

Z-LASER

Intelligent Solutions in Light

ZM18H3

- » Blue or green wavelengths
- » Optical output power up to 150mW
- » Gaussian/uniform line, dot optic, and various DOE optics
- » 5 to 30VDC supply voltage with reverse polarity protection
- » Analog intensity control and digital TTL Trigger up to 200kHz
- » M18 threaded body for simple and versatile mounting
- » Integrated microcontroller

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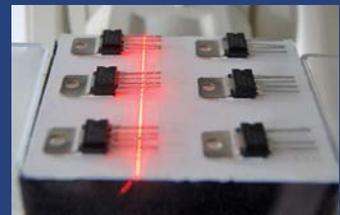


Machine Vision

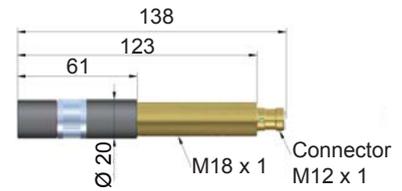
3D Measurement

Metrology

Medical



ZM18H3



Mechanical specifications

| | |
|----------------------|---|
| Dimensions | 138mm x Ø 20mm (focusable version) / 123mm x Ø 20mm (fixed version) |
| Housing | M18 industry housing, nickel-plated brass; optic head: anodised aluminium |
| IP rating | IP67 |
| Weight | 102g (focusable version) |
| Electrical isolation | Potential-free housing |
| Connection | M12 plug, 4-pin |

Electrical specifications

| | |
|----------------|---|
| Supply voltage | 5 to 30VDC |
| Operation mode | APC |
| Modulation | Blue: Analog and TTL modulation up to 200kHz Green: Analog and TTL modulation up to 100kHz |
| Protection | Reverse polarity and transient protection / ESD, overtemperature protection and LED pre-failure indicator |

Optical specifications

| | |
|--------------------------------------|---|
| Wavelength | 405nm, 450nm, 520nm |
| Output power | Blue: Up to 150mW Green: Up to 30mW |
| Wavelength vs. temperature | Typ. 0.15 - 0.30nm / °C depending on wavelength |
| Power stability | ±3% over operating temperature range |
| Focus range | 100mm up to ∞ |
| Pointing stability | < 15µrad / °C |
| Line (Gaussian profile) | 3°, 5°, 10°, 15°, 20°, 30°, 90° |
| Line (homogeneous intensity profile) | 10°, 20°, 30°, 45°, 60°, 75°, 90° |
| Dot | Elliptical or circular |

Environmental conditions

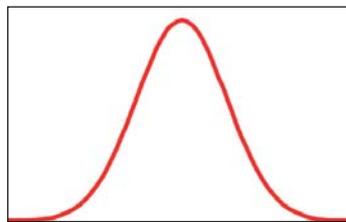
| | |
|---------------------|--|
| Case temperature | Blue: -10°C up to +50°C * Green: -10°C up to +40°C* (*heat dissipation e.g. with mounting H8-M18) |
| Storage temperature | -10°C up to +80°C |
| Humidity | Max. 90%, non-condensing |

CE CE-Conformity according to the directives 2004/108/EC and 73/23/ECC excluding connection type.

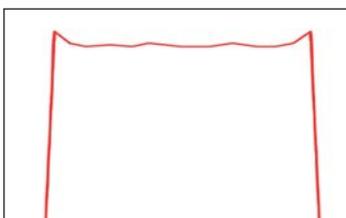
Accessories



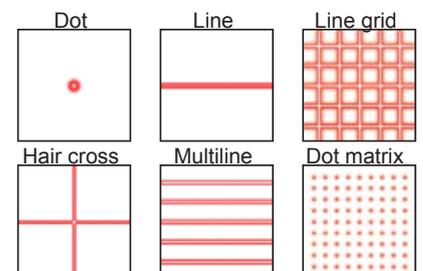
Gaussian profile



Homogeneous profile



Optics



Order code

Z X M18H3 - X - X - X

Power

Optic Wavelength

F = hand focusable
without F = fixed focus

Product family name

