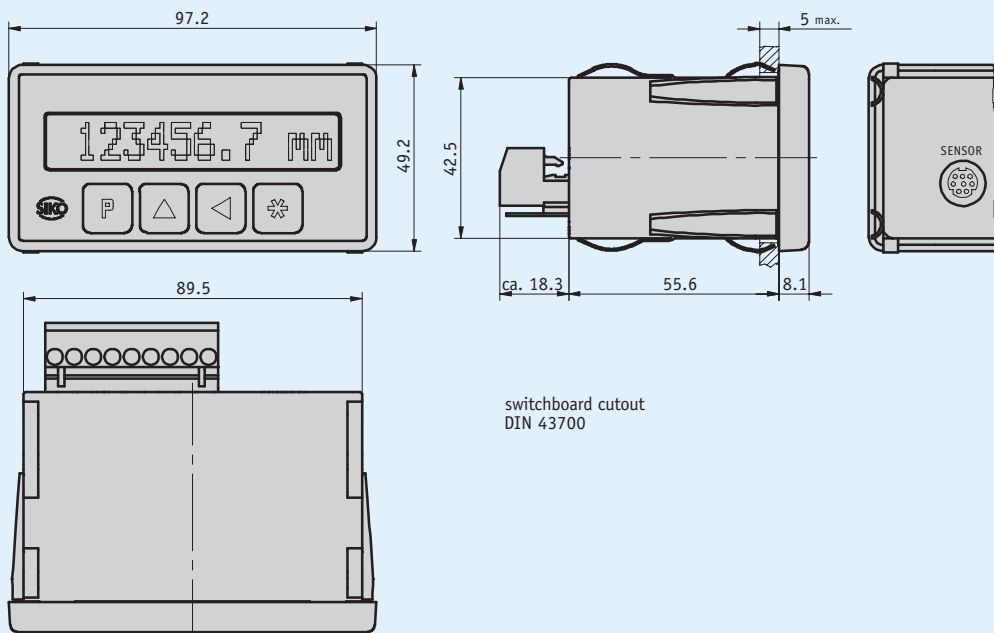


## Profile

- Display accuracy max. 1 µm
- Repeat accuracy max. ±1 µm
- High-contrast LCD, 12-digit LCD dot matrix
- Incremental measurement and reset function
- Direct reference/offset value input
- Reference input
- Works with sensor MS100/1
- Option: serial interface RS232/RS485/switching output
- Option: TG01 bench housing



## Mechanical data

| Feature        | Technical data            | Additional information                                               |
|----------------|---------------------------|----------------------------------------------------------------------|
| Housing design | built-in housing, plastic | switchboard cutout 92 <sup>+0.8</sup> x 45 <sup>+0.6</sup> IEC 61554 |

## Electrical data

| Feature               | Technical data                    | Additional information                                            |
|-----------------------|-----------------------------------|-------------------------------------------------------------------|
| Operating voltage     | 24 V DC ±20 %                     |                                                                   |
|                       | 115 V AC ±10 %                    |                                                                   |
|                       | 230 V AC ±10 %                    |                                                                   |
| Current consumption   | 70 mA                             | at 24 V DC                                                        |
|                       | 20 mA                             | at 115 V AC                                                       |
|                       | 10 mA                             | at 230 V AC                                                       |
| Display/display range | 12-digit, LCD dot matrix, backlit | -9999999 ... 9999999                                              |
| Switching outputs     | with or without                   | 2x 30 V ≤100 mA                                                   |
| Interface             | without, RS232, RS485             |                                                                   |
| Type of connection    | connector                         | 9-pole (supply, switching output, interface/reference connection) |
|                       | mini-DIN                          | 6-pole, 1x socket (MS100/1 sensor)                                |

## System data

| Feature         | Technical data                | Additional information     |
|-----------------|-------------------------------|----------------------------|
| Resolution      | 0.001, 0.01, 0.1, 1, 10 mm    | programmable angle display |
|                 | 0.001, 0.01, 0.1, 1 inch      |                            |
| System accuracy | ±(0.01 + 0.01 x L) mm; L in m | at T <sub>U</sub> = 20 °C  |
| Repeat accuracy | ±0.001 mm                     | ±1 increment               |
| Travel speed    | ≤2 m/s                        |                            |

## Ambient conditions

| Feature             | Technical data                                  | Additional information              |
|---------------------|-------------------------------------------------|-------------------------------------|
| Ambient temperature | 0 ... 50 °C                                     |                                     |
| Storage temperature | -20 ... 80 °C                                   |                                     |
| Relative humidity   | ≤95 %                                           | condensation inadmissible           |
| EMC                 | EN 61000-6-2                                    | interference resistance / immission |
|                     | EN 61000-6-4                                    | emitted interference / emission     |
| Protection category | IP40 whole device                               | EN 60529                            |
|                     | IP60 at the front with switchboard installation | EN 60529                            |

## Pin assignment

| Signal                              | PIN |
|-------------------------------------|-----|
| Reset                               | 1   |
| +24 V DC; ≤50 mA (reference switch) | 2   |
| GND                                 | 3   |
| nc                                  | 4   |
| RS232 (RXD), RS485 (DÜB), actor A2  | 5   |
| RS232 (TXD), RS485 (DÜA), actor A1  | 6   |
| PE                                  | 7   |
| N (230/115 V AC); GND (24 V DC)     | 8   |
| L (230/115 V AC); +UB (24 V DC)     | 9   |

## Order

### ■ Ordering information

one or more system components are required:

Magnetic sensor MS100/1

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### ■ Ordering table

| Feature            | Ordering data | Specification                | Additional information    |
|--------------------|---------------|------------------------------|---------------------------|
| Operating voltage  | 1             | 230 V AC                     |                           |
|                    | 2             | 115 V AC                     |                           |
|                    | 4             | 24 V DC                      |                           |
| Interface/protocol | XX/XX         | without                      |                           |
|                    | S1/00         | RS232 with standard protocol |                           |
|                    | S3/00         | RS485 with standard protocol |                           |
| Switching output   | S0            | without                      |                           |
|                    | SM            | with                         | only with XX/XX interface |

### ■ Order key

MA100/2 - EG - A - RM - B - C - S - BS

*Scope of delivery:* MA100/2, Mounting instructions



**Accessories:**  
Table-top housing TG01

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