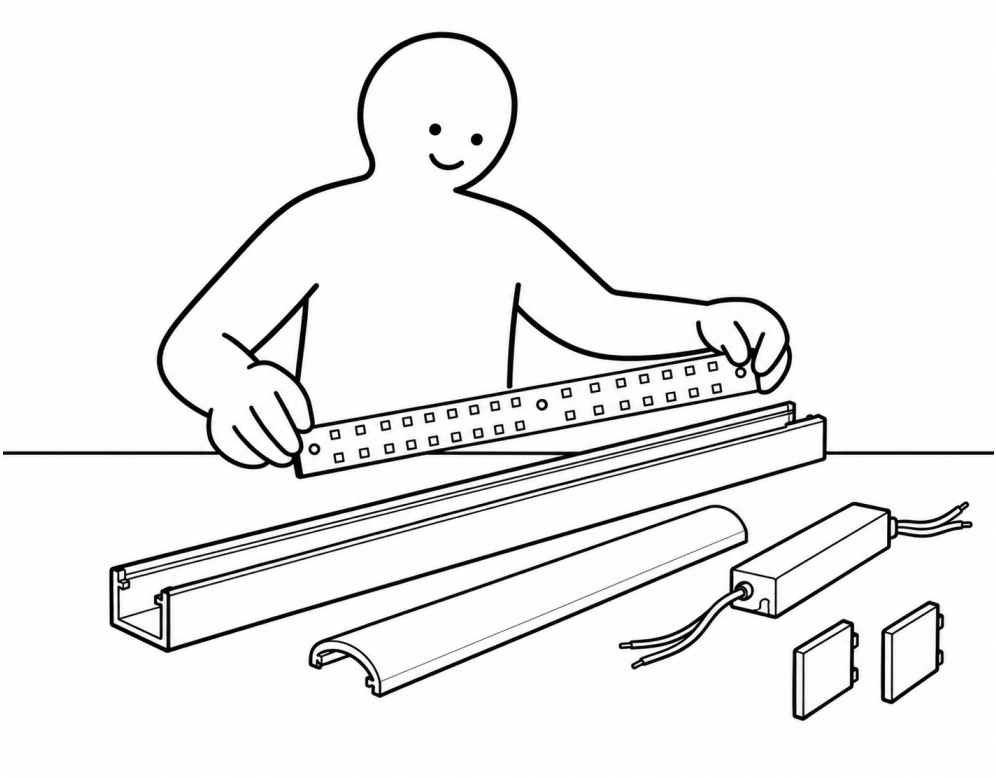
LED MODULE
CONSTANT CURRENT

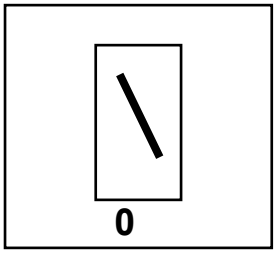
Assembly guide



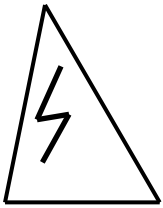
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Disconnect power first

Connect and solder only with power disconnected.



OFF



220-240 V AC

Mains connection: qualified electrician only.

Do not touch the board or terminals while powered.

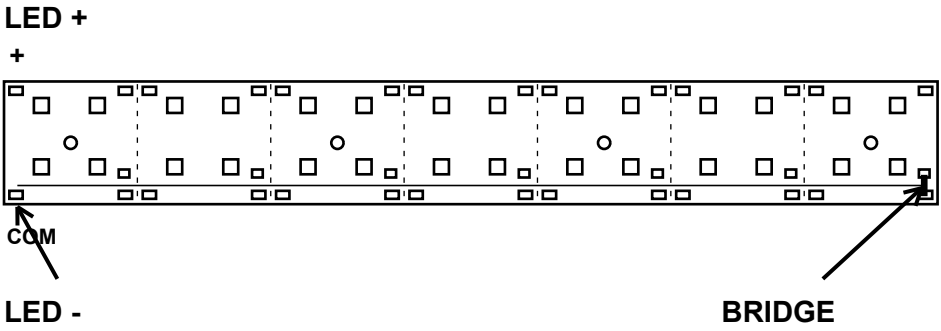
Complete all connections before switching on.

