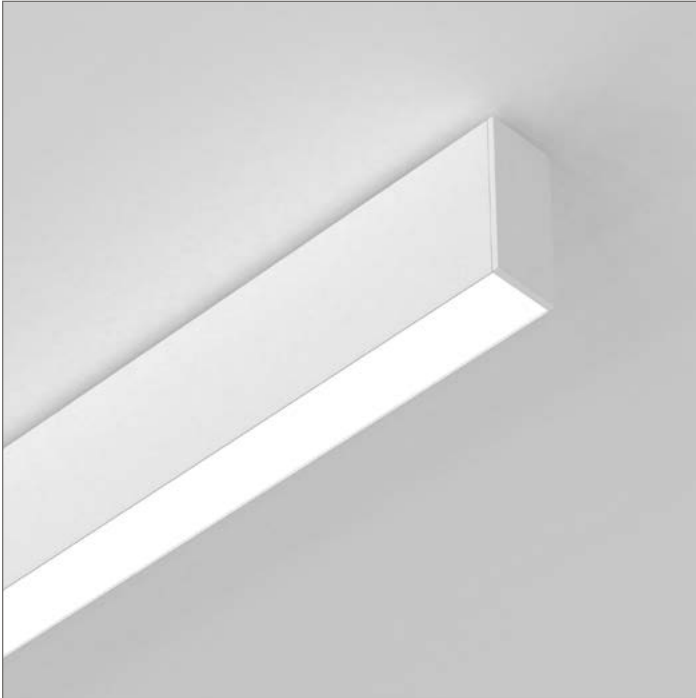


MICROBeam Surface

High Performance, Sub 1.5" Form Factor



Integral Driver

MICROBeam Surface

MICROBeam Series

Warnings

- Risk of fire and electrical shock
- Turn off power at breaker
- Installation requires knowledge of electrical systems and should be installed by a qualified electrician. If not qualified, **DO NOT ATTEMPT INSTALLATION.**

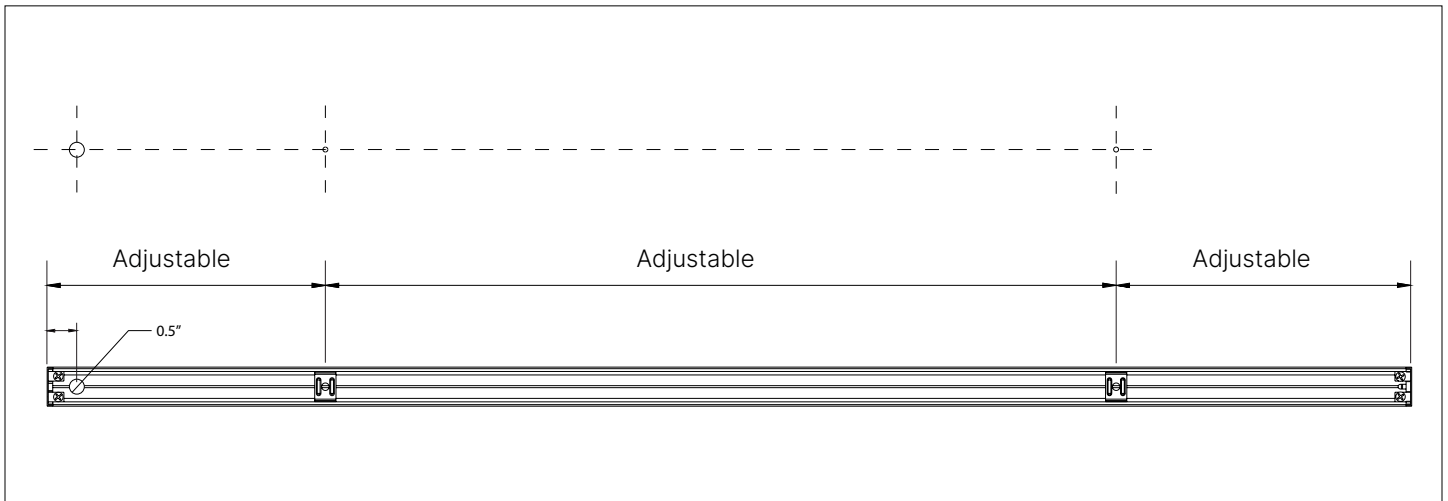
Care Instructions

- Wipe with a soft cloth only
- Always avoid using harsh chemicals and/or cleaners

Proceed to Page 4 for MICROBeam Surface Mount TBar Instructions

STEP 1 — Mounting Clip Placement MICROBeam Surface Mount

Mounting Clips are adjustable. Locate a secured stud when possible for each bracket and mark the locations.



