

5MM-S88-0.8+25CM-639-5-H18-A4.5-S-6

Compact Laser Macro Focus Generator with approx. circular beam profile

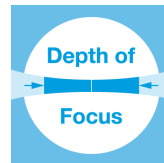


FEATURES

Compact Laser spot with approx. circular beam profile and extended depth of focus.

- Spot diameter: 0.121 x 0.115 mm
- Wavelength: 639 nm
- Working distance: 82 mm
- Depth of focus: 34.5 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5MM-S88-0.8+25CM-639-5-H18-A4.5-S-6 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

The laser has integrated electronics [type S](#) for control of the laser output power. The output power can be controlled using the [modulation input ports \(TTL and analog\)](#), or manually using the potentiometer.

The working distance can be adjusted by adjusting the focus setting. Please note that the spot diameter increases proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5MM-S88-0.8+25CM-639-5-H18-A4.5-S-6

| | | |
|---------------------------|-------------------------------------|--------------|
| Series | 5MM | |
| Order Code | 5MM-S88-0.8+25CM-639-5-H18-A4.5-S-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 639 +10/-10 nm | |
| Laser output power | 5 mW | |
| Laser safety class | 3R | |
| Focussing range | 70-125 mm | |
| Working distance | 82 mm | |
| Spot height | 0.115 mm | |
| Spot width | 0.121 mm | |
| Depth of focus | 34.5 mm | |
| Diameter laser module | 12 mm | |
| Module length | 65.4 mm | |
| Installation length | 177.4 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | 5 ± 0.25 V | |
| Max. current consumption | 0.25 A | |
| Working temperature | 0 - 40 °C | |
| Modulation inputs | Analog | TTL |
| Input resistance | 22 kOhm | 22 kOhm |
| Max. modulation frequency | 50 kHz | 1000 kHz |
| Modulation delay ON/OFF | 4/0.5 µs | 0.05/0.05 µs |
| Rise / Fall time | 5/4 µs | 0.1/0.02 µs |

ACCESSORIES

| | |
|-----------|---|
| 60EX-4 | Eccentric key with a stroke of ± 0.5 mm. |
| 60EX-4-L | Alternative eccentric key with long handle with a stroke of ± 0.5 mm. |
| 9D-12 | Screwdriver WS 1.2 |
| PS051003E | Power Supply 5 V |

RELATED PRODUCTS

**LASER MODULES
SERIES 5M**

- **Compact** Laser Micro Focus Generator
- Elliptical Gaussian beam profile

**LASER MODULES
SERIES 13MMC**

- Laser Macro Focus Generator
- **Rotationally symmetric** beam profile
- Extended depth of focus

**LASER MODULES
SERIES 13MM**

- Macro Focus Generator
- **Circular** beam profile
- Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/5MM-S88-0_8_25CM-639-5-H18-A4_5-S-6 from 5/6/2024

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