

LSC20 Linear Encoder



Optical Length and Angle Measurement System

Siko - Magnetic Linear Encoders come with 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.

The length and angle measuring system LSC20 (Linear Scale Compact 20) operates on the basis of the optical scanning of fine structures on a thin metal strip with laser light and comes complete hysteresis.

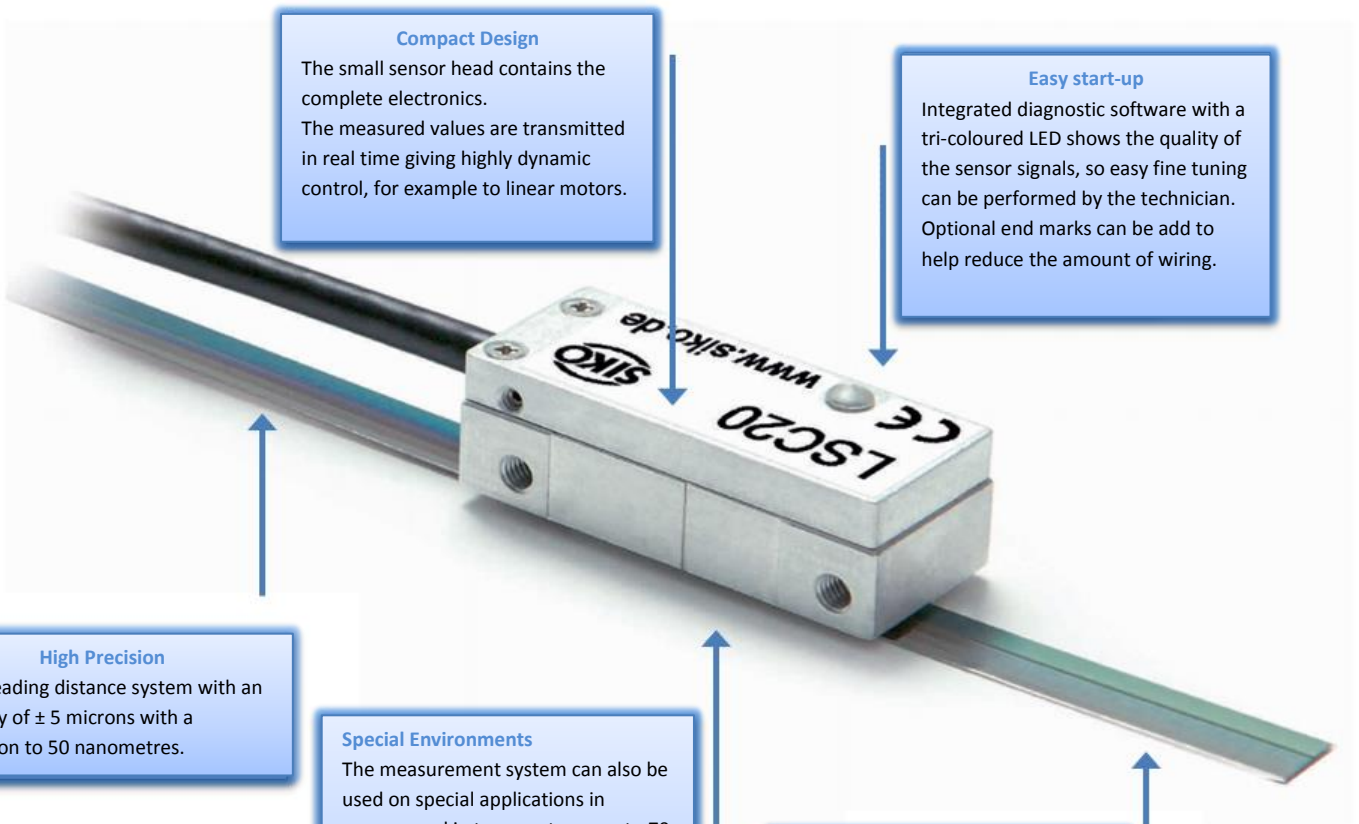
Applications include picking and packing applications, wire bonding machines or linear motors with strong magnetic interference and semiconductor manufacturing. There are also more specialized applications, such as in precision printers or in medical technology.

Compact Design

The small sensor head contains the complete electronics. The measured values are transmitted in real time giving highly dynamic control, for example to linear motors.

Easy start-up

Integrated diagnostic software with a tri-coloured LED shows the quality of the sensor signals, so easy fine tuning can be performed by the technician. Optional end marks can be added to help reduce the amount of wiring.



High Precision

Large reading distance system with an accuracy of ± 5 microns with a resolution to 50 nanometres.

Special Environments

The measurement system can also be used on special applications in vacuum and in temperatures up to 70 degrees Celsius, requiring only a power of 140 milliamps. This makes suitable for laboratory research, testing and analysis equipment and instruments.

Reference points

The user can change the reference points on the coded tape during installation.

Functional and robust and has two special features:

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

