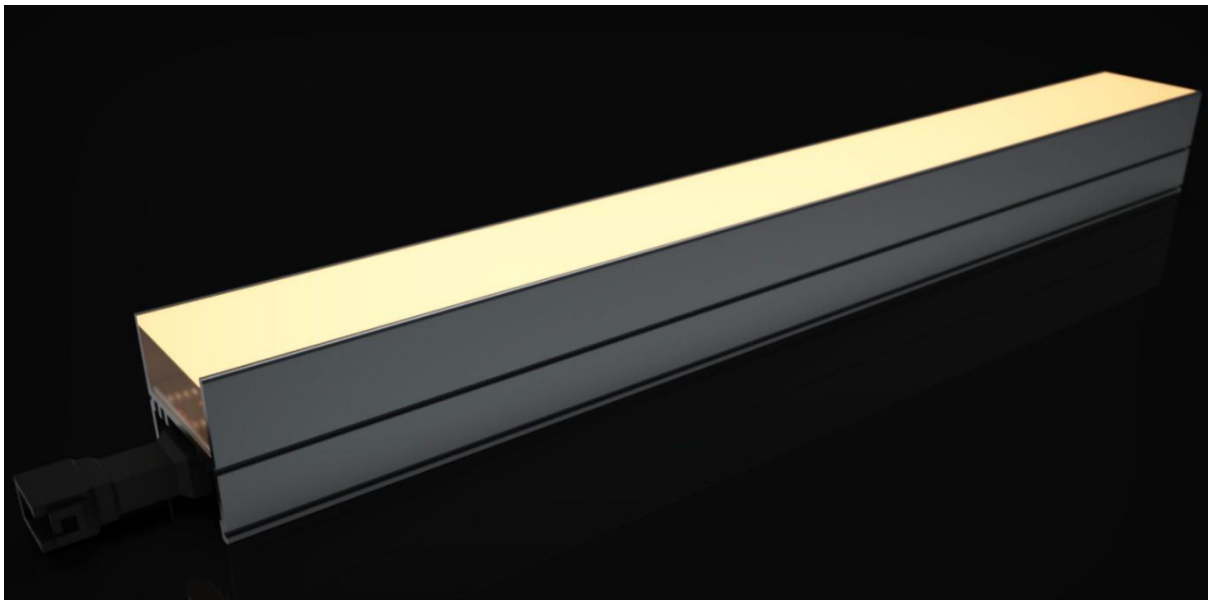




VEX-LUMAERA-44

On-Site Manual



Please ensure you have read the following instructions thoroughly and can undertake the required actions before commencing installation.

If you have any queries, please consult our Technical Support Department before proceeding.

THE VEXICA GROUP LIMITED
TYPHOON HOUSE, MOXON WAY, SHERBURN-IN-ELMET, LEEDS, LS25 6FB

Contents

Scope.....	3
Revision History	3
Installation Instructions:	4
Spring Clips.....	4
Adjustable Bracket.....	5
Wiring.....	6
JWPS.....	6
Single Colour	6
RGB.....	6
Tuneable White.....	6
Dynamic RGB.....	6
GBW	7
JWPF.....	7
RGBW	7
SSL 1.2	7
Single Colour	7
RGB.....	7
Tuneable White.....	7
Dynamic RGB.....	8
Extending Vexica Standard Input Cables	9
Cautions:	10

Scope

This manual will detail the installation of VEX-LUMAERA-44. Diffused and TIR variants.

Revision History

Rev	Date	Comment	Author
A	23/04/2019	Document created	JP
B	09/10/19	Added Adjustable Bracket and Dynamic starter cable	JP
C	08/05/2024	GBW 4 WAY JWPS ADDED	MA
D	08/05/2025	SSL 1.2 ADDED	MA
E	04/09/2025	SSL1.2 RGB-DYN + changed from brown to red	LG
F	08/10/2025	SSL1.2 RGB-DYN returned to brown +24VDC SSL1.2 RGB BLUE/GREEN CODING SWITCH	LG

