

NEON SILHOUETTE PLUS

This bendable, waterproof silicone fixture features all the benefits of modern LEDs while creating the classic look of neon tubes. Available in Static White, Variable White, Warm Dim, RGBW and Pixel RGBW, Neon Silhouette Plus is designed with a larger profile to brave the elements in façade lighting and lettering. It's like neon, but better – and bigger!

- Side-bending flexible silicone creates vivid lines of light
- RGBW, Static White, Variable White, Warm Dim at 4.5 W/ft (14.8 W/m)
- Pixel RGBW at 5.3 W/ft (17.4 W/m)
- Waterproof and UV resistant
- Saltwater resistant
- Sleek flat design helps create elegant lighting solutions

IMPORTANT

The maximum operating temperature for this product is **140 °F (60 °C)**. In high-heat environments (like building façades) where the temperature of the mounting surface could reach or exceed this threshold, we strongly recommend using the standoff mounting accessories listed on this spec sheet.



RoHS



IP67



ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction
NLSP			
NLSP - Neon Silhouette Plus	4.522 - 4.5 W/ft (14.8 W/m) 2200K	4.5RGB27 - 4.5 W/ft (14.8 W/m) RGB+White (2700K)	E - End Feed
	4.524 - 4.5 W/ft (14.8 W/m) 2400K	4.5RGB30 - 4.5 W/ft (14.8 W/m) RGB+W (3000K)	B - Bottom Feed
	4.527 - 4.5 W/ft (14.8 W/m) 2700K	4.5RGB40 - 4.5 W/ft (14.8 W/m) RGB+W (4000K)	LS - Left Side Feed*
	4.530 - 4.5 W/ft (14.8 W/m) 3000K	4.5VW - 4.5 W/ft (14.8 W/m) Variable White (2400K-6000K)	RS - Right Side Feed
	4.535 - 4.5 W/ft (14.8 W/m) 3500K	4.5WD - 4.5 W/ft (14.8 W/m) Warm Dim (1800K-3000K)	
	4.540 - 4.5 W/ft (14.8 W/m) 4000K	5.3RGB30ADD - 5.3 W/ft (17.4 W/m) Pixel RGBW (3000K)	

* Recommended

Mounting Options

Aluminum Mounting Clip

Recommended for curved applications with 6 in. (150 mm) on center spacing
Part #: NLSPMOUNTCLIPV2

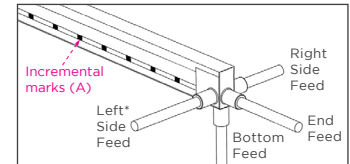
Mounting Channel

Recommended for all straight run applications
Sold by the foot, up to 6 ft 6 in. / 2 m
Part #: NLSPCHV2

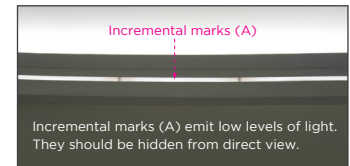
Standoff

Recommended for all exterior applications
Part #: LB-FRN-STDOFF

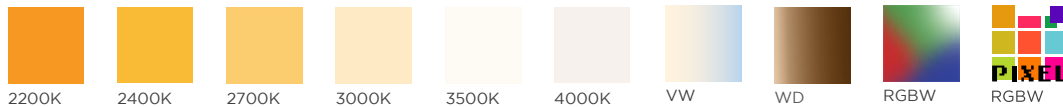
POWER FEED OPTIONS



INCREMENTAL MARKS



AVAILABLE COLORS AND COLOR TEMPERATURES



USAGE GUIDELINES

- Neon Silhouette Plus cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 140 °F (60 °C) maximum for which this product is rated. High-risk locations like this should be avoided.
- This product can be used in wet, outdoor locations around swimming pools and spa tubs, but is not intended to be submerged in pools and fountains and does not carry UL 676 certification for submersion.
- Compatible with a wide variety of controls.
- For use with Acolyte drivers, Triac dimming modules, 0-10 V modules and DMX interfaces when applicable.
- Use with non-Acolyte Triac, MLV or ELV drivers is not supported or warrantied.
- Due to the cuttable points inside, this product's cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, this product is factory cut at the shorter cuttable point.

