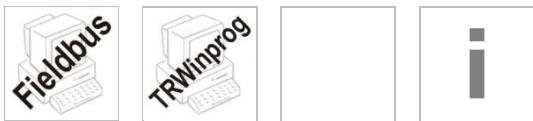


Laser Measuring Device LE 200 - EIP

TR-VLE-TI-GB-0137

06/12 Revision 01

010203-02000303-XXXX



- + EtherNet/IP interface
- + Robust
- + Measurement of linear movement
- + Non contact distance measurement
- + Measuring distance up to 125m, 170m, 195m
other distances on request
- + Parametrizable
- + Further interfaces available
- + Customized adaptations upon request

Characteristics

Supply voltage

- Standard 18...27 V DC, ± 5 %
- With heating 24 V DC, ± 5 %

Current consumption, without load

- Standard < 350 mA
- With heating < 2.5 A

Measurement principle

Phase shift measurement

Measuring length, against reflector foil

0.2...125 m standard, 170m, 195m (special devices)

Resolution selectable¹⁾

physical resolution 0.1 mm

Linearization

- up to 12 m, standard absolute linearity error ± 3 mm
- complete measuring length absolute linearity error ± 5 mm

Reproducibility

± 2 mm

Laser diode, red light

Laser Protection Class 2 according to DIN EN 60 825-1: 2003-10

- Wave length λ 670 nm
- Laser power P_{max} ≤ 1 mW
- Lifetime, 25 °C 50 000 h

Measurand output / refresh rate

1000 values / s

Integration time

1 ms

Programmable via RS485

WINDOWS® compatible (TRWinProg) / EtherNet/IP

EtherNet/IP

IEC 61784-1:2003 CP 2/2 Type 2, IEC 61158:2003 Type 2

- Physical Layer EtherNet/IP 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code Binary
- Device profile Encoder Device Profile 0x22, ODVA specification
- Transmission rate 100 MBit/s
- Transmission CAT-5e cable, shielded (STP), ISO/IEC 11801
- Parameter¹⁾ Count direction, Resolution, Preset value, speed, among others

Switching input / Switching output¹⁾

- Levels switching input 1-level > +8 V, 0-level < +2 V, up to ±35V, 5 kOhm
- Levels switching output 1-level > US-2 V, 0-level < 1 V, up to 100 mA

¹⁾ programmable parameter

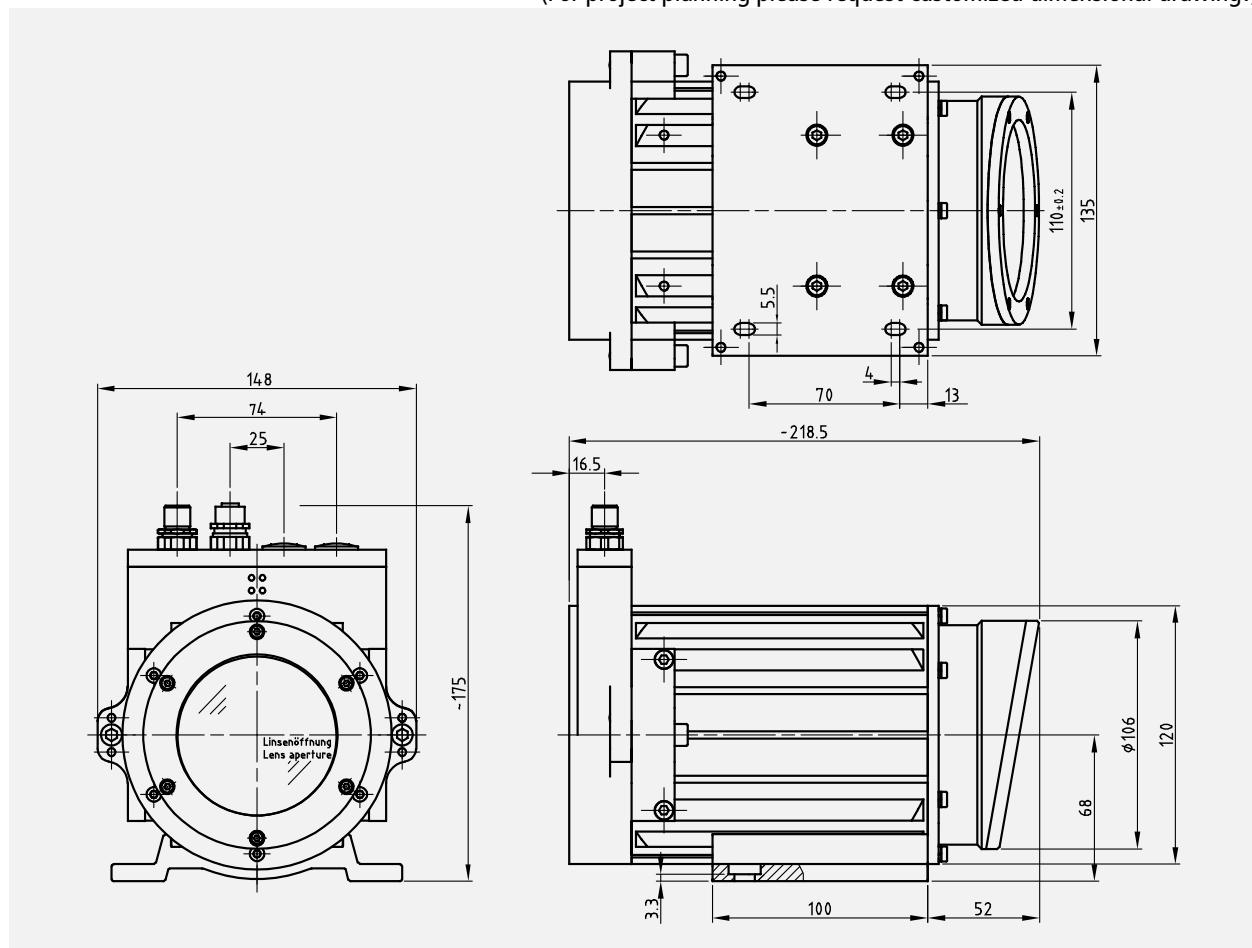
Environmental conditions

Vibration, DIN EN 60068-2-6: 1996	$\leq 50 \text{ m/s}^2$, sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	$\leq 300 \text{ m/s}^2$, half-sine 11ms
EMC	
- Immunity to disturbance, DIN EN 61000-6-2: 2006	
- Transient emissions, DIN EN 61000-6-3: 2007	
Working temperature	
- Standard	0...50 °C
- With heating	-30 °C...+50 °C
Storage temperature	-20 °C...+75 °C, dry
Thermal drift, related to the max. measuring length.....	1 ppm / °C at 125 m, 170 m or 195 m
Relative humidity, DIN EN 60068-3-4: 2002	98 %, non condensing
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