

Laser Measuring Device LE-100 SSI



- **Robust**
- **Measurement of Linear Movement**
- **Non Contact Distance Measurement**
- **Measuring Distance Up To 100 m**
- **Programmable**
- **SSI-Interface (Synchronous-Serial Interface)**

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 %
Power Dissipation (No Load)	< 6 Watt
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	$\geq 0,01$ mm
Measurement Value Output / Cycle Time	1000 values per second
Programmable via RS485	PC IBM compatible EPROG software
* Output Code	Binary, Gray
Clock Input	Opto Coupler Isolated
Clock Frequency	95 kHz - 1 MHz
Transmission Cable Length	Dependent on Cable Cross Section, Shielding, Clock Frequency etc....
Data Output.....	RS422 (2 wire)
* Output Format.....	Standard, with Repetition
Repeatability	± 2 mm
Input Options	
* Preset 1	Adjust absolute position to a given set value (i.e. zero set)
Logic Levels	"0" < + 2 VDC, "1" > + 8 VDC, max. 30 VDC
Pin Configuration	Upon Request
* Programmable Parameters	

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)
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
* Standard Connector	12pin Contact Connector

Dimension drawing

