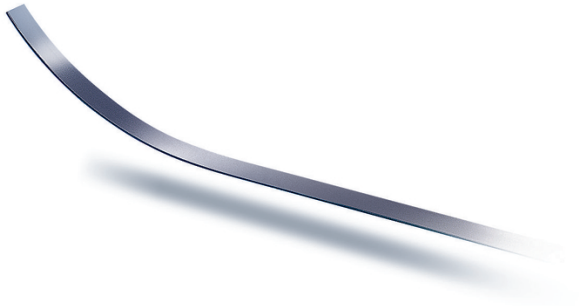
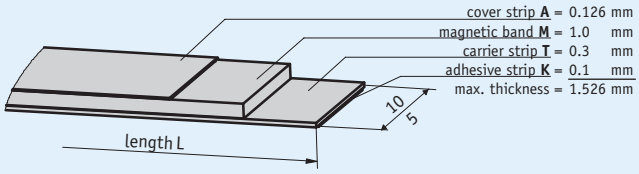
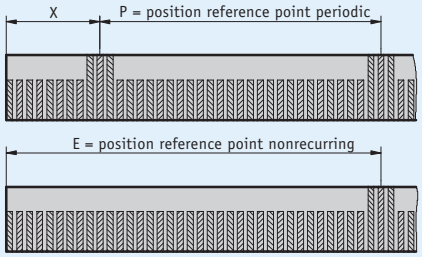
Magnetic band MB100/1
Incrementally coded scale, 1 mm pole length

Profile

- Easy adhesive mounting, self-assembly possible
- Reels up to 100 m available
- 1 mm pole length
- System accuracy up to 10 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	double-sided tape premounted
Accuracy class	10 µm or 50 µm	

- **Measurement table of reference points**

Reference points [m]	
Fixed distance **X**	0.02
Periodic **P**	0.02, 0.08, 0.1, 0.2, 0.25, 0.32, 0.5
Onetime **E**	0.02, 0.06, 0.1, 0.2, 0.3, 0.42, 0.5

System data

Feature	Technical data	Additional information
Pole length	1 mm	
Measuring range	∞	

Ambient conditions

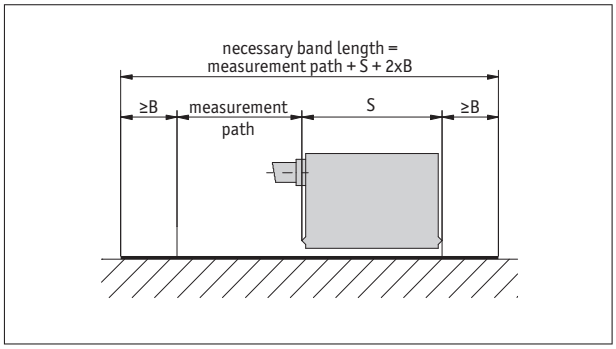
Feature	Technical data	Additional information
Ambient temperature	-20 ... 70 °C	
Storage temperature	-40 ... 70 °C	
Expansion coefficient	(11 ±1) x 10^{-6}/K	spring steel
	(16 ±1) x 10^{-6}/K	stainless steel
Relative humidity	100 %	condensation admissible

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"
Width	10	B	10 mm	
	5		5 mm	
Accuracy	0.01	C	0.01 mm	deliverable length max. 4.0 m
	0.05		0.05 mm	deliverable length max. 100 m
Material carrier tape	St	D	steel	
	VA		stainless steel	
Adhesive carrier tape	TM	E	with	
	TO		without	
Cover strip	AM	F	with	
	AO		without	
Reference point	0	G	without	
	E		unique	only with 10 mm width
	P		periodic	only with 10 mm width
Reference point position	...	H	0.02, 0.06, 0.1, 0.2, 0.3, 0.42, 0.5 in m	indicate only if reference point E is chosen, ≤5.0 m
	...		0.02, 0.08, 0.1, 0.2, 0.25, 0.32, 0.5 in m	indicate only if reference point P is chosen
			others on request	

Order key

MB100/1 - [A] - [B] - [C] - [D] - [E] - [F] - [G] - [H]

Scope of delivery: *MB100/1*

Accessories:
Installation aid ZB3054 *www.siko-global.com*

subject to technical alteration • 2017/12/13 • 11:15