

**NEW!**  
**Long Life!**  
**Low Energy Consumption!**  
**High Performance!**

# SCHOTT LLS 2 – LED Light Source

Long Life, Low Energy Consumption, High Performance

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:

- **Long life-time (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 active diameter**
- **External strobe capabilities: minimal pulse duration 50 µs**
- **Voltage input: 100 VAC to 240 VAC nom. (50/60 Hz)**
- **Optical output: optimized for 4–10 mm**
- **Uniformity of light spot: Gaussian like light distribution shape**
- **RoHS compliant**
- **CE approved**

(\*): 70 % of initial luminous flux according to LED supplier

(\*\*): Measured after 1,100 mm long light guide at 50 mm distance



## Characteristics

Dimensions	Length 240 mm (9.45 in) Width 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 +45° C (+113° 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
Part Number for Ordering	1233436

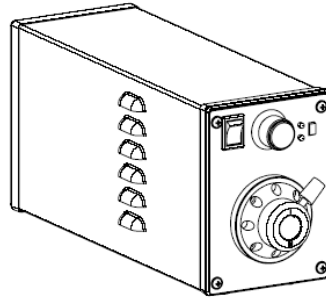
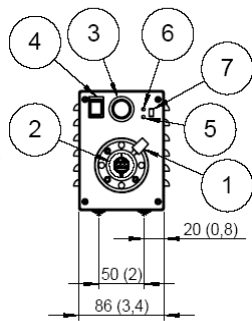
## Control Characteristics

Manual Control Interface (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)
Remote Control	Remote light On / Off (invertible logic) Error signal outputs: over- temperature, over-current. Galvanically insulated digital inputs and outputs (opto couplers)

### NOTE:

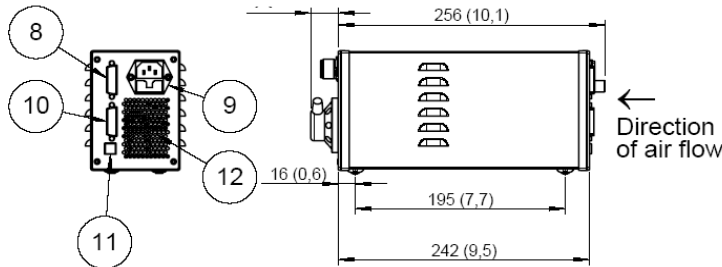
External control pin layout compatible with Moritex halogen light sources. Please follow standard safety procedures when operating the LLS 2 Light Source





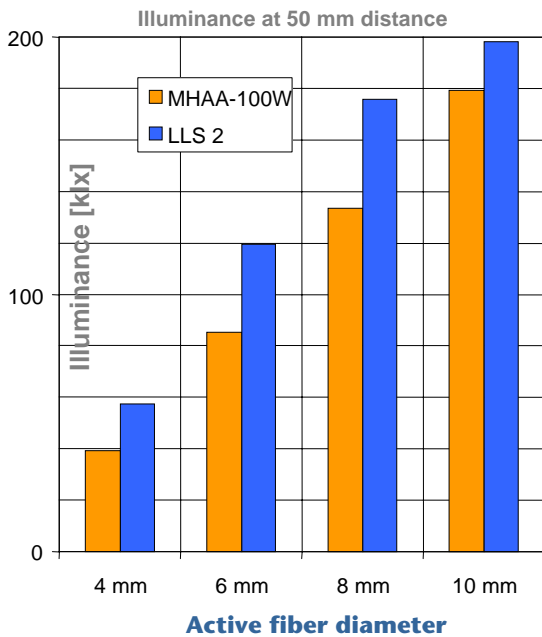
- 1: Light guide ferrule fixing screw
- 2: Light guide connector
- 3: Intensity control
- 4: Power switch
- 5: Alarm indicator (e.g. over-temperature)
- 6: Power indicator
- 7: Remote/ manual switch

Unit: mm (inch)

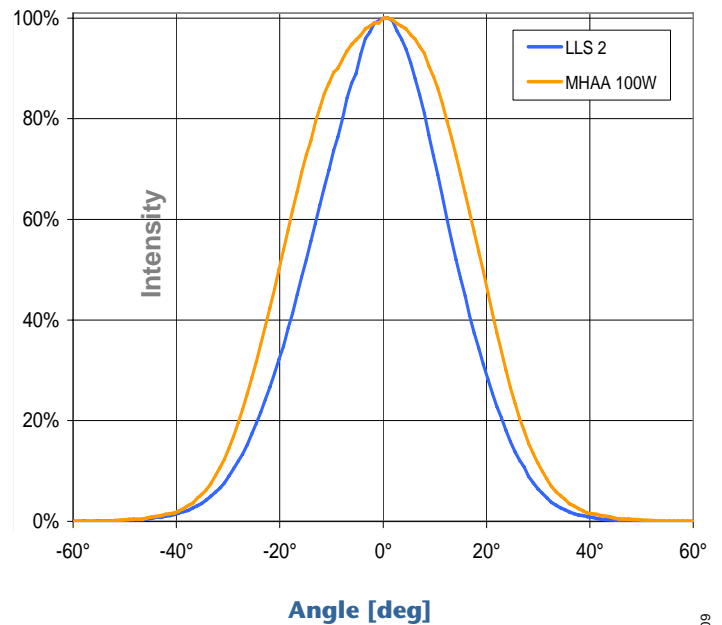


- 8: Analog interface
- 9: AC power supply inlet
- 10: Digital interface
- 11: Dip switches
- 12: Cooling air intake

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



### Angular Light Distribution with 10 mm Light Guide



### For more information please contact:

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