



DATASHEET

01.2019

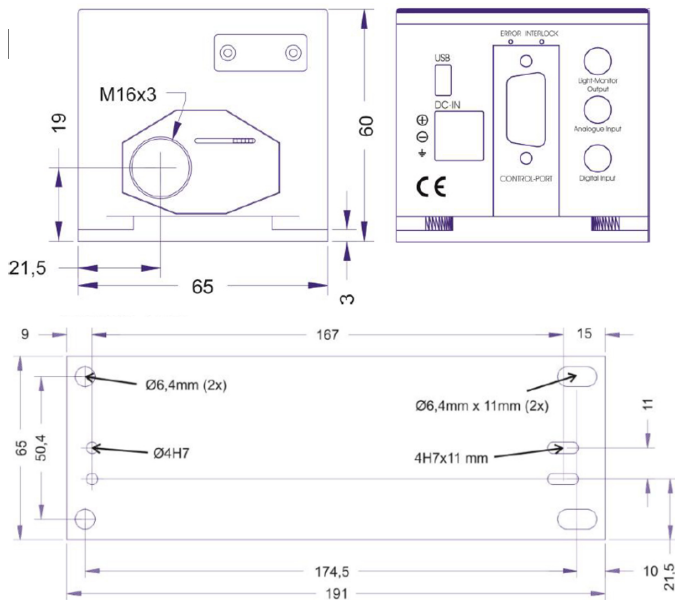
BrixX[®] NB

Narrow-bandwidth diode lasers with fibre-coupled or free-space output

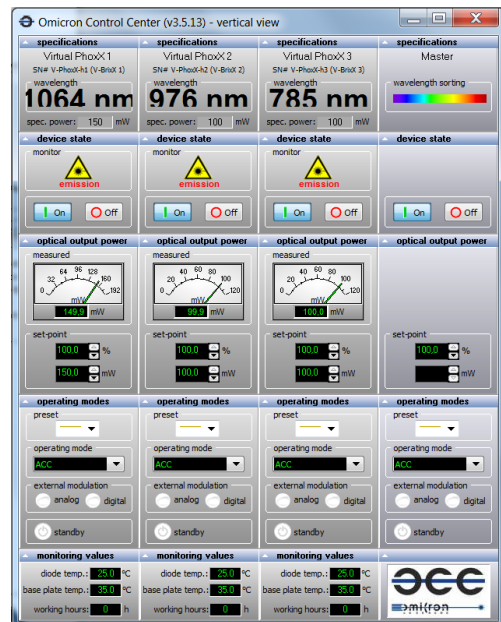


The versatility of the BrixX[®] NB lasers covers a wide range of applications like RAMAN spectroscopy, laser seeding, metrology and many more. Depending on the model, the lasers are available with fibre coupled or free-space output and offer narrow spectral emission compared to standard diode lasers. Analogue intensity control and digital modulation as well as a Light-Monitoring output can be used to control the laser by electronic signals. The USB2.0 and the RS-232 interface allow deep integration into PC controlled setups and software environments like LabView.

Dimensions:



Control Software:



Omicron-Laserage Laserprodukte GmbH
 Phone: +49 (0) 6106 8224-0
 Raiffeisenstraße 5e
 63110 Rodgau – Germany

Fax: +49 (0) 6106 8224-10
www.omicron-laser.de
mail@omicron-laser.de

For more online information:



Specifications BrixX NB Diode Laser Series				
	BrixX® NB Series			
Wavelengths & Powers (other wavelengths and powers on request)	Modell	Wavelength / Power	SM / MM	Output
	BrixX® 633-30 NB	633nm / 30mW	SM PM	FC/APC
	BrixX® 760-10 NB	760nm / 10mW	SM PM	FC/APC
	BrixX® 763-10 NB	763nm / 10mW	SM PM	FC/APC
	BrixX® 773-20 NB	773nm / 20mW	SM PM	FC/APC
	BrixX® 785-40 NB	785nm / 40mW	SM PM	FC/APC
	BrixX® 785-500 NB	785nm / 500mW	MM	FC/APC
	BrixX® 795-15 NB	795nm / 15mW	SM PM	FC/APC
	BrixX® 852-50 NB	852nm / 50mW	SM PM	FC/APC
	BrixX® 855-50 NB	855nm / 50mW	SM PM	FC/APC
	BrixX® 976-500 NB	976nm / 500mW	SM	FC/APC
	BrixX® 1064-40 NB	1064nm / 40mW	SM PM	FC/APC
	BrixX® 1064-300 NB	1064nm / 300mW	SM PM	FC/APC
	BrixX® 1064-500 NB	1064nm / 500mW	SM	free space
	BrixX® 1083-30 NB	1083nm / 30mW	SM PM	FC/APC
BrixX® 1550-40 NB	1550nm / 40mW	SM PM	FC/APC	
Polarisation	>100:1 vertical for single-mode (SM or SM PM) models for Multi-mode (MM) models, polarisation depends on laser type			
Long term power stability	<1% / 8h			
RMS Noise 20Hz...10MHz 10MHz...500MHz	<0.5% (CW) <0.5% (CW)			
Operation Modes Mode 1 Mode 2 Mode 3 Mode 4 Mode 5	CW operation (ACC - Automatic Constant Current) CW operation (APC - Automatic Power Control) Analogue modulation Digital modulation Analogue + Digital modulation			
Analogue modulation Input signal type	>1.5MHz 0...5V / 1,2kOhm or 0...1V / 50 Ohm (user selectable via software)			
Digital modulation Input signal type	>1.5MHz TTL (2kOhm)			
Laser Enable (electronic shutter) Input signal type	>500kHz (full ON/OFF) TTL (2kOhm)			
Rise- and falltime	Analogue: < 200ns Digital: < 200ns Laser Enable: < 500ns			
Extinction ratio	Analogue: >1000 : 1 Digital: >250:1 Laser Enable: infinite (full ON/OFF)			
Supply voltage	12 ... 24 VDC nominal (11.0 ... 25VDC max.)			
Control interface	RS-232 and USB 2.0			
Dimensions laser head	186 x 65 x 60 mm (l x w x h)			
Options & Accessories	<hint> BR1XX.PSU </hint> Switch-mode power supply unit with 85-245VAC, 50/60Hz input and 24VDC / 3Amp. output</hint> XX.CDRH			
			world wide power supply unit for BrixX series lasers	
			remote control box with key switch and emission LED for CDRH compliant operation	

Laser Safety classification:

Class 3B

400-700nm:



700-1064nm:



1064-1600nm:

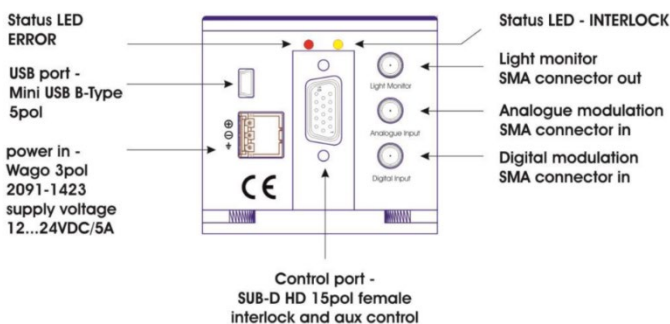


Class 4:

700-1500nm:



Control Interface



Ordering Code

