 – MD SERIES 12VDC Magnetic Driver

(optional) LOW VOLTAGE DIMMER > 12VDC (LOW VOLTAGE TRANSFORMER) > SINGLE COLOR 12VDC LIGHTING FIXTURE

PART NUMBERS USED:

MD150L12DC-AR - 150W low voltage 12Vdc transformer

MLV DIMMER - Please check dimmer compatability list

SFT35 - 12VDC Single Color LED SlimFlex tape light