Acolyte does not warrant or represent that this information is free from errors or omission. We reserve the right to make changes to our product lineup, specifications, design and finishes at any time without notice. Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

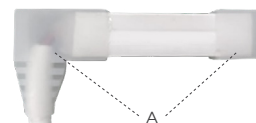
POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

SPECIFICATIONS	NEON SILHOUETTE PLUS
Operating Voltage	24 VDC
Power Consumption	Static White, Variable White, Warm Dim, RGBW: 4.5 W/ft (14.8 W/m) Pixel RGBW: 5.3 W/ft (17.4 W/m)
Protection Rating	IP67
Beam Angle	110°
Dimming	ELV / MLV / 0-10 Volt / DMX
Operating Temperature	-4 — 140 °F (-20 — 60 °C)
Color Temperatures / Colors	2200K, 2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), Warm Dim (1800K-3000K) RGBW (2700K, 3000K, 4000K), Pixel RGBW (3000K)
Lifetime (L70 reported)	50,000 hours
Max Length	Static White: 39 ft 4.4 in. (12 m) / Variable White, Warm Dim, RGBW, Pixel RGBW: 16 ft 4.85 in. (5 m)
Incremental Length	Static White, Variable White, Warm Dim: 1.97 in. (50 mm) / RGBW: 3.28 in. (83.33 mm) / Pixel RGBW: 3.93 in. (100 mm) NOT FIELD CUTTABLE
Power Cable Length	Standard: 12 in. (304.8 mm) / Custom: up to 20 ft (6 m)
UV Resistant	UV tested in accordance with ISO 4892-3 with no visible change on the appearance of the sample
Minimum Bend Radius	4.72 in. (120 mm)
CRI (white)	90+ for all Color Temperatures
Lumens	Static White 2200K: 260.3 lm/ft (854 lm/m), 56 lm/W / 2400K: 284.7 lm/ft (934 lm/m), 61 lm/W 2700K: 298.1 lm/ft (978 lm/m), 64 lm/W / 3000K: 300.5 lm/ft (986 lm/m), 64 lm/W 3500K: 312.1 lm/ft (1024 lm/m), 67 lm/W / 4000K: 309.1 lm/ft (1014 lm/m), 66 lm/W
	Variable White All LEDs at 100%: 264.2 lm/ft (866.9 lm/m), 61 lm/W
	Warm Dim All LEDs at 100%: 201.2 lm/ft (660.1 lm/m), 46 lm/W
	RGBW Red: 10.37 lm/ft (34 lm/m), 9.85 lm/W / Green: 31.71 lm/ft (104 lm/m), 32.61 lm/W / Blue: 7.32 lm/ft (24 lm/m), 7.93 lm/W White: 56.71 lm/ft (186 lm/m), 30.54 lm/W / All LEDs at 100%: 103.05 lm/ft (338 lm/m), 22.02 lm/W
	Pixel RGBW Red: 10 lm/ft (32.8 lm/m), 7 lm/W / Green: 25 lm/ft (82 lm/m), 21 lm/W / Blue: 6 lm/ft (19.7 lm/m), 6 lm/W White: 28 lm/ft (91.8 lm/m), 39 lm/W / All LEDs at 100%: 69 lm/ft (226.3 lm/m), 13 lm/W

MOLDED END CAPS

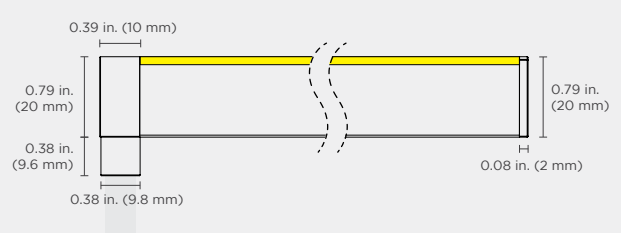
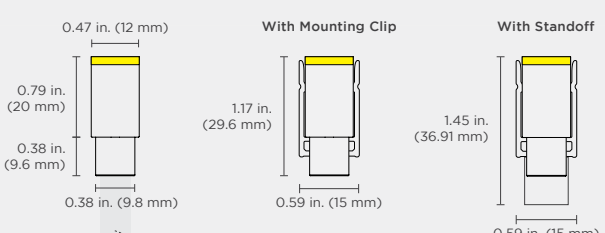


