

ZM12B



New small basic modul for a variety of applications, optic head



Features: **Applications:**

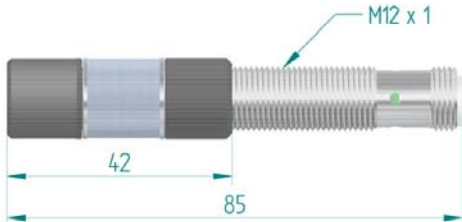
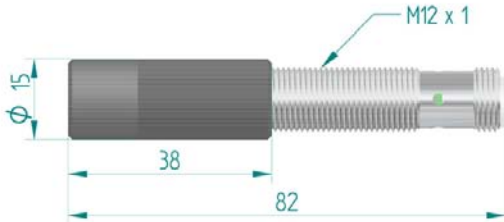
- 5-30VDC operation with reverse polarity protection
- Power up to 40mW
- Red and infrared laser available
- Simple, external hand focusing mechanism
- Compact M12 laser thread housing for simple and versatile mounting
- Potential-free housing for trouble-free installation

- Positioning
- Machine Vision
- Wood processing
- Metal processing
- Textile industry
- Stone processing
- Food industry
- Medical science
- Automotive industry

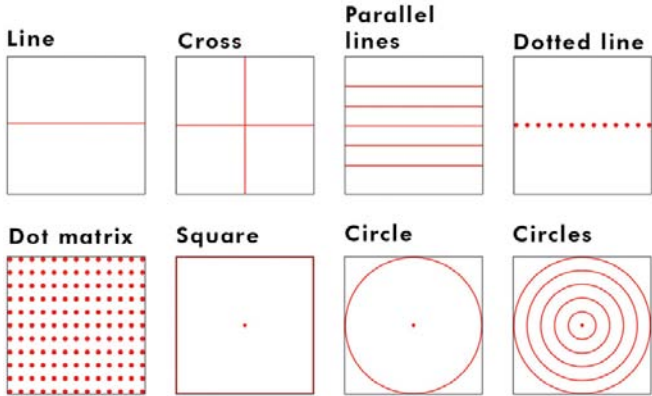
Technical Drawing:

Fixed focus version

Focusable version



Some available Optics:



1: voltage supply +
2: -
3: voltage supply -
4: -



Product emits laser radiation in laser classes: 1, 1M, 2, 2M, 3R, 3B

Specifications:

Optical	
Optical power stability	3% over operating temperature rang
Wavelength vs. temperature	Typ. 0,20 - 0,30nm / °C depending on wavelength
Range of focus	100mm up to
Divergence of beam (FWHM)	< 1mrad (with dot optic)
Pointing stability	< 15µrad / °C
Optics	
Line (Gaussian profile)	5°, 10°, 15°, 20°, 30°, 90°, symmetrical or asymmetrical
Line (homogeneous intensity profile)	10°, 20°, 30°, 40°, 45°, 60°
Point	elliptical or circular
DOE	see samples (and on request)
Standard wavelengths and power (other on request)	
635nm, 640nm, 643nm, 660nm	up to 40mW power depending on wavelengths
Electrical	
Supply voltage	5-30VDC
Mode of operation	APC with current limiting or CC
Modulation	continous wave
Protection	reverse polarity and transient / ESD
Connection	M12 plug, 4-pin
Mechanical	
Dimensions	85mm x Ø 15mm
Housing	Laser: M12 industry housing, chromed brass Optic head: anodised aluminium
Protection category	IP 67
Weight	ca. 60g
Electrical isolation	potential-free housing
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 (635-643nm)

Order code:

