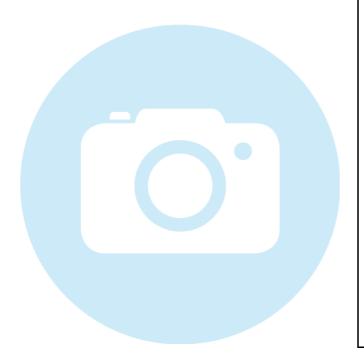


### 5M-A18+55CM-405-14-Y07-A7.5-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.002 x 0.005 mm

Wavelength: 405 nm

Working distance: 16.5 mm

 Micro Focus Generator for small spot widths and high power density in the focal plane



### **DESCRIPTION**

The laser diode beam source type 5M-A18+55CM-405-14-Y07-A7.5-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics  $\underline{type\ C}$  for control of the laser output power. The output power can be controlled using the  $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$  or manually using the potentiometer.

The working distance can be adjusted by adjusting the focus setting. Please note that 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-A18+55CM-405-14-Y07-A7.5-C-6

Series 5M



Line profile  Wavelength  Laser output power  Laser safety class  Focussing range  Working distance  Spot height  Spot width	Gaussian Inte	nsity Distribution 405 +5/-5 nm 14 mW 3B	
Laser output power  Laser safety class  Focussing range  Working distance  Spot height		14 mW	
Laser safety class  Focussing range  Working distance  Spot height			
Focussing range Working distance Spot height		3B	
Working distance Spot height		3B	
Spot height	15-35 mm		
	16.5 mm		
Snot width	0.005 mm		
Spot width	0.002 mm		
Rayleigh range	0.019 mm		
Diameter laser module	25/28 mm		
Module length	76.4 mm		
Installation length	122.9 mm		
Cable length	1.5 m		
Connector type Lu	Lumberg SV50 IEC 61076-2-106		
Supply voltage		5 ± 0.2 V	
Max. current consumption	0.5 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

Compact Laser Macro Focus Generator

**SERIES 5MM** 

Circular beam profile andExtended depth of focus

LASER MODULES

Micro Focus Generator

**SERIES 13MC** 

Rotationally symmetric, Gaussian beam profile

LASER MODULES

Compact Laser Micro Focus Generator

**SERIES 5MC** 

• Rotationally symmetric, Gaussian beam profile

**LASER MODULES** 

Micro Focus Generator

**SERIES 13M** 

Elliptical Gaussian beam profile

This is a printout of the page <a href="https://sukhamburg.com/products/details/5M-A18">https://sukhamburg.com/products/details/5M-A18</a> 55CM-405-14-Y07-A7 5-C-6 from 4/30/2024

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