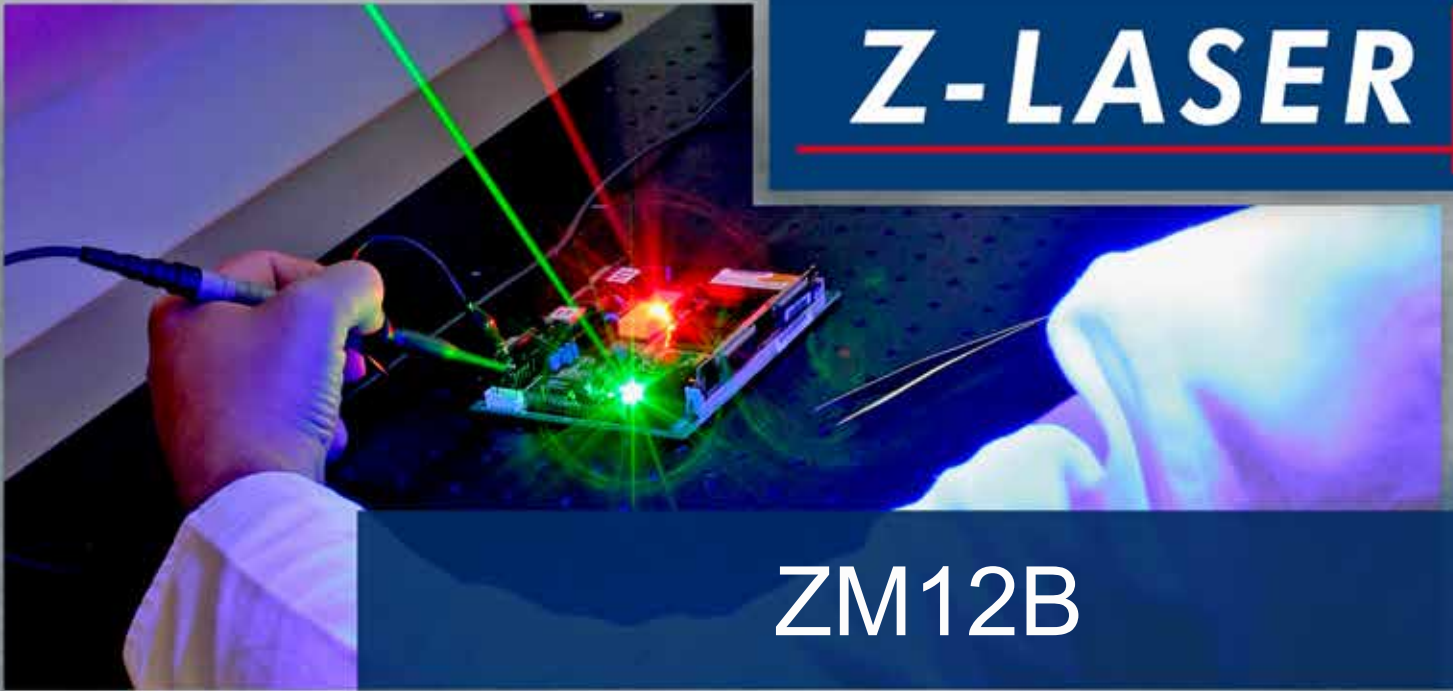


Z-LASER



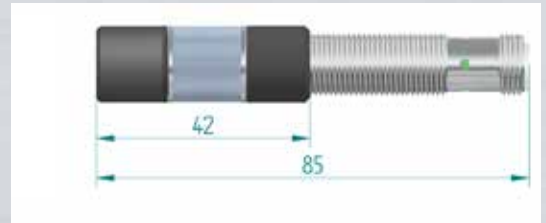
ZM12B

- » Red or infrared wavelengths available
- » Optical output power up to 80mW
- » 5 to 30VDC supply voltage with reverse polarity protection
- » Simple, external hand focusing mechanism
- » Compact M12 thread mounted for simple and versatile mounting
- » Potential-free housing

Machine Vision
Automotive
Wood
Food & Beverage
Metal
Stone
Textile

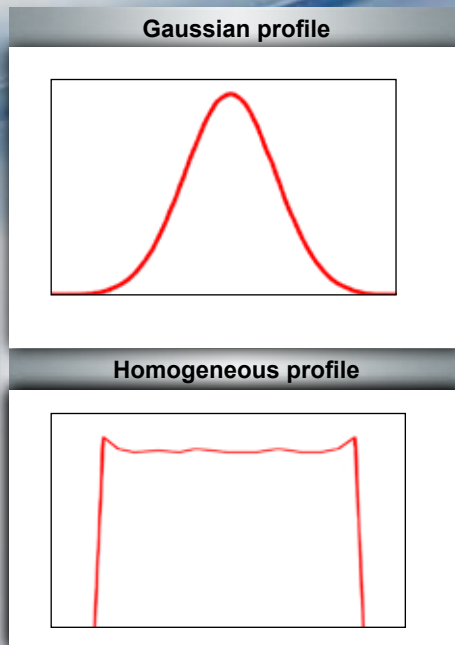


ZM12B



Mechanical specifications	
Dimensions	85mm x Ø 15mm (focusable version) / 81mm x Ø 15mm (fixed focus)
Housing	M12 industry housing, chromed brass, Optic head: Anodised aluminium
IP rating	IP67
Weight	67g (fixed focus)
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, 660nm, 785nm, 830nm, 850nm
Output power	Up to 80mW
Wavelength vs. temperature	Typ. 0.20 - 0.30nm / °C depending on wavelength
Power stability	± 3% over operating temperature range
Focus range	100mm up to 10.000mm
Pointing stability	< 15µrad / °C
Boresight error	< ± 10mrad
Line (Gaussian profile)	5°, 10°, 15°, 20°, 30°, 90°, symmetrical
Line (homogeneous intensity profile)	10°, 20°, 30°, 40°, 45°, 60°
Dot	Elliptical or circular
Environmental conditions	
Case temperature	-10°C up to +50°C (heat dissipation e.g. with mounting H8-M12)
Storage temperature	-10°C up to +70°C
Humidity	Max. 90%, non-condensing
MTTF at 25°C	> 30.000h (635nm up to 660nm), >100.000h (785nm up to 850nm)

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



Optics

Dot	Line	Line matrix
Cross hair	Multi lines	Dot matrix

Order code

Z X M12B - X - X - X

| Power | | | Optic
 | | | | | Wavelength
 F = hand focusable
 without F = fixed focus
 Product family name