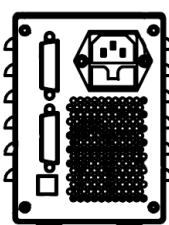




LLS 2 - LLS Light Source



LLS 2 - LLS Light Source, Rear View shows (from left to right): universal power input, multi-port input, Ethernet input, RS-232 input

Making use of the fast progress in LED technology, SCHOTT offers its new LLS 2 LED light source for machine vision applications, outclassing conventional lighting techniques.

NOTE:

External control pin layout compatible with Moritex halogen light sources. Please follow standard safety procedures when operating the LLS 2 Light Source

LLS 2 - LED Light Source

Long Life, Low Energy Consumption, High Performance

Standard Features

- Long life-time (more than 50,000 hours) (*)
- Low power consumption: 35 watts (max.)
- Light output (**): 175 klx at active diameter 8 mm
- Color temperature: 5,500 K
- Accepts light guides up to 13 mm
- External strobe capabilities: minimal pulse duration 200 μ s at 20% duty
- Voltage input: 90 VAC to 260 VAC (50/60 Hz)
- Optical output: optimized for 4 - 10 mm
- Uniformity of light spot: Gaussian like light distribution shape
- RoHS compliant
- CE Approved

Characteristics	
Dimensions	Length 240 mm (9.45 in) Widths 85 mm (3.35 in) Height 120 mm (4.72 in)
Weight	2,1 kg (4.62 lbs)
Operating Temperature	- 10° C (+ 14°F) to 40° C (104°F) (humidity 20% to 90%)
Storage Temperature	- 40° C (- 40°F) to + 80° C (+ 176°F) (humidity 10% to 95%)
Cooling Method	Forced Air Cooling (fan)
Housing	Powder painted steel

Control Characteristics	
Manual Control Interfaces (front)	On / Off switch Manual / remote switch Brightness control LED status indicator lights
Electronic Control Interface (back)	Analog Input: 0 - 5 V (intensity) Digital input (8 bit parallel) intensity, invertible logic
For Remote Control	Remote light On / Off (invertible logic) Error signal outputs: over - temperature, over-current. Galvanically insulated digital inputs and outputs (opto couplers)

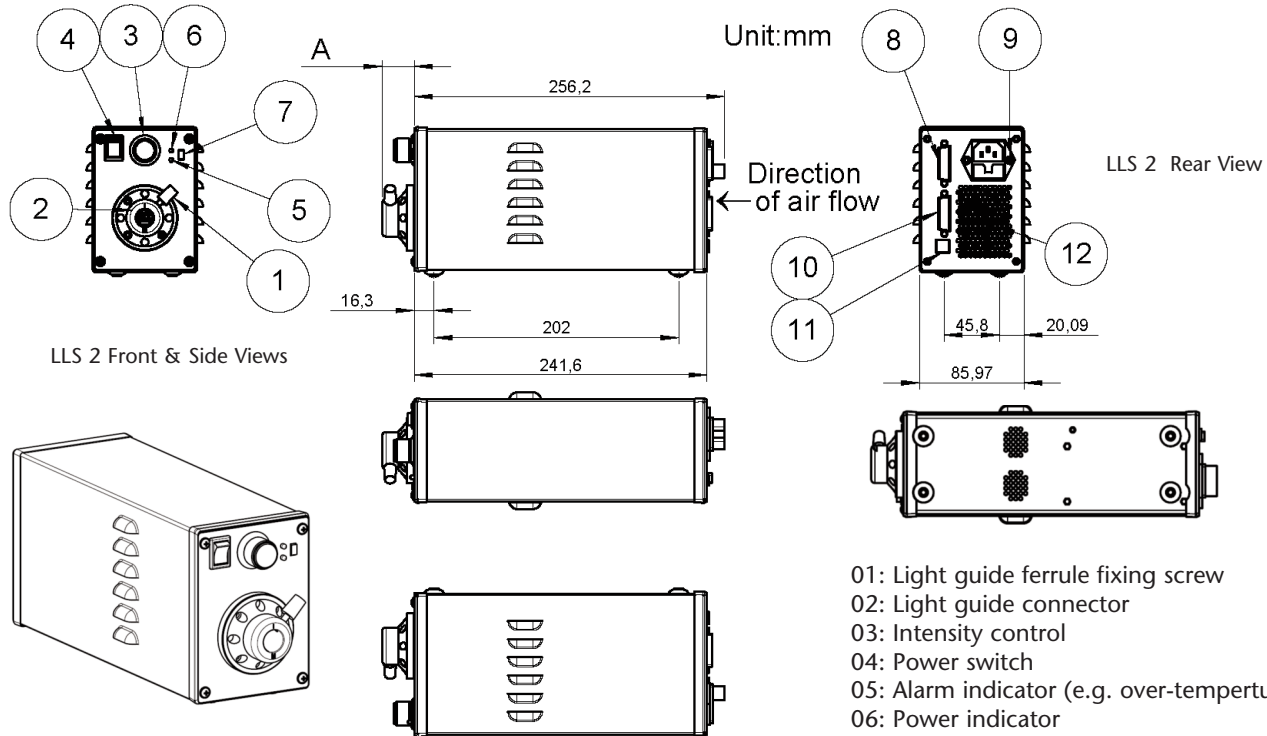
(*): 70% drop of intensity according to LED supplier
(**): Measured after 1,100 mm long light guide at 50 mm distance



