

ZM18S-F



New laser module, standard and customised



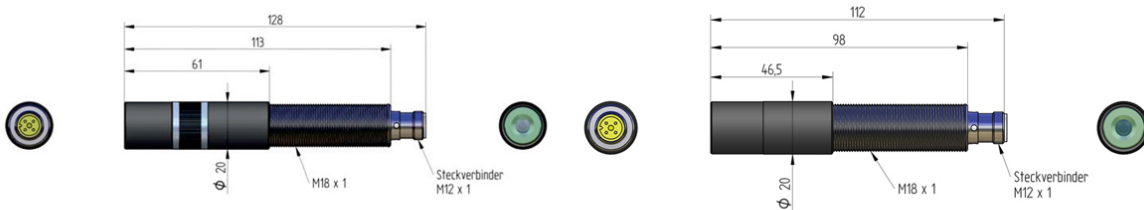
Features:

- 9-30VDC operation with reverse polarity protection
- Power up to 200mW
- Red, infrared wavelengths available
- Gaussian/uniform line optics and DOE available
- Simple, external hand focusing mechanism
- Analogue intensity control (up to 32 steps) with digital TTL Trigger up to 1 KHz
- IP67 rated, fully water proof
- Thread mounted for simple and versatile mounting
- LED laser operation and pre-failure indicator
- Over voltage protection with surge/spike protection
- Quick installation by M18 thread for Sensor mounting or Z-LASER standard mounting H8-M18
- Wide range of diodes and optics
- Potential-free housing for trouble-free installation

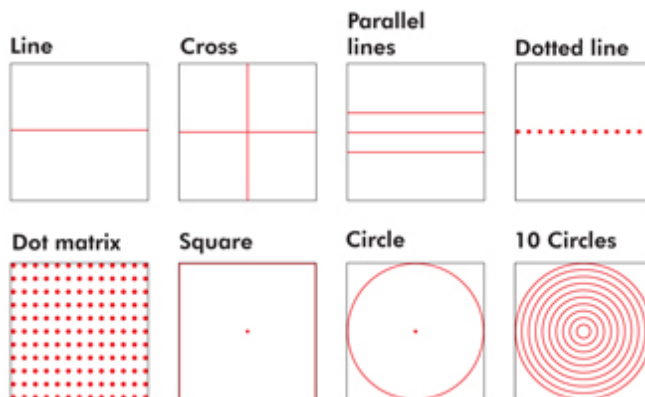
Applications:

- Positioning
- Textile industry
- Food industry
- Medical science
- Automotive industry
- Science & Research
- Machine Vision
- Metrology
- 3D Measurement

Techn. Drawing:



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 profil)	60°, 90°, symmetrical or asymmetrical
Linie (Non Gaussian profil)	10°, 20°, 30°, 45°, 60°, 90°
Point	elliptical or circular
DOE	see examples on front side

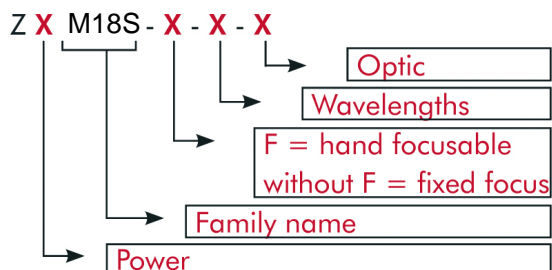
Standard wavelengths and power (other on request)	
635nm, 640nm, 643nm, 643nm, 660nm, 685nm, 785nm, 808nm, 980nm	up to 200mW depending on wavelengths

Electrical	
Supply voltage	9-30VDC
Mode of operation	APC with current limiting or CC
Modulation	Analogue intensity control (up to 32 steps) and digital TTL Trigger up to 1 kHz
Protection	Protection reverse polarity and transient/ESD, over temperature protection and LED pre-failure indicator
Connection	M12 plug, 4-pin

Mechanical	
Dimensions	128mm x Ø 20mm (focusable)
Housing	Laser: M18 industry housing, chromed brass Optic head: anodised aluminium
Protection category	IP 67
Weight	ca. 87g
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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