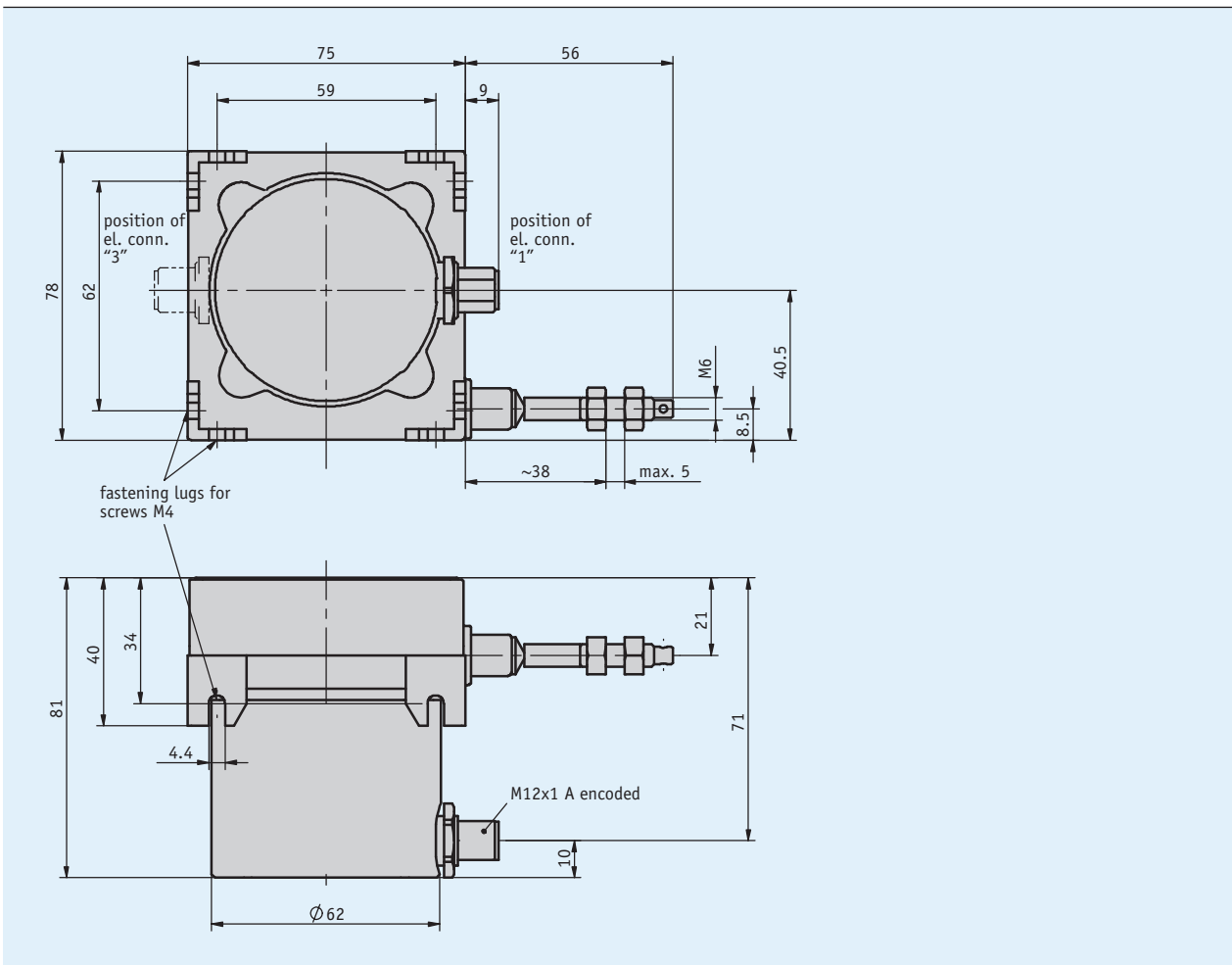
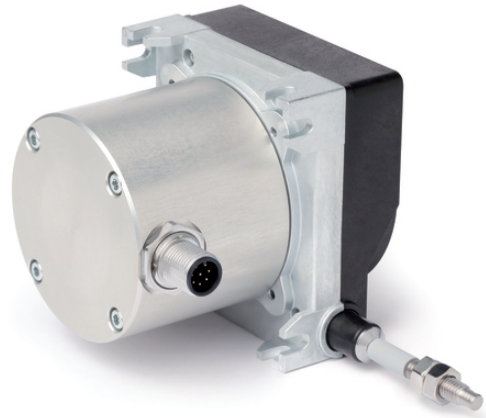