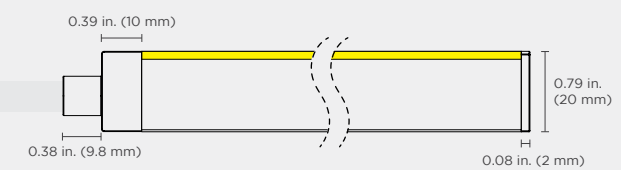
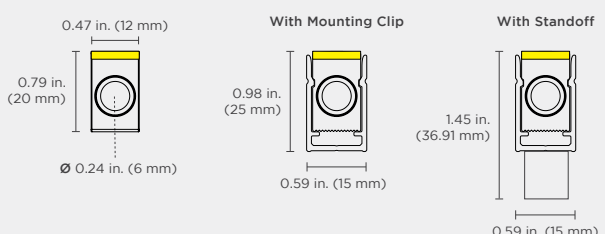
Note: Fixtures less than 8 in. (203 mm) long will come with silicone end caps (A).

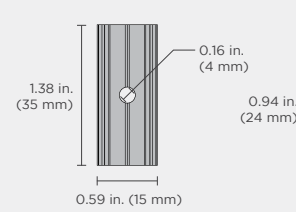
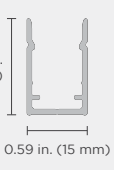
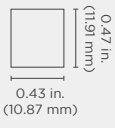


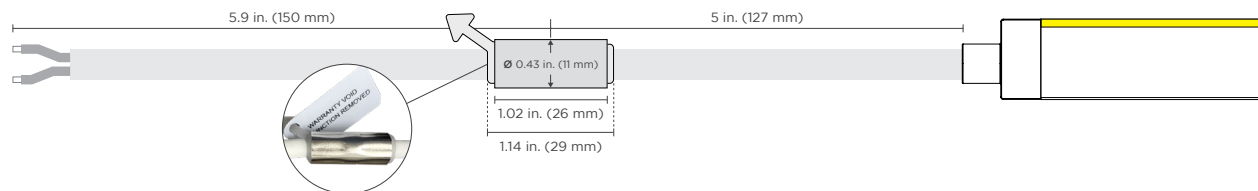
2-pin Male Connector 		2-pin Female Connector 	
3-pin Male Connector 		3-pin Female Connector 	
5-pin Male Connector 		5-pin Female Connector 	

DIMENSIONS / DIAGRAMS

WITH BOTTOM FEED MOLDED END CAP	
Side View	End View
 Max Lengths: Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)	 Width: 0.47 in. (12 mm) Height: 1.17 in. (29.6 mm) Cable Diameter: 0.24 in. (6 mm)

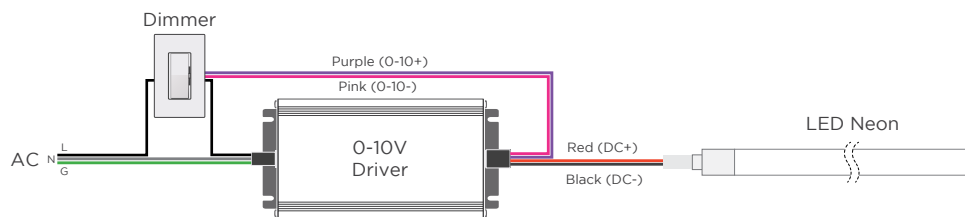
WITH END FEED MOLDED END CAP	
Side View	End View
 Max Lengths: Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)	 Width: 0.47 in. (12 mm) Height: 0.79 in. (20 mm) Cable Diameter: 0.24 in. (6 mm)

