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Laser ZX20 660nm 100mW, 30° (Recertified 05-P)

Stock **#19-434-RCD-05P** RECERTIFIED **1 In Stock**

- 1 + **S$1,925**.00

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General

Laser Class - IEC:
3R

Note:
Power Supply:#24-361
M12 Cable: #64-836

Style:
Homogeneous Line

Manufacturer:
Z-Laser

Type of Laser:
Diode

Laser Class - CDRH:
IIIa

Physical & Mechanical Properties

Weight (g):
90

Housing Length (mm):
97

Housing Diameter (mm):
20

Bore Sighting (mrad):
<0.8

Pointing Stability (µrad/°C):
<10

Optical Properties

Wavelength (nm):
660.00

Color:
Red

Fan Angle (°):
30.00

Focus Range (mm):
100mm to Collimation

Electrical

Output Power (mW):
100

Power Stability (%):
±3

Modulation Frequency (kHz):
400

Hardware & Interface Connectivity

Output Type:
Free Space

Connector:
5 pins, M12

Input Voltage (V):
5 - 30 DC

Environmental & Durability Factors

Operating Temperature (°C):
-10 to +50

Storage Temperature (°C):
-40 to +85

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Homogenous Intensity Distribution Lines with Fan Angles from 20° to 90°
- IP67 Rated Stainless Steel Housing
- Violet, Blue, Green, and Red Wavelengths Available

Z-Laser ZX20 Focusable Machine Vision Laser Diode Modules feature even-intensity distribution lines in wavelengths from 405 – 660nm for demanding image processing applications. The IP67 rated. stainless steel housings are shock and vibration proof, enabling these laser diode modules to be used in harsh industrial environments. Manually focusable without any additional tools, Z-Laser ZX20 Focusable Machine Vision Laser Diode Modules are ideal for use in measurement and alignment in machine vision, 3D measurement, positioning, and triangulation applications. Additional features include 400kHz TTL modulation for camera synchronization, analog modulation for output power adjustment, and a serial interface for monitoring temperature, laser usage, and failure codes.

Note: M12 connection cable **#64-836** is recommended for ease of system integration.

Red wavelengths (640 and 660nm) are most commonly used in machine vision applications, as the quantum efficiency of most camera sensors are optimized for this wavelength range. Violet (405nm), blue (450nm), and green (520nm) are most commonly used with semi-transparent surfaces or with highly reflective surfaces such as polished metal and solder joints. These wavelengths can also be used to create visual contrast on glowing materials such as molten steel.

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