

Laser Measuring Device LE-100 DeviceNet

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- **Robust**
- **Measurement of Linear Movement**
- **Non Contact Distance Measurement**
- **Measuring Distance Up To 100 m**
- **Interface : CAN-DeviceNet**
- **Programmable via CAN-Bus**

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 \pm 5 %, 24 V DC \pm 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 \leq 1 mW
Laser Protection Class	2 (IEC 825)
Lifetime (25°C / 77° F)	50 000 h
Light Receiver	Photo Diode
Measurement Value Output	\geq 0,001 mm
Measurement Value Output / Cycle Time	800 values per second
Reproduction	\pm 2 mm
CAN-DeviceNet Interface	CAN-Fieldbus-Interface (opto-isolated) / CAN-BUS-Driver (ISO/DIS 11898)
Baud rate (adjustable)	125 kbaud, line length up to 500 m 250 kbaud, line length up to 250 m 500 kbaud, line length up to 100 m
Output code	Binary
Special features	Programming of following parameters via the CAN-Bus: - Direction of Counting - Clear Preset - Step-Length - Error value - Preset - Preset-Adjustment

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, 3 x PG 9

Dimension drawing

