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For Life Science Applications

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ISO 9001:2008



The Omicron Laser Series

BrixX[®]



Multi-Mode optical
output power up to 2.5 Watt

Single-Mode optical
output power up to 500mW

Fibre output or free
space emission

Fast analogue and
digital modulation

Automatic Aging
Compensation

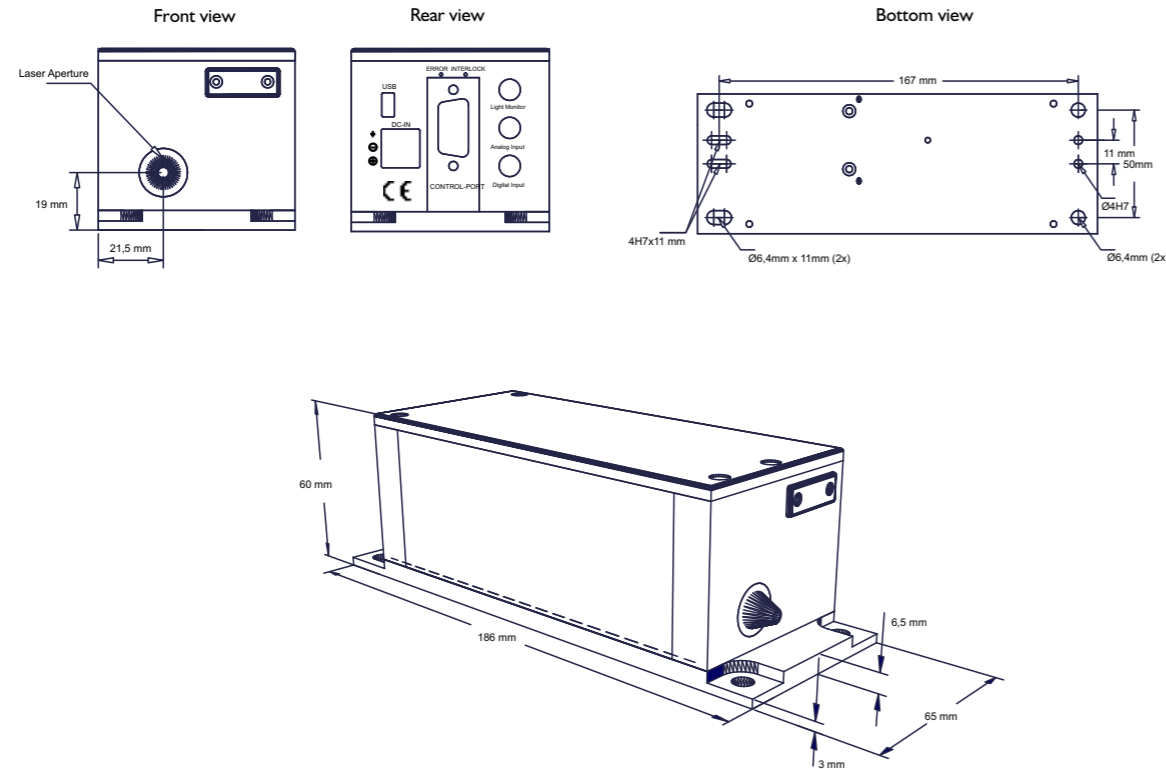
USB2.0 and RS-232 interface

The BrixX[®] diode laser series offers the possibility of integration and operation of all industry standard “Butterfly” packaged laser diodes of free-space or fibre pigtailed type. A broad variety of wavelengths and single-mode or multi-mode output powers up to 2.5 Watt can be integrated into the BrixX[®] Butterfly platform. The versatility of the BrixX[®] BF covers a wide range of applications like RAMAN spectroscopy, machine vision, metrology and many more. The USB2.0 and the RS-232 interface allow deep integration of the lasers into the application’s process.

Applications:

Machine Vision
RAMAN Spectroscopy
Test and Measurement
....

BrixX dimensions



Model	BrixX [®] 532-50	BrixX [®] 635-100	BrixX [®] 760-10	BrixX [®] 763-10	BrixX [®] 773-20	BrixX [®] 780nm	BrixX [®] 785nm	BrixX [®] 785-40	BrixX [®] 785-350	BrixX [®] 795-40	BrixX [®] 852-50	BrixX [®] 855-50	BrixX [®] 975-450	BrixX [®] 976-500	BrixX [®] 1060-40	BrixX [®] 1063-40	BrixX [®] 1064-300	BrixX [®] 1064-400	BrixX [®] 1064-500	BrixX [®] 1083-30
Wavelength (+/- 5nm)	532nm	635nm	760nm	763nm	773nm	780nm	785nm	785nm	795nm	852nm	855nm	975nm	976nm	1060nm	1063nm	1064nm	1064nm	1064nm	1064nm	1083nm
Optical output power	50mW	100mW	10mW	10mW	20mW	20mW	40mW	350mW	40mW	50mW	50mW	450mW	500mW	40mW	40mW	300mW	400mW	500mW	30mW	
SM/MM	SM	MM	SM PM	SM PM	SM PM	SM PM	SM PM	SM	SM PM	SM PM	SM PM	SM PM	SM PM	SM PM	SM PM	SM PM	SM PM	SM PM	SM	SM PM
Output	free space	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	free space	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	free space	FC/APC
Polarisation	> 100:1 vertical for single-mode (SM or SM PM) models unpolarised for multi mode (MM) Models																			
Long term power stability	< 1% / 8h																			
RMS Noise 20Hz...10MHz	< 0.5% (CW)																			
RMS Noise 10MHz...500MHz	< 0.5% (CW)																			
Operation Modes																				
Mode 1	CW operation (ACC - Automatic Constant Current)																			
Mode 2	CW operation (APC - Automatic Power Control)																			
Mode 3	Analogue modulation																			
Mode 4	Digital modulation																			
Mode 5	Analogue + Digital modulation																			
Analogue modulation																				
Modulation bandwidth	> 1.5MHz																			
Input signal type	0...5V / 1,2kOhm or 0...1V / 50 Ohm (user selectable via software)																			
Digital modulation																				
Modulation bandwidth	> 1.5MHz																			
Input signal type	TTL (2kOhm)																			
Laser enable input (electronic shutter)																				
Modulation bandwidth	> 500kHz (full ON/OFF)																			
Input signal type	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 ... 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	BRIXX.PSU - world wide power supply unit for PhoxX series lasers XX.CDRH - remote control box with key switch and emission LED for CDRH compliant operation																			