MOUNTING CLIP		STANDOFF (Part #: LB-FRN-STDOFF)	
Recommended for curved applications with 6 in. (150 mm) on center spacing.		Recommended for all exterior applications.	
Top View	Side View	Side View	Top View
 Width: 0.59 in. (15 mm) Depth: 1.38 in. (35 mm) Height: 0.94 in. (24 mm)			 Width: 0.43 in. (10.87 mm) Height: 0.47 in. (11.91 mm) Screw Hole Diameter: 0.22 in. (5.5 mm)
MOUNTING CHANNEL (Part #: NLSPCHV2)			
Recommended for all straight run applications. Sold by the foot, up to 6 ft 6 in. / 2 m (same width & height as mounting clip)			

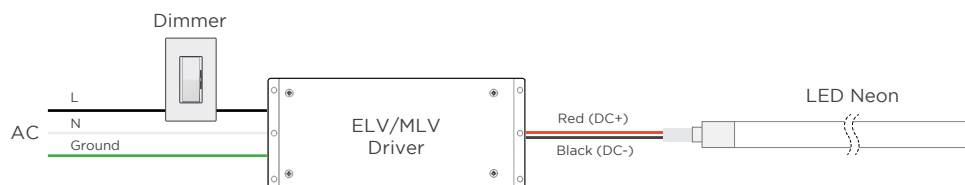
HYDRO SEAL	
The Hydro Seal clinches tightly around the conductors to prevent any water flow from the end of the wire to the circuit board through capillary effect.	
	

