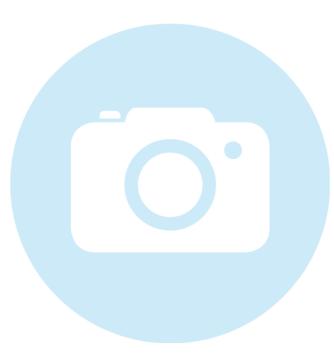
13LR12-S000+55CR-660-100-M25-T12-P-6

Laser Micro Line Generator with a fan angle



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DESCRIPTION

The laser diode beam source type 13LR12-S000+55CR-660-100-M25-T12-P-6 has a fan angle of 12° with a constant line width and approx. uniform intensity distribution along the laser line.

The fine-structure is a <u>chain of equidistant dots</u> with a spacing of approx. the line width. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type P</u> with micro-controller 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 beam parameters like line length and line width increase proportionally to the working distance.



A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

13LR12-S000+55CR-660-100-M25-T12-P-6

| Series | | 13LR |
|---------------------------|--------------------------------------|------------|
| Order Code | 13LR12-S000+55CR-660-100-M25-T12-P-6 | |
| Line profile | Constant Intensity Distribution | |
| Line type | Laser Micro Line | |
| Wavelength | 660 +4/-6 nm | |
| Laser output power | 100 mW | |
| Laser safety class | 3В | |
| Fan angle α | 12 deg | |
| Focussing range | 1300-inf mm | |
| Working distance | | 2000 mm |
| Line length | 409 mm | |
| Line width | 0.474 mm | |
| Rayleigh range | 535 mm | |
| Edge intensity | 80 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 59.9 mm | |
| Installation length | 2059.9 mm | |
| Cable length | | 1.5 m |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | | 5 ± 0.2 V |
| Max. current consumption | 0.25 A | |
| Working temperature | 15 - 40 °C | |
| Modulation inputs | Analog | TTL |
| Input resistance | 9 kOhm | 9 kOhm |
| Max. modulation frequency | 0.01 kHz | 250 kHz |
| Modulation delay ON/OFF | 3000/3000 µs | 0.5/0.2 μs |
| Rise / Fall time | 40000/40000 μs | 0.5/0.5 μs |



ACCESSORIES

| 50HD-15 | Hex key WS 1.5 |
|-----------------|--|
| 9D-12 | Screwdriver WS 1.2 |
| 13MK-25-36-10-F | Mounting Console with flat base plate |
| 13MK-25-36-10-M | Mounting Console with base plate with dovetail profile |
| PS051003E | Power Supply 5 V |

RELATED PRODUCTS

| LASER MODULES SERIES 13LRM | Macro Line Generator, fan angle Uniform intensity distribution Extended depth of focus |
|----------------------------------|--|
| LASER MODULES SERIES 13LN | Micro Line, small fan angle Uniform intensity distribution Thin lines |
| LASER MODULES SERIES 5LM+25CM | Compact Micro Line, small fan angle Gaussian intensity distribution |
| LASER MODULES SERIES 5LP+25CM | Compact Micro Line, large fan angle Gaussian intensity distribution |
| LASER MODULES SERIES 5LM | Micro Line, small fan angle Gaussian intensity distribution |
| LASER MODULES SERIES 5LP | Micro Line, large fan angle Gaussian intensity distribution |



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/13LR12-S000_55CR-660-100-M25-T12-P-6</u> from 4/17/2024

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