BRUCK.

ORION BELT 96W DRIVER

PART NUMBERS

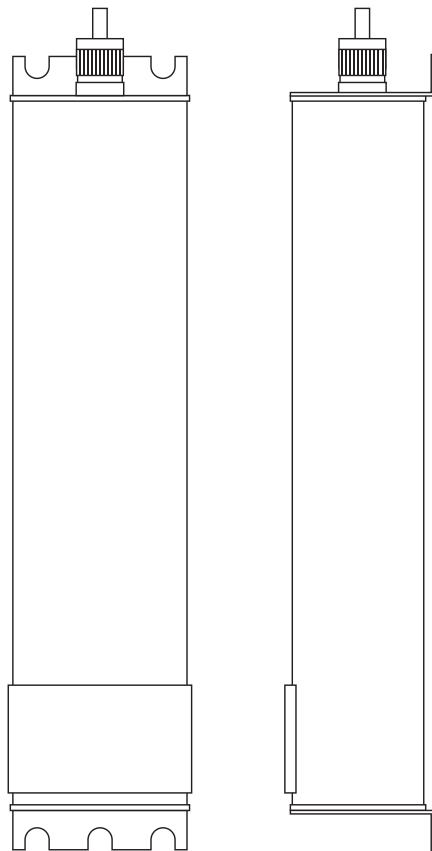70438   96W driver - LP1090-24-GG-299

DRIVER MANUFACTURER

HIGH PERFECTION TECH.

TECHNICAL SPECS

100-277V AC, 50/60Hz input
24V DC output
96VA, 95W for 76ft max (White, Warm White, Blue, and Green)
96VA, 95W for 128ft max (Red and Amber)
Operating temperature: -22°F to 140°F

Class II rated
Suitable for damp location (contact manufacturer for wet location use)
Short circuit protection, Overload protection, Over-voltage protection
Thermal protection
1/2" NPT electrical connect

ORION BELT DIM 96W DRIVER

PART NUMBERS

70438   96W dimmable driver - LP1090-24-GG-299-DIM

DRIVER MANUFACTURER

HIGH PERFECTION TECH.

TECHNICAL SPECS

100-240V AC, 50/60Hz input
24V DC variable output
96VA, 95W for 76ft max (White, Warm White, Blue, and Green)
96VA, 95W for 128ft max (Red and Amber)
Mark VII 0-10v dimming control
Operating temperature: -22°F to 140°F

Class II rated
Suitable for damp location (contact manufacturer for wet location use)
Short circuit protection, Overload protection, Over-voltage protection
Thermal protection
1/2" NPT electrical connect
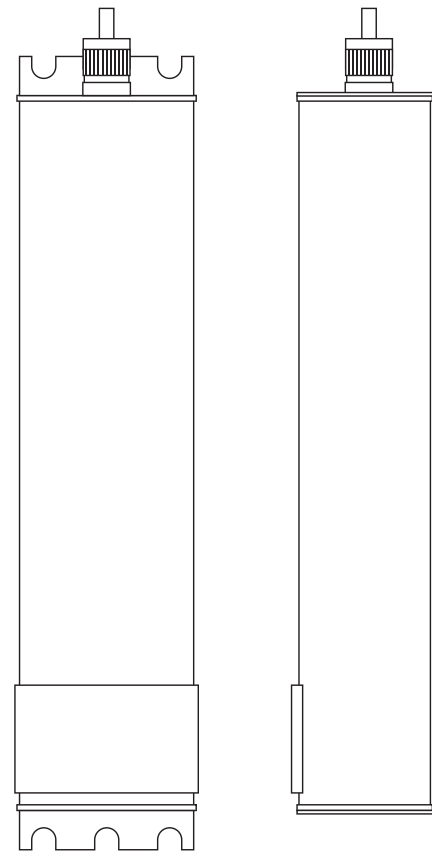
ORION BELT