Approved By

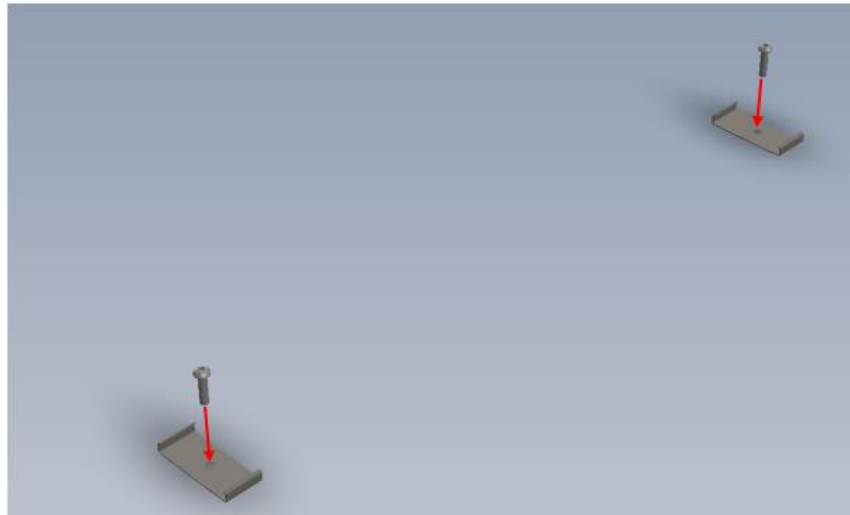
Person	Date	Signature
Technical Manager	08/10/2025	LG

Installation Instructions:

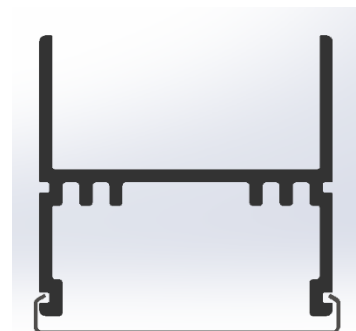
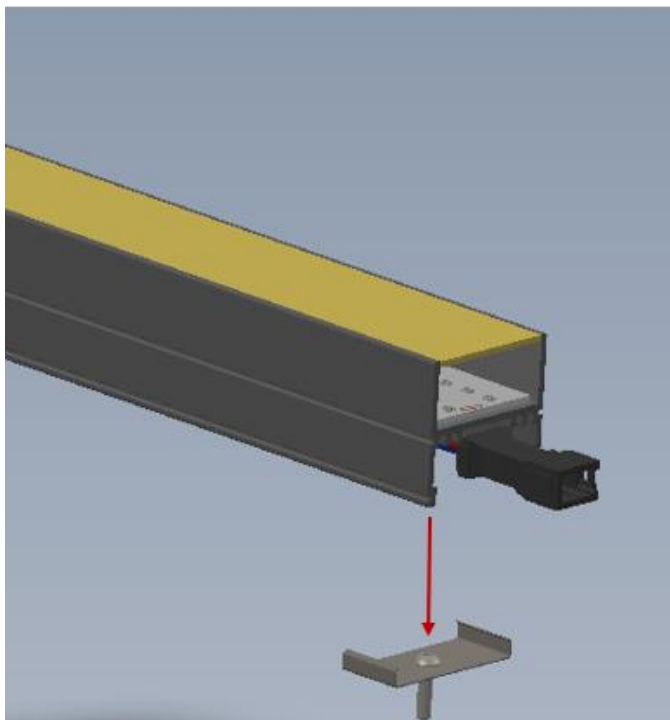
Please read these instructions carefully before installation and make sure you fully understand them. Pay attention to how the luminaire is wired. If you require any further guidance, please contact Vexica.

Spring Clips

Fix the mounting brackets to the desired surface using screws appropriate for the surface you are mounting to (these are not provided). Each VEX-LUMERA-44 should have at least three brackets per meter

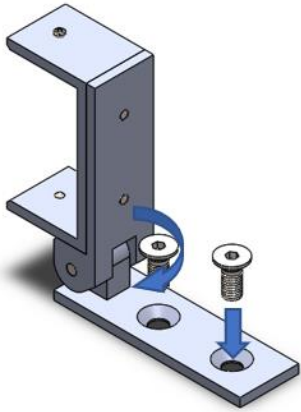


Place the VEX-LUMERA-44 into the brackets and press firmly until the Unit is secure. Ensure that the clips have fully engaged the slot on the extrusion.