WIRING DIAGRAMS - STATIC WHITE / RGBW

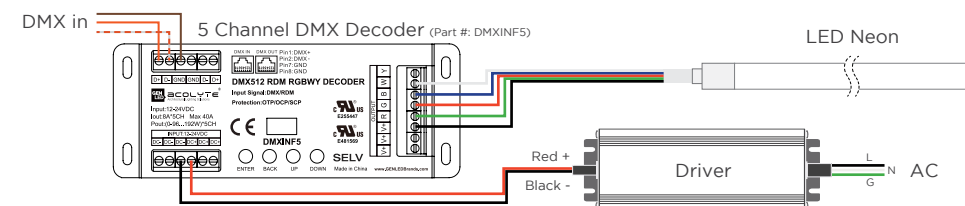
0-10V



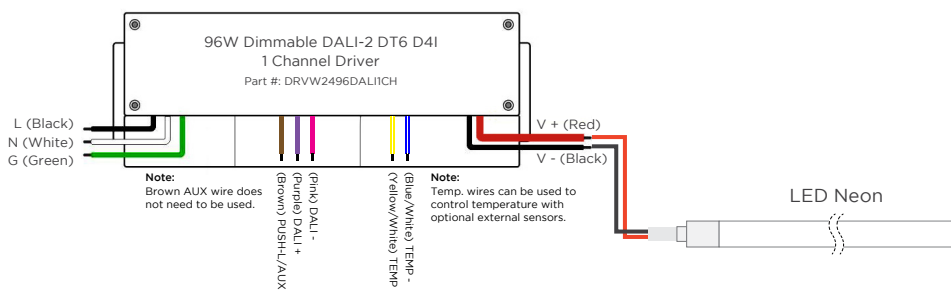
MLV / ELV



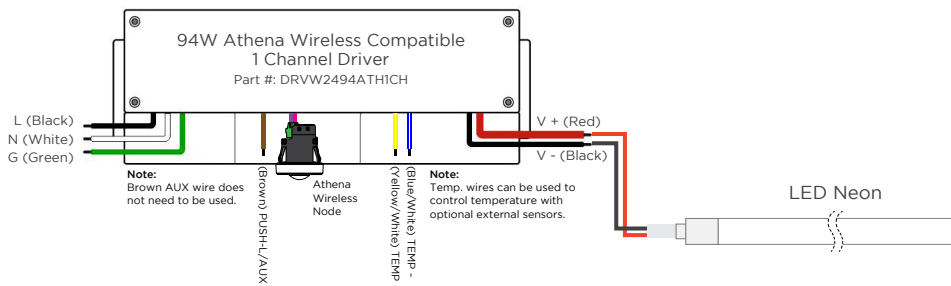
DMX



DALI-2 WIRING WITH STATIC WHITE NEON



STATIC WHITE NEON WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS

STATIC WHITE

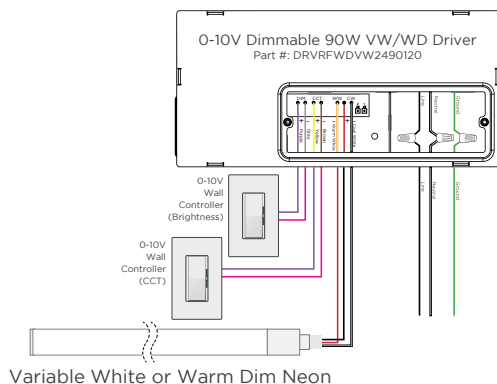
Red Wire (+) Positive
Black Wire (-) Negative

RGBW

Black Wire (+) Positive
Red Wire (-) goes to Red Channel
Green Wire (-) goes to Green Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

WIRING DIAGRAMS - VARIABLE WHITE / WARM DIM

2-CHANNEL VARIABLE WHITE & WARM DIM DIMMING



WIRE COLORS

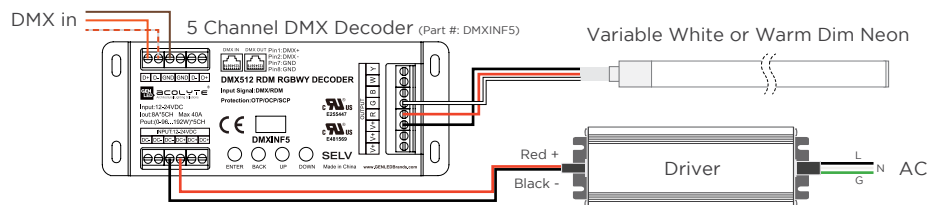
VARIABLE WHITE

Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
White Wire (-) goes to Cool White Channel

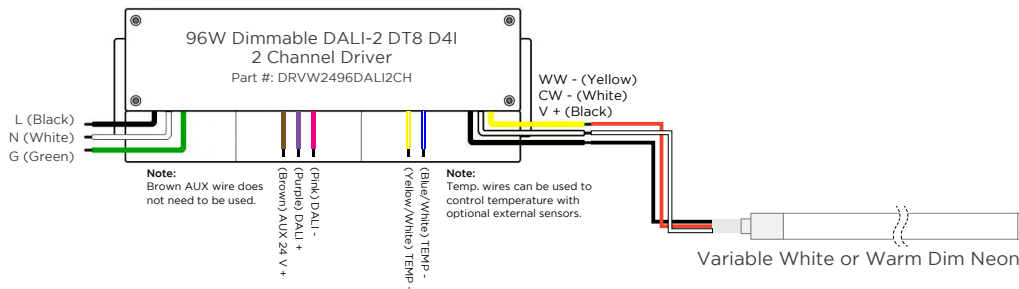
WARM DIM

Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
White Wire (-) goes to Cool White Channel

