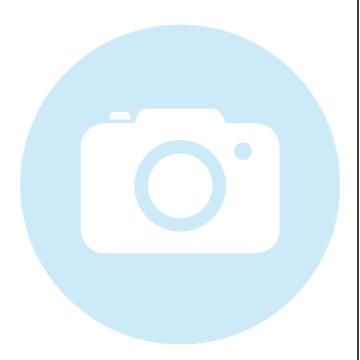## 5LPM80-S88-1+55CM-685-24-H13-A8-C-6

Macro Line Generator with a large fan angle

FEATURES

Laser line with a large fan angle, Gaussian intensity distribution and extended depth of focus.

- Line length: 140 mm
- Line width: 87 µm
- Wavelength: 685 nm
- Working distance: 77 mm
- Depth of focus: 23.6 mm

- Macro Line Generator for extended depth of focus

DESCRIPTION

The laser diode beam source type 5LPM80-S88-1+55CM-685-24-H13-A8-C-6 has a fan angle of 84° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics type C 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 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

5LPM80-S88-1+55CM-685-24-H13-A8-C-6

Series		5LPM
Order Code		5LPM80-S88-1+55CM-685-24-H13-A8-C-6
Line profile		Gaussian Intensity Distribution
Line type		Laser Macro Line
Wavelength		685 +10/-10 nm
Laser output power		24 mW
Laser safety class		3B
Fan angle α		84 deg
Focussing range		65-120 mm
Working distance		77 mm
Line length		140 mm
Line width		0.087 mm
Depth of focus		23.6 mm
Edge intensity		14 %
Diameter laser module		25/28 mm
Module length		91.5 mm
Installation length		198.5 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		0 - 40 °C
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 µs
Rise / Fall time	3/2 µs	3/2 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 5LPM**

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

**LASER MODULES
SERIES LNC-5LPM**

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus
- Low noise

**LASER MODULES
SERIES 13LRM**

- Macro Line Generator, fan angle
- Uniform intensity distribution
- Extended depth of focus

**LASER MODULES
SERIES 13LNM**

- Micro Line Generator, **small** fan angle
- Uniform intensity distribution
- Extended depth of focus

**LASER MODULES
SERIES 5LMM+25CM**

- **Compact** Micro Line, **small** fan angle
- Gaussian intensity distribution
- Extended depth of focus

**LASER MODULES
SERIES 5LPM+25CM**

- **Compact** Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

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