TECHNICAL SPECIFICATIONS

Input Voltage: 24VDC, 50/60Hz 135910
Watts per foot: 24V AC/DC Converter, 135911 (required when dimming)
Maximum Length: 1.25Watts/ft. (blue, green and white): 0.75 Watts/ft. (red and amber)
Minimum Cut Interval: 75ft. (blue, green and white): 125ft. (red and amber)
Operating Temperature: 4.5" (blue, green and white): 9" (red and amber) between -4°F to 140°F

⚠ **IMPORTANT SAFETY INSTRUCTIONS** ⚠

1. Save these instructions and refer to them when additions to or changes to the fixture are made.
2. THIS PRODUCT MUST BE INSTALLED BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED, IN ACCORDANCE WITH THE APPLICABLE NEC CODE.
3. When using outdoors, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.
4. For all the wire connections, use UL listed Wire Nuts.
5. Only 24V DC inputs can be used.
6. Total wattage of the system must never exceed the wattage supplied by the low voltage DC transformer.
7. Secondary connections must be clean and tight to avoid arcing and overheating!
8. Turn off power prior to any work on the systems.
9. Warranty is void in case of unauthorized modifications and/ or improper use.

READ ALL OF THESE INSTRUCTIONS BEFORE INSTALLATION

~ 3/4"

~ 9/16"

~ 5/8"
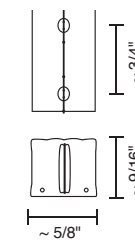
PART NUMBERS

135 401	LED, white
135 401-1	LED, warm white
135 402	LED, blue
135 403	LED, green
135 404	LED, red
135 405	LED, amber

INSTALLATION NOTES

1. Track must be cut only at designated cut marks (figure e).
2. Before using connectors, bend the track to the left and right and cut off excess copper wires.
3. Copper wires must line up when connecting track sections or connectors.
4. DO NOT submerge Orion Belt in water or other liquids.
5. DO NOT secure the track or power cord with staples or by an means other than the mounting components designed for Orion Belt.
6. DO NOT subject the track to continuous flexing.
7. Driver should be at 24V, running the Orion Belt at a voltage lower than 24V may result in poor color performance. On a long Orion Belt run remove the end cap and measure the voltage at the end to determine the voltage.

INSTALLATION INSTRUCTIONS

MOUNTING WITH U-CHANNEL (FIGURE A)

1. Secure the U-channel (C) with screws. Push the Orion Belt (B) into the U-channel. The track will fit snugly
2. into the channel. Cover the track with the prismatic lens (D).

CONNECTING TRACK SEGMENTS (FIGURE B)

1. Align the track so that the wires will contact on the same side. Insert the connection pins into each track segment until the track
2. forms a continuous run.
3. Center the heat shrink material over the point of connection and heat the wrap until it holds firmly onto the track.

TESTING DRIVER VOLTAGE

Before attaching Orion Belt Power Feed to the track, test voltage at Power Feed. Voltage at Power Feed should be 24 Volts.

ATTACHING POWER FEED TO ORION BELT (FIGURE C)

1. Align power feed cable (A) to the connection pin (B), connect both parts together. Connect the Orion Belt (C) to the other end of the connection pin.
2. Place attached pieces into the center of the power feed cover (D) Squeeze silicon gel, which is provided, into power feed cover. Close with the other half of the power feed cover. (Note. Silicone gel required when Orion Belt is used outdoors.)
3. Screw power feed covers together, with supplied screws (E). Wipe off excess silicon gel from the power feed cover.
4. Place silicon gel into end cap (F) before attaching to Orion belt, wipe off excess silicon gel from end cap.

POWERING THE TRACK (FIGURE D)

1. The Orion Belt comes with a power feed (E). To provide power to the system, connect the power feed cord (F) to the power feed cables coming from a low-voltage transformer in accordance with local electrical regulations (input voltage 24vDC).

