Position indicator with signal input for 1 axis
Suitable for conventional rotary and linear encoder and for incremental and absolute ELGO measuring systems
Adjustable reference value, tool offset and saw blade width
LCD display with 7 digits, sign and measurement unit
2 programmable digital control inputs
Power down memory
**General:**

The compact Z25 position indicator has a 10 mm high LCD display which allows a comfortable and accurate reading of actual positions. Commands like Reset or Preset to an arbitrary reference value can be done either via the dustproof front keypad or external signals to 0 or to an arbitrary reference value.

The unit evaluates incremental square wave signals from conventional rotary encoders as well as from the ELGO magnetic linear encoder types LMIX, EMIX, MIX or PMIX. Further the unit can be modulated for the ELGO absolute linear encoder EMAX (by RS422).

The practical snap-in mounting allows an easy and quick installation into the front panel cut out.

**Applications:** The miniature position indicator can be used for instant presentation of measurements, for example backlash adjustment, length and angle or speed measurement.

**Features:**

- 7-digit LCD-display
- Degree display for angular measurement
- 2 external inputs
- Easy snap in mounting
- Tool offset function
- Switchover between relative and absolute measurement
- Power down memory
- Adjustable reference value
- Adjustable pulse factor
- 1-, 2-, 4-edge triggering

**ELGO measuring systems compatible to Z25:**

The Z25 signal input is compatible with several magnetic incremental measuring systems from ELGO or can alternatively be adapted to the EMAX absolute measuring system (see type designation).

**Incremental Linear Encoders:**

ELGO LMIX/EMIX

ELGO EMIX23/LMIX22

**Absolute Linear Encoder:**

ELGO PMIX

ELGO EMAX
**Z25-000** - Single Axis Position Indicator with 24 VDC power supply

### Technical specifications:

#### Mechanical Data

- **Housing:** norm panel housing
- **Housing material:** ABS plastic, black
- **Housing dimensions (W x H):**
  - 72 x 48 mm (without seal)
  - 74 x 50 mm (wit seal)
- **Panel cut out (W x H):** 68 x 45 mm
- **Keyboard:** foil with short stroke keys
- **Installation depth:** 27 mm (without connectors)

#### Electrical Data

- **Display:** 7 digit LCD (digit height: 14 mm) with sign and measurement units
- **Perspective:** 12 o'clock
- **Measurement units:** mm, m, Inch, RPM or °
- **Accuracy:** ± 1 digit
- **Power supply voltage:** 24 VDC ± 20 %
- **Current consumption:** 25 mA (without measuring system)
- **Encoder supply:** 24 VDC
- **Load by encoder / measuring system:** max. 300 mA
- **Signal inputs:** HTL, TTL or RS422 (order designation)
- **Signal channels:** A,B resp. A', B', Z, Z' or RxD+, RxD-
- **Maximum input frequency:** 80 kHz
- **External inputs:** 2 control inputs (24 V, PNP)
- **Connections:** pluggable screw terminals and 9 pin (female) D-SUB (only RS422, TTL)
- **Power down memory:** FRAM

#### Environmental conditions

- **Operating temperature:** 0 ... +50° C
- **Storage temperature:** -20 ... +80° C
- **Humidity:** max. 80 %, non-condensing
- **Protection class (front):** IP54 (installed state, with seal)
- **Protection class (rear):** IP40

### Order reference:

For orders, please use the following order code:

**Z25 - A A A - B B B - C**

#### SN-Number

- **A 000** = Standard version
- **001** = 1. customized version
- **002** = 2. customized version

#### Power supply

- **B 024** = 24 VDC

#### Signal Input

- **C 0** = A/B, 24 VDC encoder supply and 24 V-HTL levels (PNP)
- **2** = A/A’, B/B’, Z/Z’, 24 VDC encoder supply and 5 V-TTL levels (PNP)
- **5** = ELGO EMAX absolute linear encoder (RS422)

For example:

**Z25 - 0 0 0 - 0 2 4 - 0**

**A A A - B B B - C**

Z25 ELGO Standard with 24 VDC and HTL signal input (A, B).

### Your order:

**Z25 - A A A - B B B - C**
**Accessories:**

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<th>Order Designation</th>
<th>Description</th>
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<tr>
<td>NG24.0</td>
<td>External 24 VDC power pack (primary 115/230 VAC) as power supply for Z25</td>
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