

**Flex Series Toplight**



Model	Item number
Flexlight Top-4060-WT-x-1h	00000.00

Flex-Series diffuse Toplight with side fired LEDs. 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 Top-4060-WT-x-1h**

Luminous area (A x B)	400mm x 600mm
Outer Dimension (W x L x D)	442mm x 642mm x 17mm
Lens hole (D = diameter)	1 lens hole(s), Ø 45mm
Color / Wavelength	White, 5000k, CRI80
Light Emission	Diffuse light emission with side fired LEDs
Connector	2x4-pole connection cable for LED+ and LED-
Controller	-x (w/o internal controller - an external power supply or controller is needed)
Uled(+) range <sup>1)</sup>	17 ... 20 VDC
Recommended LED current (entire light):	
- Steady light (100% duty cycle)	3000mA
- Flash light (50% duty cycle, <500ms pulse)	6000mA
- Flash light (25% duty cycle, <50ms pulse)	9000mA
Material	Anodized aluminium housing with 3mm aluminium backplate, PMMA light cover and corner caps
Weight	7,00 kg
Ambient temperature (recommended)	10°C to 30°C
Humidity (recommended)	30% to 70%, not condensing
Degree of protection	IP 40
Certifications	CE, RoHS

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

**LED/Color options**

LED	Abbr. <sup>1)</sup>	Peak Wavelength <sup>2)</sup>
White	-WT	5000K, CRI80
Red	-RD	near 625nm
Infrared	-IR	near 850nm
Green	-GN	near 525nm
Blue	-BE	near 465nm
Yellow	-YE	near 580nm

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

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

### Electrical Connection

Due to the slim design and the required LED current, external controllers are needed for operation, such

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

<sup>1)</sup> Wire color of MBI lighting cable

<sup>2)</sup> Connection without external LED controller may destroy the unit

### Connection to a CTR-50 for steady light:

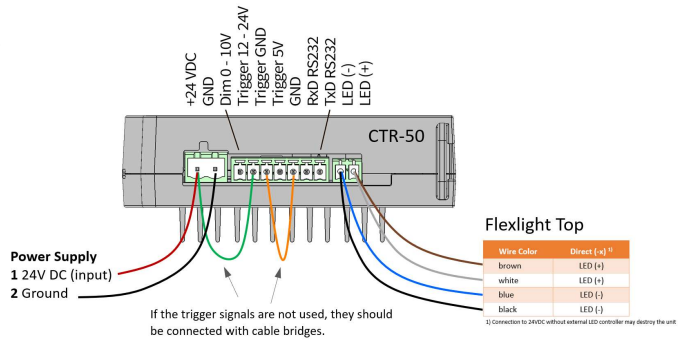
Setting of the rotary switches for Flexlight Top-4060-WT-x-1h for steady light m

Set the CTR-50 to:

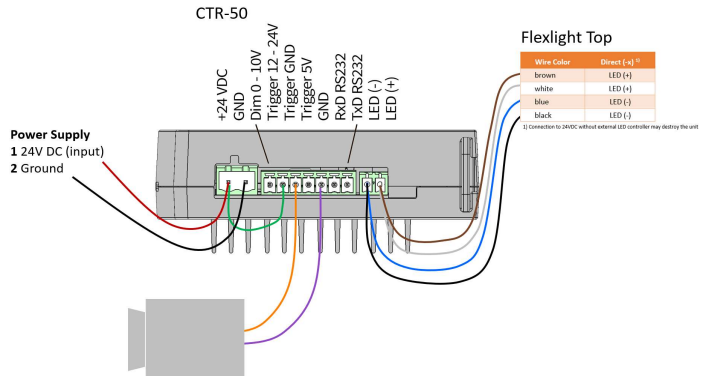
Upper switch [A]: 3  
Lower switch [100mA]: 0



The CTR-50 can be used up to a max total current of 4A.



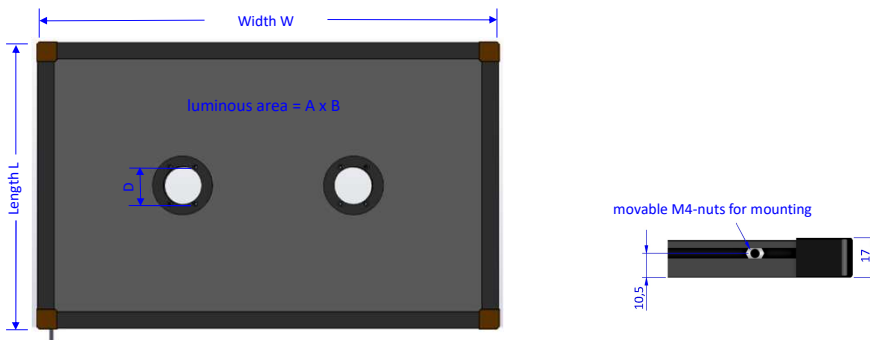
### Connection to a CTR-50 with triggered signal:



### Mechanical data

The Flexlight Top has grooves around the device with M4 nuts for mounting. To remove or add M4 hexagon nuts, you can loosen the corners without cable. Do not loosen corners with cables, because they are glued. Loosening can cause damage to the internal electrical connection.

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, lens hole diameter, lens hole and cable position of Flexlight Top-4060-WT-x-1h please refer to the individual 2D/3D drawing.