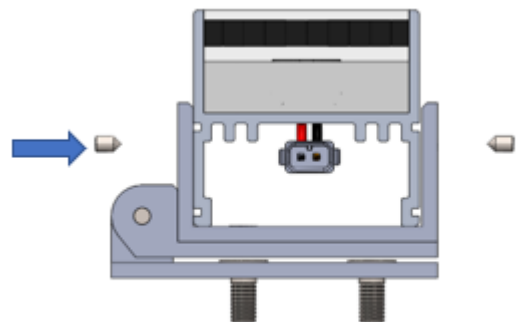
Adjustable Bracket

Fix adjustable bracket to the required surface using appropriate screws (Vexica do not provide these as the type and size depends on the surface luminaire is mounted to). Ensure the mounting brackets are installed in line with each other to enable the product to be clipped in quickly, use at least two Brackets with luminaires one meter and under and three brackets if the luminaire is over one meter.



Loosen the Grub Screws with a 1.5mm Allen key.

Fit the Unit into the bracket and tighten the Grub Screws to secure the Fitting in place. Ensure that the Fitting is pressed firmly into the bracket to ensure that the Grub Screws engage fully.



Wiring



WARNING! Risk of electrical shock. Disconnect power before servicing or installation.

If multiple units are to be connected in a “Daisy Chain” the maximin length Daisy Chain should not exceed 5M.

Insert terminator into the last luminaire in the “Daisy Chain” to retain IP rating.

Connect the starter cable to the first Fitting in the “Daisy Chain” and the LED Driver following the appropriate table below:

JWPS

Single Colour

Driver	Input Cable Colour
GND	Black
+24VDC	Red

RGB

Driver	Input Cable Colour
LED Supply + (24VDC)	Black
Group 1 GND (Red)	Red
Group 2 GND (BLUE)	Blue
Group 3 GND (GREEN)	Green

Tuneable White

Driver	Input Cable Colour
+24VDC	Red
CH1	Black
CH2	Blue

Dynamic RGB

Driver	Input Cable Colour
+24VDC	Red
DATA IN	Green
GND	Black

GBW

Driver	Input Cable Colour
LED Supply + (24VDC)	Black
Group 1 GND (WHITE)	Red
Group 2 GND (BLUE)	Blue
Group 3 GND (GREEN)	Green

 **WITH ALL RGB -DYNAMIC FITTINGS THE STARTER CABLE MUST NOT EXCEED ONE METER, THE DATA (Green) AND GND (BLACK) CABLES MUST BE TWISTED TOGETHER.** 

JWPF

RGBW

Driver	Input Cable Colour
LED Supply + (24VDC)	Black
LED Supply + (24VDC)	Yellow
Group 1 GND (Red)	Red
Group 2 GND (BLUE)	Blue
Group 3 GND (GREEN)	Green
Group 4 GND (WHITE)	White

SSL 1.2

Single Colour

Driver	Input Cable Colour
GND	Yellow
+24VDC	Brown

RGB

Driver	Input Cable Colour
LED Supply + (24VDC)	Brown
Group 1 GND (Red)	Red
Group 2 GND (BLUE)	Yellow
Group 3 GND (GREEN)	Orange

Tuneable White

Driver	Input Cable Colour
+24VDC	Brown
CH1 White	Yellow
CH2 w/ White	Orange

Dynamic RGB

Driver	Input Cable Colour
+24VDC	Brown
DATA IN	Orange
GND	Yellow

Extension cable CSA and length should be calculated to ensure the voltage to the luminaire does not drop below that specified in the datasheet. The installer must use appropriate IP rated connectors for any extensions to retain warranty (refer to page Eight for more information on extending cables).