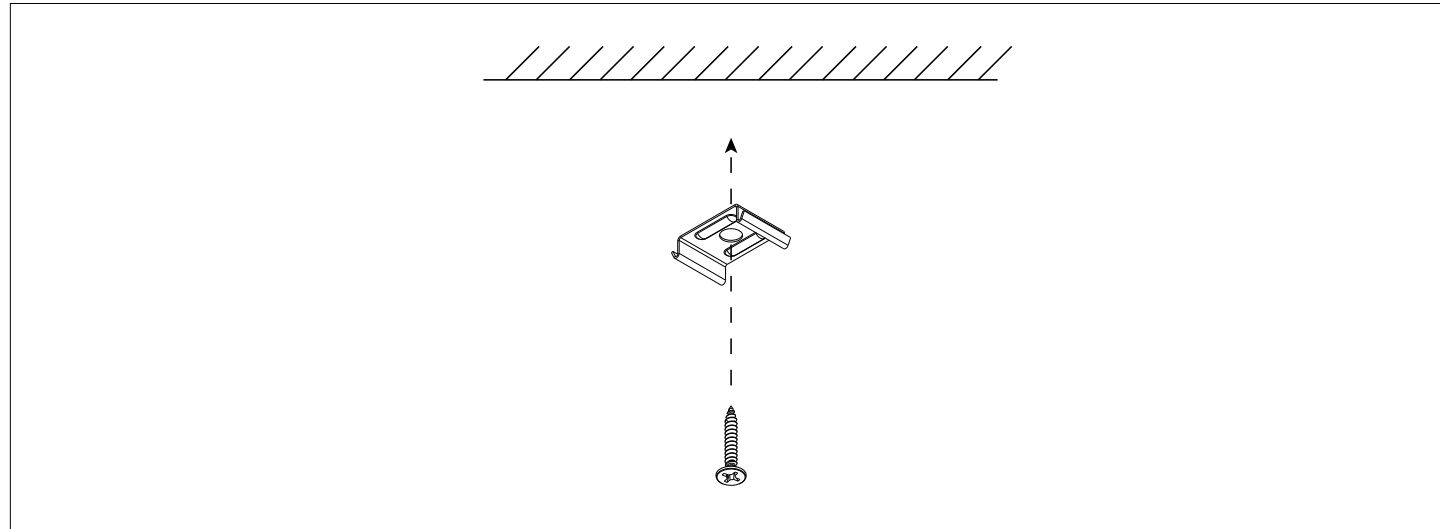
Designed & Built in
BOSTON

Declare



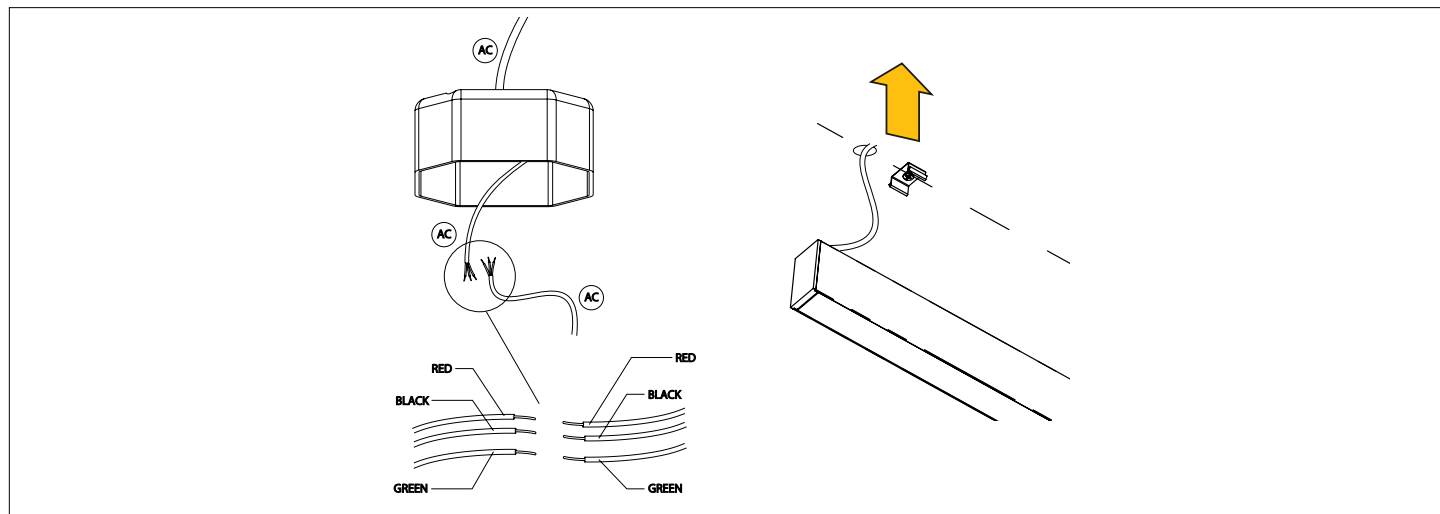
STEP 2 — Secure Mounting Clips MICROBeam Surface Mount

Secure the Mounting Clips to the mounting surface with the appropriate hardware.



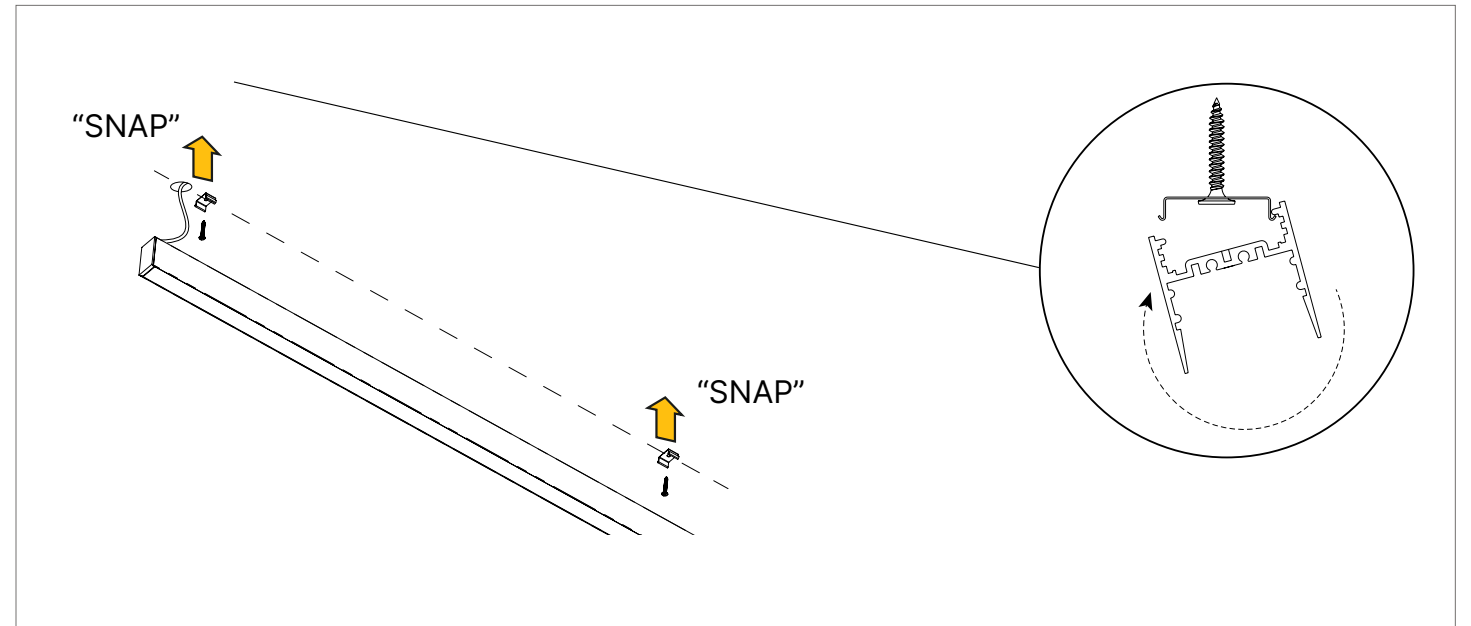
STEP 3 — Install Remote Driver Box MICROBeam Surface Mount

