5MM-S88-0.8+25CM-635-3-H10-A4.5-S-6

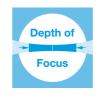
Compact Laser Macro Focus Generator with approx. circular beam profile



FEATURES

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

- Spot diameter: 0.12 x 0.114 mm
- Wavelength: 635 nm
- Working distance: 82 mm
- Depth of focus: 34.2 mm
- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5MM-S88-0.8+25CM-635-3-H10-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 <u>type S</u> for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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-635-3-H10-A4.5-S-6



DATA SHEET

| Series | | 5MM |
|---------------------------|-------------------------------------|--------------|
| Order Code | 5MM-S88-0.8+25CM-635-3-H10-A4.5-S-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 635 +10/-10 nm | |
| Laser output power | 3 mW | |
| Laser safety class | 3R | |
| Focussing range | 70-125 mm | |
| Working distance | 82 mm | |
| Spot height | 0.114 mm | |
| Spot width | 0.12 mm | |
| Depth of focus | 34.2 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 \pm 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 <u>https://sukhamburg.com/products/details/5MM-S88-0_8_25CM-635-3-H10-A4_5-S-6</u> from 4/30/2024

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