

Laser Measuring Device LLB 65 (H) - A

LLB65-A-1-GB-1
06/12 Revision 03
010203-0400XX99-9999



- + Analog interface: 0...20 mA or 4...20 mA
- + RS232 -, RS422 - interface
- + Detection of positions
- + Non contact distance measurement
- + Distance measurements on natural surfaces:
0.05 up to approx. 65 m
- + LLB65-00600, LLB65-00601: without heating
- + LLB65-00610, LLB65-00611: 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.....	typically 0.05...65 m
Smallest unit displayed.....	0.1 mm
Measuring accuracy	
- LLB65-00600, LLB65-00610.....	typically ± 1.5 mm at 2 σ
- LLB65-00601, LLB65-00611.....	typically ± 3.0 mm at 2 σ
Time for a measurement	
- Single measurement.....	typically 0.3...4 s
- Tracking Mode.....	typically 0.15...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 x 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
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 > +9 V...< +30 V, 0-level < 2 V
Mass.....	690 g, 720 g with heating

¹⁾ programmable parameter

Subject to change

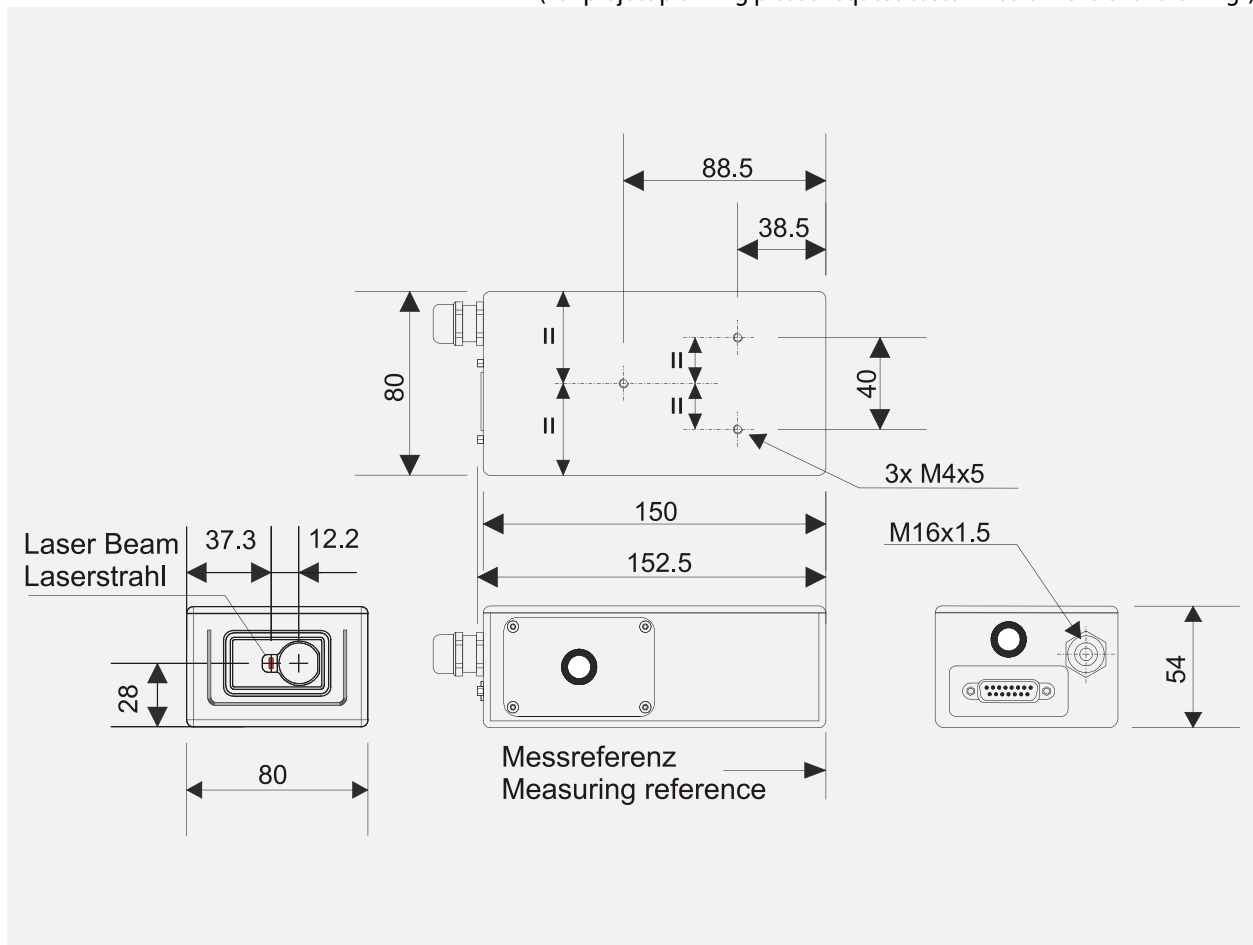
Environmental conditions

Vibration, DIN EN 60068-2-6: 1996	≤ 50 m/s ² , sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	≤ 300 m/s ² , half-sine 11 ms
EMC	
- Discharge of static electricity, DIN EN 61000-4-2: 1995+A1+A2	
- Immunity to disturbance, DIN EN 61000-6-2: 2001	
- Emission, DIN EN 61000-6-4: 2001	
Working temperature	
- Standard	-10 °C...+50 °C
- Tracking Mode	-10 °C...+45 °C
Working temperature with heating	
- Standard	-40 °C...+50 °C
- Tracking Mode	-40 °C...+45 °C
Storage temperature	-40 °C...+70 °C, dry
Protection class, DIN EN 60529: 1991 ²⁾	IP 65

²⁾ valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)



Subject to change