

# ZM18B-F



## Basic laser module, standard and customised



### Features:

- 5-30VDC operation
- Power up to 120mW / 80mW IR
- Red or infrared laser wavelengths available
- Gaussian/uniform line optics and various DOE available
- Simple, external hand focusing mechanism
- IP67 rated, fully waterproof
- Thread mounted for simple and versatile mounting
- LED laser operation indicator
- Over voltage protection with surge/spike protection
- Reverse polarity protection

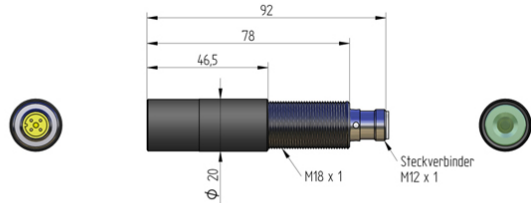
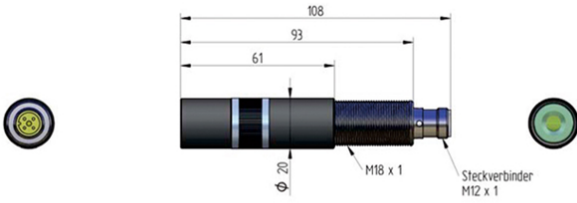
### Applications:

- Positioning
- Wood processing
- Metal processing
- Textil Industry
- Stone processing
- Food Industry
- Medical science
- Automotive Industry

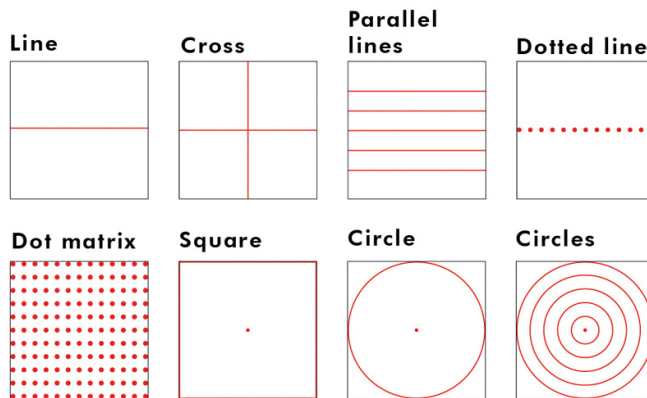
### Techn. Drawing:

Focusable version

Fixed focus version



### Some available Optics:

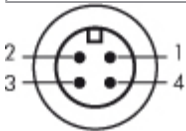


### Equipment:

Special Mountings: H6-M18 , H8-M18

## 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)	3°, 5°, 10°, 15°, 20°, 30°, 90°, symmetrical or asymmetrical
Linie (homogeneous intensity profile)	10°, 20°, 30°, 45°, 60°, 75°, 90°
Point	elliptical or circular
DOE	see examples on front side
Standard wavelengths and power (other on request)	
635nm, 640nm, 643nm, 808nm, 830nm, 850nm, 980nm	up to 120mW / 80mW IR optical power depending on wavelengths
Electrical	
Supply voltage	5-30VDC
Mode of operation	APC with current limiting
Modulation	continuous wave
Protection	reverse polarity and transient / ESD
Connection	M12 plug, 4-pin



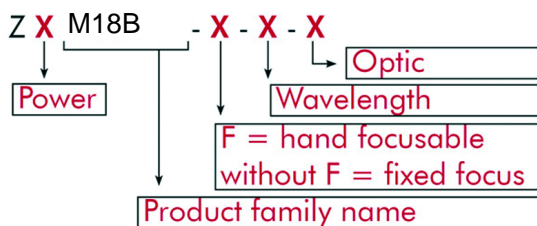
1: voltage supply +  
2: -  
3: voltage supply -  
4: -



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

Mechanical	
Dimensions	108mm x Ø 20mm (focusable version)
Housing	Laser: M18 industry housing, chromed brass Optic head: anodised aluminium
Protection category	IP 67
Weight	ca. 75g (focusable version)
Electrical isolation	potential-free housing
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 (635-643nm), > 100.000h (808-980nm)

## Order code:



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