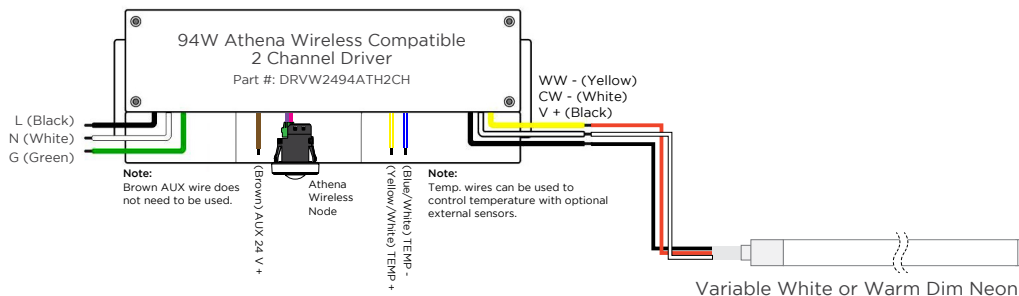
DMX WIRING DIAGRAM - COMPATIBLE WITH VARIABLE WHITE & WARM DIM NEON



DALI-2 WIRING WITH VARIABLE WHITE & WARM DIM NEON



ATHENA WIRELESS COMPATIBLE DRIVER WIRING WITH VARIABLE WHITE & WARM DIM NEON

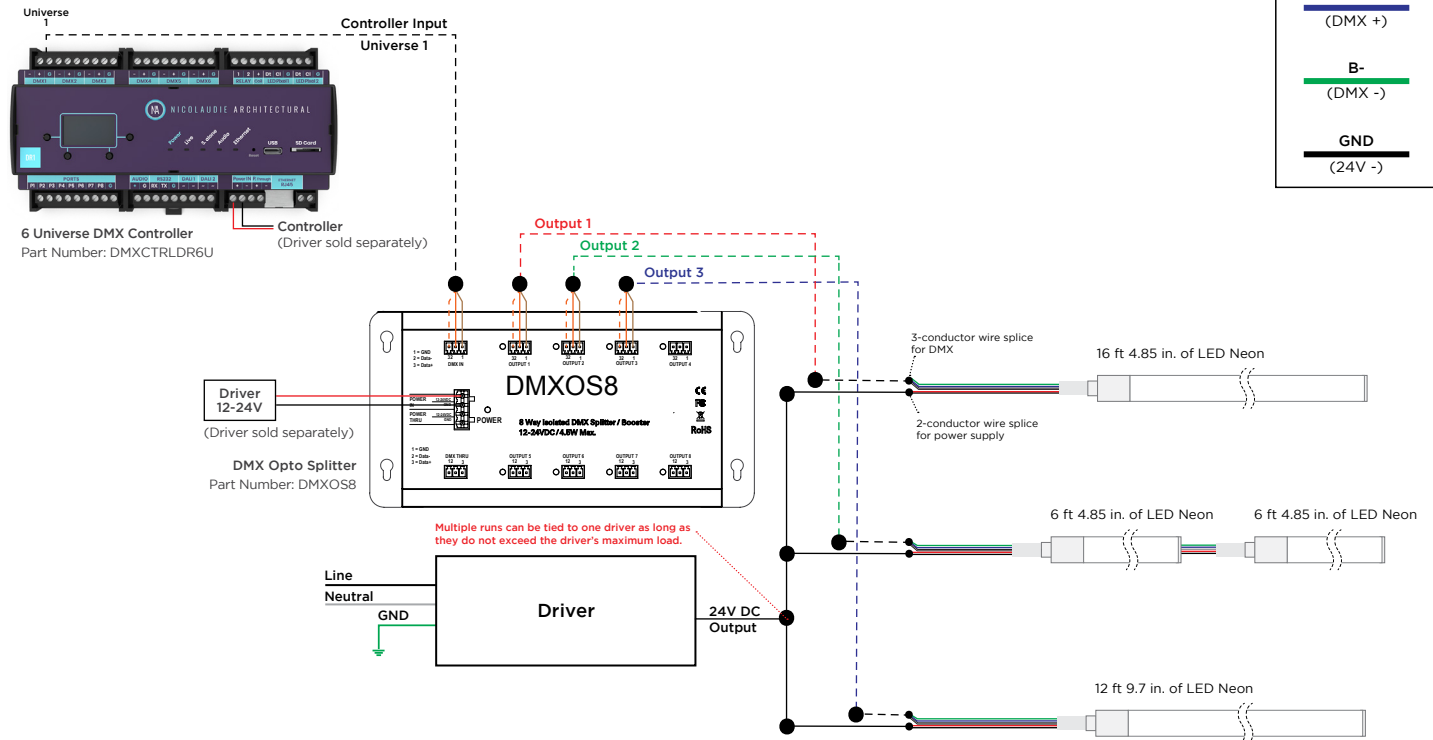


WIRING DIAGRAMS WITH RGBW ADDRESSABLE NEON SILHOUETTE PLUS

One DMX Universe consists of 128 addresses and 512 channels (42 ft 8 in. of Neon Silhouette Plus).

Any single run of Neon Silhouette Plus that is less than 16 ft 4.85 in. (5 m) can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.



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