

Laser Measuring Device LE-200 IBS

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- **Robust**
- **Measurement of Linear Movement**
- **Non Contact Distance Measurement**
- **Measuring Distance Up To 125 m (195 m)**
- **Interface : INTERBUS-S**
- **Programmable via Interbus-S**

Electrical Data

Measurement Principle	Phase shift measurement
Range (LE200 to Reflector)	0.2 to 125 m, with special reflector up to max. 195 m
Resolution	0.01mm, 0.1mm, 1mm, 10mm, 0.1 Inch, 1 Inch
Linearisation	
up to 12m (standard).....	absolute linearity error ±3 mm
complete measuring length.....	absolute linearity error ±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) / Laser Protection Class 2 (IEC 825)
Wave Length λ.....	670 nm
Maximum Laser Power	P ≤ 1 mW
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 TRWinProg 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 or 2000 kbps (including control and status bytes)
Data refresh:	0,5 ms
Output code:.....	Binary
Special features:	Programming the following parameters via the INTERBUS-S: - Resolution, - switch off or switch on Laser diode, automatically, - Preset preselection, - Counting direction, Error value, - Programming of the external switching input, - Clear Preset

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.	

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, 4 x M16x1.5

Dimension drawing