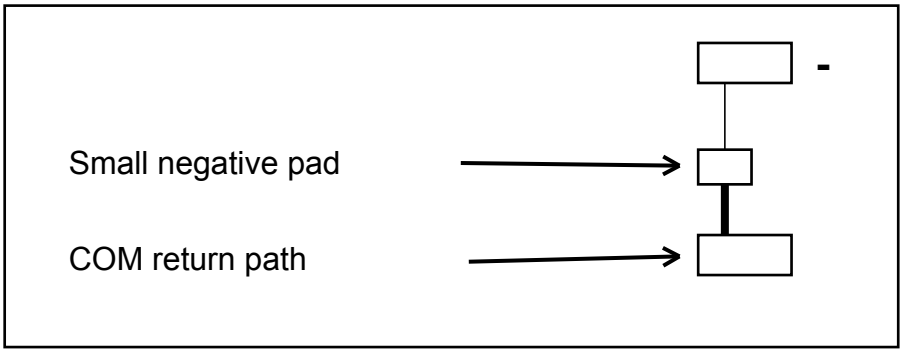
Do not connect or disconnect LEDs while powered.

Do not assume a constant-current output is safety extra-low voltage.

Identify the board

With text upright: input left, return bridge right.



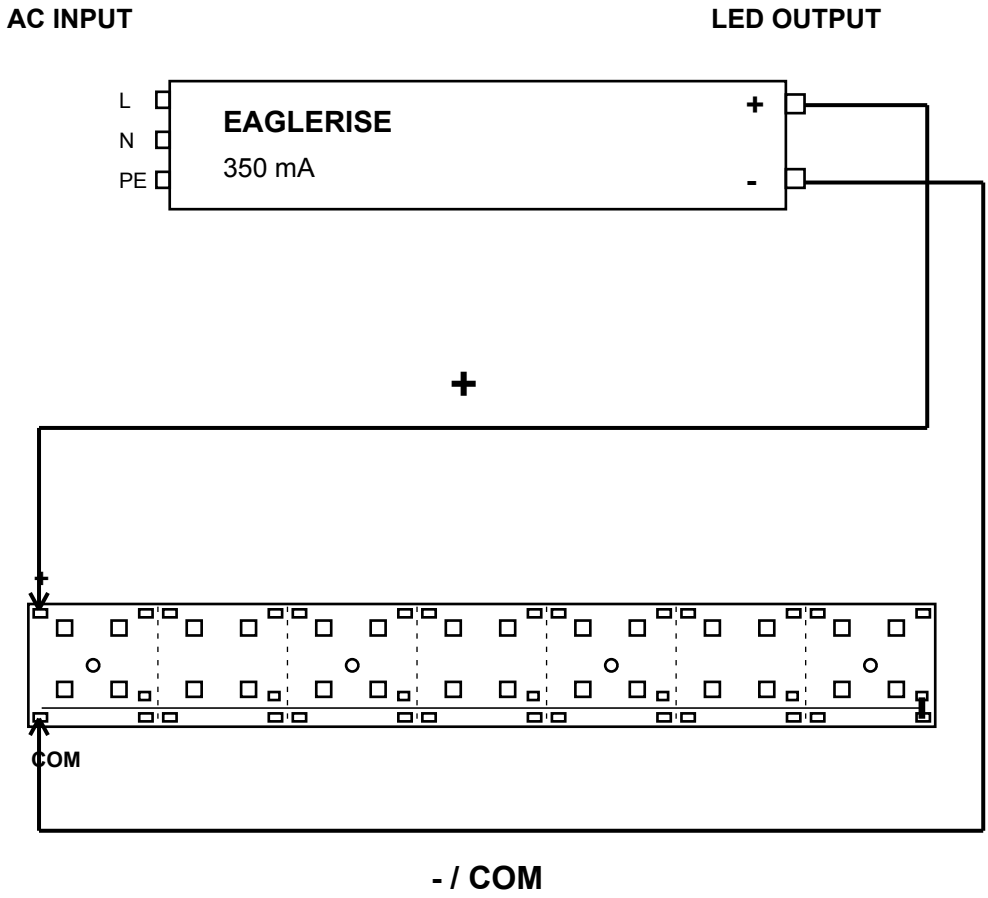


COM carries the negative return to the input.

COM is not protective earth.

Connect the driver

Follow the labels; terminal positions vary by model.

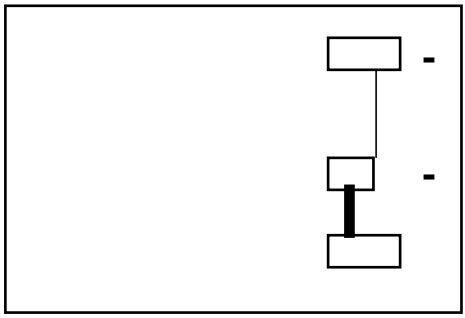


L: live N: neutral PE: protective earth

LED+ → board + LED- → input COM

Make the return bridge

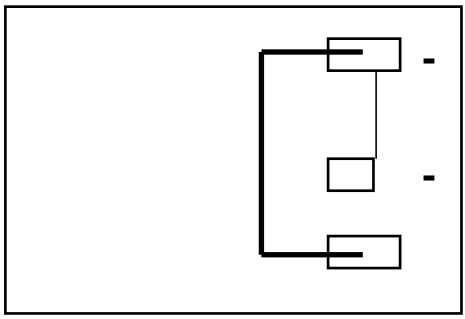
Join negative and COM on the last section in use.



