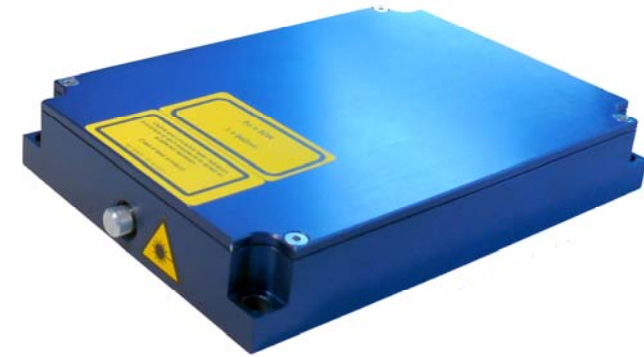


Multiple Wavelength Diode Laser out of one Fiber



Features:

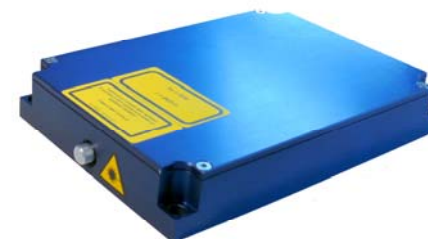
- Mixed wavelenth out of one 200 or 400µm fiber
- 808, 915, 940, 980, 1064 and/or 1470nm
- Individual power control for each wavelength
- 635nm Red pilot beam
- Power monitor
- Fiber detector
- Temperature sensor
- High efficiency and high reliability

Description / Applications

The LUxxxxCyyy series allows to combine different wavelength in one diode laser system with one single fiber output. 808, 915, 940, 980, 1064 or 1470nm can be combined. Each wavelength diode segment can be controled individually. The device consists of hermetically sealed single emitter modules in a rugged industrial package. Long lifetime is ensured due to extensive screening and facet passivation technology.

The performance makes it a variable medical treatment laser source.

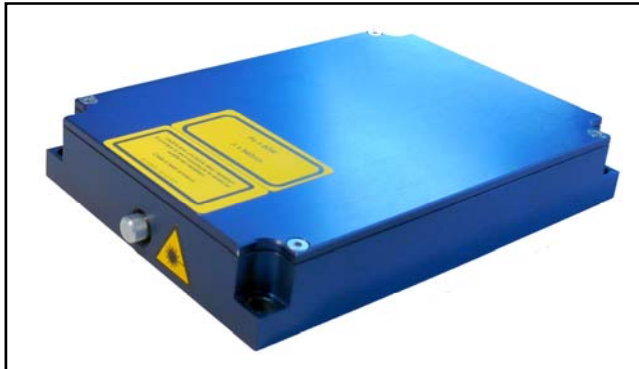
Example:
 15W 808nm & 15W 980nm
 635nm red pilot beam
 Diode Laser



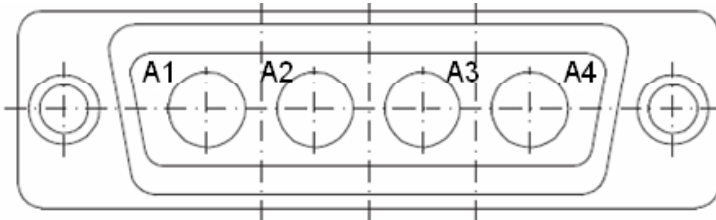
Specifications at 25°C:	Conditions	typical	Unit
c.w. Optical output power*	808nm	15	W
	980nm	15	W
Wavelength	25°C	808 +/- 10	nm
		980 +/- 10	nm
Operating current / voltage	808nm	5 / 7.4	A / V
	980nm	11 / 3.8	A / V
Output fiber core diameter / SMA 905 connector		200 or 400	µm
Numerical Aperture		0.22	N.A.
Red pilot beam:			
Wavelength		635+/-20	nm
Optical output power		1-2	mW
Operating Voltage		5	V
Temperature sensor	NTC	10	kOhm
Power Monitor		0.5 – 20	µA/W

* Other power mixture on request

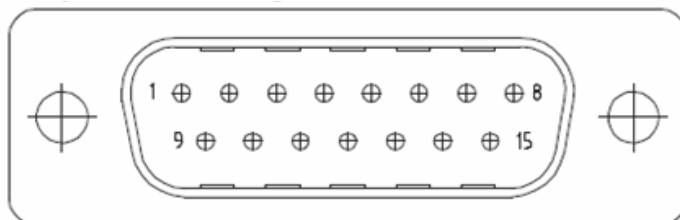
Dimensions:
110 x 160 x 26 mm



4-pole Power Connector:



15-pole D-Sub Signal Connector:



4-pole Power Connector

808nm: A1 LD Anode (+)
A2 LD Cathode (-)
980nm: A3 LD Anode (+)
A4 LD Cathode (-)

