

Order number/ Artikelnummer ST-FP-MVsqu15-FIX  
Module/ Bezeichnung ST-FP-MVsqu15-FIX Datenblatt

## Basic properties/ Allgemeine Eigenschaften:

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

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

Operating voltage/ Versorgungsspannung 4,5-30V (10-30V for 405/450/520nm);  
(405/450/520nm available with 5V electronics)

Current consumption/ Stromverbrauch < 200mA (supply current)

Operating temperature/ Betriebstemperatur -20° bis +50°C (case temperature, depending on wavelength)

Storage temperature/ Lagertemperatur -20°C bis +60°C (depends on wavelength)

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

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

Wavelength stability: <0.25nm / °C

Redirection (1.st "R"): 0°, 90°

Rotation (2.nd "R"): 0°, 90°

## Beam properties/ Optische Eigenschaften:

Beam profile/ Strahlcharakteristik laser line with uniform power distribution  
(TS version and FOV COS correction available)

Focus distance/ Fokussabstand factory focused at customers specification

Boresight deviation/ Strahlrichtungsfehler Pitch (Nickwinkel) ≤20mrad | Yaw (Gierwinkel) ≤20mrad |  
Roll (Rotation) ≤10mrad

Pointing stability/ Punktstabilität ≤10μrad/°C (improved pointing stability as option)

Fan angle/ Öffnungswinkel 5, 10, 15, 20, 30, 45, 60 deg.  
(other fan angles on request)

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

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

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

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

BANKVERBINDUNG Sparkasse Bodensee  
IBAN DE 40 6905 0001 0001 0270 28  
BIC/SWIFT SOLADES1KNZ

## Mechanical properties/ Mechanische Eigenschaften:

Housing material/ Gehäusematerial	Aluminum (blue anodised; potential free)
Housing size/ Abmessungen	15×15×65mm (mechanical interface: 4x M2 threaded holes, 3mm deep)
Pin defintion/ Anschlussbelegung	Brown: +VDC, Blue: GND, Black: modulation 3 core cable, 2 m length, wires tin-coated at ends