Raise the MICROBeam fixture to the mounting surface and connect wires to approved power source/JBox. Refer to the wiring diagram.



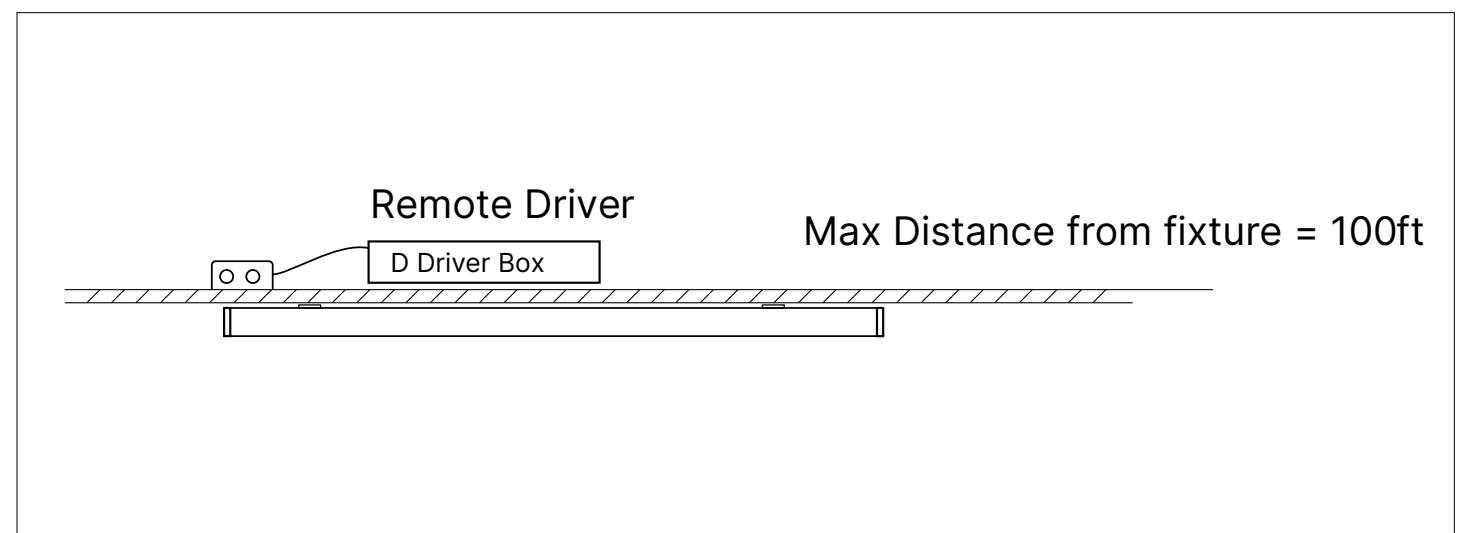
STEP 4 — Fixture Mounting MICROBeam Surface Mount

Raise the MICROBeam fixture and engage the Mounting Clips. The fixture will click when properly seated.



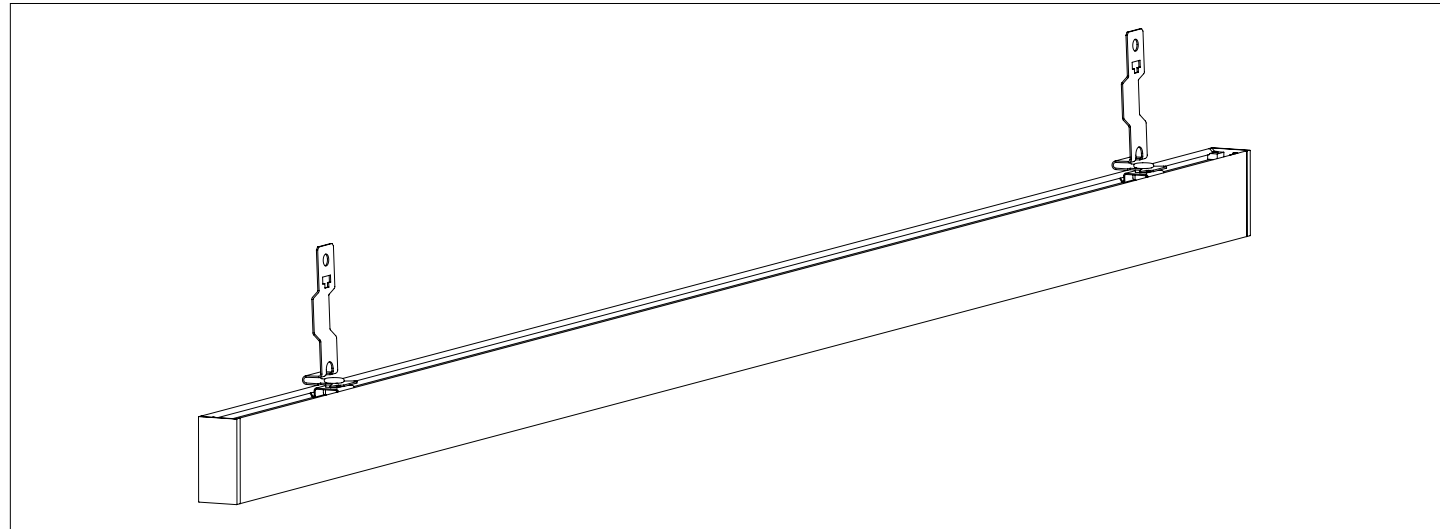
STEP 5 — Final Installation MICROBeam Surface Mount

Restore power.



