

Laser Measuring Device LE-100 IBS

Eglshalde 6
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 Germany



- **Robust**
- **Measurement of Linear Movement**
- **Non Contact Distance Measurement**
- **Measuring Distance Up To 100 m**
- **Interface : INTERBUS-S**
- **Programmable via Interbus-S**

Electrical Data

Measurement Principle.....	Phase shift measurement
Range (LE100 to Reflector).....	0.2 to 100 m
Resolution	0.5 mm
Supply Voltage	18-27 V DC ± 5 %, 24 V DC ± 5 % (device with heating)
Power Dissipation (No Load).....	< 6 Watt, < 60 Watt (device with heating)
Light Source.....	Laser Diode (Red Light)
Wave Length λ	670 nm
Maximum Laser Power	P ≤ 1 mW
Laser Protection Class.....	2 (IEC 825)
Lifetime (25°C / 77° F).....	50 000 h
Light Receiver	Photo Diode
Measurement Value Output.....	≥ 0,001 mm
Measurement Value Output / Cycle Time.....	1000 values per second
Reproduction	± 2 mm
Programmable via RS485	PC IBM compatible EPROG software / INTERBUS-S
Interbus-S Interface:.....	Interbus-S according to DIN 19258, Two-wire remote bus for transmission and receive direction, RS422 with galvanic isolation
Profile:.....	K3
Ident-No.:.....	55 dec.
Number of words:	2 IN / 2 OUT
Baud rate:	300 kbps net, 500 kbps gross (including control and status bytes)
Data refresh:.....	0,5 ms
Output code:	Binary
Special features:	Programming the following parameters via the INTERBUS-S: - Resolution, - Preset preselection, - Measuring initial value, - Counting direction, Error value, - Preset releasing

Environmental Data

Electromagnetic compatibility	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature	0° to 50°C (32° F to 122° F), -30° to +50°C (device with heating)
Thermal drift.....	1 ppm / °C
Storage temperature range.....	-20° to 75°C (- 4° F to 167° F)
Relative Humidity.....	98 % (non condensing)
* Protection Class.....	IP 65 (DIN 40 050)
* The protection class of the device can be effected by the type of cable and connector used.	

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Mechanical Data

Vibration (50-2000 Hz Sinusoidal) DIN IEC 68-2-6
 Shock (11ms) DIN IEC 68-2-27
 Mechanical Special Types Upon Request
 Connection..... Screw Terminals, 3 x PG 9

Dimension drawing

