

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)

GESCHÄFTSFÜHRER Dr.-Ing. Ingmar Blau,
Dipl.-Ing. (FH) Eugen Romasew
Telefon +49 (0) 7551/93748-0
Telefax +49 (0) 7551/93748-29
E-MAIL info@blauoptoelektronik.de
WEB www.blauoptoelektronik.de
HANDELSREGISTER: Freiburg HRB 580681 UST-
IDNR. DE 169489277

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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