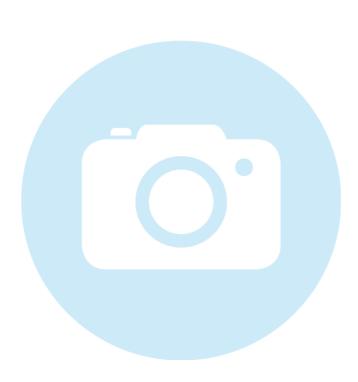
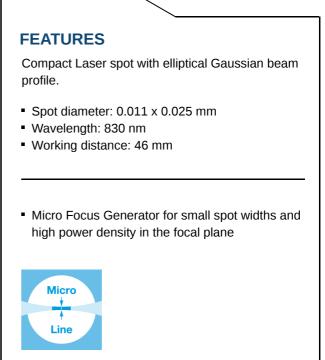
5M-S50+55CM-830-35-H19-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





DESCRIPTION

The laser diode beam source type 5M-S50+55CM-830-35-H19-A8-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type C</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

5M-S50+55CM-830-35-H19-A8-C-6

Series

5M



DATA SHEET

| Laser output power 35 Laser safety class 35-70 Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1 | Order Code 5M-S50+55CM-830- | -35-H19-A8-C-6 | |
|---|-------------------------------------|------------------------------|--|
| Laser output power 35 Laser safety class 35-70 Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1 | Line profile Gaussian Inter | nsity Distribution | |
| Laser safety class Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1 | Wavelength | 830 +10/-10 nm | |
| Focussing range35-70Working distance46Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3 | Laser output power | 35 mW | |
| Working distance46Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3 | Laser safety class | 3B | |
| Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2Supply voltage5 ± 0Max. current consumption0.3 | Focussing range | 35-70 mm | |
| Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0.3 | Working distance | 46 mm | |
| Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2Supply voltage5 ± 0Max. current consumption0.3 | Spot height | 0.025 mm | |
| Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3 | Spot width | 0.011 mm | |
| Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3 | Rayleigh range | 0.217 mm | |
| Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3 | Diameter laser module | 25/28 mm | |
| Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3 | Module length | 73.1 mm | |
| Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3 | Installation length | 149.1 mm | |
| Supply voltage 5 ± 0 Max. current consumption 0.2 | Cable length1.5 m | | |
| Max. current consumption 0.2 | Connector type Lumberg SV50 IE | Lumberg SV50 IEC 61076-2-106 | |
| · · · · · · · · · · · · · · · · · · · | Supply voltage5 ± 0.2 \ | | |
| | Max. current consumption | rent consumption 0.25 A | |
| Working temperature 0 - 4 | 0 - 40 °C | | |
| Modulation inputs Analog | Modulation inputs Analog | TTL | |
| Input resistance22 kOhm22 kO | Input resistance 22 kOhm | 22 kOhm | |
| Max. modulation frequency100 kHz100 | Max. modulation frequency100 kHz | 100 kHz | |
| Modulation delay ON/OFF1/0.5 μs2/ | Modulation delay ON/OFF1/0.5 μs | 2/1 µs | |
| Rise / Fall time 3/2 μs 3/ | Rise / Fall time3/2 µs | 3/2 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 |

RELATED PRODUCTS





| LASER MODULES SERIES 5MM | Compact Laser Macro Focus Generator Circular beam profile and Extended depth of focus |
|------------------------------|---|
| LASER MODULES SERIES 13MC | Micro Focus Generator Rotationally symmetric, Gaussian beam profile |
| LASER MODULES SERIES 5MC | Compact Laser Micro Focus Generator Rotationally symmetric, Gaussian beam profile |
| LASER MODULES SERIES 13M | Micro Focus GeneratorElliptical Gaussian beam profile |

This is a printout of the page <u>https://sukhamburg.com/products/details/5M-S50_55CM-830-35-H19-A8-C-6</u> from 5/2/2024

CONTACT

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