



belastet sind; ggfs. sind **zusätzliche Maßnahmen wie Schirmbleche oder metallisierte Gehäuse** vorzusehen. Leitungsführungen parallel zu Energieleitungen vermeiden.

- Schutzspulen müssen mit Funkenlöschgliedern beschaltet sein.

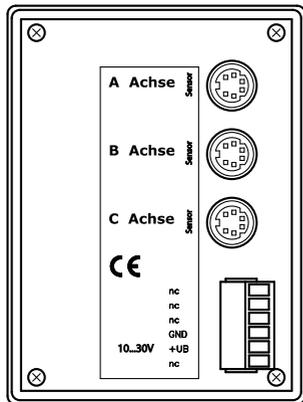


Abb. 2: Geräterückseite

### Spannungsversorgung

Die Spannungsversorgung erfolgt über die rückseitige Reihenklemme gemäß Abb.2. Die Spannung ist u.a. den Lieferpapieren oder dem Typenschild zu entnehmen ist und beträgt:

**z.B. 24 VDC ±20%**

## 5. Inbetriebnahme

Die Bedienung und Programmierung der Anzeige erfolgt mit den vier frontseitigen Folientasten.

### Einschalten

Nach Einschalten der Betriebsspannung wird im Display die aktuelle Softwareversion angezeigt. Anschließend kann die Anzeige anwendungsspezifisch programmiert werden.

Beispiel:

	5	2	3
S	1	0	0

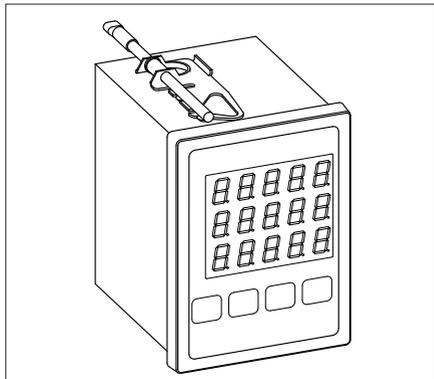
An die Anzeige sind ausschließlich die Sensoren MS500, die das Magnetband MB500 abtasten, anzuschließen.



**Tastenfunktion / Programmiermodus / Parameterbeschreibung / Eingabemodus etc., siehe Beiblatt Softwarebeschreibung.**

# MA523

Three-axis position indicator



**ENGLISH**

## 1. Safety Information

- In order to carry out installation correctly, we strongly recommend this document is read very carefully. This will ensure your own safety and the operating reliability of the device.
- Your device has been quality controlled, tested and is ready for use. Please respect all warnings and information which are marked either directly on the device or in this document.
- Warranty can only be claimed for components supplied by SIKO GmbH. If display MA523 is used together with other products, the warranty for the complete system is invalid.
- Repairs should be carried out only at our works. If any information is missing or unclear, please contact the SIKO sales staff.

## 2. Identification

Please check the particular type of unit and type number from the identification plate. Type number and the corresponding version are indicated in the delivery documentation.

eg. MA523-0023  
 └───┬───┬───┬───  
 └───┬───┬─── version number  
 └───┬─── type of unit

## 3. Installation

The unit should only be used according to the protection level provided. Protect display MA523, if necessary, against environmental influences such

as sprayed water, dust, knocks, extreme temperatures.

### Mounting of the display

- Push the device without fixing clamps into the panel cut-out. Then make the bracket snap into the stud at the front (1), press it down (2) to fix it to the casing. Tighten fixing screws (3).

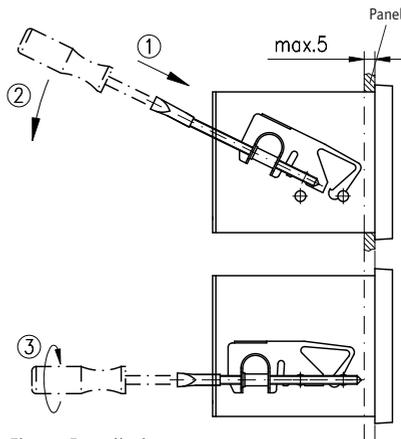


Fig. 1: Installation

## 4. Electrical connection

- Wiring must be carried out only with power off!
- Provide stranded wires with ferrules.
- Check all lines and connections before switching on the equipment.

### Interference and distortion

All connections are protected against the effects of interference. **The location should be selected to ensure that no capacitive or inductive interference can affect the display or the connection lines!** Interference can be caused by motors, switch gears, cyclic controls and contactors. Suitable wiring layout and choice of cable can minimise the effects of interference.

### Necessary measures

- Only screened cable should be used. Screen should be connected to earth at both ends. Wire cross section is to be at least 0,14mm<sup>2</sup>, max. 0,5mm<sup>2</sup>.
- Wiring to screen and to ground (0V) must be via a good earth point having a large surface area for minimum impedance.
- The unit should be positioned well away from cables with interference; if necessary a **protective screen or metal housing** must be provided.

- Contactor coils must be linked with spark suppression.

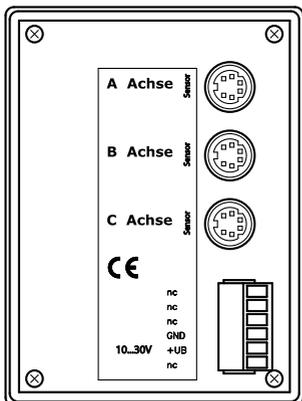


Fig. 2: MA523 rear

### Supply voltage

Via clamp terminal at the rear (fig. 2). Correct supply voltage

**e.g. 24 VDC ±20%**

is indicated in the delivery documentation and on the identification plate.

## 5. Commissioning

The four front mounted membrane keys are used for operating and programming display MA523.

### When switched on

MA523 displays the software version. Subsequently the specific parameters of the machine can be programmed.

Eg.:

	5	2	3
S	1	0	0

Only the MS500 sensors, which scan the MB500 magnetic band must be connected to the indicator.

**Key's function / Programming mode / Parameter description / Input mode etc., see enclosed page with software description.**



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