



Machine Vision Light Source

HIGHLIGHTS

- High brightness > 60.000 cd/m²
- Small size 6 or 15mm diameter
11mm height
- Fast < 200 ns
(Rise time 10-90%)
- Homogeneous < ± 15% over
surface
- Long lifetime 50 000 h MTBF

PROPERTIES

The MVLS series of white light sources employ high power, high efficiency, fluorescence shifted LEDs. Through an integral design of LED, reflector housing and diffusing, intensity shaping optics, an unsurpassed homogeneity of < ± 15% luminance over the whole emitting surface has been realized in a very compact unit.

The MVLS-1-6 has a 6mm diameter emitting surface and the MVLS-1-15 emits from a 15mm diameter aperture.

APPLICATIONS

- Machine vision systems
- Fibre bundle light sources
- Quality control
- OEM

FIELDS OF APPLICATION

These compact, high brightness, white light sources may be used for illumination in machine vision systems and quality control applications. The homogeneity of the source provides for proper illumination over the full field of view.

In OEM applications, the very small size of the source allows for simple integration. With a mean-time-between-failure (MTBF) of 50 000 hours, your system will operate maintenance free for years of operation.

Fibre bundle light sources gain from the simplicity of the design. Just butt the fibre bundle to the MVLS and go. No complicated coupling optics are required. The high efficiency of the source allows simple convection cooled designs.

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**Attention: The MVLS series of light sources provide a very high brightness output.
Never look directly into the source!**

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