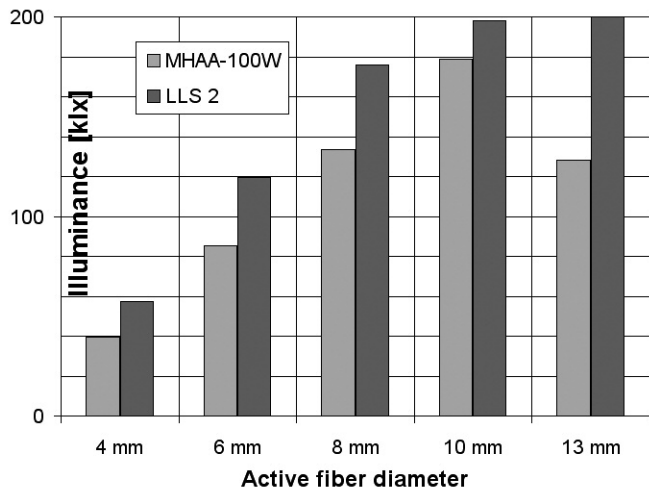
LLS 2 - LED Light Source

Dimensions in () are in mm

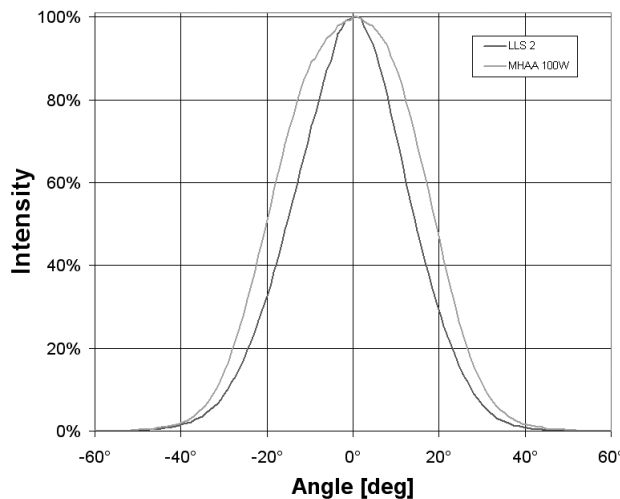
Product improvements may result in specification or feature changes without notice.



- 01: Light guide ferrule fixing screw
- 02: Light guide connector
- 03: Intensity control
- 04: Power switch
- 05: Alarm indicator (e.g. over-temperature)
- 06: Power indicator
- 07: Remote / manual switch
- 08: Analog interface
- 09: AC power supply inlet
- 10: Digital interface
- 11: Dip switches
- 12: Cooling air intake



Illuminance of LLS 2 and Halogen Light Source at 50 mm distance



Angular Light Distribution with 10 mm Light Guide

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