

OptoLine | LSC20 with TS20

Optical Length and Angle Measurement System



Description

The new high precision length and angle measurement system LSC20 (Linear Scale Compact 20) works on a new basis using the optical sampling of fine structures on a thin metal strip (TS20). The system achieves an accuracy rate of 5 μm and is 100 % hysteresis free.

Benefits

- Very small and compact construction design
- Integrated diagnosis LED for simple assembly
- High band/sensor distance
- Flexible scale length up to 30 m
- Reference points can be positioned flexibly
- Optional end marks (thin metal strip) and a limit switch integrated in the sensor – no additional wiring required
- Use in 10⁻⁸ torr vacuum is possible

Typical applications

- Pick & Place
- Linear motors
- High-end digital printers
- Analysis and medical engineering
- Semi-conductors (even in a vacuum)

Technical daten

Characteristic	Technical data
Scale embodiment	TS20 (pitch 20 μm)
Accuracy class	5 μm
Repeat accuracy	1 incremental
Resolution	0.1 μm , 0.05 μm
Reading distance sensor/band	1.0 mm \pm 0.15 mm
Movement speed	up to 4.5 m/s
Operational voltage	5 V DC \pm 5 %
Power consumption	140 mA (with recommended terminal resistance)
Output circuit	LD (RS422) / optional 1 V _{SS} (sin/cos)
Operational temperature	0 ... +70 °C



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