

FLEXBAR

SURFACE-MOUNTED



Flexbar is ideal for your projects that require cost-efficiency and long-term use with its flexible structure that has given inspiration to numerous designs in concealed lighting applications. Its module based design makes it possible for you to increase and decrease the number of modules and obtain different lumen values.

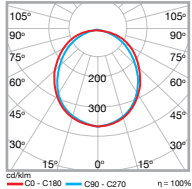


Technical Specifications

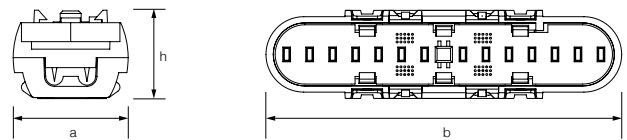
Housing : PC housing and cap
Diffuser : Opal diffuser
Light Source : SMD LED
Power : 22W / 35W / 38W / 44W / 68W / 70W / 75W / 136W

Input Voltage : 24V DC
Color Temperature : Cool White / Warm White / Natural White
CRI : >80
Glare Rating (UGR) : <19 * UGR value variable according to design of project
IP : IP 20
Installation : Surface-Mounted

Photometric Curve



Technical Drawing



Type	a	b	h
FLEXBAR	23	92	21

Options

Length options in meters : 10
Module options (module/m) : 9
Lumen options (lumen/m) : 1400
Diffuser options : Opal
Light color options : Amber / Red / Green / Blue
DALI Compatibility : Yes*

* DALI compatibility is only produced in 500 lm/m models as 5 and 10 m. They are produced as 5 m in other lumen packages.

Design

It is designed to be created from modules on a flexible power cable.
 Renewal may be performed by exchanging the old module with a new module.

Installation - Lamp

The mounting of aluminum U profile is easily performed with its fitting clamping structure.



Purchase Order Table

Product Type	Product Code	Power (W)	Weight (kg)
Surface-mounted - 1400 lm/m (3000K) 10m FLX 136G 30OD28 1K4 10M9		136	2,8
Surface-mounted - 1400 lm/m (4000K) 10m FLX 136G 40OD28 1K4 10M9		136	2,8

energylight
 knowledge | solutions





Flexible Lighting Era in Concealed Lights

FLEXBAR[®]





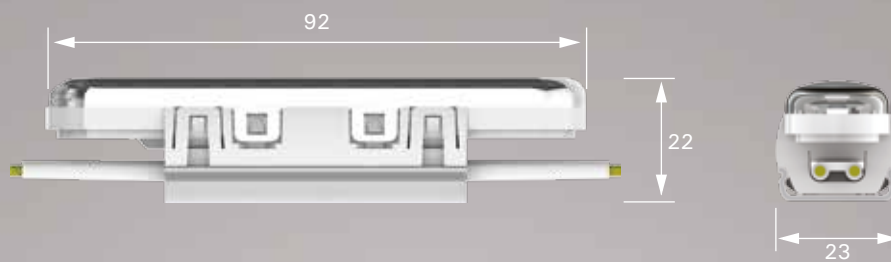
FLEXBAR®

Conventional techniques that have been used in the past for illumination designs incorporating concealed lights have limited both the lighting results themselves and as well as the freedom in their architectural design.

FLEXBAR, EAE's new concealed lighting product, removes all the limitations.

The product's luminance level, its capability for sharp or circular rotation, and its capability to be removed and cut thanks to its modular cabling feature makes it possible to realize any type of flexible light and lighting designs you can imagine.





PC housing and cap
 Opal diffuser
 SMD LED
 14W/m
 24V DC
 Red, Amber, Blue, Green, 2700K, 3000K, 4000K and RGB light
 possibility Dimmer diversity (DALI)
 Mac Adam Step 3
 >80 CRI
 IP20
 Surface Mounted Concealed Lighting Applications



FLEXBAR, is designed to change your view on lighting with its inspiring dynamic, adaptable, flexible and ergonomic structure.

Contrary to conventional systems, it does not confine the light source to certain forms. It may be removed and installed at will thanks to its modular wired structure.

