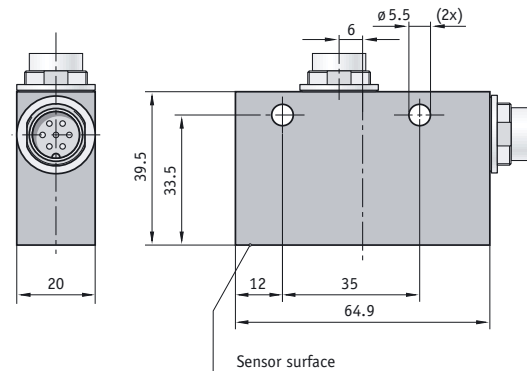


Magnetic sensor MSA510

This sensor gathers the absolute length information of the coded MBA magnetic strip and forms an absolute, linear distance or position measuring system for measuring lengths up to 5 120 mm.



Features:

- compact design with integrated translation module
- SSI interface
- measuring length up to 5 120 mm
- accuracy class 0.05 mm, resolution 0.01 mm
- strip/sensor gap max. 1.0 mm
- use with MBA magnetic strip

| Feature | Ordering data | Technical data | Additional information |
|-----------------------------|---------------|---|-------------------------------------|
| Output circuit | SSI | incl. RS485 service interface | standard |
| | RS485 | SIKO standard protocol | |
| Cable outlet | I | on the side | standard |
| | II | upward | |
| Connection | EX | without mating connector, 7-pin round conn. | standard |
| | E1 | flying lead | |
| | E8 | cable with 9-pin D-SUB connector | |
| Cable length | 1.0 | 0.2 - 20.0 m | standard , only for E1/E8 |
| Measuring length | | max. 5 120 mm | |
| Voltage supply | | 24 V DC $\pm 20\%$ | |
| Power consumption | | < 3.0 VA | |
| Travel speed | | max. 5 m/s | |
| Resolution | | 0.01 mm | |
| System accuracy | | $\pm (0.05 + 0.03 \times L)$ mm, L in m | at $T_U = 20\text{ }^\circ\text{C}$ |
| Repeat accuracy | | max. 0.01 mm | |
| Strip/sensor gap | | max. 1.0 mm | |
| Cycle time | | < 2 ms | |
| Calibration input | | positive switching (24 V DC) | |
| Temperature ranges | | working temperature -20 ... +60 °C | storage temperature -20 ... +70 °C |
| Protection class, test mark | | 3 according to IEC 801 | CE |
| Type of protection | | IP 65 | according to DIN VDE 0470 |
| Housing | | transparent chromated aluminium | |
| Mounting | | 2 lateral fastening bores | |

Accessories in the annex: cable extension, angle and straight coupling boxes

Your order: - - - -