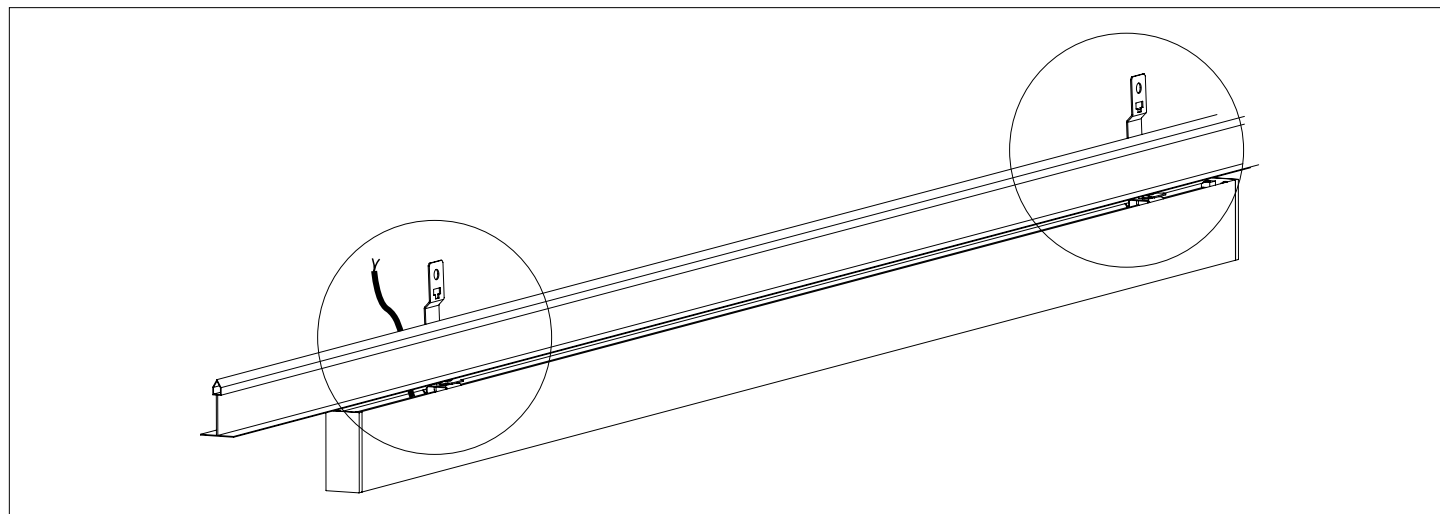
STEP 1 — TBar Clips MICROBeam Surface Mount TBar

The MICROBeam fixture comes fully assembled with TBar clips for your grid ceiling framework, if specified.



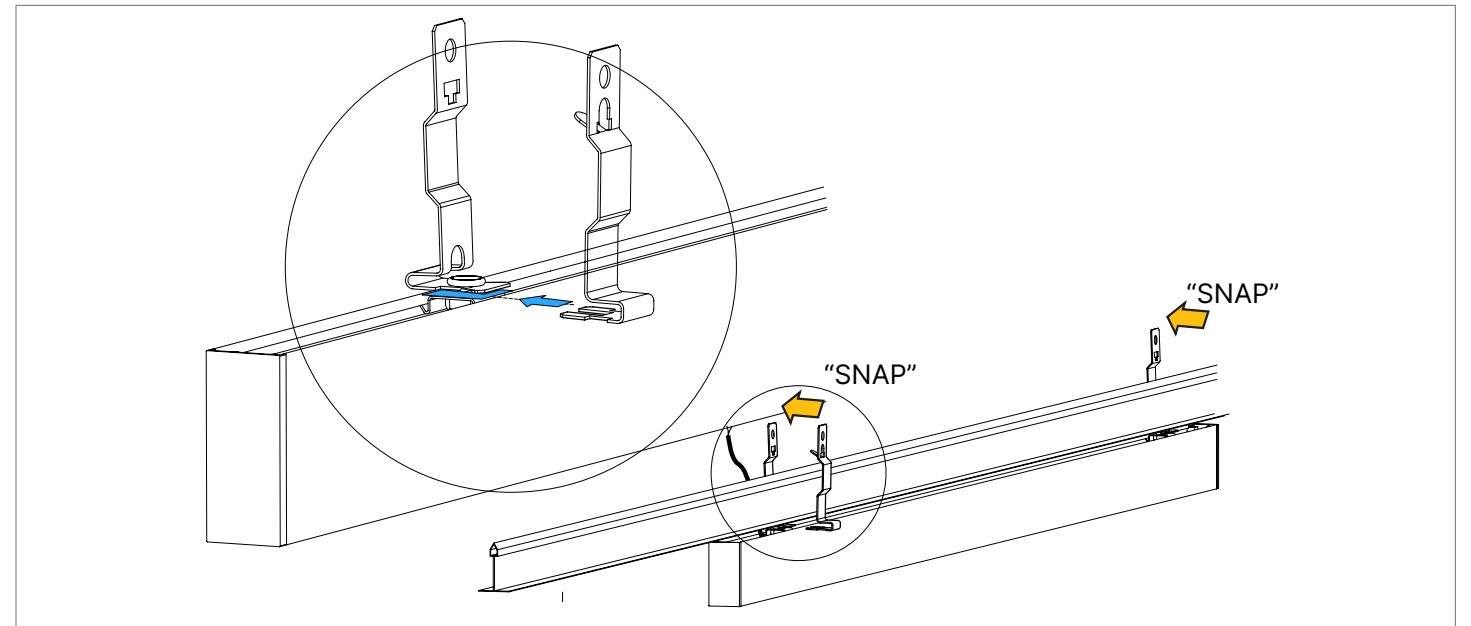
STEP 2 — Location on TBar MICROBeam Surface Mount TBar

Bring the MICROBeam fixture up to the desired location on the TBar. Allow wires to pass through framework.



