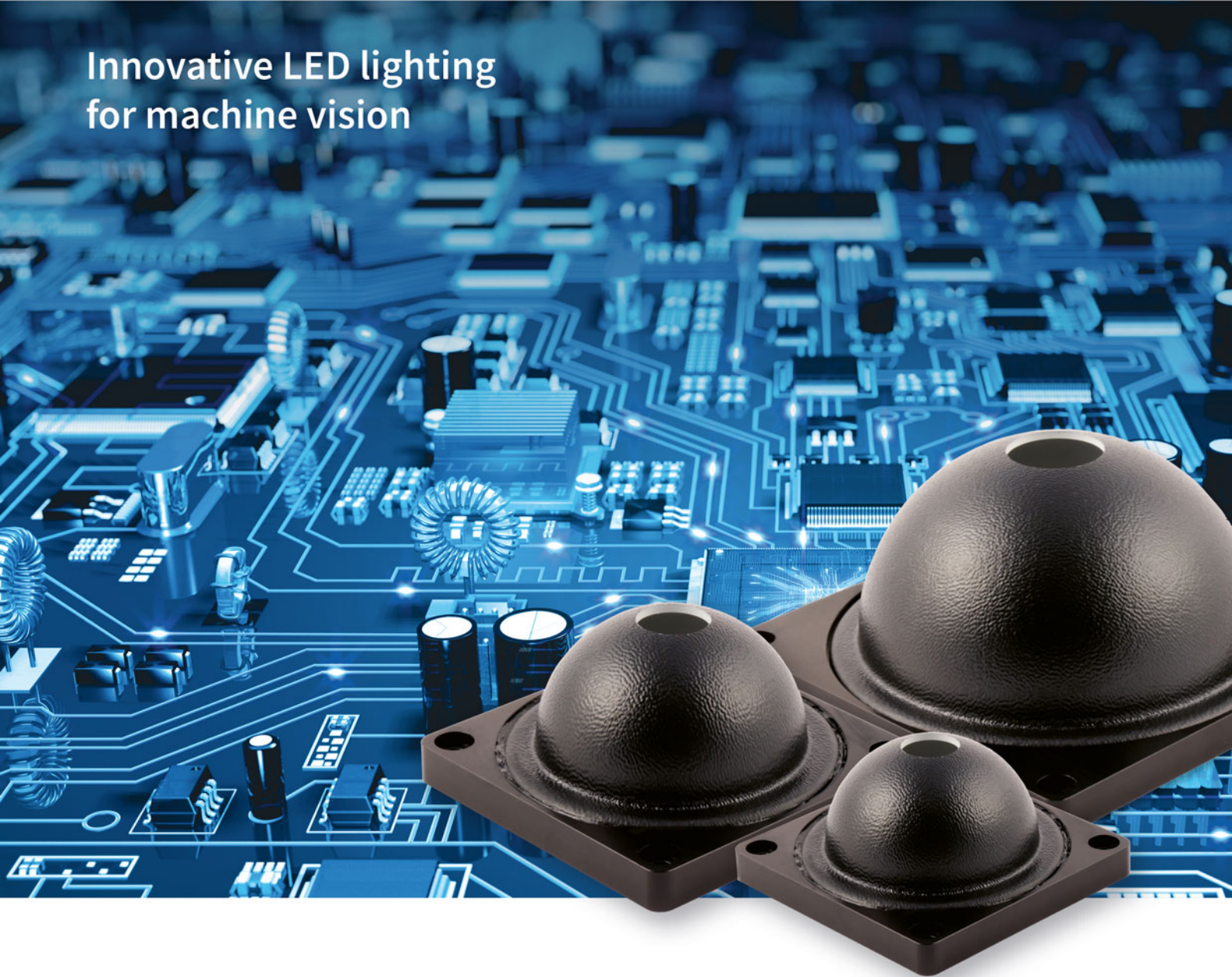


Dome Lighting

SDL Series

Innovative LED lighting
for machine vision



Homogeneous incident lighting
in various light field diameters and colors

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

The inspection object is illuminated indirectly by the light back reflected from the white inner dome, resulting in an almost shadeless lighting. The integrated LED controller (-s) with four operation modes, allows an easy integration into any inspection set-up.

Dome Lighting - SDL Series

Homogeneous light emission for various applications

Dome lights illuminate an object indirectly at a close range from the top, while the camera observes the object through the lens opening of the dome. An LED light ring at the base of the dome, shining up, is back reflected from the inner white wall of the dome producing, a perfectly homogenous indirect illumination. The resulting almost shadeless illumination is ideal for inspecting highly reflective surfaces, such as printed foils or polished metals.

All illuminations of the SDL series are designed for use in the automation industry: the LEDs are installed on a stable, black anodized aluminum housing, the radiation is emitted as back reflection from the plastic dome. The electrical connection is made via an M8 connector, which is widely used in the automation industry.

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 SDL series is equipped with four M5 threaded through holes (M4) at each corner for mounting.



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	Cables, lens hole adapter

Standard Model	Luminous area	Dimension	LED color ¹	Steady power	Price from ²
SDL-05	Ø 50 mm	100x100x52 mm	WT, RD, IR, GN, BE, YE	6.0 W	260 €
SDL-10	Ø 100 mm	150x150x80 mm	WT, RD, IR, GN, BE, YE	8.0 W	360 €
SDL-20	Ø 200 mm	250x250x129 mm	WT, RD, IR, GN, BE, YE	16.0 W	560 €
SDL-30	Ø 300 mm	350x350x179 mm	WT, RD, IR, GN, BE, YE	22.0 W	980 €

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