

Laser Measuring Device LLB 500 (H) - A

LLB500-A-1-GB-1
06/12 Revision 04
010203-0400XX99-9999



- + Analog interface: 0...20 mA or 4...20 mA
- + RS232 -, RS422 -, SSI - interface
- + Detection of positions
- + Non contact distance measurement
- + Distance measurements on
 - natural surfaces : 0.05 up to approx. 65 m
 - reflective target plate : 0.5 up to approx. 500 m
- + LLB500-00600, LLB500-00601: without heating
- + LLB500-00610, LLB500-00611: with heating
- + Programmable

Characteristics

Supply voltage.....	9...30 VDC
- with heating.....	24...30 VDC
Current consumption without load.....	≤ 0.6 A
- with heating.....	≤ 2.5 A
Measuring range	
- on natural surfaces	typically 0.05...65 m
- on orange reflective target plate	typically 0.5...500 m
Smallest unit displayed.....	0.1 mm
Measuring accuracy	
- LLB500-00600, LLB500-00610	typically ± 1 mm at 2σ
- LLB500-00601, LLB500-00611	typically ± 3 mm at 2σ
Time for a measurement	
- Single measurement.....	typically 0.3 s...4 s
- Tracking Mode	typically 40 ms...4 s
Light source.....	Laser diode, red light
- Wavelength λ	620...690 nm
- Laser protection class.....	2 accor. IEC 60 825-1:2007 / FDA 21CFR 1040.10 and 1040.11
- Beam divergence.....	0.16 x 0.6 mrad
- Pulse duration	0.45×10^{-9} s
- Radiant power.....	≤ 0.95 mW
- Life time	> 50.000 h at 20 °C
Analog interface ¹⁾	0...20 mA, 4...20 mA, ≤ 500 Ω
Configuration interfaces.....	RS232 Point to Point, RS422 Master – Slave, max. 10 devices
Data interface ¹⁾	SSI
Digital switching outputs	Open Drain, 30 VDC, 200 mA
- 2 Digital outputs for level control ¹⁾	programmable
- 1 Digital output.....	Device error
Digital input ¹⁾	external triggering
- Switching level.....	1-level > +9V...< +30 V, 0-level < 2 V
Mass.....	690 g, 720 g with heating

¹⁾ programmable parameter

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996 $\leq 50 \text{ m/s}^2$, Sinus 50-2000 Hz
 Schock, DIN EN 60068-2-27: 1995 $\leq 300 \text{ m/s}^2$, Halbsinus 11 ms

EMV

- Entladung statischer Elektrizität, IEC 61000-4-2: 1995+A1+A2
- Störfestigkeit, DIN EN 61000-6-2: 2001
- Störaussendung DIN EN 61000-6-4: 2001

Arbeitstemperatur

- Standard -10 °C...+50 °C
- im Tracking Mode -10 °C...+45 °C

Arbeitstemperatur mit Heizungsoption

- Standard -40 °C...+50 °C
- im Tracking Mode -40 °C...+45 °C

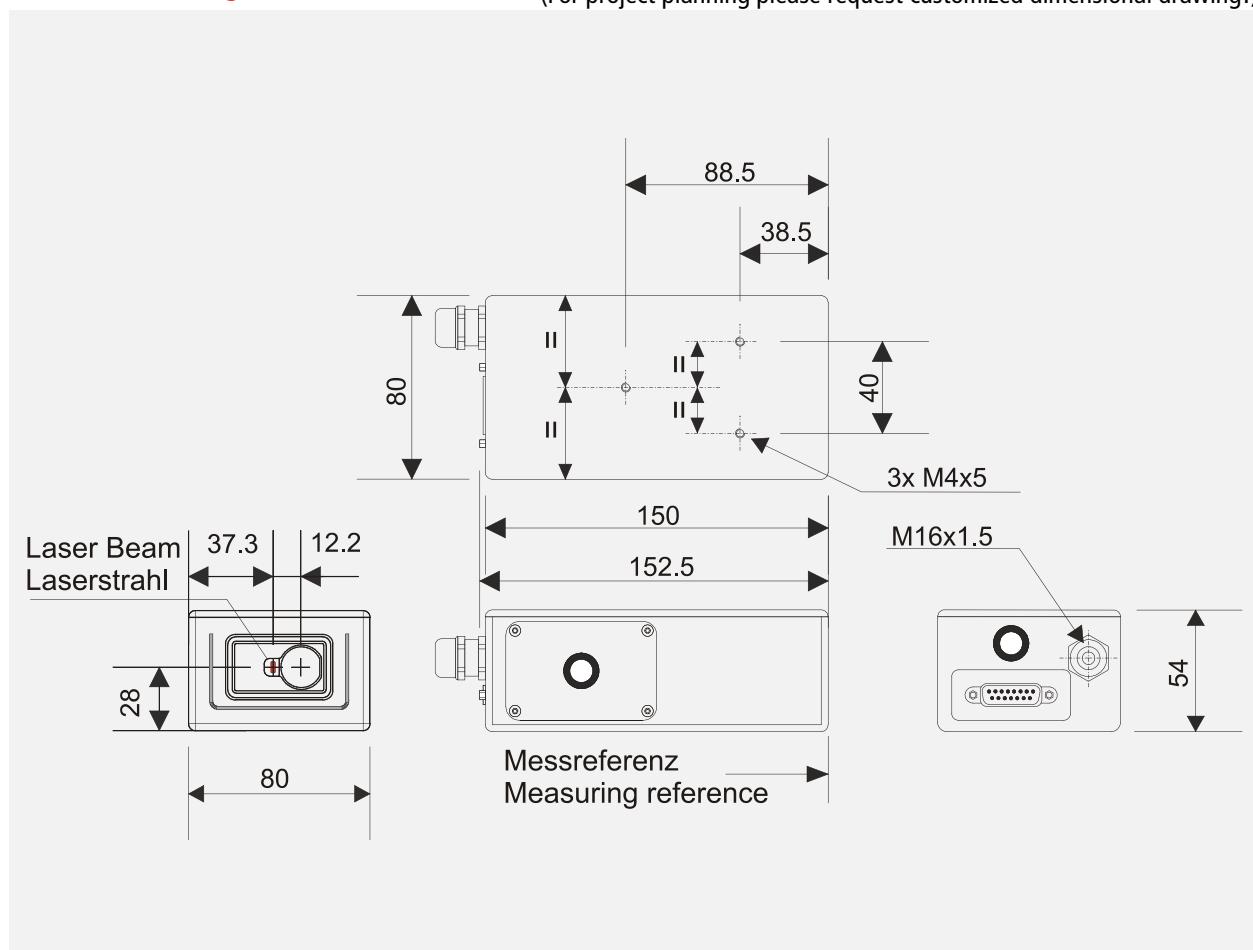
Lagertemperatur -40 °C...+70 °C, trocken

Schutzart, DIN EN 60529: 1991 ²⁾ IP 65

²⁾ gültig mit aufgeschraubtem Gegenstecker und/oder verschraubter Kabelverschraubung

Dimension drawing

(For project planning please request customized dimensional drawing!)



Subject to change