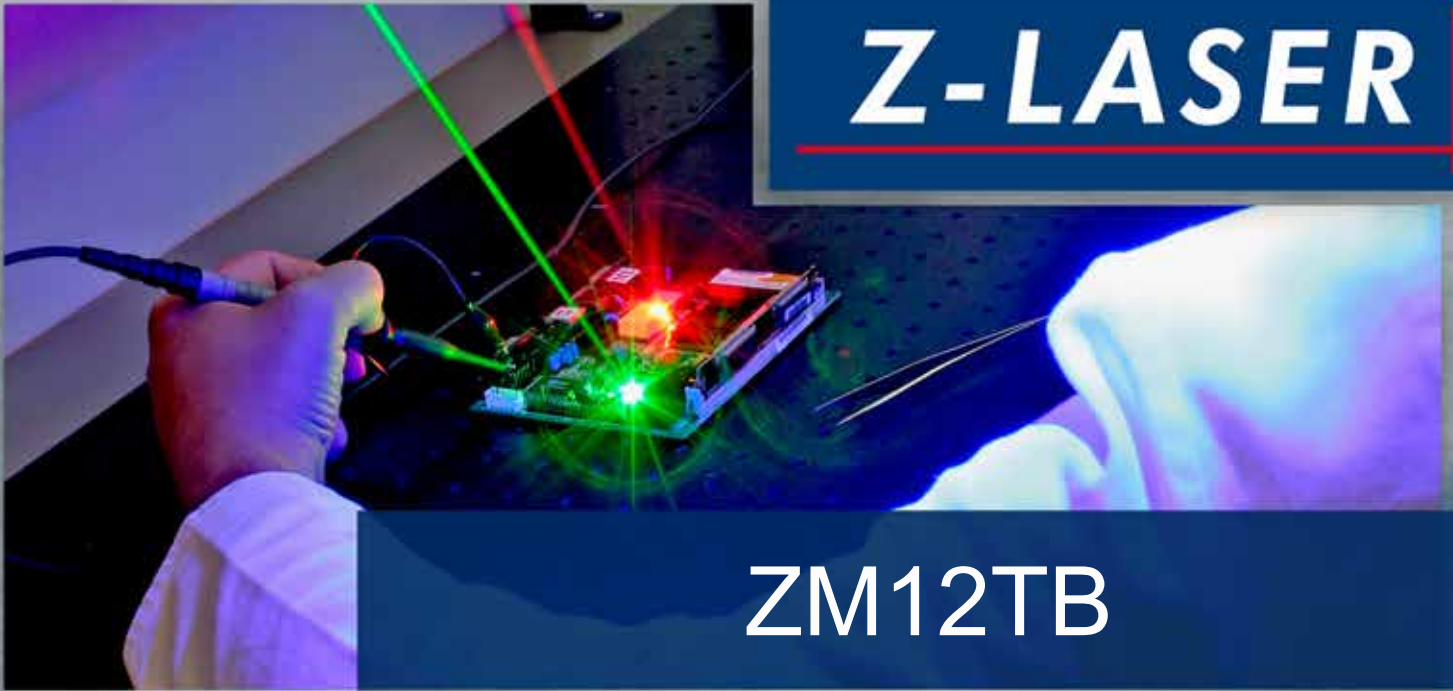


Z-LASER



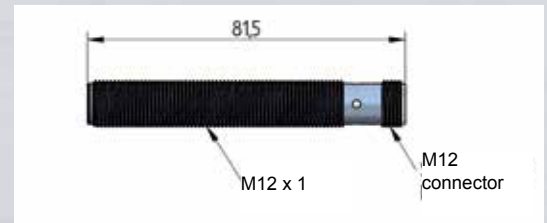
ZM12TB

- » Red wavelengths available
- » Optical output power up to 40mW
- » Line or dot projection
- » 5 to 30VDC supply voltage with reverse polarity protection
- » Simple, external tool focusing mechanism
- » Compact M12 thread for various installations and mounting
- » Potential-free housing

Machine Vision
3D Measurement
Automotive
Wood
Food & Beverage
Medical
Metal
Stone
Textile / Leather



ZM12TB



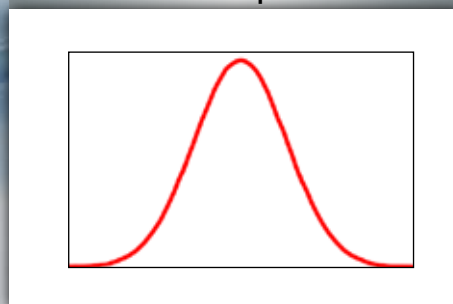
Mechanical specifications	
Dimensions	81.5mm x Ø 12mm
Housing	M12 industry housing, chromed brass
IP rating	IP54
Weight	40g
Electrical isolation	Potential-free housing
Connection	M12 plug, 4-pin
Electrical specifications	
Supply voltage	5 to 30VDC
Operation mode	APC with current limiting
Modulation	No
Protection	Reverse polarity and transient protection / ESD, over temperature protection and LED pre-failure indicator
Optical specifications	
Wavelength	635nm, 640nm, 643nm
Output power	Up to 40mW
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
Line (Gaussian profile)	90°, symmetrical
Dot	Elliptical
Environmental conditions	
Case temperature	-10°C up to +50°C (heat dissipation e.g. with mounting H8-M12)
Storage temperature	-10°C up to +80°C
Humidity	Max. 90%, non-condensing
MTTF at 25°C	> 30,000h (635nm to 643nm), > 100,000h (808nm)

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

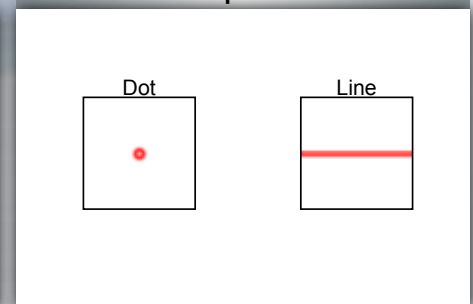
Accessories



Gaussian profile



Optics



Order code

Z X M12TB - X - X - X

Power | Wavelength | Optic

F = hand focusable
without F = fixed focus

Product family name