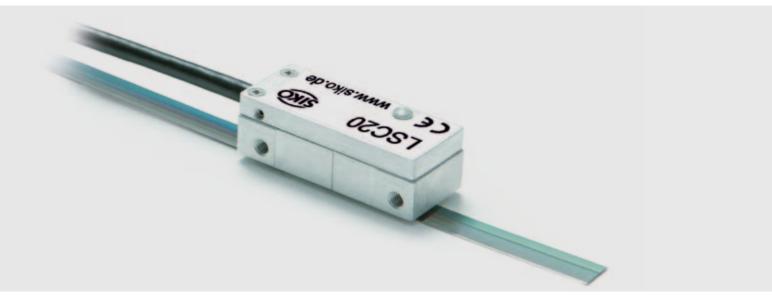


OptoLine | LSC20 with TS20 Optical Length and Angle Measurement System



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

Typical applications

- Pick & Place
- Linear motors
- High-end digital printers
- Analysis and medical engineering
- Semi-conductors and wire bonding

Technical daten

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	Characteristic	Technical data
	Scale embodiment	TS20 (pitch 20 μm)
	Accuracy class	5 μm
	Repeat accuracy	±1 increment
	Resolution	0.1 μm, 0.05 μm
	Reading distance	1.0 mm ±0.15 mm
	sensor/band	
	Movement speed	up to 3.0 m/s
	Operational voltage	5 V DC ±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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