Provides ***maintenance-free***, cost-effective and efficient lighting ***with long service life*** thanks to its LED light source. It is available in 2700K, 3000K, 4000K light colours and amber, red, blue, green and RGB colour options.

Colour Temperature and Colour Options



Lumen Options*

1400lm/m

**Lumen package options are only valid for MN - WHITE.*

Module Options

9 module/m

Cap Options

Opal Cap

Lighting Control

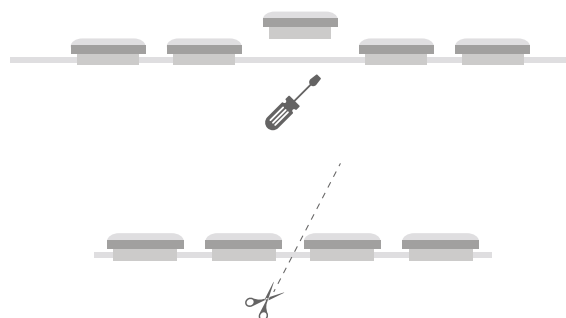
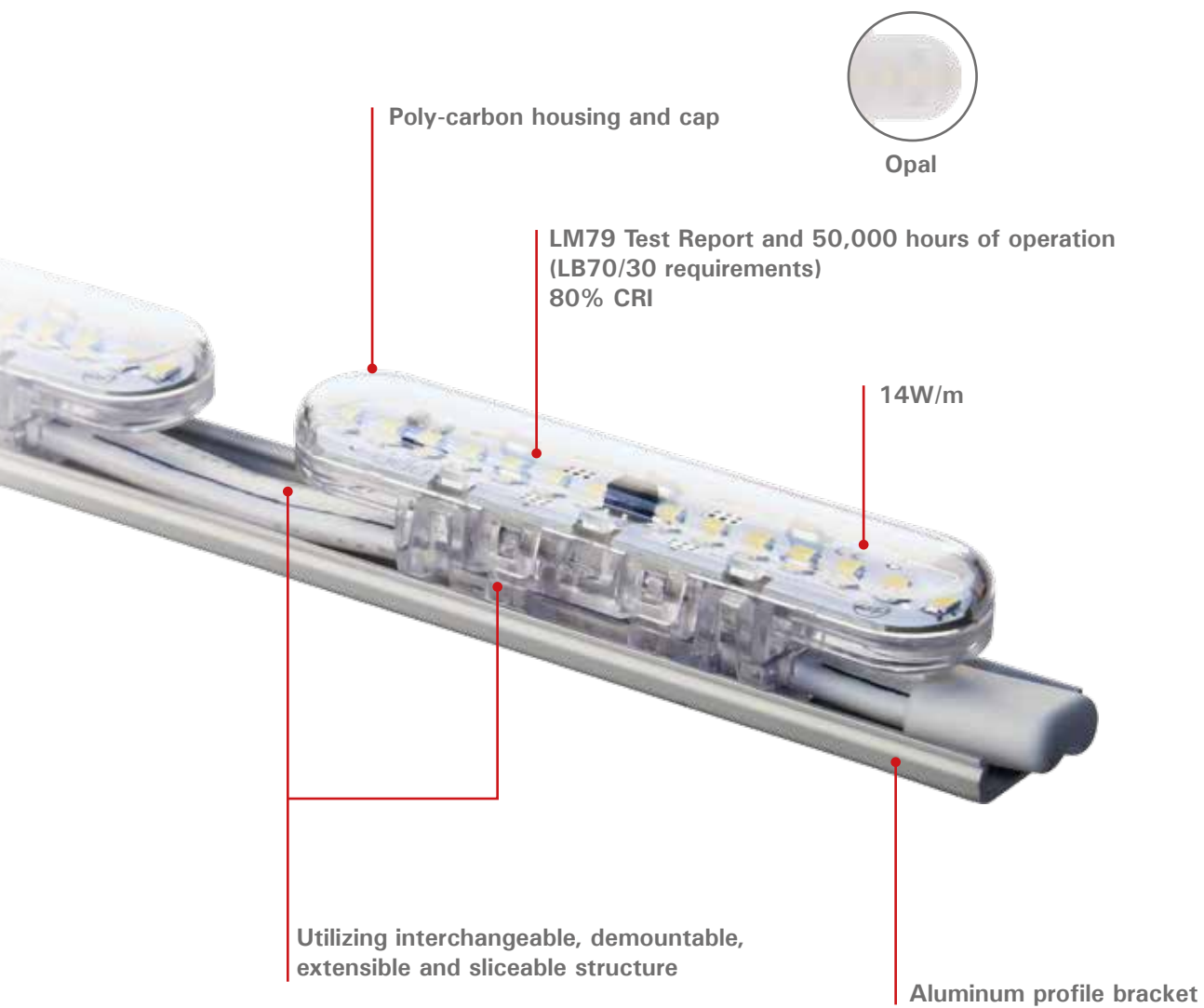
ON/OFF

