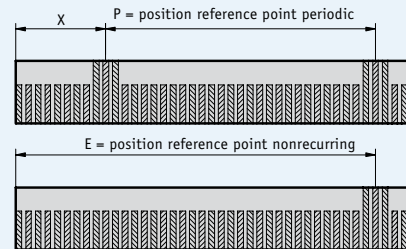
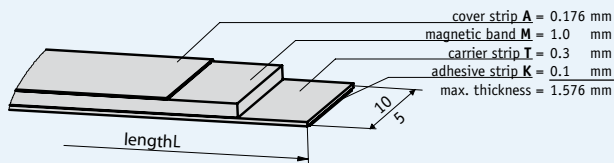


Magnetic Band MB500

Incrementally coded scale, pole length 5 mm

Profile

- Easy adhesive mounting, self-assembly possible
- Pole length 5 mm
- System accuracy up to 50 μm



Reference points (all details in mm)

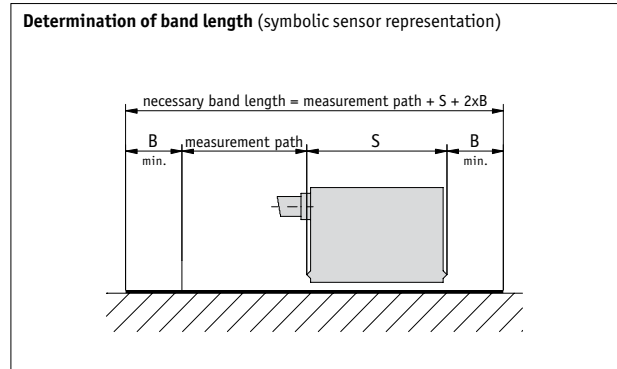
| | |
|----------|------------------------------------|
| X | 0.05 |
| P | 0.2, 0.5 |
| E | 0.05, 0.1, 0.2, 0.5, 0.9, 1.3, 2.0 |

Mechanical data

| Feature | Technical data | Additional information |
|-------------------------|--|---|
| Pole length | 5 mm | |
| Measuring length | infinite | |
| Band width | 10 mm | |
| | 5 mm | |
| Thickness | 1.4 mm | without cover strip |
| Accuracy class | 50 μm or 100 μm | |
| Temperature coefficient | $(11 \pm 1) \times 10^{-6}/\text{K}$ $(16 \pm 1) \times 10^{-6}/\text{K}$ | spring steel stainless steel |
| Operating temperature | -20 ... +70 °C | |
| Storage temperature | -40 ... +70 °C | |
| Humidity | 100 % rh | condensation permitted |
| Mounting type | glued joint | pre-assembled double-sided adhesive strip |
| Cover strip material | stainless steel | |

Order

The necessary band length is calculated as follows:
Measured path + sensor length "S" + (2 x lead-in and lead-out "B"). Sensor length "S" refer to the drawing of the employed sensor, lead-in and lead-out "B" = 10 mm.



Order table

| Feature | Order data | Specifications | Additional information |
|--|------------|------------------------------------|---|
| Width | 10 | in mm | |
| | 5 | in mm | |
| Accuracy class* | 0.1 | 0.1 mm | |
| | 0.05 | 0.05 mm | only with width 10 mm |
| Carrier strip | St | steel | |
| | VA | stainless steel | only with width 10 mm |
| Length | ... | 0.1 ... 90 m, in steps of 0.1 m | Order information, see "Determination of band length" |
| Adhesive carrier strip | TM | with | |
| | TO | without | |
| Cover strip | AM | with | stainless steel |
| | AO | without | |
| Width of cover strip | 10 | in mm | |
| | 5 | in mm | |
| Reference point | O | without | |
| | E | one-time | only with width 10 mm |
| | P | periodic | only with width 10 mm |
| Position of reference point E one-time | ... | 0.05, 0.1, 0.2, 0.5, 0.9, 1.3, 2.0 | indicate only if reference point E was selected |
| | | others on request | |
| Position of reference point P periodic | ... | 0.2, 0.5 | indicate only if reference point P was selected |
| | | others on request | |

Order code

MB500 - - - - - - - - - -

A B C D E F G H I

Scope of delivery: MB500, User information

Accessories:

Profile rail PS Page 178
Protective strip SB Page 179
Cover rail PS1 Page 177

Additional information:

Short Description, Technical Details Page 46 cont.
Product Overview Page 4 cont.