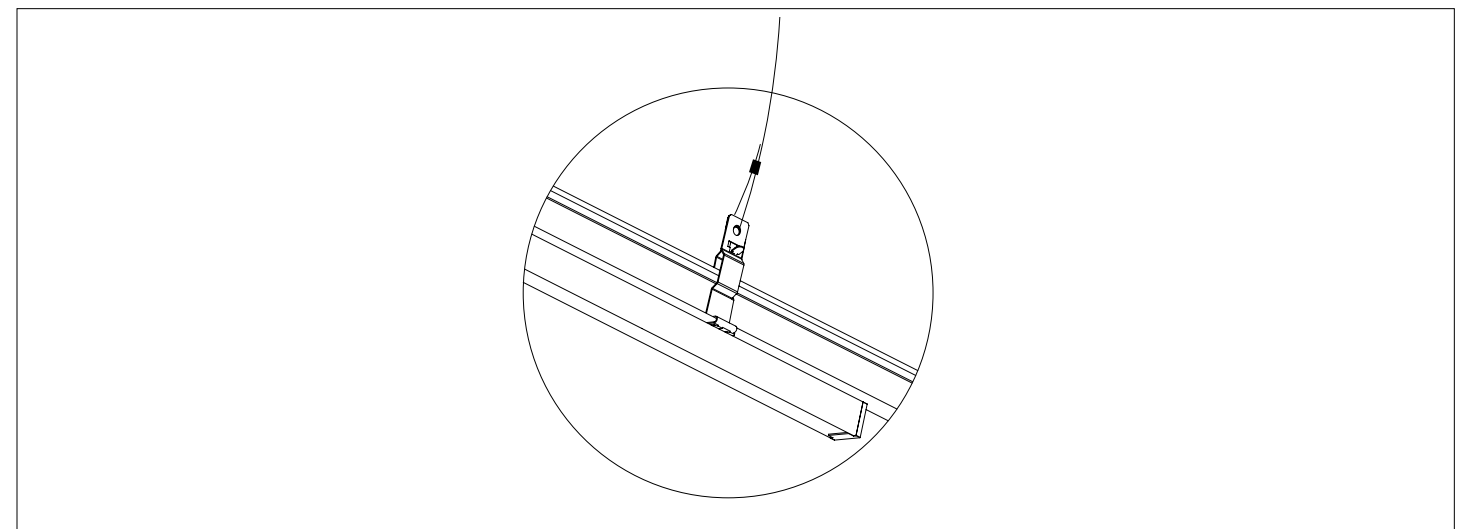
STEP 3 — Fixture Mounting MICROBeam Surface Mount TBar

Engage the TBar clips by inserting the loose clip below the clip base that is mounted to the MICROBeam fixture. The clips will SNAP when fully engaged.



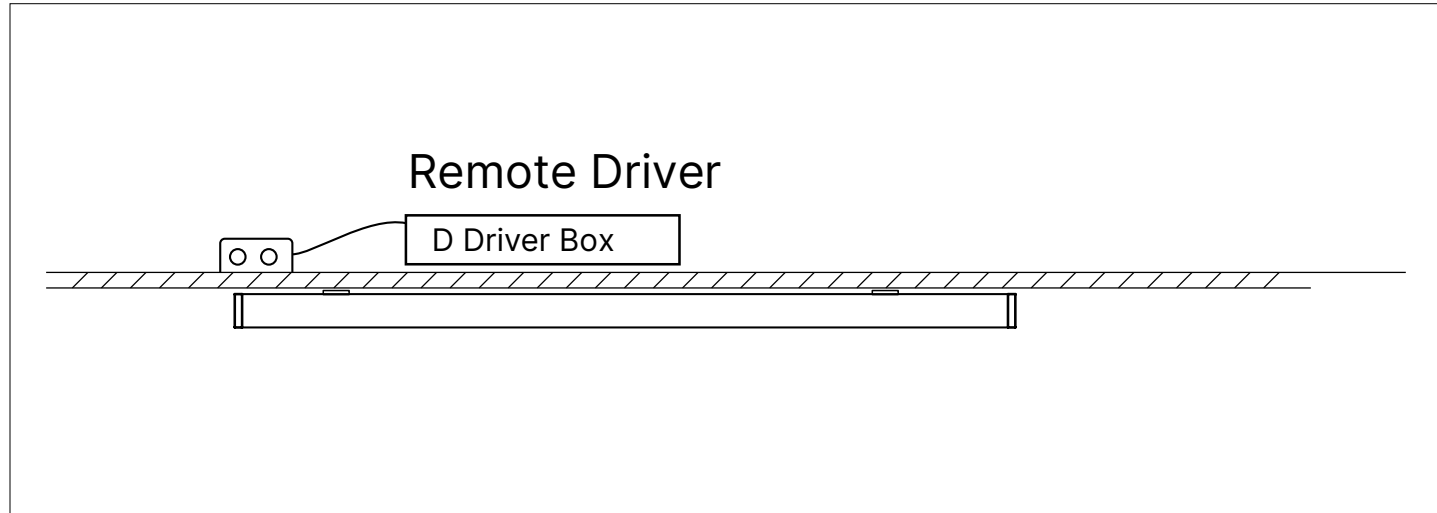
STEP 4 — Secure to Support MICROBeam Surface Mount TBar

Secure the MICROBeam fixture to an appropriate structural support beam or hanger.