DALI

Lighting Control

5m

10m



WHY FLEXBAR ?

You have a light source that you can use without challenging with solid form of similar products, and short lifetime, low lumen capacities and maintenance difficulties of strip LEDs.

Flexbar presents a long lifetime, energy saving and sustainable solution, thanks to its modular structure that can be mounted on the cable through its clips improved for flexibility.

	LEDBAR	LED STRIP OR LED CHAIN	FLEXBAR®
Flexible, Curved Applications	-	+	+
Advantage of Sliceable Utilization	-	+	+
24V DC Power Supply	+	+	+
Long Lines without a Project	-	+	+
LED interchangeability in case of LED failure	-	-	+
Increasing / Decreasing after Lumen Output	-	-	+
Soldering on Site	-	-	+
Procurement Surveillance without a Project	-	+	+
Angular Installation Option	+	-	+
50,000 Hours High Lumen	+	-	+

FLEXBAR Application Fields

Flexbar can be utilized comfortably in **tension ceilings**, **under shelf** and **backlight** applications, in addition to standard concealed applications, thanks to its flexible and modular structure. It provides long lifetime especially for solutions integrated with architectural details which is very difficult to access afterwards.

Wall - Ceiling Type Concealed Lighting



PVC Tension Ceiling Applications





Under Shelf Concealed Lighting Applications

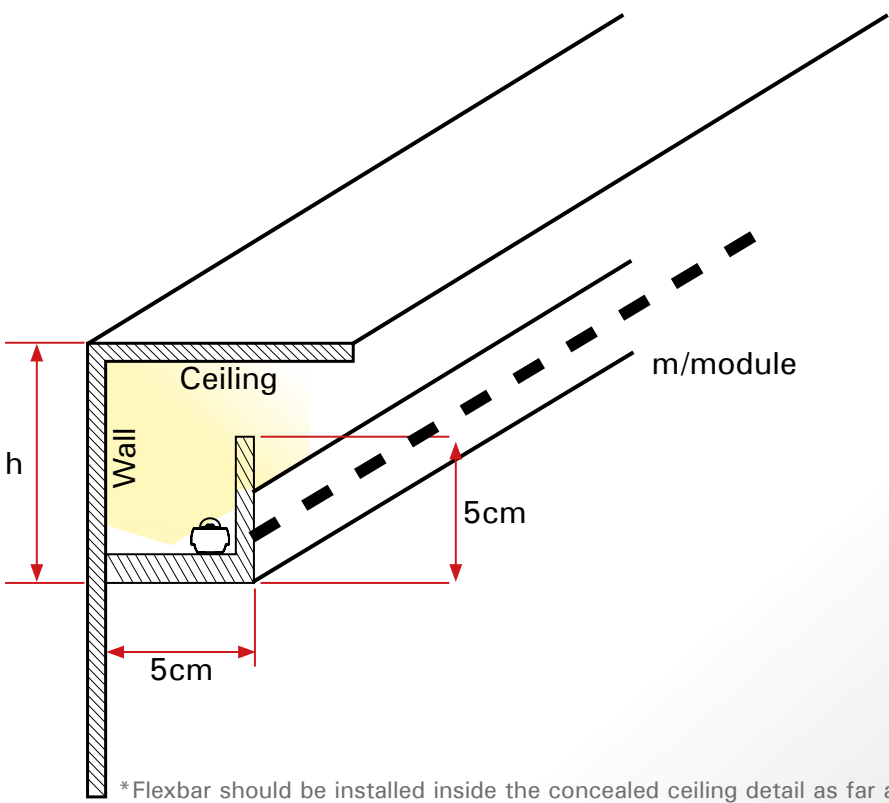


Backlight Lighting Applications



FLEXBAR Application Details

Module Selection for Wall - Ceiling Type Concealed Lighting Applications



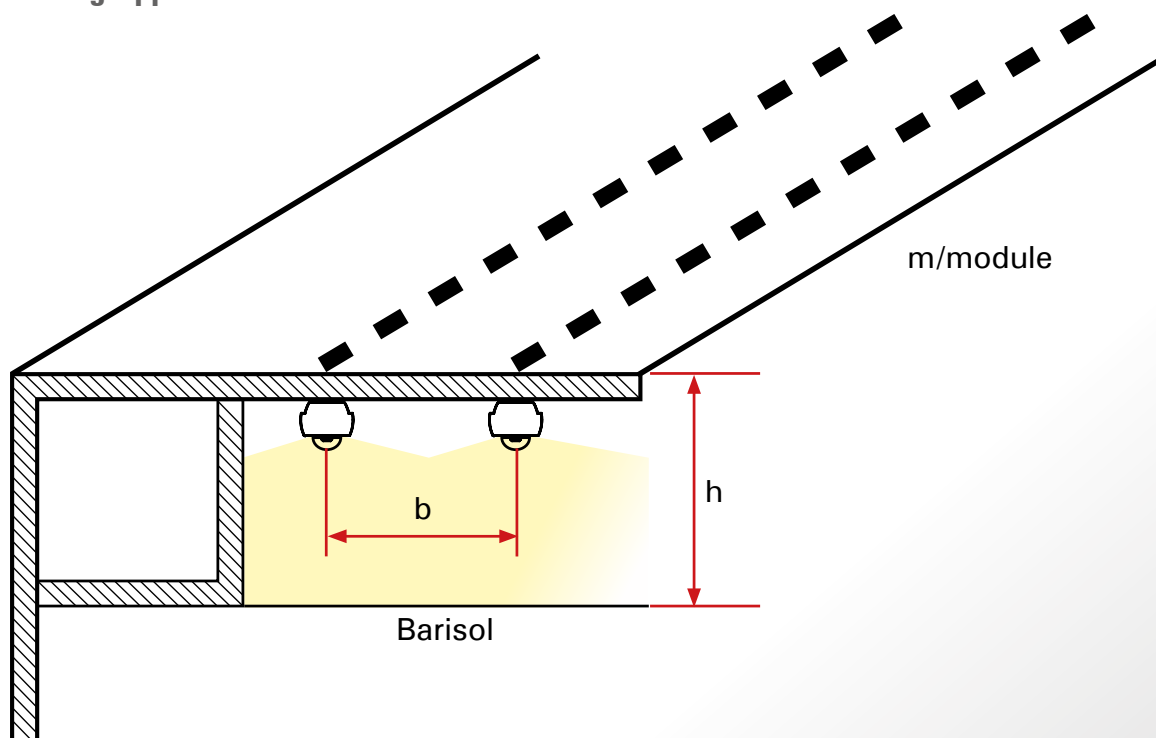
Concealed Ceiling Height min (h)	Flexbar modules per 1 meter (m/module)
10cm	9 modules/m

* Modules per meter is inversely proportional to concealed ceiling detail height.

