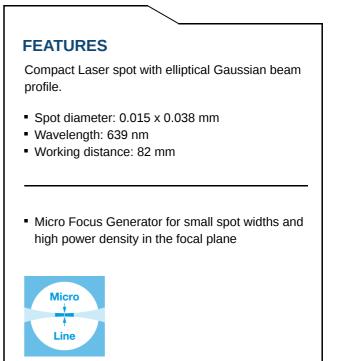
### 5M-S88+55CM-639-18-H18-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





## DESCRIPTION

The laser diode beam source type 5M-S88+55CM-639-18-H18-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-S88+55CM-639-18-H18-A8-C-6

Series

5M



## **DATA SHEET**

Order Code	5M-S88+55CM-639-18-H18-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	639 +10/-10 nm	
Laser output power	18 mW	
Laser safety class	3В	
Focussing range	70-125 mm	
Working distance	82 mm	
Spot height	0.038 mm	
Spot width	0.015 mm	
Rayleigh range	0.518 mm	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	185.1 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

60EX-4	Eccentric key with a stroke of $\pm 0.5$ 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	<ul> <li>Compact Laser Macro Focus Generator</li> <li>Circular beam profile and</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 13MC	<ul> <li>Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES 5MC	<ul> <li>Compact Laser Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES 13M	<ul><li>Micro Focus Generator</li><li>Elliptical Gaussian beam profile</li></ul>

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