

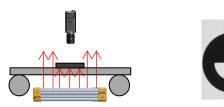


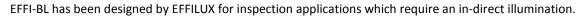
HOMOGENOUS AND POWERFUL LED BACKLIGHT

EFFI-BL

- Intense illumination
- Homogeneity
- Standard connections and fasteners
- > Anti-reflection coating on the diffusive window
- Available from 50*50 mm² to 1000*1500 mm²
- Long lifetime and few maintenance

APPLICATIONS:





Inspection: Edges measurement, absence/presence, size control...

Robotics: Object localization for pick and place.

OVERVIEW OF THE CHARACTERISTICS

Electronics	Power supply	24V DC
Liectionics	Illumination mode	
		Continuous with a DIM process [0,24V]
	Connectors	M12 4 pins
	Power consumption	Related to the dimensions
	Cable length	500mm from the side to the connector
Optics	Wavelength	Various wavelengths (blue, red, green, IR and white)
	Output window	Opalin to homogenize the light repartition
Mechanics	Thickness	43.2mm
	Dimensions	Any multiple of 50mm
	Fastener	A groove all around the device
	Material	Base and side panels : Aluminum alloy ; Diffusion plate : acrylic
Environment	Working temperature	0°C to 50°C (no condensation)
	IP code	IP54

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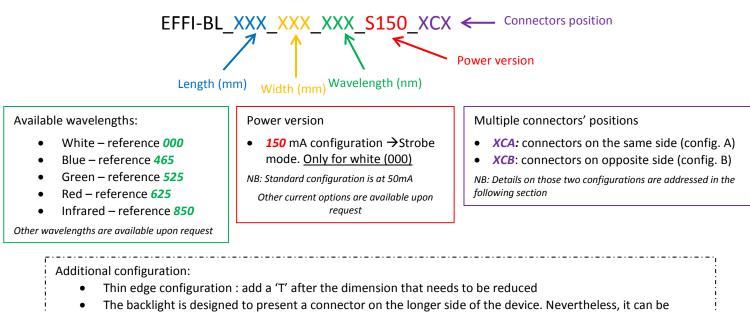
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TECHNICAL CHARACTERISTICS

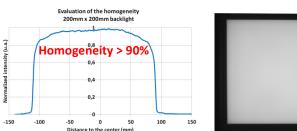
How to create the EFFI-BL?



modified and be placed on the smallest side. In this configuration, a "C" is added at the end of the device

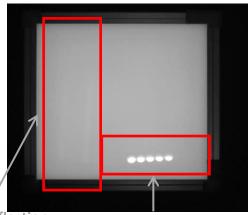
Optical characteristics

Homogeneity



Anti-reflection effect

Standard backlight



Ambient light reflection (neon light)

Bar light reflection

Pieces on the side of the device present a high contrast







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Electrical characteristics

Electrical connections of the backlight

The backlight is connected to the power supply using a 4 pins connector.

	<u>_</u>	45°
	• 2	X
	- /-	- • •
$\overline{\ }$	4)

Pin number	Cable color	Designation		
1	Brown	+24V		
2	White	n.a.		
3	Blue	GND		
4	Black	DIM – max 24V		

Make sure that you never exceed the maximum voltage. The device is supplied with a 24V (±5%) constant voltage source.



Depending on the size of the device, different configurations are considered.

White device – 50mA		Optical length (mm)											
		50	100	150	200	250	300	400	500	600	800	1000	1500
	50	2	4	5	7	9	11	14	18	21	28	35	53
	100	4	7	11	14	18	21	28	35	42	56	70	105
	150	5	11	16	21	26	32	42	53	63	84	105	158
~	200	7	14	21	28	35	42	56	70	84	112	140	210
Optical width (mm)	250	9	18	26	35	44	53	70	88	105	140	175	263
th (i	300	11	21	32	42	53	63	84	105	126	168	210	315
vidı	350	12	25	37	49	61	74	98	123	147	196	245	368
cal v	400	14	28	42	56	70	84	112	140	168	224	280	420
pti	450	16	32	47	63	79	95	126	158	189	252	315	473
0	500	18	35	53	70	88	105	140	175	210	280	350	525
	600	21	42	63	84	105	126	168	210	252	336	420	630
	800	28	58	84	112	140	168	224	280	336	448	560	840
	1000	35	70	105	140	175	210	280	350	420	560	700	1050

Power	Amount of connectors
Until 85W	1
85W to 170W	2
170W to 270W	3
270W to 370W	4
More than 370W	Specific configuration

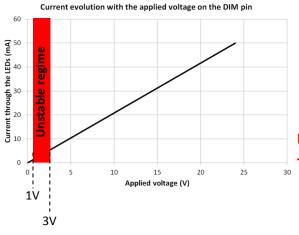
Remark: For devices operating at 150mA, the amount of connectors will have to be discussed.

