RFX-RGB Series

Indoor Color Changing LED Ribbon Flex

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____

The RFX RGB is a low profile, versatile solution for your color changing LED linear lighting needs as it allows you to reproduce a broad array of colors that can be changed depending on mood or theme utilizing a DMX controller. The RFX RGB is extremely flexible and with its low profile (0.392" wide by 0.086" high) can be installed virtually anywhere.

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Features

- RGB tri-chip SMD 5050 LEDs provide bright illumination in a wide range of colors
- Extremely flexible, bends and twists in almost any direction
- Rated for indoor use
- Slim design allows installation in small confined areas without being visible
- 18 LEDs per foot provide bright illumination
- Available in 12VDC or 24VDC
- Sold in 16' rolls that include a factory installed 6" lead
- Can be controlled via a DMX controller
- Field cut every 4"
- 5 year warranty

Technical Specifications

- 4 wire, RGB tri-chip, indoor LED ribbon flex
- Voltage: 12VDC or 24VDC
- IP rating: IP20
- Dimensions: 0.392" wide, 0.086" high
- Operating distance: Up to a 50' run on a single power supply (Either a single 50' section or 3-16' section connected)
- Viewing angle: 120°

Product Specifications

- LED specs:
  - Rated life: 50,000 hours
  - SMD5050 LEDs
  - Cutting increments: 4"
  - 18 LEDs per foot
  - 2.25W/ft power rating
- Roll length: 16' standard. 50' rolls are also available
- Mounting: 3M double sided adhesive tape (included)
- Operating temperature: 32°F - 86°F (0°C - 30°C)
- Storage temperature: -40°F - 176°F (-40°C - 80°C)

Warranty

Any component that fails due to a manufacturing defect is guaranteed for five years. The warranty does not cover physical damage, abuse or instances of uncontrollable natural forces. See the full specialtyLED warranty document for detailed information. (Terms and conditions apply)

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5 YEAR WARRANTY

Ordering Information (Example: RFX-RGB-16-24V-5050)

Series	Color	Length	Voltage[1]	LED Type
RFX	RGB = Color Changing	16 = 16 Feet	12V[2] = 12 Volt DC	5050 = RGB Tri-Chip SMD LEDs
		50 = 50 Feet	24V = 24 Volt DC	

Notes

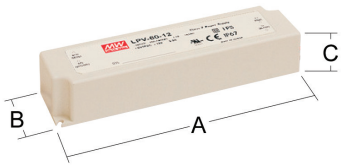
[1] Requires transformer, ordered separately

[2] Longer lead times are required for 12V product

12VDC NON-DIMMING TRANSFORMER ORDERING INFORMATION (ORDER AS SEPARATE LINE ITEM)

Example: XFMR-12-60

Part Number	Description	Dimensions (AxBxC)
XFMR-12-20	12 Volt, 20 Watt, Class 2 Power Supply	4.65” x 1.37” x 1.0”
XFMR-12-35	12 Volt, 35 Watt, Class 2 Power Supply	5.8” x 1.57” x 1.18”
XFMR-12-60	12 Volt, 60 Watt, Class 2 Power Supply	6.39” x 1.67” x 1.25”
XFMR-12-150	12 Volt, 150 Watt, Class 2 Power Supply	8.74” x 2.67” x 1.52”



24VDC NON-DIMMING TRANSFORMER ORDERING INFORMATION (ORDER AS SEPARATE LINE ITEM)

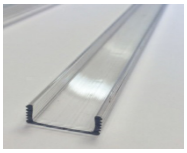
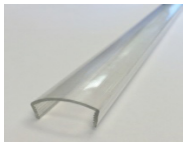
Example: XFMR-24-60

Part Number	Description	Dimensions (AxBxC)
XFMR-24-20	24 Volt, 20 Watt, Class 2 Power Supply	4.65” x 1.37” x 1.0”
XFMR-24-35	24 Volt, 35 Watt, Class 2 Power Supply	5.8” x 1.57” x 1.18”
XFMR-24-60	24 Volt, 60 Watt, Class 2 Power Supply	6.39” x 1.67” x 1.25”
XFMR-24-150	24 Volt, 150 Watt, Class 2 Power Supply	8.74” x 2.67” x 1.52”

Note: All transformers are to be installed per NEC requirements. Wire leads on the 24 volt product are 18 gauge. Transformer is to be mounted within 10 feet of product. If transformer is mounted more than 10 feet from product, voltage drop and maximum operating distances should be taken into account when making transformer selection. Dimming transformer does not include dimming controller.

(SEE ACCESSORIES ON NEXT PAGE)

ACCESSORIES (ORDER AS SEPARATE LINE ITEM)

Part Number	Image	Description
RFX-RGB-CSS		SMD5050 strip to strip connector. Strip to strip connections for a continuous run.
RFX-RGB-CSP		SMD5050 strip to power connector. Strip to power connection.
RFX-RGB-CSS-FLEX		SMD5050 strip to strip connector with 2” wire spacer. For strip to strip connections where corners or bends are needed.
RFX-WET-QC		Indoor DC Connector - 6” long, use with the RFX-4B-3CH-RGB controller for connection.
RFX-BASE and RFX-AL-BASE		Polycarbonate base clear – 48” long, 0.87” wide, 0.62” high. Can be used with the indoor or WET outdoor product.
RFX-CAP and RFX-FROSTED-CAP		Polycarbonate cap clear - 48” long, used in conjunction with the RFX-BASE. Can be used with indoor or WET outdoor product.
RFX-LCH-ENDCAP		Plastic end cap for the RFX-BASE & RFX-CAP accessories.
RFX-DMX-CV-DECODER		Indoor 5050 RGB DMX Decoder with RJ45 input, output 12-24V (needs DMX board, not included). INDOOR USE ONLY
RFX-4B-3CH-RGB		Simple controller for RGB, with 44 key remote, 1 channel. FOR SAMPLES ONLY. Can control up to 150’. INDOOR USE ONLY Will need to order a RFX-WET-QC for driver connection
STICK-KE2		DMX controller, 1024 channels. INDOOR USE ONLY (requires the use of the POWER4M power adapter) Programming FBO
POWER4M		6VDC, 0.65A power adapter for STICK-KE2

TYPICAL ACCESSORIES FOR 24V INSTALLATION (SEE ACCESSORIES ON NEXT PAGE)

- RFX LED Ribbon Flex (RFX-RGB-16-24V-5050)
- Transformer (XFMR-24-60)
- Decoder (RFX-RGB-DMX-CV-DECODER)
- DMX controller (NICOLAUDIE-STICK-KE-1)
- Power adapter for DMX controller (NICOLAUDIE-POWER4M)
- Optional accessory strip to strip connector (RFX-RGB-CSS)