STEP 5 — Final Installation MICROBeam Surface Mount TBar

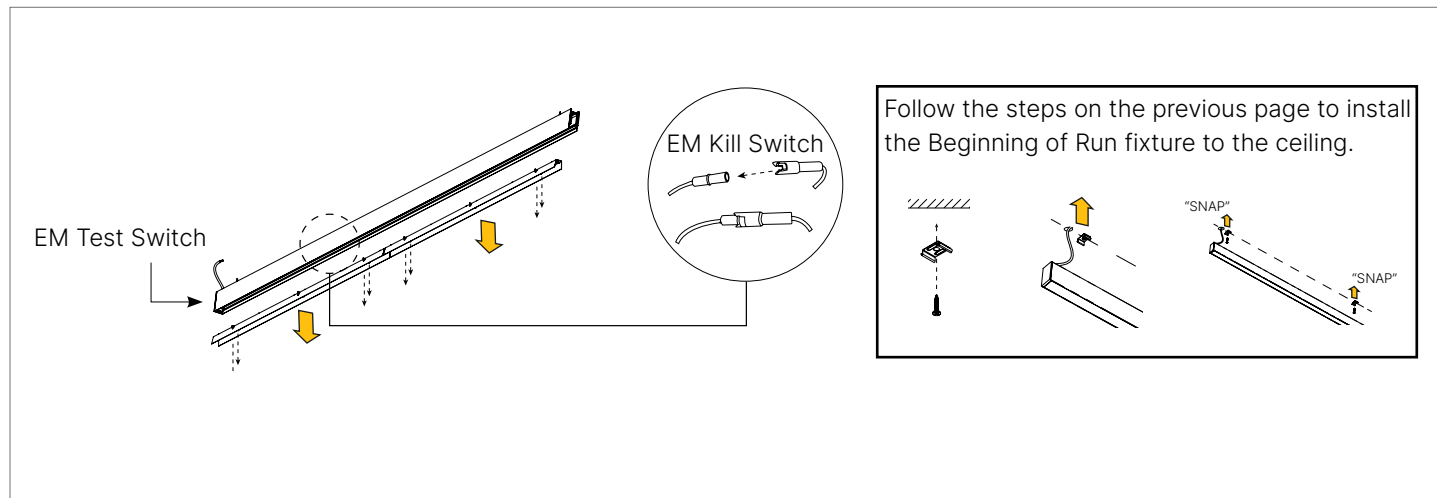
Locate and install the Remote Driver Box. Connect the MICROBeam fixtures DC cables to the Driver Box. Connect AC power to the Driver. Refer to the wiring diagram. Restore power.



MICROBeam Surface Continuous Run with Emergency Backup

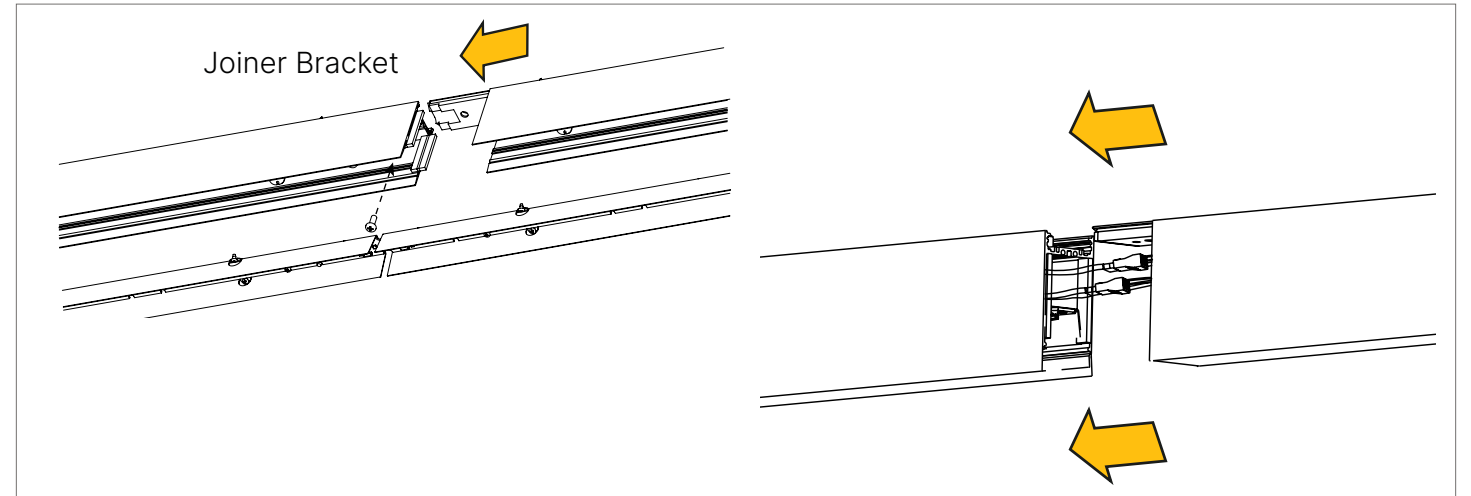
STEP 1 — EM Setup and Mounting BOR Fixture MICROBeam Surface Continuous Run

Locate the Beginning of Run fixture (with EM Test Switch in End Cap). Remove the Gear Trays from the fixture by removing the screws in the Gear Tray. Locate the EM Kill Switch and join the connectors.



