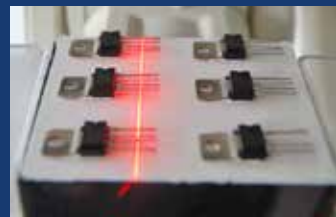


Z-LASER

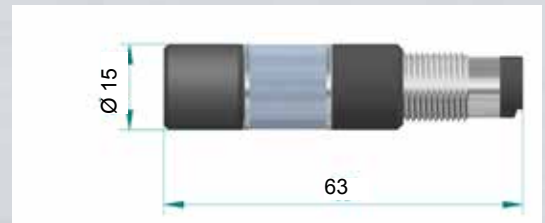
ZM12DM5

- » Red or infrared wavelengths available
- » Optical power up to 80mW
- » Integrated cable for 4 to 6VDC supply voltage with reverse polarity protection
- » Digital TTL Trigger up to 100kHz
- » Simple, external hand focusing mechanism
- » Compact M12 thread for various installations and mounting
- » Overvoltage protection with surge/spike protection
- » Potential-free housing

Machine Vision
3D Measurement
Metrology
Automotive
Wood
Food & Beverage
Medical
Metal
Stone

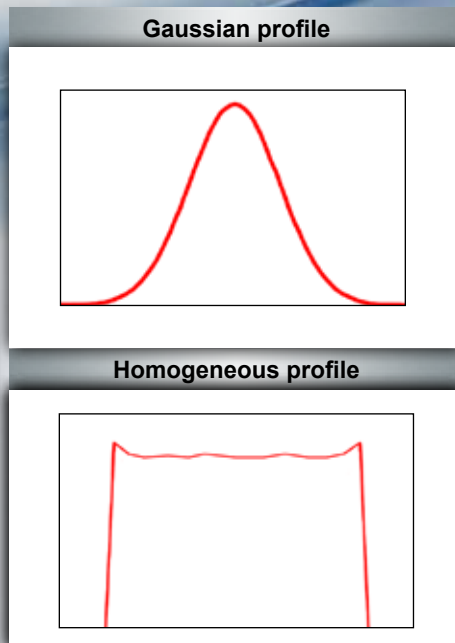


ZM12DM5



Mechanical specifications	
Dimensions	63mm x Ø 15mm (focusable version) / 59mm x Ø 15mm (fixed focus)
Housing	M12 industry housing, chromed brass Optic head: Anodised aluminium
IP rating	IP 67
Electrical isolation	Potential-free housing
Connection	2000mm cable, 3-wire with open leads
Electrical specifications	
Supply voltage	4 to 6VDC
Operation mode	APC
Modulation	TTL up to 100kHz
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	< 10µrad / °C
Boresight error	< ±10mrad
Line (Gaussian profile)	90°, symmetrical
Line (homogeneous intensity profile)	10°, 20°, 30°, 40°, 45°, 60°
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 +70°C
Humidity	Max. 90%, non-condensing
MTTF at 25°C	> 30,000h (635nm to 660nm), >100,000h (785nm to 850nm)

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



Optics		
Dot	Line	Line matrix
Hair cross	Multi lines	Dot matrix
Order code		
<p>Z X M12DM5 - X - X - X</p> <p>Power Wavelength Optic</p> <p>F = hand focusable without F = fixed focus</p> <p>Product family name</p>		