Opal Diffuser



Module Selection for PVC Tension Ceiling Applications

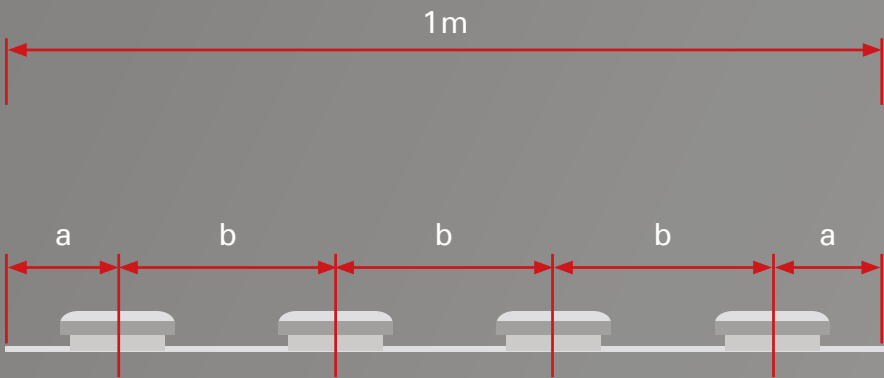
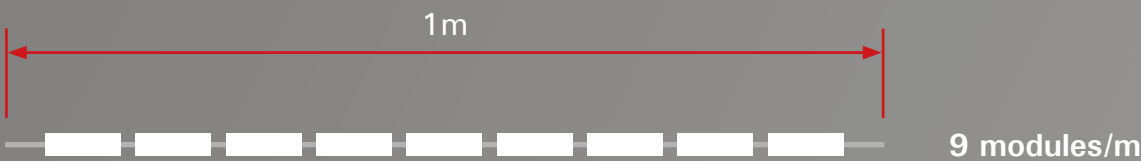


PVC Tension Ceiling Height (h)	Distance Between Flexbar Rows (b)	Flexbar Modules Per 1 Meter (m/module)
10cm	7.5cm	9 modules/m

Points to consider for PVC tension ceiling detail applications;

- 1- To achieve homogeneity at PVC tension ceiling applications, percentage of the distance between Flexbar rows and tension ceiling height should be 3/4.

Module Options



9 modules/m

a: 55mm

b: 111mm

9 modules placed on 1 metre cable

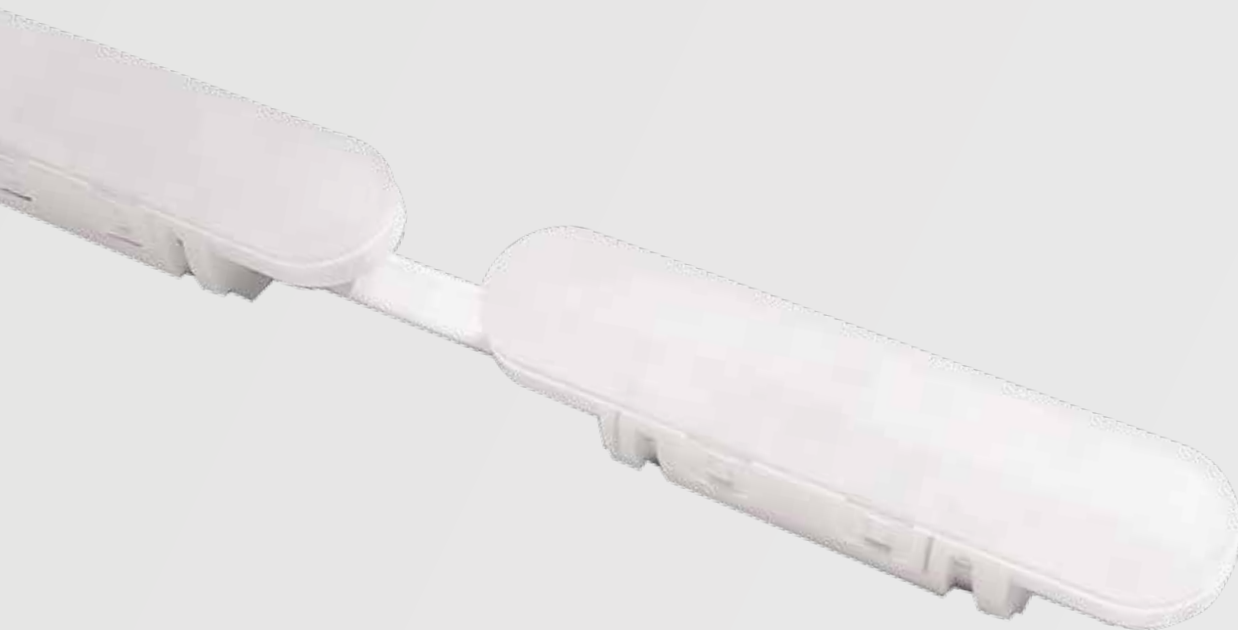
Lumen Package

1400 lm/m

Diffuser Options

Opal Diffuser





MN - WHITE



MN - COLOR











MN - RGB



FLEXBAR Product Family

Flexbar is classified into 3 different product family according to colour of the light. MN - WHITE consists of different colour temperatures, MN - COLOR consists of different light colours and MX - RGB consists of minor colours with combination of 3 major colours and white colour.