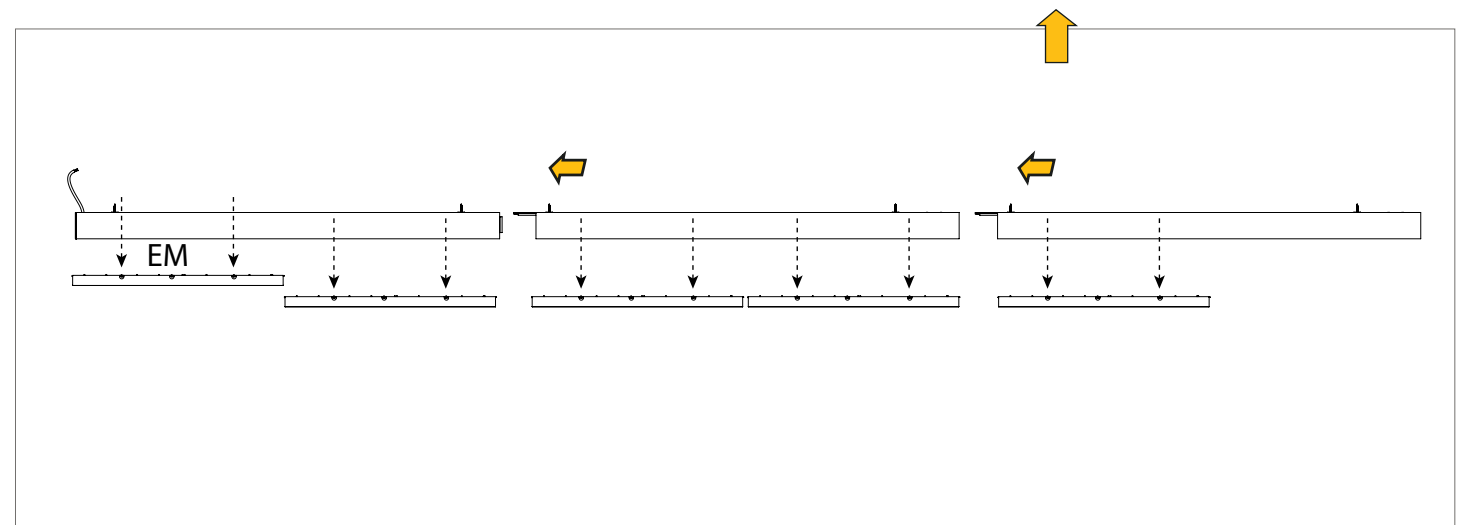
STEP 2 — Engage Joiner Bracket and Internal Wires MICROBeam Surface Continuous Run

Raise the non-powered fixture to the ceiling and secure to the Ceiling Mount Clips. Join internal quick connects and fit inside fixture as you slide the fixtures together using the joiner bracket.



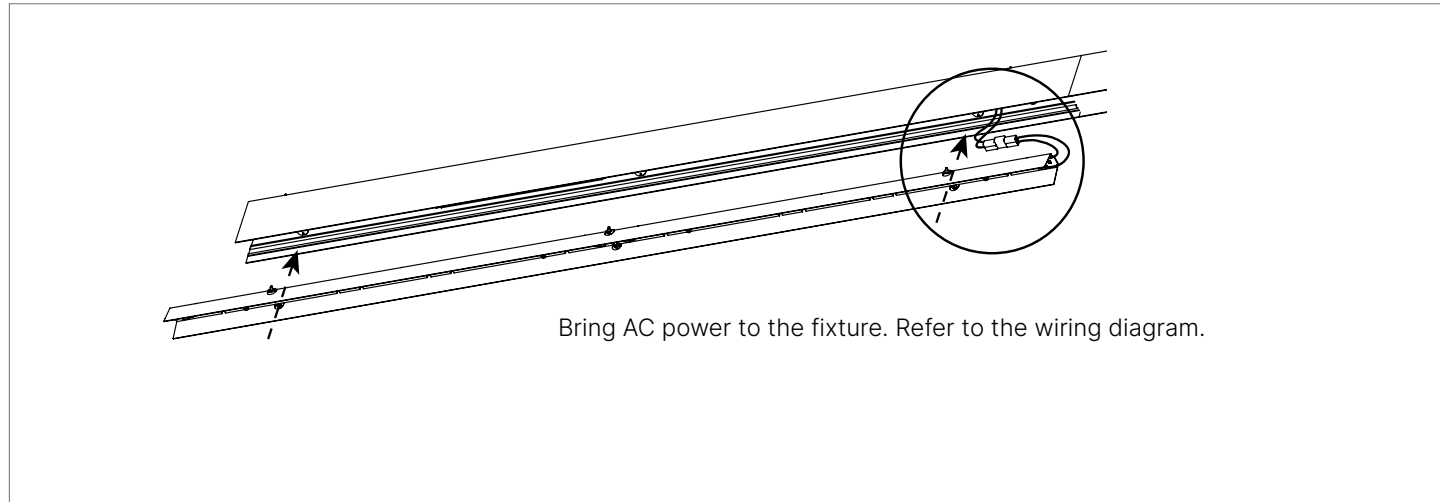
STEP 3 — EOR Fixture MICROBeam Surface Continuous Run

Tighten the Joiner Screw to the Joiner Bracket. The fixtures are now powered and secured to each other. Repeat this step for the End of Run fixture. Only remove the Gear Tray(s) that is closest to each Joiner Bracket. This will differ based on the fixture's specific length.



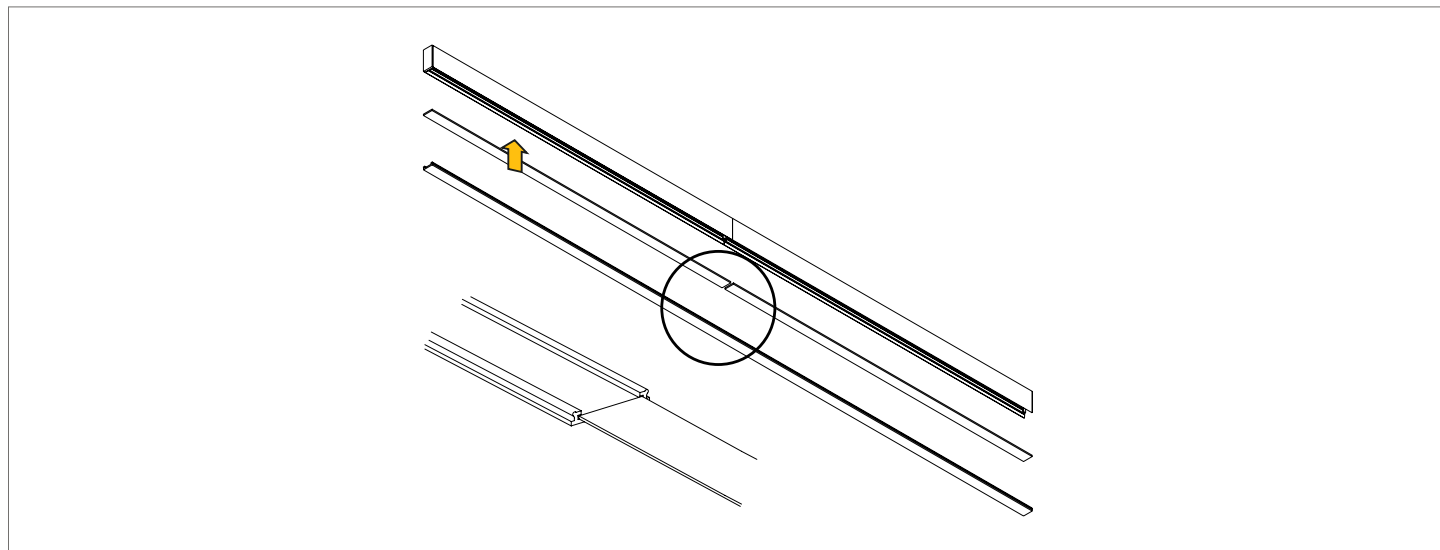
STEP 4 — Engage Gear Tray MICROBeam Surface Continuous Run

