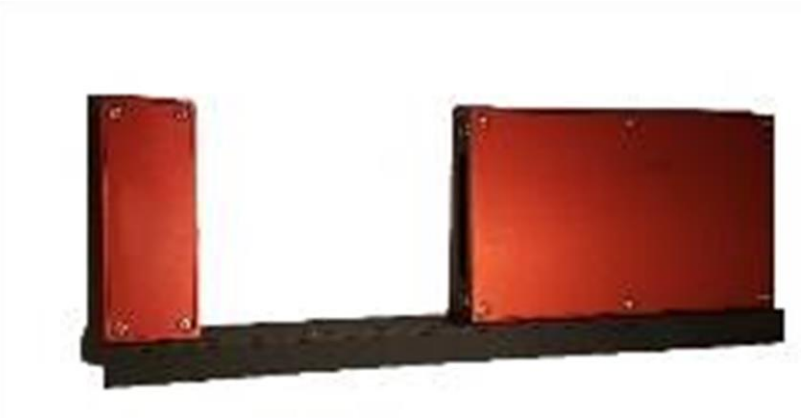
Dr. D. Wehrhahn
Meßsysteme für die Qualitätssicherung



Data sheet LaserMicrometer LM70

The LM70 is a laser measurement system in which the transmitter (laser) and receiver (detector) are separated. Using the laser and the associated optics, a line of parallel light of the desired length is generated and imaged on the receiver. If a measurement object between the transmitter and receiver interrupts the line, part of the receiver is shadowed. The light / dark transition is determined very precisely on the photo detector (shadow measurement principle).

The LM70 systems enable simple and accurate measurement or detection of:

- diameters
- Widths
- Edges
- Roundness and vertical runout
- vibrations

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Data sheet laser micrometer LM70

Operating voltage:	10V 26V
Current consumption @ 12V:	< 170 mA
Interface:	RS232, TXD, RXD (RS422 Simplex TX+, TX-)
Laser:	655nm Laserklasse 1M
Housing:	Aluminium, red - black anodized, potential free
Housing dimensions (L x W x H):	395 mm x 140 mm x 50 mm (see Appendix `C´)
Weight:	2700 g
Mounting:	4 x M5 (see Appendix `C´)
Temperature range in operation:	0°C ..... 50°C
Temperature range in stock:	-25° ..... 75°C

Measurement data: (optics POG)

Measuring range:	0.4 mm ..... 70 mm
Resolution:	2 µm
Repeat accuracy Edge mode:	+/- 20 µm
Repeat accuracy Dia mode:	+/- 40 µm
Non-linearity Edge mode	+/- 35 µm
Non-linearity Dia mode:	+/- 50 µm
Reaction time:	< 1.5 ms
Measuring rate:	750 Mess./s (1500 Mess./s on request possible)
Mess – Modi:	Edge-Mode, Dia-Mode (see Appendix `B´)

Serielle Schnittstelle:

- Connector:	6-pol. circular socket FISCHER
- Signals:	RXD, TXD, GND
- Baud rate:	4800, 9600, 19200, 38400, 57600, 115200 selectable via coding switch

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