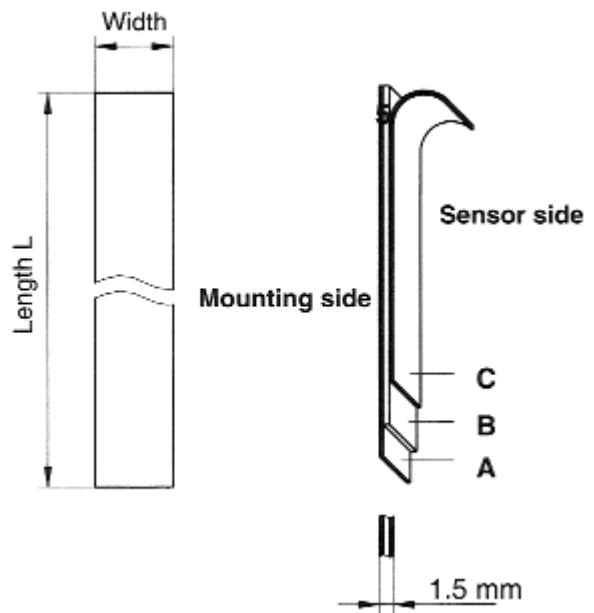


Mounting the magnetic band

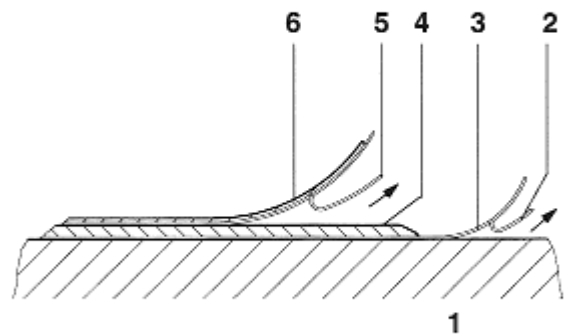
The magnetic band consists of several layers (see figure). The magnetized synthetic strip (B) is delivered already mounted to the magnetized stainless steel carrier (A). These two firmly joined tapes are fixed to the machine base by using adhesive tape. The mounting surface must be dry and free of dust and grease.

Attention: The magnetic band's metallic side must always be mounted on the machine base. The system will not work if the strip is mounted incorrectly! Then, for mechanical protection, a non-magnetic stainless steel cover (C) is mounted on the magnetic band. The cover strip provides a protective function only and can, depending on the application, be omitted. For mounting remove the protective foil from the adhesive tape and make sure that the magnetic strip's surface is dry and free of dust and grease.



Mounting steps

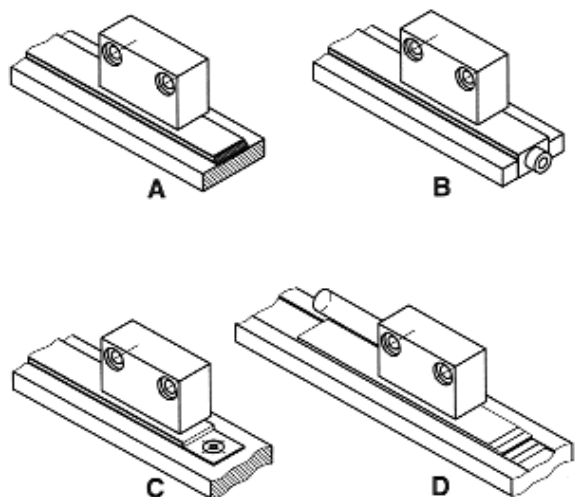
- Clean mounting surface (1) carefully.
- Remove protection foil (2) from the adhesive tape (3).
- Fix the magnetic strip (4). Correctly align sensor relative to strip!
- Clean surface of magnetic strip carefully.
- Remove protective foil (5) from adhesive tape on the cover strip (6).
- Fix the cover strip (both ends should slightly overlap). If necessary, also fix cover strip's ends to avoid unintentional peeling (eg. by using clamps or rivets).



Dimensions in mm

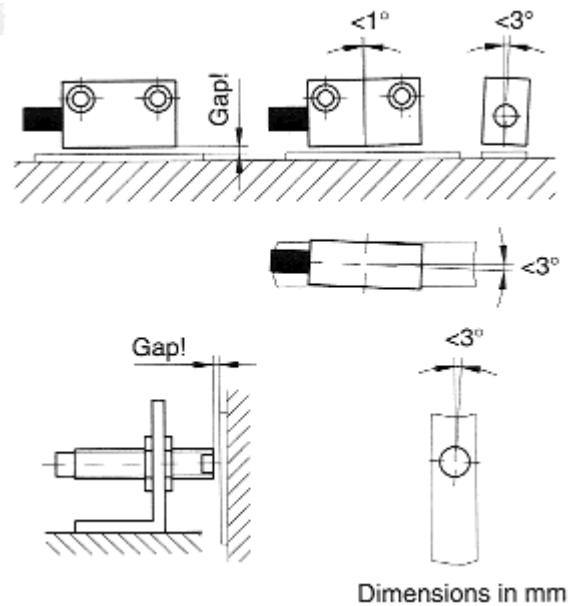
Mounting examples

The easiest way of mounting, ie. with chamfered ends (figure A) is only recommended when the strip is installed in a safe and protected place. In less protected mounting places the strip may peel. There we recommend mounting according to figures B and C. Mounting in a groove (figure D) best protects the magnetic strip from mechanical damage. The groove should be deep enough to totally embed the magnetic strip.



Mounting the sensor

The magnetic sensor must be correctly positioned relative to the magnetic strip. When mounting the magnetic sensor, ensure that over the total travel distance there is a gap between sensor and strip, irrespective whether the strip or sensor moves. Any distance or angle deviation beyond the tolerance values will cause measuring errors. Within the defined limits errors due to deviation are less important than errors resulting from strip and sensor tolerances. A smaller gap can lead to mechanical damage, if sensor and strip make contact.



Handling of the magnetic strip

Magnetization of the magnetic particles inside the magnetized synthetic strip changes if the strip is tightly bent, hit or touched by strong magnets. The resulting attenuation and distortion of the sine-form magnetization will cause measuring errors.

