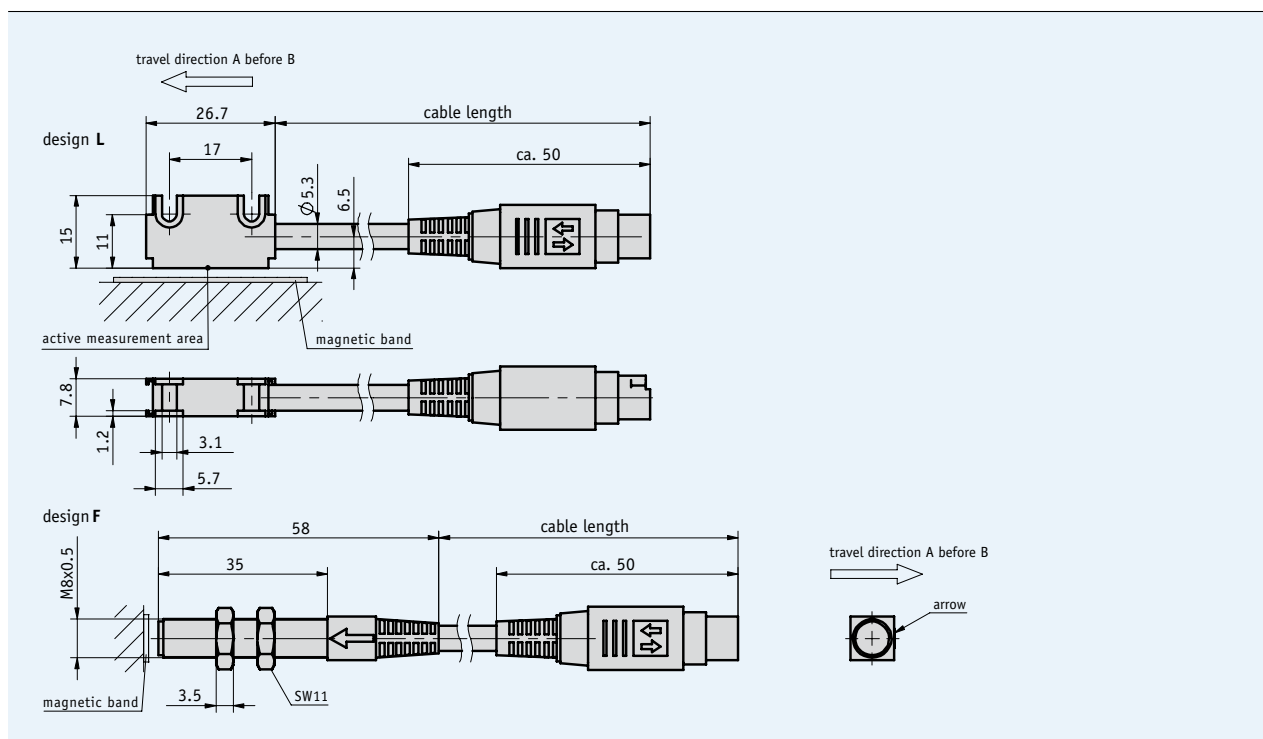


### Profile

- Compact design of sensor and connector
- To be connected to MA502, MA506 or AS510/1
- Works with magnetic band MB500
- Max. sensor/band reading distance 2 mm



5.2

### Mechanical data


Feature	Technical data	Additional information
Scale embodiment	MB500	
System accuracy	depends on downstream electronics unit	
Repeat accuracy	depends on downstream electronics unit	
Sensor/band reading distance	0.1 ... 2 mm	
Travel speed	depends on downstream electronics unit	
Housing	aluminum, varnished red steel	sensor design L sensor design F
Sensor cable	PVC	drag chain-compatible
Operating temperature	0 ... +60 °C	
Storage temperature	-20 ... +70 °C	
Humidity	100 % rh	condensation permitted
Protection category	IP67	
Vibration resistance	5 ... 2000 Hz bei 20 g	
Shock resistance	200 g at 11 m/s	
Max. measuring length	infinite	

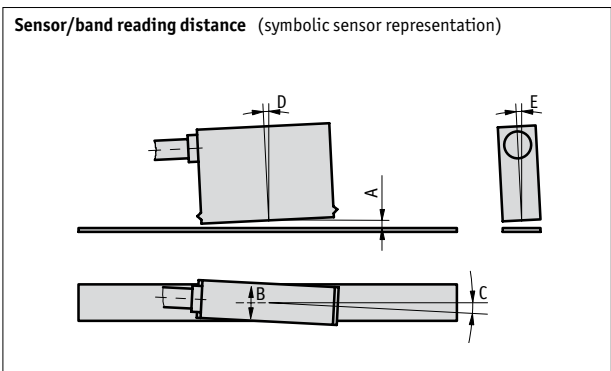
### Electrical data

Feature	Technical data	Additional information
Operating voltage	feed via magnetic display/ downstream electronics unit	
Current consumption	depends on magnetic display/ downstream electronics unit	
Type of connection	Mini-DIN 6-pin	
Interference protection class	3	according to IEC 801
Real-time requirement	real-time signal processing	

### Mounting instruction

A, Sensor/band reading distance	max. 2 mm
B, Lateral offset	max. ±2 mm
C, Misalignment	<±3°
D, Longitudinal tilt	<±1°
E, Lateral tilt	<±3°

 The connection must not be changed (e.g., different cable, cable length ...)



### Order

#### Order table

Feature	Order data	Specifications	Additional information
Sensor design	L	rectangular	
	F	round	
Cable sheath	PVC		
	PUR	oil-resistant	
Cable length L	...	1 ... 20 m, in steps of 1 m	

#### Order code

MS500 -  -  -

**Scope of delivery:** MS500, User information, Allen fastening screws M3 x 14 mm ISO 4762, lock washers M3 DIN 7980, strain relief for sensor cable

#### Additional information:

Short Description, Technical Details  
Product Overview

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