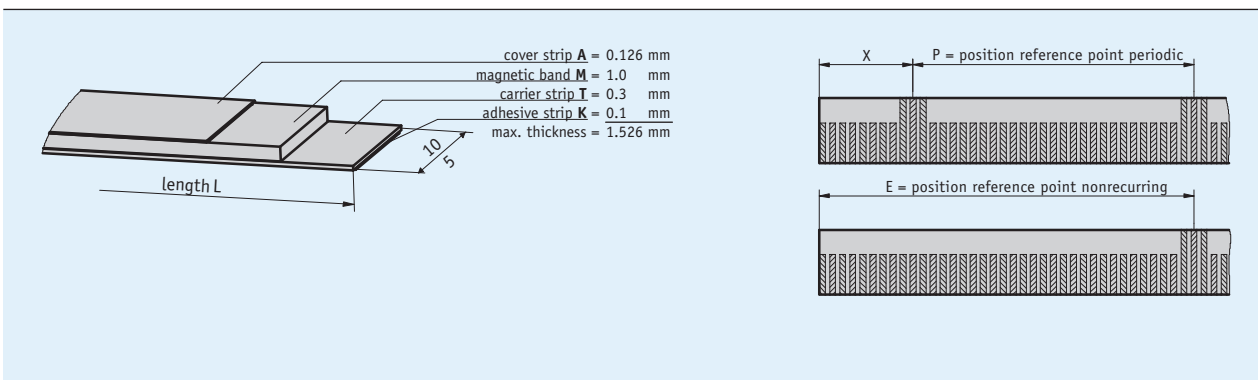
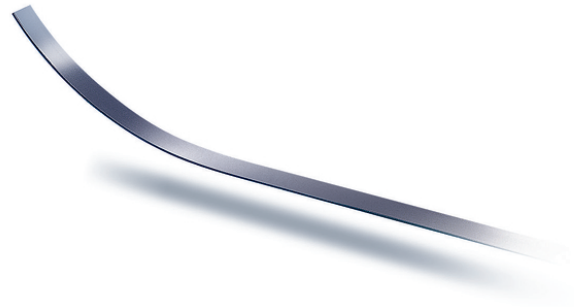


Profile

- Easy adhesive mounting, self-assembly possible
- Reels up to 100 m available
- 1 mm pole length
- Linearity deviation up to $\pm 8 \mu\text{m}$



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	8 μm or 20 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	
Linearity deviation	$\pm 8 \mu\text{m}$	at $T_U = 20^\circ \text{C}$
	$\pm 20 \mu\text{m}$	at $T_U = 20^\circ \text{C}$
Measuring range	∞	

Ambient conditions

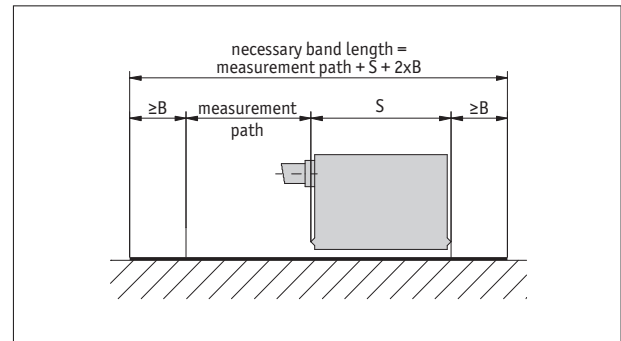
Feature	Technical data	Additional information
Ambient temperature	-20 ... 100 °C	
Storage temperature	-40 ... 100 °C	
Expansion coefficient	(11 ±1) × 10 ⁻⁶ /K (16 ±1) × 10 ⁻⁶ /K	spring steel stainless steel
Relative humidity	100 %	condensation admissible

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	10 mm	
	5	5 mm	
Accuracy class	8	0.01 mm	deliverable length max. 4.0 m
	20	0.05 mm	deliverable length max. 100 m
Material carrier tape	St	steel	
	VA	stainless steel	
Adhesive carrier tape	TM	with	
	TO	without	
Cover strip	AM	with	
	A0	without	
Reference point	0	without	
	E	non-recurrent	only with 10 mm width
	P	periodic	only with 10 mm width
Reference point position	...	0.02, 0.06, 0.1, 0.2, 0.3, 0.42, 0.5 in m	indicate only if reference point E is chosen, ≤4.0 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, ≤4.0 m
	...	others on request	

Order key

MB100/1 - - - - - - - -

A B C D E F G H

Scope of delivery: MB100/1

Accessories:
Installation tool ZB3054

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