

Order number/ Artikelnummer FP-MVpico2017-ST  
Module/ Bezeichnung FP-MVpico2017-ST-Produktdatenblatt

## Basic properties/ Allgemeine Eigenschaften:

Spectral range/ Wellenlänge 405nm, 450nm, 520nm, 635-640nm, 650-660nm, 685nm, 785nm, 850nm  
(others wavelengths on request)

Output power/ Ausgangsleistung 1mW - 100mW (depending on wavelength)

Operating voltage/ Versorgungsspannung 4,5-30V (10-30V for 405/450/520nm);  
(405/520nm available with 5V electronics) | no electronics for optical heads

Current consumption/ Stromverbrauch < 200mA (supply current)

Operating temperature/ Betriebstemperatur -20°C to +50°C (case temperature, depending on wavelength and heat sink)

Storage temperature/ Lagertemperatur -20°C to +60°C

Modulation/ Modulation digital (low active, 0 - 10kHz, higher frequency on request),  
analog (low active by control wire 0-5V)

Power stability/ Leistungsstabilität ≤ 5% (after warm up at 25 °C)

Wavelength stability / Wellenlängenstabilität: <0,25nm/°C

## Beam properties/ Optische Eigenschaften:

Beam profile/ Strahlcharakteristik laser line with uniform power distribution  
(thin lines, TS versions and FOV correction available)

Focus distance/ Fokussabstand adjustable by pin tool (see instruction manual for details) |  
factory focused for FIX versions

Boresight deviation/ Strahlrichtungsfehler ≤ 10 mrad (≤ 3 mrad as option)

Pointing stability/ Punktstabilität ≤10μrad/°C (improved pointing stability on request)

Fan angle/ Öffnungswinkel 5, 10, 15, 20, 30, 45, 60, 75, 90 deg.

Line thickness/ Liniendicke Standard, DL, DLE; DLSE, TS1, TS2,

Line intensity variation/ Homogenität ± 20% (opt. ± 10%) related to average power (80 % of the line)

Line straightness/ Geradheit ± 0,1 % (± 0,05 as option)

Date 16.05.2017

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## Mechanical properties/ Mechanische Eigenschaften:

Housing material/ Gehäusematerial	Aluminium (blue anodized)
Housing size/ Abmessungen	Ø=10mm x Length (see product map for length --> depending on chosen features)
Pin definition/ Anschlussbelegung	200mm flying leads   Red: +VDC, Black: GND, Green: modulation (option), Yellow: adjustable power (option)   no wires for optical heads   150mm cable between housings for 2H versions
Laser class/ Laserklasse	DIN EN 60825-1:2014