15-pole D-Sub Signal Connector

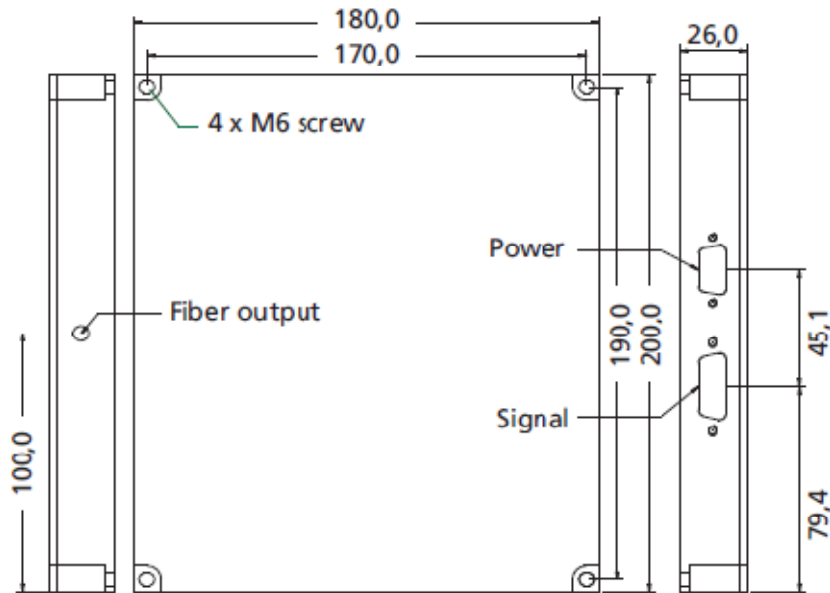
1: Fiber Connector V+*
2: Fiber Connector Gnd*
3: Fiber Connector Sensor 1 output*
4: Fiber Connector Sensor 2 output*
5: Pilot Laser +*
6: Pilot Laser -*
7/8: Temp. Sensor 1 for Diode Laser*
9: Photo Diode 1 +
10: Photo Diode 2 +*
11: Photo Diode Gnd
12/13: Temp. Sensor for Fiber Connector*
14/15: Temp. Sensor 2 for Diode Laser*
* = Option

Example 2:
 25W 980nm, & 25W 1064nm & 15W 1470nm
 635nm red pilot beam
 Diode Laser



Specifications at 25°C:	Conditions	typical	Unit
c.w. Optical output power*	980nm	25	W
	1064nm	25	W
	1470nm	15	W
Wavelength	25°C	980 +/-10	nm
		1064 +/-10	nm
		1470 +/-10	nm
Operating current / voltage	980nm	10 / 5.7	A / V
	1064	9 / 7.6	A / V
	1470nm	8 / 30	A / V
Output fiber core diameter / SMA 905 connector Numerical Aperture		400	µm
		0.22	N.A.
Red pilot beam:			
Wavelength		635+/-20	nm
Optical output power		1-2	mW
Operating Voltage		5	V
Temperature sensor	NTC	10	kOhm
Power Monitor		0.5 – 20	µA/W

* Other power mixture on request

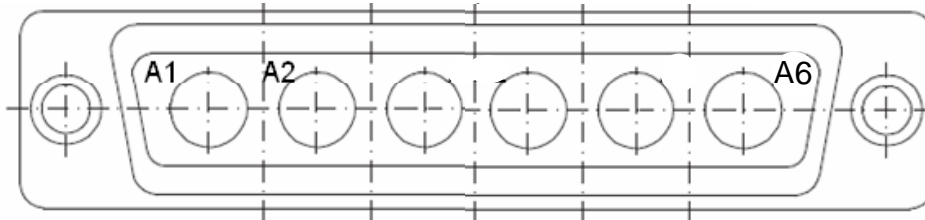


Dimensions (mm):
180 x 200 x 26 mm

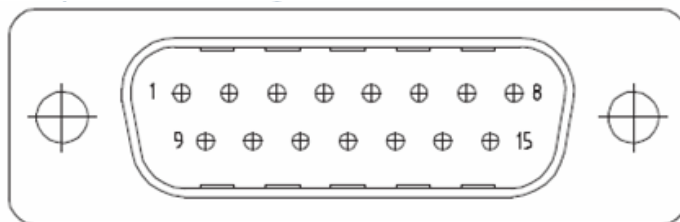
6-pole Power Connector

- 980nm: A1 LD Anode (+)
A2 LD Cathode (-)
- 1064nm: A3 LD Anode (+)
A4 LD Cathode (-)
- 1470nm: A5 LD Anode (+)
A6 LD Cathode (-)

6-pole Power Connector:



15-pole D-Sub Signal Connector:



15-pole D-Sub Signal Connector

- 1: Fiber Connector V+*
 - 2: Fiber Connector Gnd*
 - 3: Fiber Connector Sensor 1 output*
 - 4: Fiber Connector Sensor 2 output*
 - 5: Pilot Laser +*
 - 6: Pilot Laser -*
 - 7/8: Temp. Sensor 1 for Diode Laser*
 - 9: Photo Diode 1 +
 - 10: Photo Diode 2 +*
 - 11: Photo Diode Gnd
 - 12/13: Temp. Sensor for Fiber Connector*
 - 14/15: Temp. Sensor 2 for Diode Laser*
- * = Option