SOLDER

✓

OR



WIRE

✓

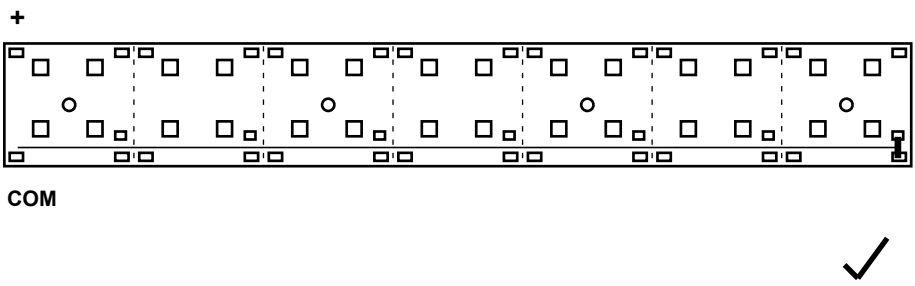
Use either method; only one is needed.

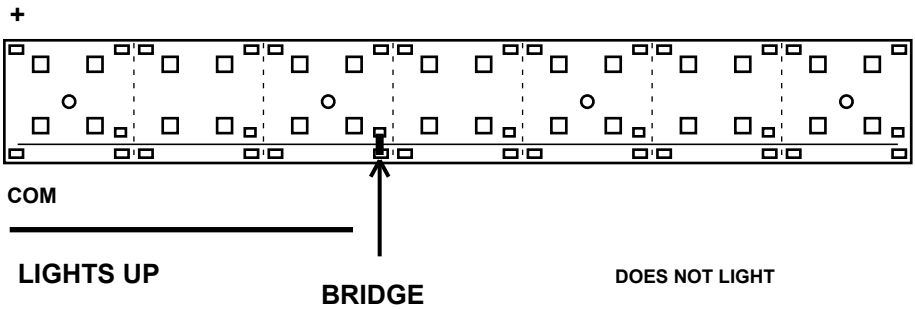
Solder must connect only negative and COM pads.

Choose the length

The bridge must be on the last section used.

FULL LENGTH





Shorten only at the designated break points.

An intermediate return leaves later LEDs unlit.

For short sections, choose a suitable driver voltage range.

Check driver compatibility

Both current and voltage range must be suitable.

350 mA = 350 mA

DRIVER LED MODULE

FMS-40-350 N-S LD1 E

Illustrated driver / 350 mA setting



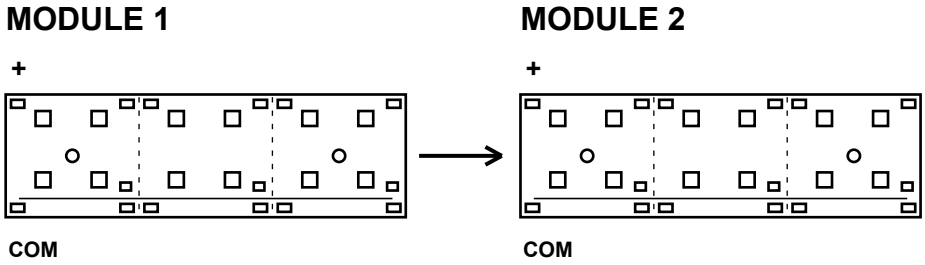
40 V **114 V**

Total LED voltage must be within this range.

Select current using the driver's own DIP table.
Do not assume identical DIP positions across drivers.
A short board may fall below this driver's minimum voltage.

Join two modules

Disconnect power. Align boards in the same direction.



