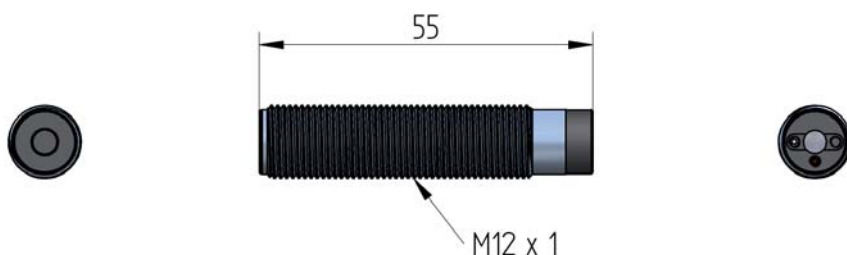


# ZM12-B1

Industry / Craft

**Z-LASER**

Brand new product for a variety of applications



## Features

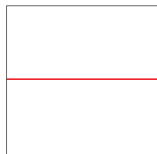
- Power supply 4-6V with reverse polarity protection
- Simple, external tool focusing mechanism
- Red and infrared laser in a compact housing
- Quick installation by M12 thread for Sensor mounting or **Z-LASER** standard mounting H8-M12
- Wide range of diodes and optics
- Potential-free housing for trouble-free installation

## Applications

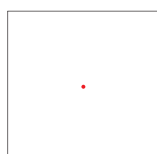
- Positioning
- Machine Vision
- Wood processing
- Metal processing
- Textile industry
- Stone processing
- Food industry
- Medical science
- Automotive industry

## Optics

Line



Dot



## Mounting

H8-M12



# Specifications

## Optical

Optical power stability	3% over operating temperature range
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)	60°, 90°, symmetrical
Point	elliptical or circular

## Standard wavelengths and power (other on request)

635nm, 640nm, 643nm, 808nm	up to 40mW depending on wavelengths
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## Electrical

Supply voltage	4-6VDC
Mode of operation	APC with current limiting, or CC
Modulation	continous wave
Protection	reverse polarity and transient/ESD
Connection	flying leads

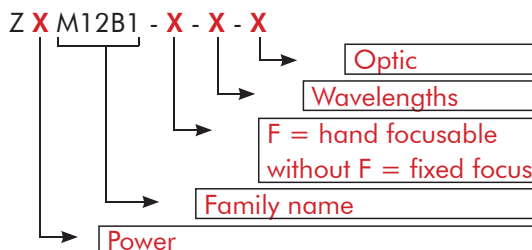
## Mechanical

Dimensions	55mm x Ø 12mm
Housing	Laser: M12 industry housing, chromed brass
Protection category	IP 54
Weight	ca. 30g
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	> 100.000h (808nm), 30.000h (635nm - 643nm)

## Order code:



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