

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

ZM12B



Features:

- 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

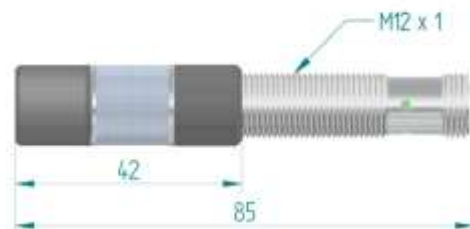
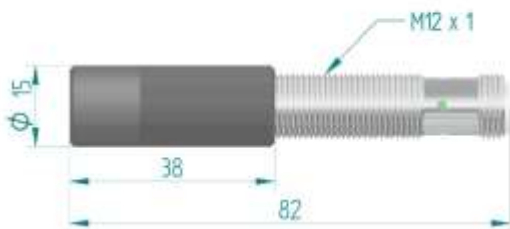
Applications:

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

Technical Drawing:

Fixed focus version

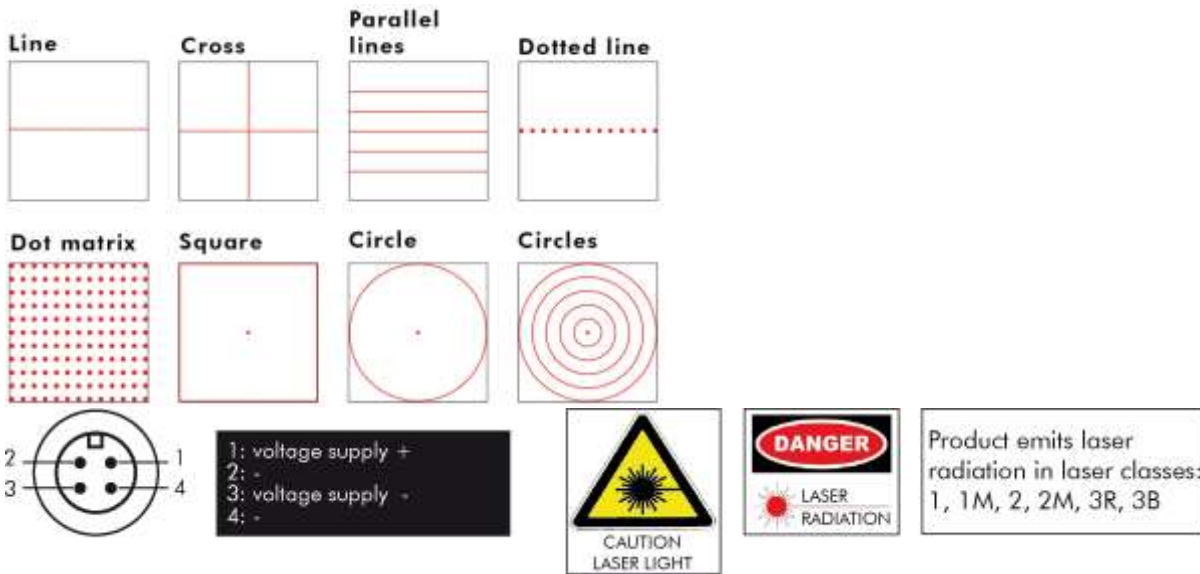
Focusable version



Some available Optics:



Unit 6 Sandown Centre. White Horse Business Park. BA14 0XD. Trowbridge. United Kingdom
Tel: +44 (0)1225 751 542 email: sales@scitec.uk.com web: www.scitec.uk.com



Special Mountings: H8-M12 , H6-M12

Optical

| | |
|----------------------------|---|
| Optical power stability | $\pm 3\%$ over operating temperature rang |
| Wavelength vs. temperature | Typ. 0,20 - 0,30nm / °C depending on wavelength |
| Range of focus | 100mm up to ∞ |
| Pointing stability | $< 15\mu\text{rad} / ^\circ\text{C}$ |
| Boresight | $< \pm 10\text{mrad}$ |

Optics

| | |
|--------------------------------------|--|
| Line (Gaussian profile) | 5°, 10°, 15°, 20°, 30°, 90°, symmetrical |
| 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 |



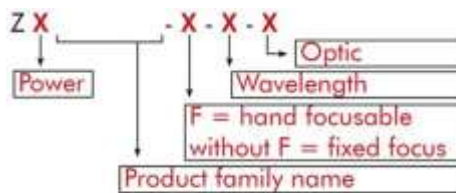
Mechanical

| | |
|----------------------|--|
| 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 +70°C |
| Humidity | Max. 90%, non condensing |
| MTTF at 25°C | > 30.000h (635-643nm) |

Order code:



© Z-LASER / Subject to change

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