



Operating Manual / Technical Data

Rev. 00

Flex Series Barlight

Model	Item number
Flexlight Bar-030-WT-x	xxxxx.00

Flex-Series Barlight with direct light emission. An external controller is required for operation.

Safety Notes

Before working with this unit, read the warning and application instructions carefully and completely before operating the device.

Have the illuminators commissioned only in compliance with the specified protective measures. It is essential that you comply with the permissible ambient conditions. The lighting must be switched off before installation and/or maintenance. The device must not be used when a failure may cause personal injury.

The device is designed for indoor use only.



Light - Due to the risk of irritation of or damage to the eyes or skin it is not recommended to look directly into the light source.



Heat - In case of insufficient heat dissipation or when running the light in flash mode with a too high duty cycle, the surface temperature may get hot. Do not touch the product during operation or immediately after it is turned off. Keep off flammable materials at any time and allow for sufficient heat dissipation.



Electricity - The housing is electrically isolated from the ground of the power supply. Exceeding the permissible input voltage U_{in} or using the U_b input for steady light can lead to the destruction of the device or to a significant shortening of the lifetime of the LEDs in the device.



Usage - Please prevent mechanical stress to the light surface during operation. This will lead to an inhomogeneous light emission.

Cleaning - The light emission surface has to be cleaned with a standard glass cleaner and a soft cleaning cloth. Do not use other material for cleaning as it will damage the device.

Specification

Flexlight Bar-030-WT-x

Luminous area (A x B)	15mm x 300mm
Outer Dimension (W x L x D)	40mm x 322mm x 40mm
Color / Wavelength	White, 5000K, CRI80
Light Emission	direct light emission
Connector	1x M12x1 5-Pin connector for LED+ and LED-
Controller	-x (w/o internal controller - an external power supply or controller is needed)
Uled(+) range ¹⁾	17 ... 20 VDC
Recommended LED current (entire light):	
- Steady light (100% duty cycle)	600mA
- Flash light (50% duty cycle, <500ms pulse)	1200mA
- Flash light (25% duty cycle, <50ms pulse)	1800mA
Material	Anodized aluminum housing with PMMA light cover and end caps
Weight	700 g
Ambient temperature (recommended)	10°C to 30°C
Humidity (recommended)	30% to 70%, not condensing
Degree of protection	IP 40
Certifications	CE, RoHS

¹⁾ Lower voltage value refers to steady light, higher voltage value refers to flash light, please see max. allowed current in the rows below

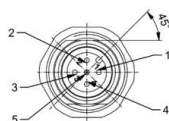
Electrical Connection

The Flexlight Bar has an M12 connector and must be operated via an external controller, e.g. CTR-50.

Pin	Wire ¹⁾	Direct (-x) ²⁾
1	brown	LED (+)
2	white	LED (+)
3	blue	LED (-)
4	black	LED (-)
5	green-yellow	not used

¹⁾ Wire color of MBJ lighting cable

²⁾ Connection without external LED controller may destroy the unit



Connection to a CTR-50 for steady light:

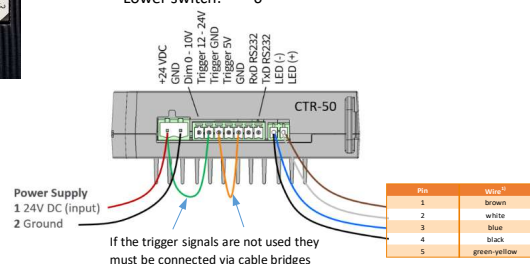
Setting of the rotary switches: upper for A, lower for 100mA.



Settings for Flexlight Bar-030-WT-x steady light mode:

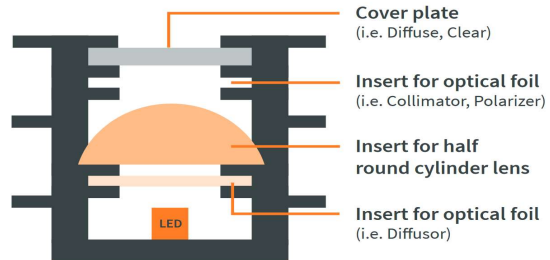
Upper switch: 0

Lower switch: 6



Optional optical configuration

If your light was designed with optical filters, the light will be delivered already equipped with these. In case the optical filters need to be adapted or filters need to be replaced only open the device on the side without connector. Make sure not to overtighten the screws. Only open the light in exceptional cases. The device is not designed for constant changing of optics.



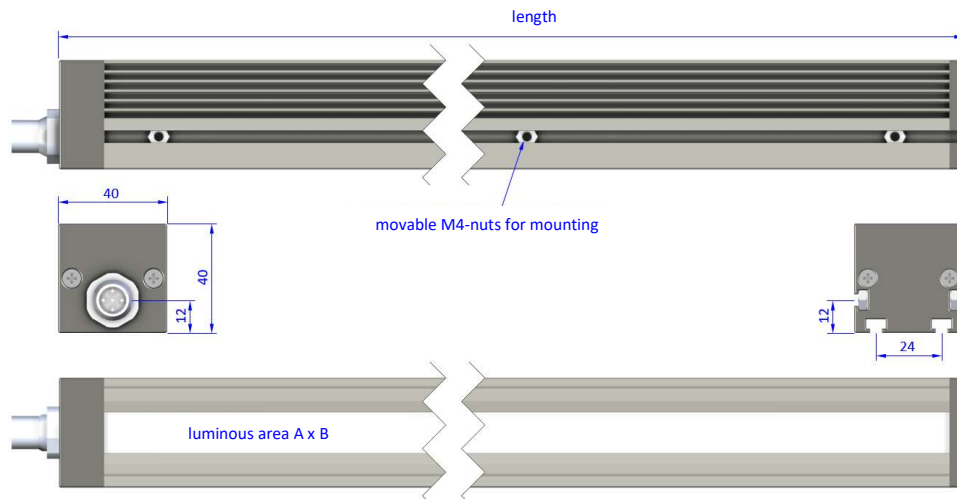
LED/Color options			Options for optical adaptations			
LED	Abbr. ¹⁾	Peak Wavelength ²⁾	Abbr. ¹⁾	Explanation	Abbr. ¹⁾	Explanation
White	-WT	5000K, CRI80	-d	optical foil diffuse 90°	-tc	top cover clear
Red	-RD	near 625nm	-dl	optical foil diffuse line	-td	top cover diffuse
Infrared	-IR	near 850nm	-c1	linear control Film 9°		
Green	-GN	near 525nm	-p	optical foil polarized		
Blue	-BE	near 465nm	-ol	optical rod line		
Yellow	-YE	near 580nm				

¹⁾ Color and optical options will be added to the model name after the size information.

²⁾ This is an approximated value. The exact value also depends on LED temperature and LED current

Mechanical data

The Flexlight Bar has 4 grooves for M4 nuts for mounting. It can be used to fix the lighting to the specified position. To ensure a long operational live time of the light, additional heat transfer measures at the mounting positions are highly recommended.



*Schematic illustration. For the exact dimensions of Flexlight Bar-030-WT-x please refer to the individual 2D/3D drawing.