USING WITH THE FOLLOWING ORION BELT DRIVERS ONLY

70447	96W DIM Driver -	LP1090-24-GG-299-DIM
70438	96W Driver -	LP1090-24-GG-299
70437	40W Driver -	LP1040-24

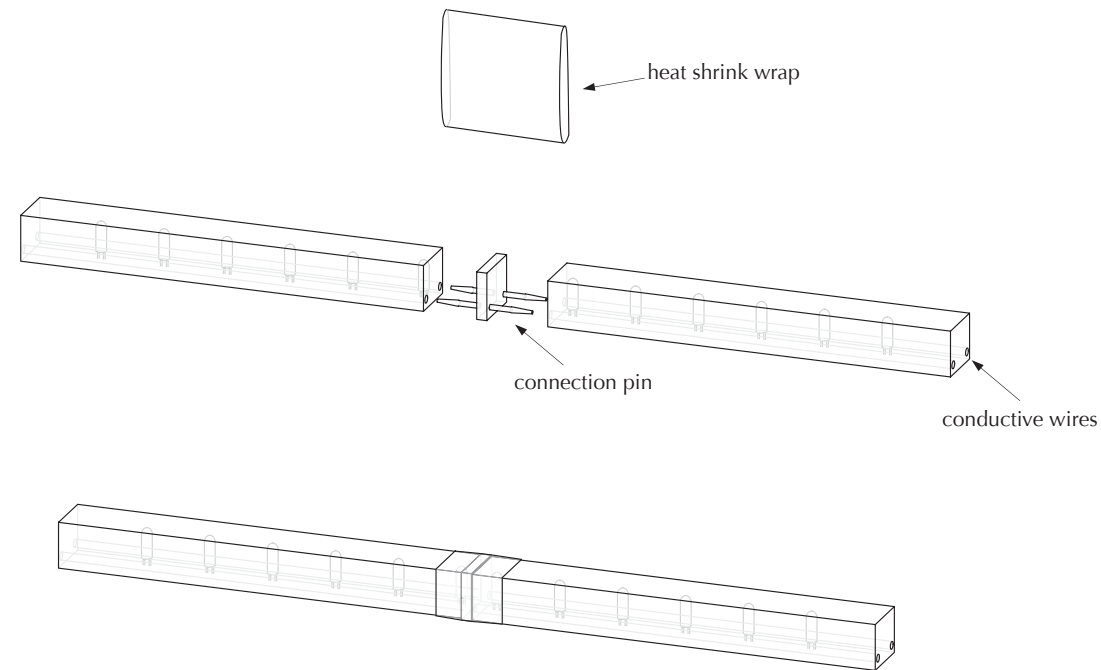## FIGURE A CHANNEL MOUNTING OPTION
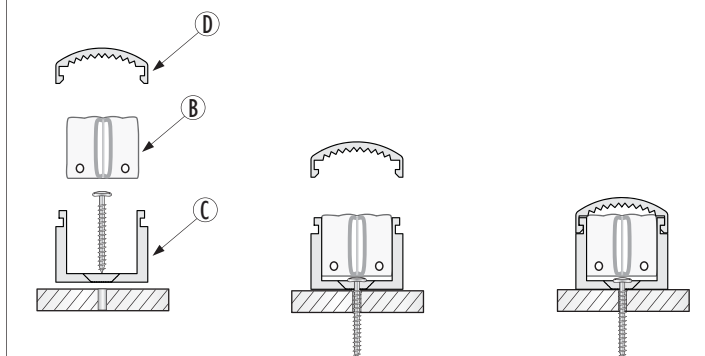
FIGURE B CONNECTING TRACK SEGMENTS

