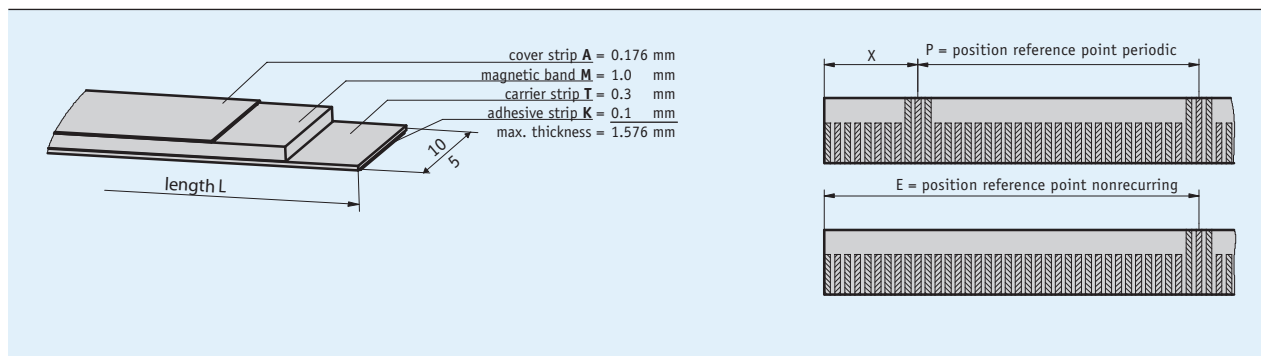
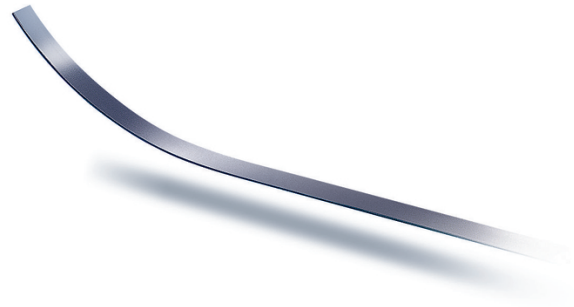


Profile

- Easy adhesive mounting, self-assembly possible
- Reels up to 100 m available
- System accuracy up to 50 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	50 µm or 100 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	
Measuring range	∞	

Ambient conditions

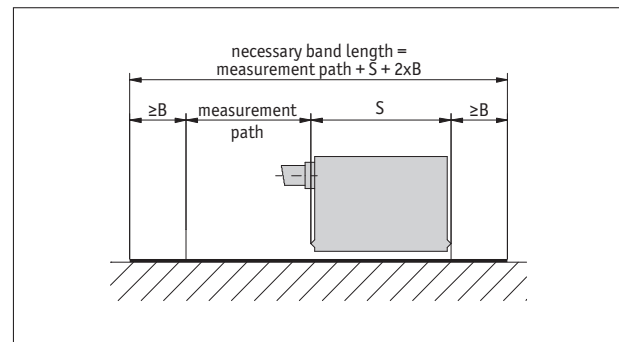
Feature	Technical data	Additional information
Ambient temperature	-20 ... 70 °C	
Storage temperature	-40 ... 70 °C	
Expansion coefficient	$(11 \pm 1) \times 10^{-6}/K$ $(16 \pm 1) \times 10^{-6}/K$	spring steel stainless steel
Relative humidity	100 %	condensation admissible

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"
tapewidth	10/10 B 5	in mm in mm	
Accuracy	0.1 C 0.05	0.1 mm 0.05 mm	
Material carrier tape	St D VA	steel stainless steel	
Adhesive carrier tape	TM E TO	with without	
Cover strip	AM F AO	with without	stainless steel
Masking tape width	10.0 G 5.0	in mm in mm	
Reference point	O H E P	without unique periodic	at width 10 mm optional with flexible reference mark, see accessories only with 10 mm width only with 10 mm width
Reference point position	... I	0.05, 0.1, 0.2, 0.5, 1.0, 2.0 in m 0.2, 0.3, 0.5 in m others on request	indicate only if reference point E is chosen, ≤5.0 m indicate only if reference point P is chosen

■ Order key

MB500/1 - - - - - - - - - -

A B C D E F G H I

Scope of delivery: MB500/1

Accessories:

Profile Rail PS
Protective band SB
Profile Rail PS1
Installation aid ZB3054
Flexible reference mark

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