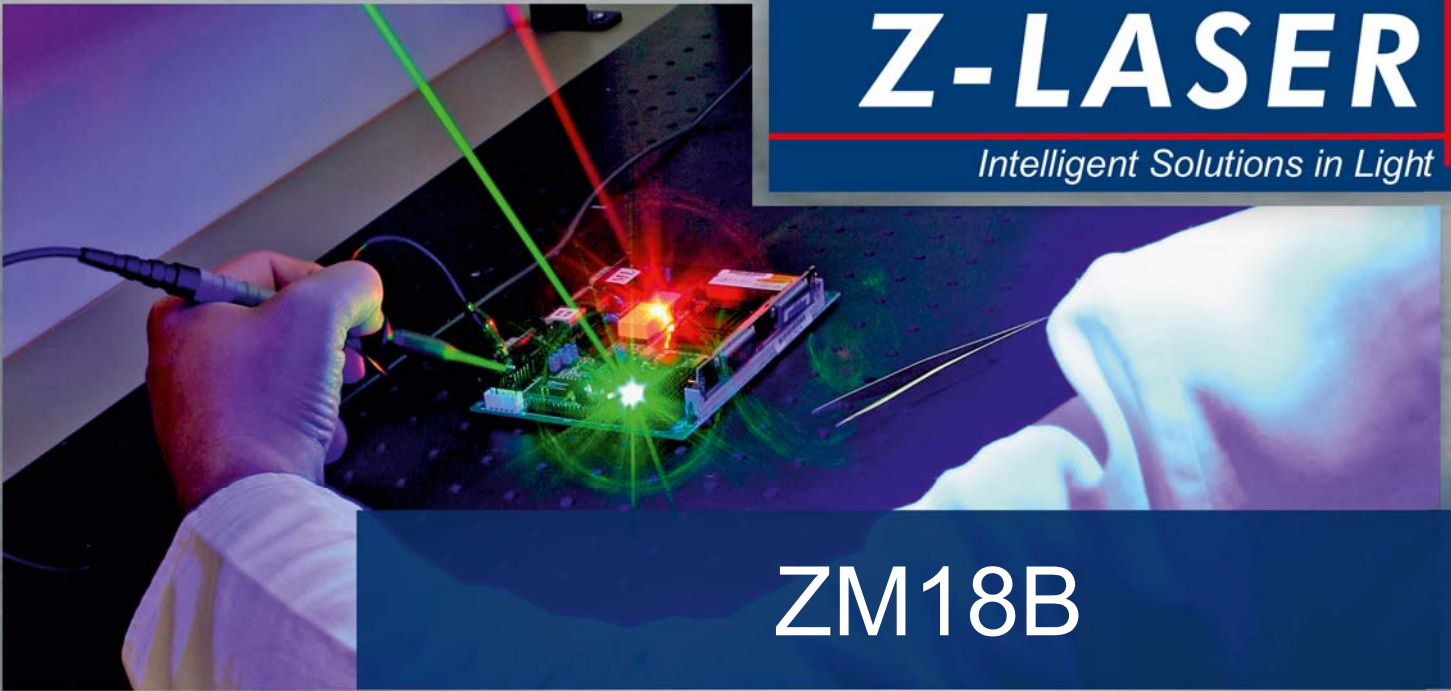


Z-LASER

Intelligent Solutions in Light



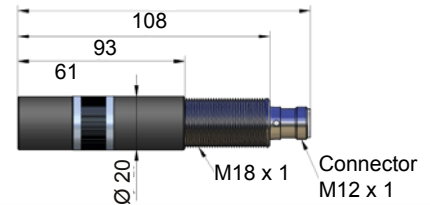
ZM18B

- » Red or infrared wavelengths available
- » Optical output power up to 120mW / 160mW IR
- » Gaussian/uniform line, dot optics and various DOE optics available
- » 5 to 30VDC supply voltage with reverse polarity protection
- » Simple, external hand focusing mechanism
- » IP67 rated, water-proof and dust-proof
- » M18 thread mounted for simple and versatile mounting
- » LED laser operation indicator
- » Overvoltage protection with surge/spike protection

Machine Vision
Automotive
Wood
Food & Beverage
Medical
Metal
Stone
Textile / Leather



ZM18B



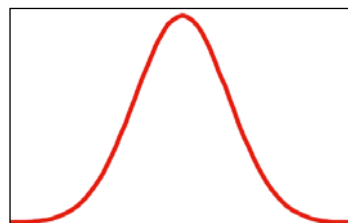
Mechanical specifications	
Dimensions	108mm x Ø 20mm (focusable version) / 92mm x Ø 20mm (fixed focus)
Housing	M18 industry housing, chromed brass Optic head: Anodised aluminium
IP rating	IP67
Weight	75g (focusable version)
Electrical isolation	Potential-free housing
Connection	M12 plug, 4-pin
Electrical specifications	
Supply voltage	5 to 30VDC
Operation mode	APC with current limiting
Modulation	No
Protection	Reverse polarity and transient protection / ESD, over temperature protection and LED pre-failure indicator
Optical specifications	
Wavelength	635nm, 640nm, 643nm, 685nm, 785nm, 808nm, 830nm, 850nm, 980nm
Output power	Up to 120mW / up to 160mW IR
Wavelength vs. temperature	Typ. 0.20 - 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°, symmetrical or asymmetrical
Line (homogeneous intensity profile)	10°, 20°, 30°, 45°, 60°, 75°, 90°
Dot	Elliptical or circular
Environmental conditions	
Case temperature	-10°C up to +50°C (heat dissipation e.g. with mounting H8-M18)
Storage temperature	-10°C up to +80°C
Humidity	Max. 90%, non-condensing
MTTF at 25°C	> 30,000h (635nm to 685nm), > 100,000h (785nm to 980nm)

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

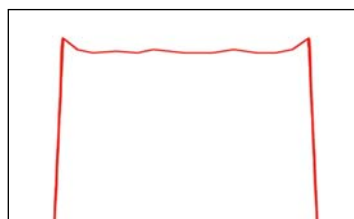
Accessories



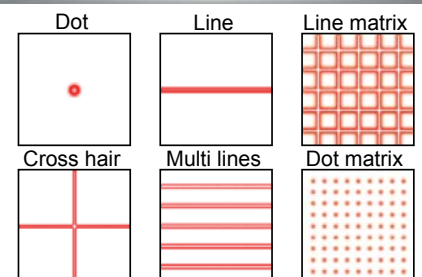
Gaussian profile



Homogeneous profile



Optics



Order code

Z X M18B - X - X - X

Power

Optic

Wavelength

F = hand focusable
without F = fixed focus

Product family name

