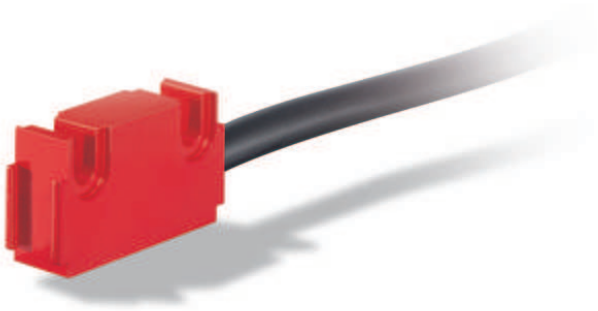
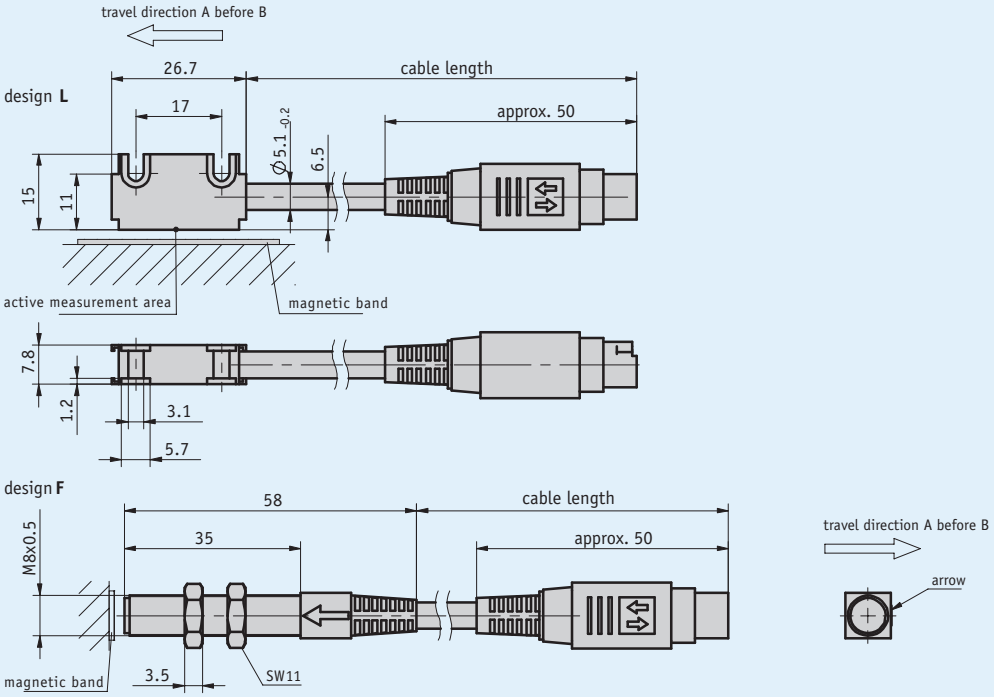
## Profile

- Compact design of sensor and connector
- To be connected to MA502 or MA506
- Works with magnetic tape MB500/1, MR500, MBR500
- Reading distance ≤2 mm






## Mechanical data

| Feature | Technical data | Additional information |
|---|---|---|
| Housing | aluminum red | L design |
| | steel | F design |
| Sensor/band reading distance | 0.1 ... 2 mm | |
| Cable sheath | PUR, PVC | 6-wire ø5.1 $_{-0.2}$ mm |

## Electrical data

| Feature | Technical data | Additional information |
|---|---|---|
| Operating voltage | supply via measurement display / downstream electronic unit | |
| Current consumption | supply via measurement display / downstream electronic unit | |
| Type of connection | mini-DIN | 6-pole, 1x pin (for MA502, MA506, MA523/1 or AS510/1 translation module) |

## System data

| Feature | Technical data | Additional information |
|---|---|---|
| System accuracy | depending on downstream electronic unit | |
| Repeat accuracy | depending on downstream electronic unit | |
| Travel speed | ≤5 m/s depending on downstream electronic unit | |

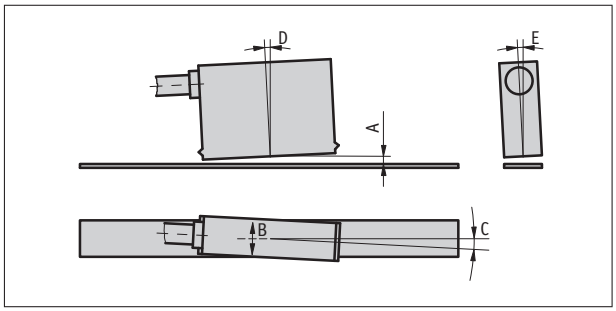
## Ambient conditions

| Feature | Technical data | Additional information |
|---|---|---|
| Ambient temperature | 0 ... 60 °C | |
| Storage temperature | -20 ... 70 °C | |
| Relative humidity | 100 % | condensation admissible (sensor head) |
| Protection category | IP67 | EN 60529 (sensor head) |
| Shock resistance | 2000 m/s$^2$, 11 ms | EN 60068-2-27 |
| Vibration resistance | 200 m/s$^2$, 50 Hz ... 2 kHz | EN 60068-2-6 |

## Hint for mounting

| | |
|---|---|
| A, Sensor/tape reading distance | ≤2 mm |
| B, Lateral offset | ±2 mm |
| C, Alignment error | ±3° |
| D, Longitudinal inclination | ±1° |
| E, Lateral inclination | ±3° |

*The length of the cable between the sensor and connector cannot be subsequently increased or decreased.*




Symbolic representation

## Order

### Ordering information

one or more system components are required:

| | |
|---|---|
| Magnetic band MB500/1 | www.siko-global.com |
| Magnetic ring MR500 | www.siko-global.com |
| Magnetic band ring MBR500 | www.siko-global.com |
| Electronic display MA502 | www.siko-global.com |
| Electronic display MA506 | www.siko-global.com |
| Translation module AS510/1 | www.siko-global.com |

### Ordering table

| Feature | Ordering data | | Specification | Additional information |
|---|---|---|---|---|
| Design | L | A | rectangular | |
| | F | | round | |
| Cable sheath | PVC | B | | |
| | PUR | | oil-resistant | |
| Cable length | ... | C | 00.2 ... 20.0 m, in intervals of 1 m | |

### Order key

MS500 - [A] - [B] - [C]