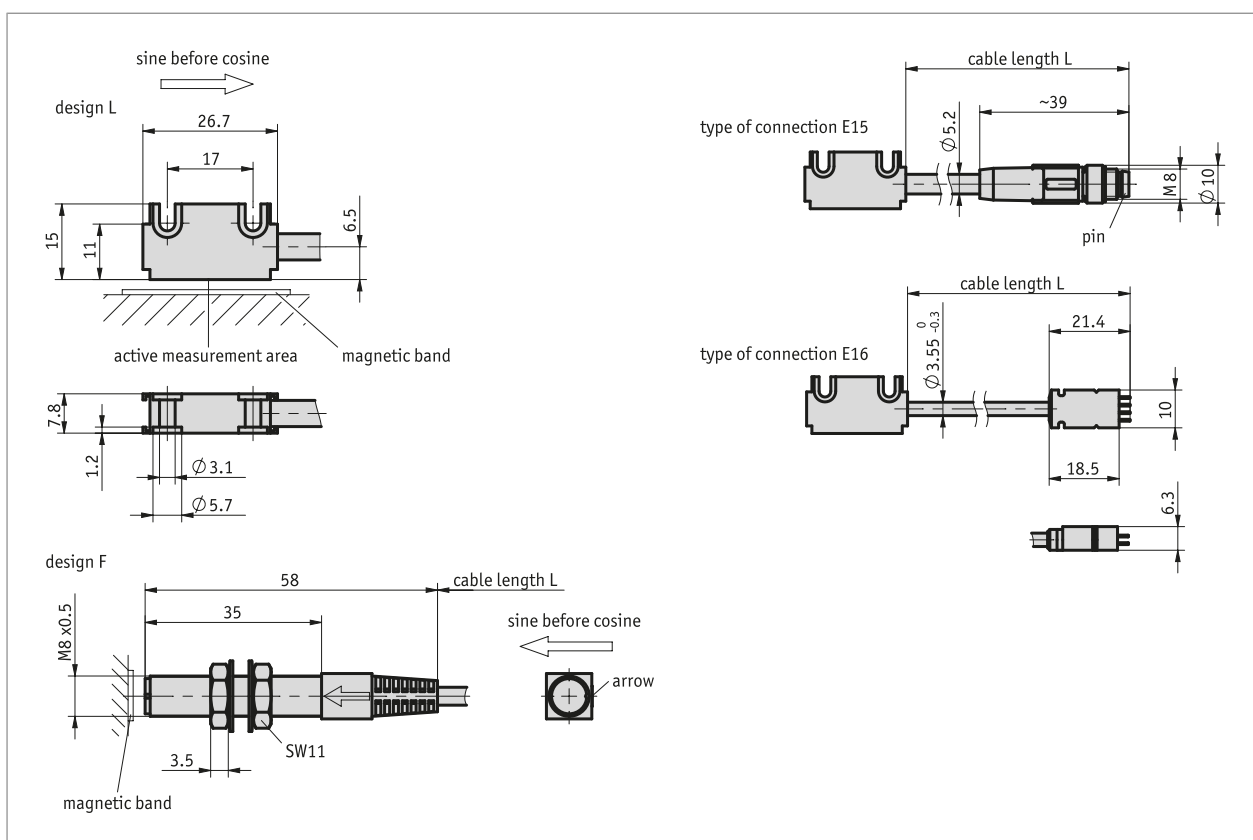
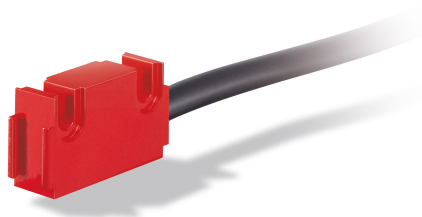


### Profile

- Compact design of sensor and connector
- To be connected to AP10S or AP20S
- To be connected to MA503/2 or MA504/1
- Works with magnetic tape MB500/1, magnetic ring MR500, magnetic band ring MBR500
- Reading distance  $\leq 2$  mm



### Mechanical data

Feature	Technical data	Additional information
Housing	aluminum red steel	L design F design
Sensor/band reading distance	0.1 ... 2 mm	
Cable sheath	PVC PUR	6-core $\varnothing 3.55_{-0.3}$ mm (type of connection) 6-wire $\varnothing 5.2$ mm (E15 type of connection)
Cable bending radius	>17 mm, (static) $\geq 52$ mm, (dynamic)	E16 type of connection E15 type of connection

### 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	flat connector M8 plug connector	8-pole, 1x pin (E16) 6-pole, 1x pin (E15)

### System data


Feature	Technical data	Additional information
System accuracy	depending on downstream electronic unit	
Repeat accuracy	depending on downstream electronic unit	
Travel speed	depending on downstream electronic unit	

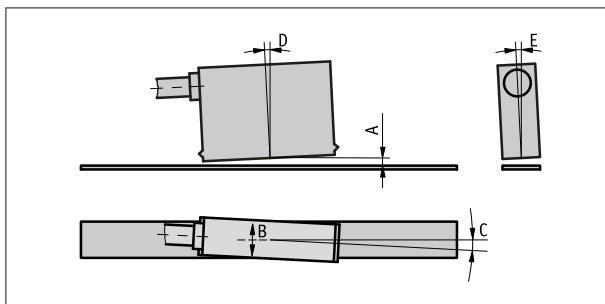
### Ambient conditions

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 <sup>2</sup> , 11 ms	EN 60068-2-27
Vibration resistance	200 m/s <sup>2</sup> , 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 tape MB500/1  
Magnetic ring MR500  
Magnetic band ring MBR500

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#### ■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
design	A L	rectangular	

# Magnetic sensor MS500H

## Passive sensor, miniature design

Feature	Ordering data	Spezifikation	Additional information
	F	round	only with connection type E16
Type of connection	B E15 E16	M8 plug flat connector	for AP10S and AP20S for MA503/2 and MA504/1
Cable length	C ... ...	00.2 ... 10.0 in m 00.5 ... 02.5 m, in intervals of 0.5 m	only with connection type E16 only with connection type E15

### ■ Order key

MS500H -  -  -

A B C



#### Scope of delivery:

MS500H, Fastening set, Installation Instructions