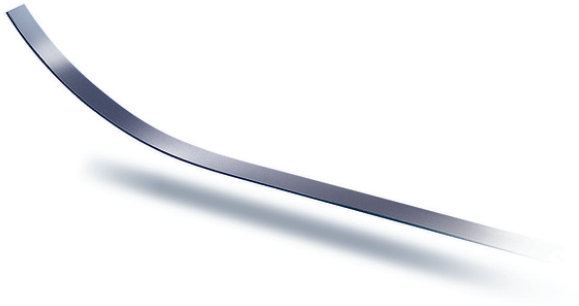
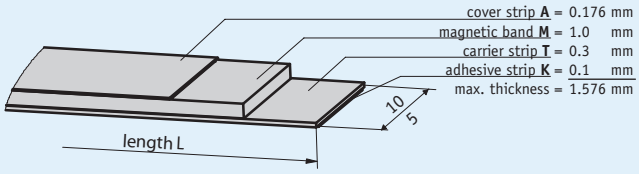
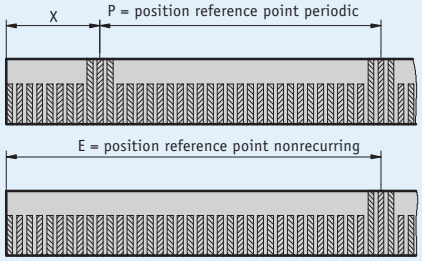
Magnetic band MB500/1
Incrementally coded scale, pole length 5 mm

Profile

- Easy adhesive mounting, self-assembly possible
- Reels up to 100 m available
- Linearity deviation up to ±35 µm







Mechanical data

Feature	Technical data	Additional information
Material	stainless steel	cover strip
Band width	10 mm or 5 mm	
Band thickness	1.4 mm	without cover strip
Mounting type	adhesive connection	premounted double-sided adhesive tape
Accuracy class	35 µm or 50 µm	

- **Measurement table of reference points**

Reference points [m]	
Fixed distance **X**	0.05
Periodic **P**	0.2, 0.3, 0.5
Onetime **E**	0.05, 0.1, 0.2, 0.5, 1, 2

System data

Feature	Technical data	Additional information
Pole length	5 mm	
Linearity deviation	±35 µm	at T_U = 20° C
	±50 µm	at T_U = 20° C
Measuring range	∞	

Ambient conditions

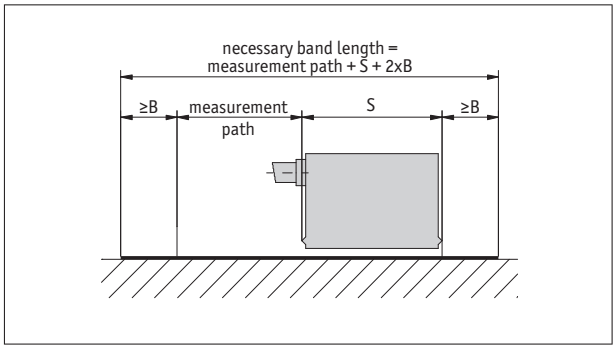
Feature	Technical data	Additional information
Ambient temperature	-20 ... 70 °C	
Storage temperature	-40 ... 70 °C	
Expansion coefficient	(11 ±1) x 10^{-6}/K	spring steel
	(16 ±1) x 10^{-6}/K	stainless steel
Relative humidity	100 %	condensation admissible

Order

Ordering information

The necessary tape length is calculated from:
Measured distance + sensor length "S" + (2 x forerun or overrun "B", resp.).

S	see the drawing of the sensor used
B	10 mm (forerun and overrun)



Symbolic representation

Ordering table

Feature	Ordering data		Specification	Additional information
Length	...	A	000.10 ... 100.00 m, in intervals of 0.1 m	ordering detail, see "Ordering information"
tapewidth	10/10	B	in mm	
	5		in mm	
Accuracy class	50	C	50 µm	
	35		35 µm	
Material carrier tape	St	D	steel	
	VA		stainless steel	
Adhesive carrier tape	TM	E	with	
	T0		without	
Cover strip	AM	F	with	stainless steel
	A0		without	
Masking tape width	10.0	G	in mm	
	5.0		in mm	
Reference point	0	H	without	at width 10 mm optional with flexible reference mark, see accessories
	E		unique	only with 10 mm width
	P		periodic	only with 10 mm width
Reference point position	...	I	0.05, 0.1, 0.2, 0.5, 1.0, 2.0 in m	indicate only if reference point E is chosen, ≤5.0 m
	...		0.2, 0.3, 0.5 in m	indicate only if reference point P is chosen
			others on request	

Order key

MB500/1 - [A] - [B] - [C] - [D] - [E] - [F] - [G] - [H] - [I]

Scope of delivery: *MB500/1*

Accessories:

Profile Rail PS	*www.siko-global.com*
Protective band SB	*www.siko-global.com*
Profile Rail PS1	*www.siko-global.com*
Installation tool ZB3054	*www.siko-global.com*
Flexible reference mark	*Order key 88436*

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