SERIES CONNECTION

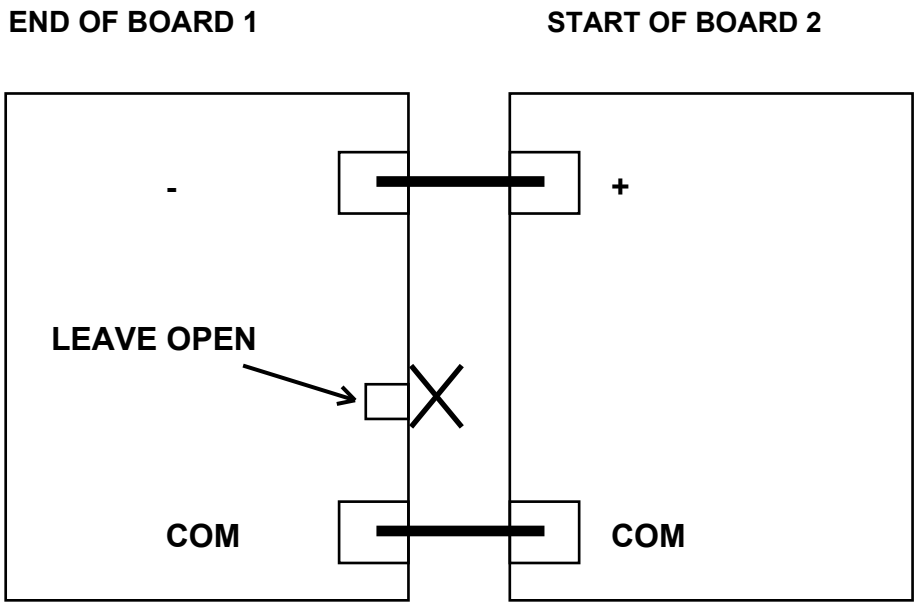
- → **+** COM → COM

Driver +: + pad of the first module.
Driver -: COM pad of the first module.
Return bridge only at the end of the final module.

Total module voltage must fit the driver range.
Series current does not add up: 350 mA.

The joint

Enlarged diagram; follow the actual pad markings.

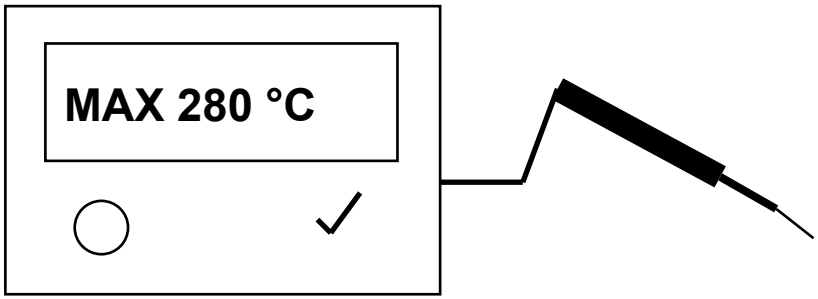


Do not bridge the small middle negative pad at this joint.
Do not join negative to COM at an intermediate joint.
Current returns too soon; the next module stays off.

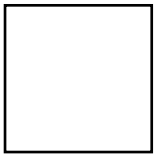
AT THE FINAL END: - → COM

Temperature-controlled station

Solder only with power disconnected.



SOLDERING STATION



3 × 3 mm

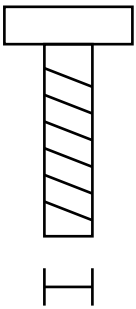
Typical pad size

Do not use a plug-in iron without temperature control.
Do not exceed 280 °C; never solder at 400 °C.
Do not heat for too long, press or pull the pad.

Excess heat lifts and peels copper pads.

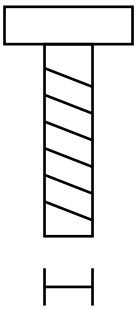
Use suitable screws

Screw shank diameter: maximum 3 mm.



Ø ≤ 3 mm

✓



Ø > 3 mm

✗

Use only the existing mounting holes.
Do not force or enlarge the holes.
Screw heads must not touch pads or copper tracks.
Do not tighten enough to crack the board.

Final check

Apply power only after all checks are complete.

☐ **350 mA**

Driver current and voltage range are suitable.

☐ **+ / COM**

Input polarity is correct.

☐ **BRIDGE**

Negative and COM joined at the last used section.

☐ **MOUNTING**

Board secured; no exposed ends or excess solder.

⟶ **ON**

If unlit: disconnect power and check connections.

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Safety instructions

1

Do not strain modules or components. Avoid excessive force during screw fastening and assembly. Do not apply heavy loads; protect PCB conductive tracks.

2

Keep LED modules away from chemicals during assembly and storage.

Safety instructions



Do not stack modules without protective separator sheets during storage.



Take electrostatic discharge (ESD) precautions during assembly.



Store and operate LED modules at 10-60% relative humidity.

Safety instructions

6

Choose power supplies with short-circuit, overload and overtemperature protection.

7

It is recommended that only qualified personnel connect modules to the power supply.

Technical support

Contact us for technical support.

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