

# Q-MACS Basic LH8



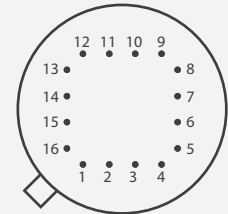
## technical specification

The Q-MACS Basic LH8 is an advanced QC Laser driver system for absorption spectroscopic applications. The Q-MACS Basic 1.5 T08 has nearly the same functionality as the Q-MACS Basic but comes equipped with a very small laser head. It can be utilized for research and industrial purposes. The QMACS Basic 1.5 consists of the compact QC laser head, a power supply and a cable connection. It comes with special control software (Q-MACSoft 2.0) to drive the QCL and monitor your processes.

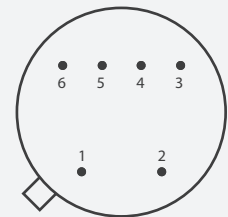
### head

dimensions	25 mm x 25 mm x 50 mm [1]
weight	62 g [1]
connector	<ul style="list-style-type: none"> <li>▪ Binder RD08 Serie 711</li> <li>▪ SMA</li> </ul>

1 TEC (-)	9 Thermistor
2 n.c.	10 Thermistor
3 n.c.	11 n.c.
4 TEC (+)	12 n.c.
5 LD (+)	13 LD (-)
6 LD (+)	14 LD (-)
7 LD (+)	15 LD (-)
8 LD (+)	16 LD (-)



1 TEC (-)
2 TEC (+)
3 Thermistor
4 Thermistor
5 LD (+)
6 LD (-)



tested TO-8 QCL	Laser Components, nanoplus
-----------------	----------------------------

### pulse driver

supply voltage	+9 V
QCL voltage	0 – 15 V
QCL current	max. 2 A
frequency	1 Hz – 1 MHz
pulse width	10 ns – 1000 ns

### temperature controller

max. TEC voltage	1.8 V
max. TEC current	±1.5 A
QCL temperature range	20 °C to +30 °C
heat sink	air or water cooling

[1] without additional heat sink

