

Z-LASER

Intelligent Solutions in Light

ZM18H3

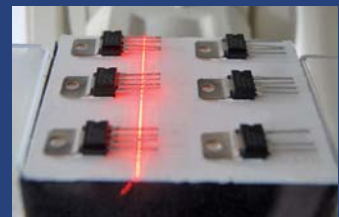
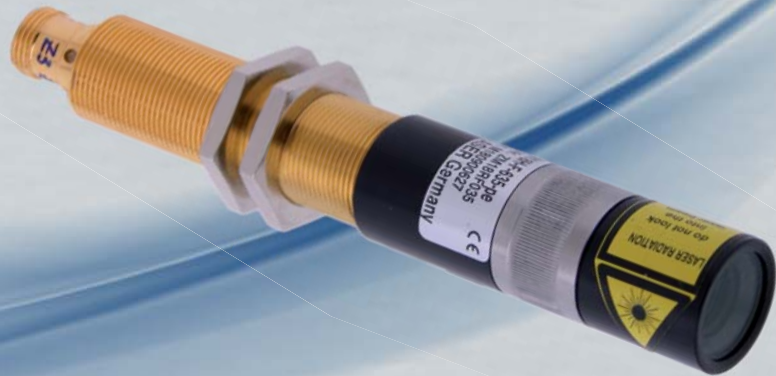
- » Blue or green wavelengths
- » Optical output power up to 150mW
- » Gaussian/uniform line, dot optic, and various DOE optics
- » 5 to 30VDC supply voltage with reverse polarity protection
- » Analog intensity control and digital TTL Trigger up to 200kHz
- » M18 threaded body for simple and versatile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

Machine Vision

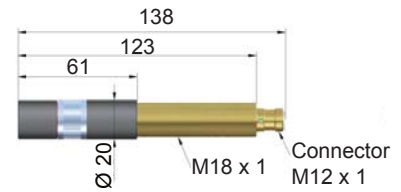
3D Measurement

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

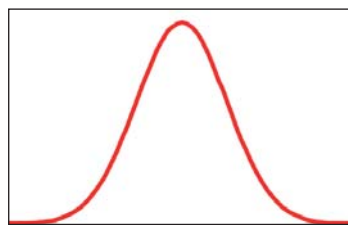
Case temperature	Blue: -10°C up to +50°C * Green: -10°C up to +40°C* (*heat dissipation e.g. with mounting H8-M18)
Storage temperature	-10°C up to +80°C
Humidity	Max. 90%, non-condensing

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

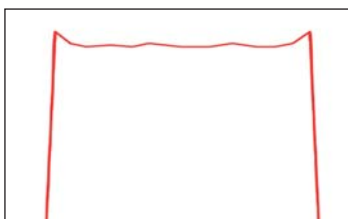
Accessories



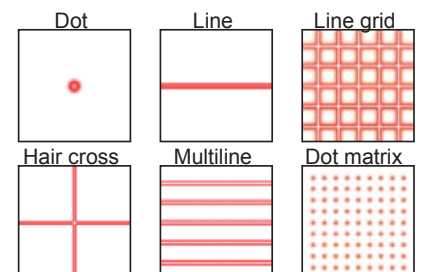
Gaussian profile



Homogeneous profile



Optics



Order code

Z X M18H3 - X - X - X

Power

Optic Wavelength

F = hand focusable
without F = fixed focus

Product family name

