superbrightleds.com

User Manual

Important: Read all instructions prior to installation.

Addressable LED Neon Strip Lights

NFDB-B-PDxK90-20B5M-24V

Specifications

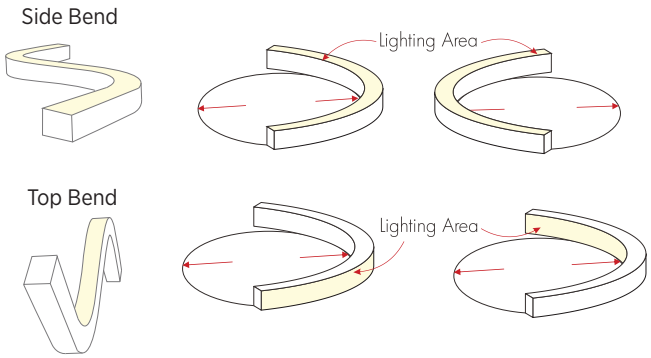
Strip Type	Addressable Dual Bend
SPI Protocol	UCS7604 IC
IP Rating	IP67
Operating Voltage	24 VDC
Length	16.4ft (5m)
Max Run (Class 2)	16.4ft (5m)
Operating Temperature	-20 to 60°C (-4 to 140°F)

Safety and Notes

- Product should be installed in accordance with applicable national, state, and local building and electrical codes.
- Do not attach with anything other than double-sided adhesive or associated accessory hardware.
- Ensure screws are flush when using mounting clips or brackets.
- Do not mount on or near sharp objects which may damage insulation or in tight spaces where it may be pinched such as a door or window.
- Do not cover the light or allow the light to be in contact with material such as cloth which may pose a fire hazard.
- Not for use in locations with strong acids, strong alkalis, fuels, or oils.
- Do not operate light when tightly coiled or where it is continually flexing.
- End cap must be installed on one end to safely terminate run.
- Glue only as backup adhesion with maximum four glue points per meter.
- Do not twist, swing, pull or bend to severe or extreme angles. Do not bend in directions other than those described and do not bend repeatedly. These actions may damage circuit traces and void the warranty.

⚠ Two or more people recommened for install

Minimum Bending Diameter



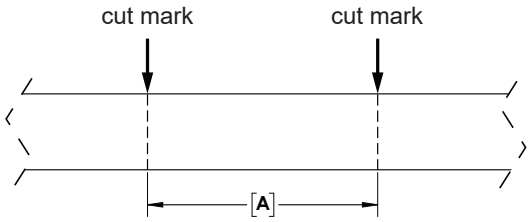
Dual Bend Neon	Top Bend	Side Bend
NFDB-B-PDxK90-20B5M-24V	11.8in. (300mm)	31.4in. (800mm)

Cutting Strip to Length

Neon strips can be cut at the indicated cut marks on the strip.
Do not attempt to cut strips anywhere other than at indicated cut marks.

Note: When cutting, proper caps and sealant must be used to maintain IP water resistance and avoid potential strip damage.

Bottom View of Strip



Dual Bend Neon	A
NFDB-B-PDxK90-20B5M-24V	1.97in. (50mm)

superbrightleds.com

User Manual

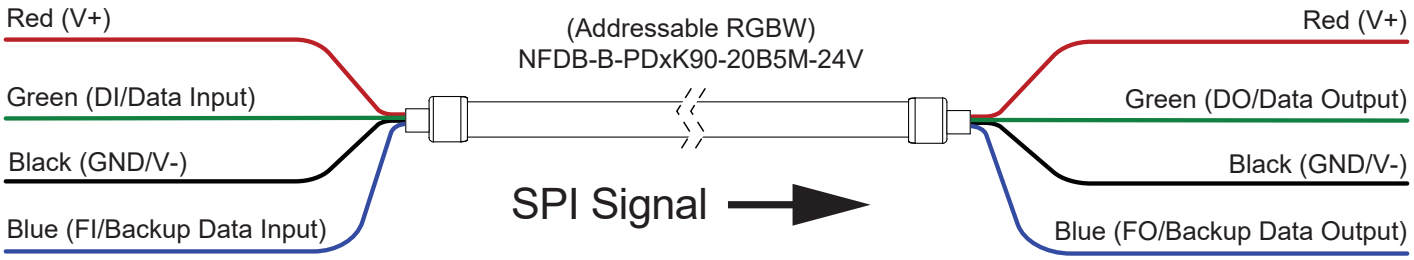
NFDB-B-PDxK90-20B5M-24V

Important: Read all instructions prior to installation.

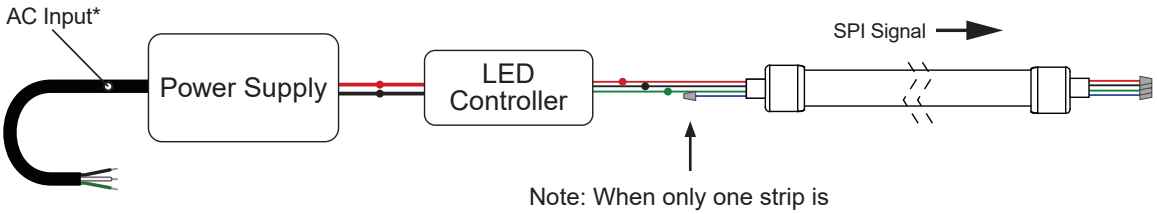
Addressable LED Neon Strip Lights

Wiring Diagrams

Power supply, controller, and other accessories sold separately.

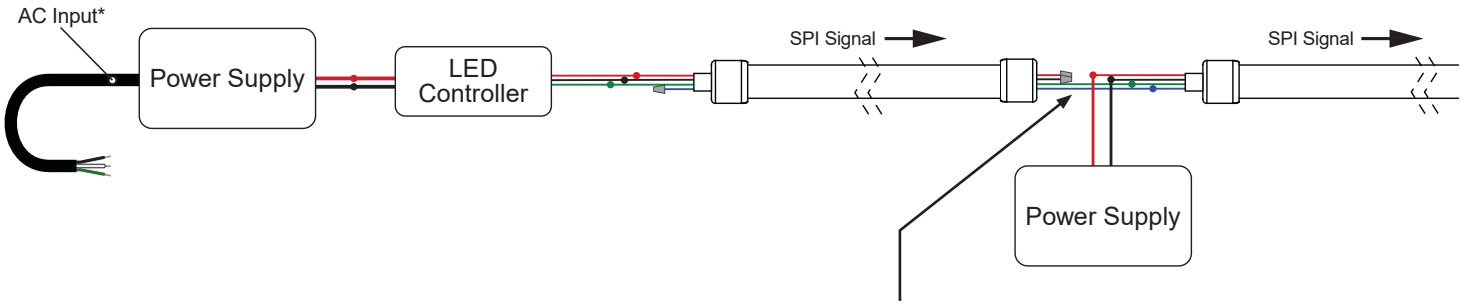


Typical Installation Example



Note: When only one strip is connected to the controller the blue FI wire is not connected.

Extended Power Wire Installation Example



For multiple strips, cap the blue FI wire between first strip and controller. Between strips, connect the data FI of the previous strip to the FO (data out) of the next strip to ensure data continuity and maintain signal transmission in the event of a fault (e.g., failed LED).

**Power supply wire color and configuration may vary.*