

Bar Lighting

SBL Series

Innovative LED lighting
for machine vision



Bar lightings in
various colors and lengths

- High light efficiency
- LED controller inside
- Easy-to-use
- Cost saving

The main advantage of bar lightings is their flexibility. Bars are very often used for incident light in bright field, but can also be used for dark field applications. The new integrated LED controller (-s) with four operation modes, allows an easy integration into any inspection set-up.

Bar Lighting - SBL Series

Bars with direct light emission for various applications

The narrow bar lights can be used in many different ways. When used as a top light many irradiation angles can be realized with one, two or even four bar lights surrounding an object. It is also ideal when the space for the setup is limited. With a flat irradiation angle dark field applications are possible. In a dark field setup light is only back reflected into the camera when an object changes the path of the light. They are also suitable for simple line scan camera applications as line illumination.

All illuminations of the SBL series are designed for use in the automation industry: the LEDs are installed in a stable, black anodized aluminum housing, the radiation is emitted through a 10mm wide protective acrylic glass screen and the electrical connection is made via an M8 connector, which is widely used in the automation industry.

With an optional foil holder set, additional light beam filters can easily be attached to the lighting. Available filters: wide diffusion, elliptical diffusion, linear polarization and collimation to a 35° beam.

MBJ offers white 5000K (CRI80), red, infrared, green, blue, and yellow LED colors in the standard program, with the white, red, and infrared LED being available from stock.



The SBL series is equipped with one threaded M4 hole at each end of the bar for mounting. In addition, M2.5 threaded holes are provided to attach the foil holder at the two long sides. For all our lighting 2D and 3D files are available for download on our website.

Specification			
Material	Anodized aluminum housing	Certifications	CE, RoHS
Connector	M8 socket, male, 4 pin	Degree of Protection	IP54
Supply voltage	24 V DC +/- 5%	Humidity	30% to 70%
Op. Temperature	10° Celsius to 30° Celsius	Accessories	Mountings, Filterholder, Filters

Standard Model	Light field	Dimension	LED color ¹	Steady power	Price from ²
SBL-0110	10x100 mm	18x110x20 mm	WT, RD, IR, GN, BE, YE	3.0 W	135 €
SBL-0115	10x165 mm	18x175x20 mm	WT, RD, IR, GN, BE, YE	5.0 W	160 €
SBL-0120	10x200 mm	18x210x20 mm	WT, RD, IR, GN, BE, YE	6.0 W	185 €
SBL-0130	10x300 mm	18x310x20 mm	WT, RD, IR, GN, BE, YE	8.0 W	235 €
SBL-0140	10x400 mm	18x410x20 mm	WT, RD, IR, GN, BE, YE	11.0 W	280 €
SBL-0150	10x500 mm	18x510x20 mm	WT, RD, IR, GN, BE, YE	14.0 W	350 €

1) WT=white, RD= red, IR= infrared, GN=green, BE=blue, YE=yellow. Other LED colors on request

2) Price for a white LED, plus VAT and transportation costs

Operation Modes	Mode description
(-s) internal controller with 4 operation modes	24V steady light, dimmable steady light, triggered light and triggered flash light with up to 100% more intensity
(-x) no controller	External LED control is required