	MN - WHITE			MN - COLOR				MN - RGB
Module Options	 *	 *	 *	 *	 *	 *	 *	 *
Lumen Package Options	*	*	*					
Diffuser Options	*	*	*	*	*	*	*	*
LightingControl Options	*	*	*	*	*	*	*	*
1-3 hours Emergency Kit Option	*	*	*					



4000K

3000K

2700K

FLEXBAR MN - WHITE

Flexible concealed lighting system

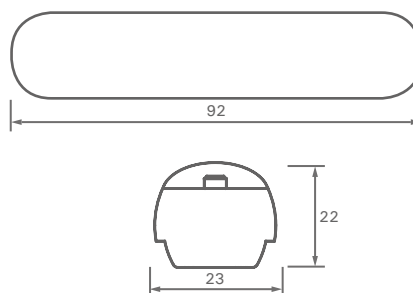
Flexbar is ideal for projects that require cost-efficiency and long-term use with its flexible structure that has given inspiration to numerous designs in concealed lighting applications.



Housing
Optic
Power Cons.
Light Source
Input Voltage
Colour Temp.
CRI
IP Value
Electronic Control
Utilization

PC housing, PC cap
Opal cap
14W/m
SMD LED
24V DC
2700K/3000K/4000K
min 80
IP20
ON/OFF, DALI
Surface mounted