heat shrink wrap

connection pin

conductive wires

FIGURE C ATTACHING POWER FEED TO ORION BELT
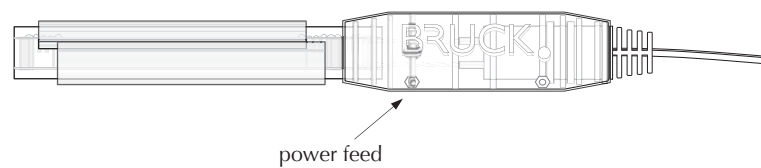
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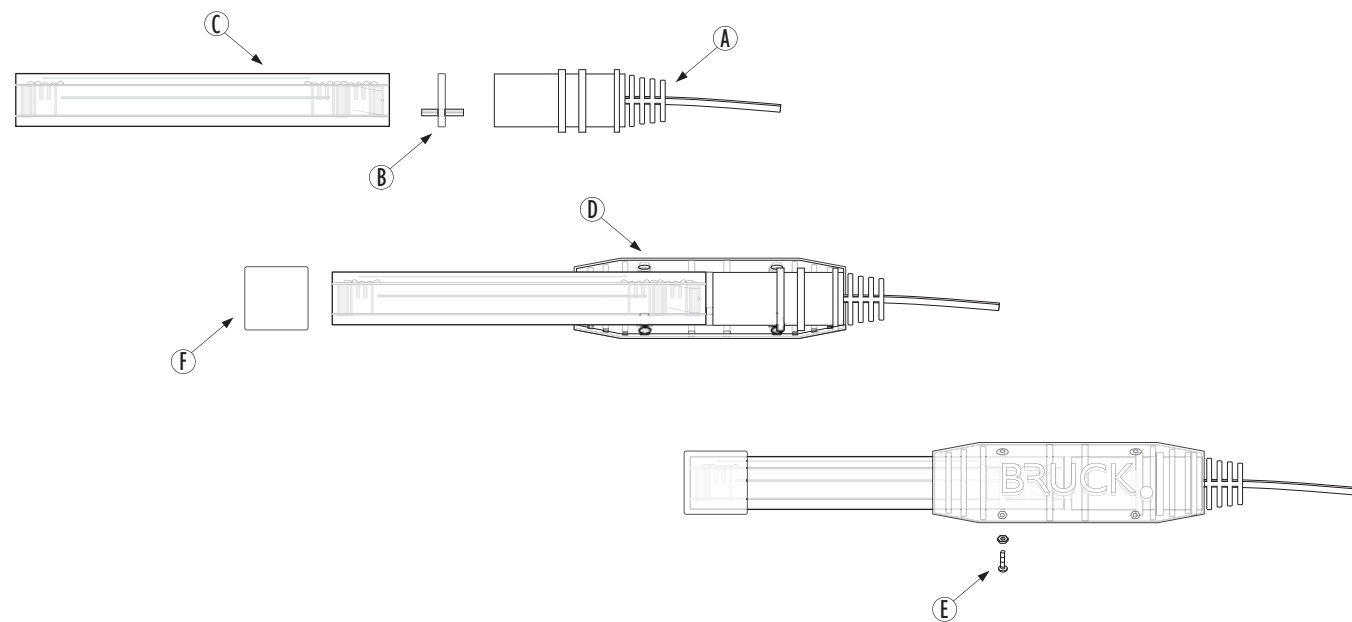
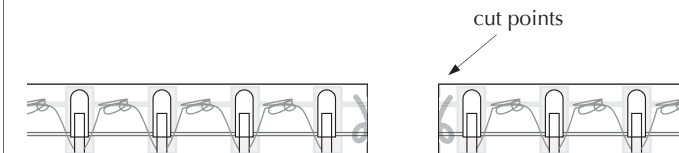## FIGURE D POWERING THE TRACK

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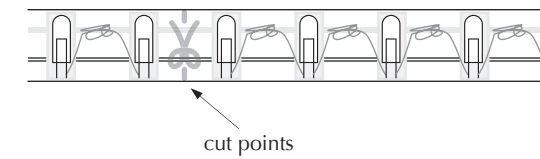
power feed

INSTALLATION INSTRUCTIONS

FIGURE E

Note: If necessary, cut only at specified circuit breaks (designated by markings on belt). Always seal exposed wires with silicon.

blue, white and green Belt (cut after every 6th LED)

cut points

red and amber Belt (cut after every 12th LED)

cut points

ORION BELT 40W DRIVER

PART NUMBERS

70437   40W DRIVER - LP1040 -24

DRIVER MANUFACTURER

HIGH PERFECTION TECH.

TECHNICAL SPECS

100-240V AC, 50/60Hz input
24V DC output
40VA, 40W for 32ft max (White, Warm White, Blue, and Green)
40VA, 40W for 54ft max (Red and Amber)
Operating temperature: -22°F to 140°F

Class II rated
Suitable for damp location
Short circuit protection
Overload protection
Over - voltage protection
Thermal protection