Electrical behavior of the device

The DIM pin has to be used: if not, the device is OFF.

Apply a constant voltage, *lying between OV and 24V*, on this pin.

When a 24V voltage is applied, the device is at full power; if a 0V voltage is applied, the device is completely off.





Make sure that you never exceed the maximum voltage.

The device is supplied with a 24V (±5%) constant voltage source.

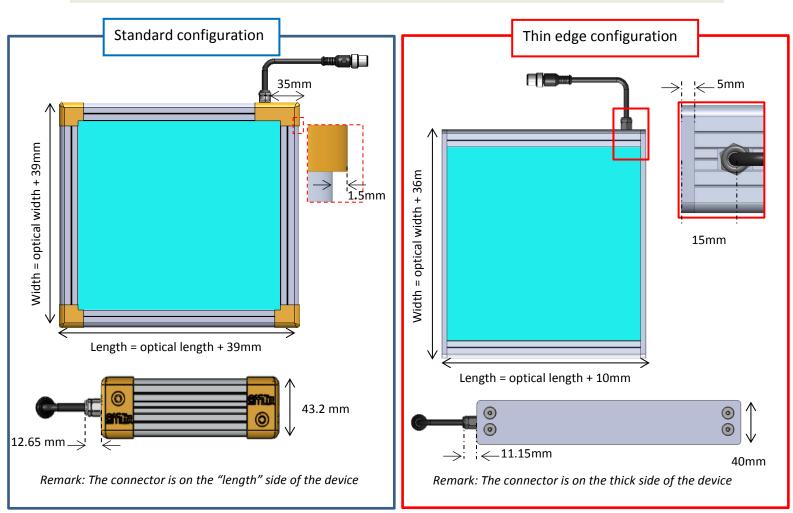
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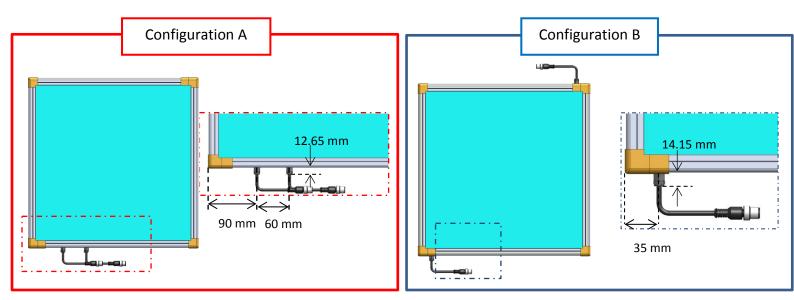


Mechanical considerations



Devices are provided with a 500mm cable.

Depending on your needs, the light system can be designed according to the following mechanical constraints.



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ACCESSORIES

	ESSORIES						
	EFFILUX reference	Description					
	EFFV-Bolt_0011	STATIS	T-nut to insert in the slot – For M6 screw				
	EFFM_1_0017	18 mm 40 mm 22,5 mm 40 mm	Bracket to fasten the EFFI-BL (no ridge) Delivered with 2 EFFV-Bolt_0011, 2 screws and 2 flat washers				
Mechanics	EFFM_1_0019	8 mm 22,5 mm 40 mm	Bracket to fasten the EFFI-BL (1 ridge) Delivered with 2 EFFV-Bolt_0011, 2 screws and 2 flat washers				
	EFFM_1_0021	8 mm 22,5 mm 40 mm	Bracket to fasten the EFFI-BL (2 ridges) Delivered with 2 EFFV-Bolt_0011, 2 screws and 2 flat washers				
	EFFM_1_0002	Denne i - sono	Fastener used to simplify the projector integration (orientation) Delivered with EFFV-Bolt_0011 and 2 M6x14 screws				
	EFFC-Cable_M12_0002 Binder : 79 343 13 04		M12 cable – 4 pins – 2m long				
<i>i</i> o	EFFC-Cable_M12_0003 Binder : 79 3430 17 04	M12 cable – 4 pins – 5m long					
Electronics	EFFC-Cable_M12_0004 Binder : 79 3430 30 04	M12 cable – 4 pins – 10m long					
Ele	EFFC-Cable_M12_0025 Phoenix : 1456938	M12 cable – 4 pins – High Flex- 1500mm long					
	EFFC-Cable_M12_0026 Phoenix : 1456941	M12 cable – 4 pins – High Flex- 3000mm long					

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