Technical Drawing



Colour Temperature

☒ 2700K ☐ 3000K ☐ 4000K

Lumen Output

1400lm/m

Cap Options

Opal cap

Module

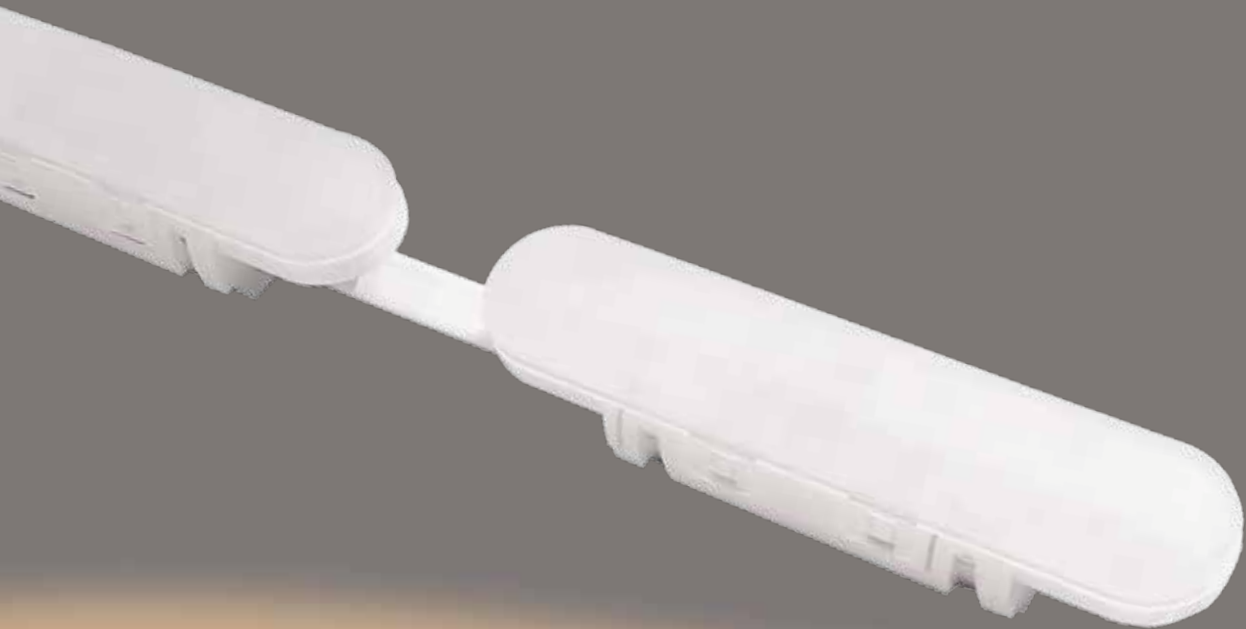
9 modules/m

Footage Options

5m, 10m Normal

Lighting Control

ON/OFF DALI



AMBER

RED

GREEN

BLUE

FLEXBAR MN - COLOR

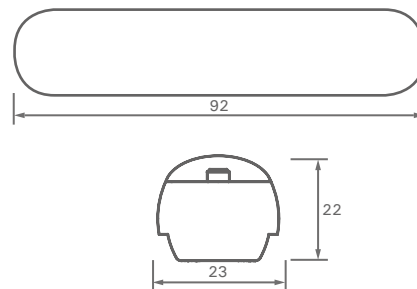
Flexible concealed lighting system

Flexbar is ideal for projects that require cost - efficiency and long - term use with its flexible structure that has given inspiration to numerous designs in concealed lighting applications.



Housing	PC housing, PC cap
Optic	Opal cap
Power Cons.	7,7W/m (Amber-Red) - 7,3W/m (Green-Blue)
Light Source	SMD LED
Input Voltage	24V DC
Colour Temp.	Amber, Red, Green, Blue
CRI	min 80
IP Value	IP20
Electronic Control	ON / OFF, DALI
Utilization	Surface Mounted

Technical Drawing



Colour Temperature



Module

9 modules/m

Lumen Options

306lm/m (Amber)	306lm/W (Red)	540lm/W (Green)	135lm/m (Blue)
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Footage Options

5m, 10m

Cap Options

Opal cap

Lighting Control

ON/OFF DALI

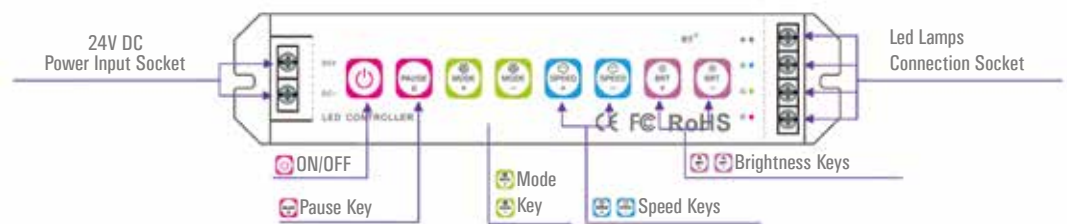
FLEXBAR MN - RGB

Flexible concealed lighting system



LED RGB Controller

RGB LED Controller, use the advanced PWM (Pulse-Width Modulation) control technique, built-in 32 kinds of changing mode. Smooth changing effect without flicker; PC engineering plastic shell, exquisite appearance.

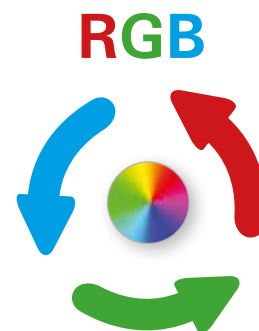


Technical Specs

Input Voltage	24V DC
Max Current Load	6A X 3CH
Max Output Power	432W (24V)
RF Remote Distance	100m
Radio Frequency	433.92 MHz
Remote Output Power	8Mw
Working Temp	30 - 35C°
Dimensions	L: 211mm W: 40mm H:30mm
Package Size	L: 313mm W: 50mm H:32 mm
Weight (G.W.)	240gr

Detailed Key Functions

8 function keys on the receiver, which is corresponding to the first 8 buttons on the RF remote: namely ON / OFF, PAUSE, MODE + , MODE- , SPEED + , SPEED- , BRT + , BRT-



Notes

[illegible]



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EAE Lighting - Brochure FLEXBAR U02 - En - Update: 09.06.2017

EAE, is provided with the right to perform changes deemed necessary without notifying in advance.
Please contact us for further information about products and details partaking in catalogue.

engineering the light