



Linear potentiometer for length measurement

Features

- This linear displacement sensor, with its lengthways coupling without rods, is specially constructed for accurate recording of distances
- By means of its compact design it is also suitable for high processing speeds
- 1 Can be used in all electrical SAUTER force testing systems to determine distances e.g. within the scope of tensile or pressure testing
- Long service life: on average up to 100×10^6 cycles
- High data collection speed
- High-resolution linear position sensor with 65,000 points over the whole measuring range
- Data transfer box with 16-bit AD converter for high resolution and speed
- 2 You will need the SAUTER AFH LD software to read and evaluate data. This allows clear force-displacement analyses
- Scope of supply: Linear potentiometer, Data transfer box, mains adapter, USB cable



Technical data

- Precision: $\pm 0,5 \%$ of [Max]
- Reproducibility $< 0,03 \text{ mm}$
- Internal measuring frequency: 100 Hz
- Overall dimensions WxDxH
LD 225: 374x68x38 mm
LD 300: 449x68x38 mm
LD 500: 653x68x38 mm
LD 700: 855x68x38 mm
- Cable length approx. 1 m
- Cable length mains adapter approx. 1,2 m
- Net weight approx. 0,7 kg
































Accessories

- 2 Force-displacement data transfer software with graphical representation of the measuring process, only in combination with SAUTER LD, SAUTER AFH LD

STANDARD



Model	Measuring range	Readout	Direction of measurement	
	[Max] mm	[d] mm		
SAUTER				
LD 225	225	0,01	vertical/horizontal	
LD 300	300	0,01	vertical/horizontal	
LD 500	500	0,01	vertical/horizontal	
LD 700	700	0,01	vertical/horizontal	

 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Rechargeable battery pack: rechargeable set.
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 Peak hold function: capturing a peak value within a measuring process.	 Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurements from the device to a PC.	 Motorised drive: The mechanical movement is carried out by a electric motor.
 Push and Pull: the measuring device can capture tension and compression forces.	 Printer: a printer can be connected to the device to print out the measurements.	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.	 Fast-Move: the total length of travel can be covered by a single lever movement.
 Focus function: increases the measuring accuracy of a device within a defined measuring range.	 Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 Internal memory: to save measurements in the device memory.	 Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model	 Factory calibration: The time required for factory calibration is specified in the pictogram.
 Data interface RS-232: bidirectional, for connection of printer and PC.	 ZERO: Resets the display to "0".	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface USB: To connect the balance to a printer, PC or other peripheral devices.	 Battery operation: Ready for battery operation. The battery type is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the balance to a printer, PC or other peripheral devices.		

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