DO NOT REVERSE POLARITY

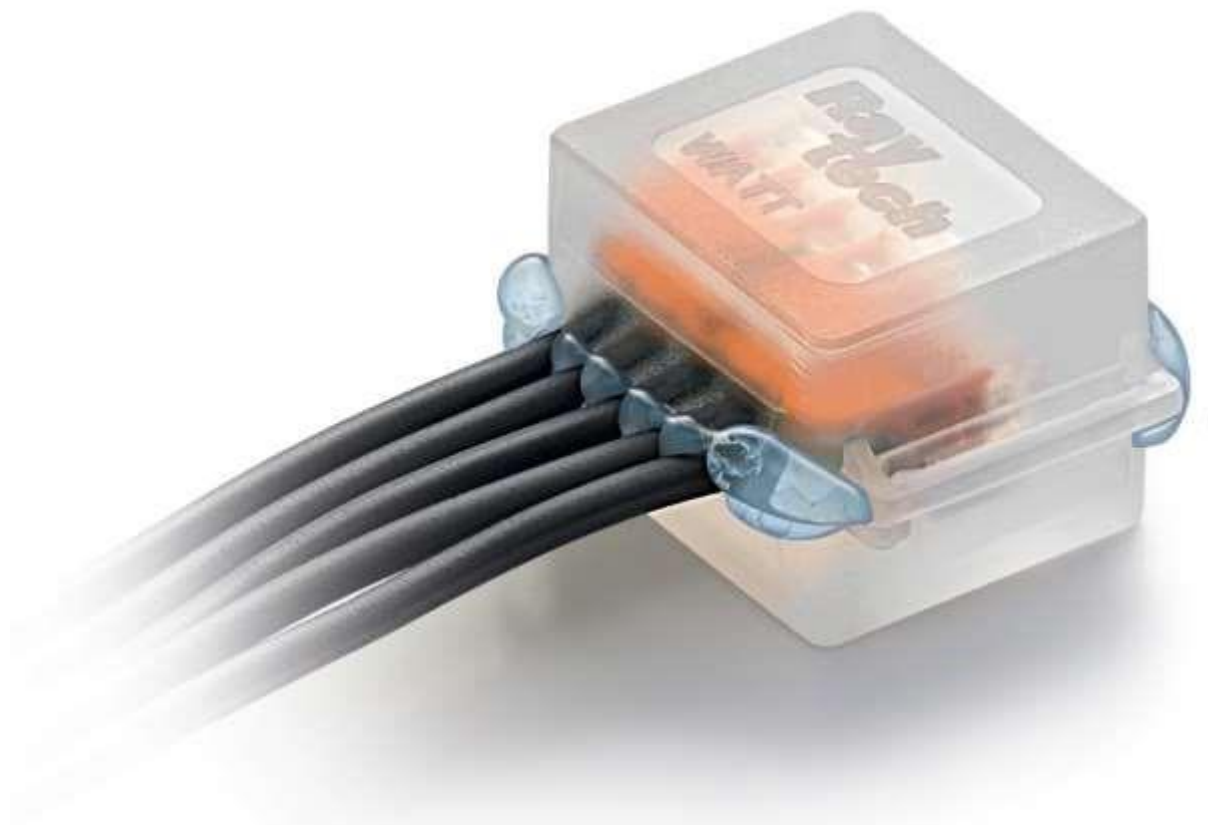
DO NOT EXCEED THE MAXIMUM RUN LENGTH OF FIVE METERS

Extending Vexica Standard Input Cables

When extending cables or making any connections on-site always ensure the connection has an appropriate IP rating.

Vexica recommends the starter cables are linked to extensions cables with gel boxes. When using extending sheathed cables ensure that the outer sheath is encased in the gel box to retain the IP rating.

Do Not extend Dynamic starter cables without using a Vexica approved Transmitter/Receiver module to ensure smooth playback of data.



For more details visit: <http://www.raytech.it/catalogo/en/gel-box-line.pdf>

Cautions:

PLEASE TAKE NOTE OF LUMINAIRE AND DRIVER INGRESS PROTECTION RATING WHEN DECIDING LOCATION

MAKE SURE ALL CONNECTIONS MADE ARE TIGHT WITH NO LOOSE STRANDS AND WITH APPROPRIATE IP RATING.

DO NOT HOT PLUG OR REVERSE POLARITY.

ALWAYS ALLOW SUFFICIENT SLACK ON THE SUPPLY CABLE TO REMOVE LUMINAIRE FROM ITS POSITION FOR ANY FURTHER MAINTENANCE

MAKE SURE SUPPLY CABLE IS NOT IN CONTACT WITH ANY SHARP OBJECTS DO NOT LEAVE CABLE OR ANY CONNECTOR EXPOSED TO RAIN/MOISTURE FOR ANY PERIOD.

CAUTION!

- *All images are representative and may not be of the actual product supplied depending on options specified when ordering.*
- *Avoid staring directly into the light beam.*
- *A certified electrician should install the product following local regulations.*
- *Take extreme care when working with mains voltages.*
- *There are no user-serviceable parts inside this Unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty.*
- *During operation, the housing may become hot, avoid touching the Unit with bare hands while in use.*
- *Do not allow the product to operate in ambient temperatures above the maximum ambient stated on the datasheet; doing so will void any warranty.*
- *Do not use aggressive cleaning agents! Any warranty will not cover any chemical damage.*
- **DO NOT "HOT PLUG" THE LED FITTINGS OR DRIVERS AS THIS WILL INVALIDATE THE WARRANTY!**