Bring each Gear Tray up to the matching fixture. Connect the quick connect cables and secure using the appropriate hardware. The fixture may power on due to the emergency battery backup, prior to connecting the AC power.



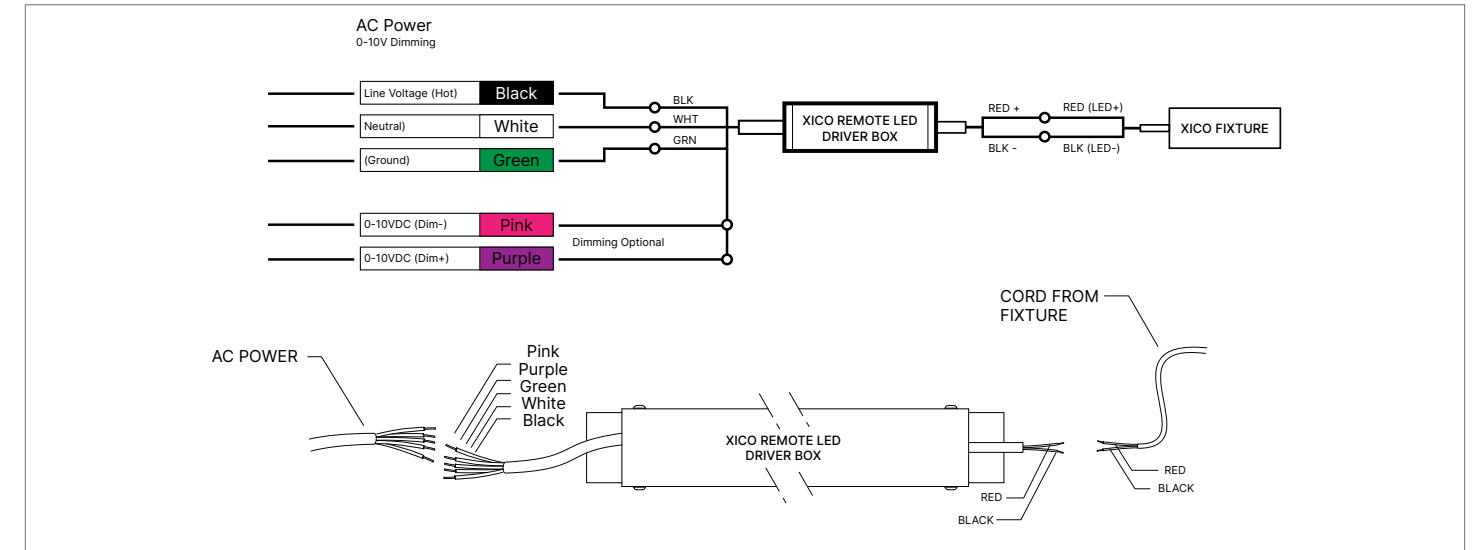
STEP 5 — Engage Lens MICROBeam Surface Continuous Run

Snap the lens(es) into fixture body. This may differ depending on the specific fixture type.



Wiring Guide

Wire the Power Feed End to the J-Box.



Voltage Drop

24 VDC and Wire Length Chart (Driver to Fixture)

XICO LED Fixture with Remote Drivers

When installing a XICO fixture with a remote driver and the distance is a long way from the fixture, it is important to properly specify the correct wire gauge (AWG/ or thickness of wire) for the distance of wire required. The maximum remote mounting distance is a function of the total voltage-drop across the output of the LED Driver.

How to Use the Chart

- Step 1:** Calculate the total wattage of the LED lighting system (round up to the nearest 10 W).
- Step 2:** Find the wattage in the top row and follow the column down to maximum length (round up) of wiring between the LEDs and the power supply.
- Step 3:** Look to the left column for the wire gauge size required to prevent voltage drop over 3%.

Maximum Cable Length from Remote Driver to Fixture — 24 VDC Driver										
Wire Gauge	Total Fixture Wattage (W)									
	10 W	20 W	30 W	40 W	50 W	60 W	70 W	80 W	90 W	100 W
18 AWG	134 ft	68 ft	45 ft	33 ft	27 ft	22 ft	19 ft	17 ft	15 ft	14 ft
16 AWG	215 ft	109 ft	72 ft	54 ft	43 ft	36 ft	31 ft	27 ft	24 ft	22 ft
14 AWG	345 ft	174 ft	115 ft	86 ft	69 ft	57 ft	49 ft	43 ft	39 ft	36 ft
12 AWG	539 ft	272 ft	181 ft	135 ft	108 ft	90 ft	77 ft	68 ft	62 ft	56 ft
10 AWG	784 ft	397 ft	263 ft	197 ft	158 ft	131 ft	112 ft	98 ft	95 ft	82 ft

Remote Driver to Fixture Example

Calculate total load

An 8 ft fixture using 4 W/ft requires a total of 32 W. Round up to the nearest load of 40 W.

Find distance from driver to Load

Let's assume the distance is 40 ft from the driver to the fixture. Round up to the nearest distance of 54 ft.

Choose wire gauge

It's recommended to install 16 AWG wire between the driver and fixture to eliminate noticeable voltage drop.