Profile

- Robust design
- Measuring lengths up to 3000 mm
- Analogue signal output in redundant design (2x 4...20 mA or potentiometer)
- Variable mounting options
- Lockable vent and water drain holes
- Very robust measuring rope (stainless steel)
- IP65 protection category
- M12 plug connection



Mechanical data

| Feature | Technical data | Additional information |
|-------------------|------------------------|--|
| Housing | zinc die-cast, plastic | |
| Wire design | Ø0.87 mm Ø0.81 mm | steel wire (stainless), plastic coated steel wire (stainless) |
| Extension force | ≥3 N | |
| Absolute accuracy | ±0.35 % | relating to measuring ranges (mm) |
| Weight | ~0.5 kg | |

Electrical data

Encoder potentiometer

| Feature | Technical data | Additional information |
|------------------------------|------------------------------|---|
| Operating voltage | ≤30 V | power loss on the potentiometer <1 W |
| Power rating | 2 W at 70 °C | |
| Resistance | 10 kΩ | |
| Resistance tolerance | ±5 % | |
| Standard terminal resistance | 0.5 % or 1 Ω | (the higher value applies in each case) |
| Linearity tolerance | ±0.25 % | |
| Type of connection | M12 plug connector (A-coded) | 8-pole, 1x pin |

Transducer, power output

| Feature | Technical data | Additional information |
|--------------------|------------------------------|--|
| Operating voltage | 10 ... 30 V DC | with load impedance ≤500 Ω voltage between I+ and I- |
| Output current | 4 ... 20 mA (2x) | 4/20mA 4/20mA |
| | 20 ... 4 mA (2x) | 20/4mA 20/4mA |
| | 4 ... 20 mA, 20 ... 4 mA | 4/20mA 20/4mA |
| Type of connection | M12 plug connector (A-coded) | 8-pole, 1x pin |

* Measurement transducers permit optimum adjustment of the output current and output voltage to the measuring range. The measurement transducer is pre-set at the works so that an output signal of 4 ... 20 mA or 20 ... 4 mA is available.

System data

| Feature | Technical data | Additional information |
|-----------------|----------------|---------------------------|
| Repeat accuracy | ±0.15 mm | per direction of approach |
| Travel speed | ≤800 mm/s | |
| Failure rate | 166.7 year(s) | at 60 °C (MTBF) |

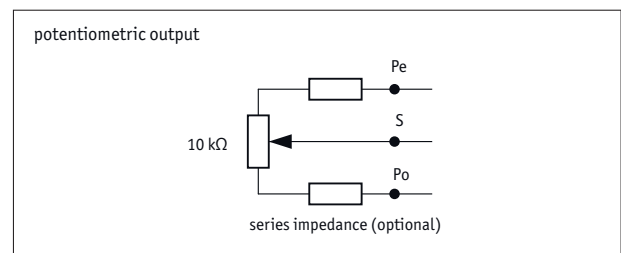
Ambient conditions

| Feature | Technical data | Additional information |
|---------------------|----------------------------|---|
| Ambient temperature | -40 ... 80 °C | |
| Protection category | IP65 (for electronic unit) | EN 60529, Certonal-coated electronic unit |

Pin assignment

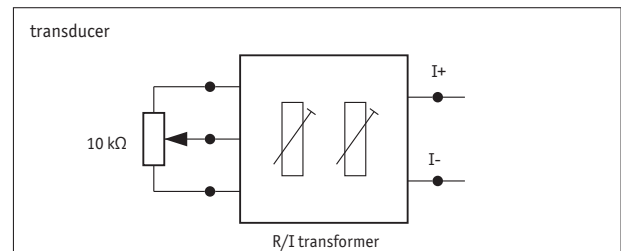
Potentiometer pin assignment

| Signal | PIN | Additional information |
|--------|-----|------------------------|
| Po | 1 | Potentiometer 1 |
| Po | 2 | Potentiometer 2 |
| S | 3 | Potentiometer 2 |
| Pe | 4 | Potentiometer 2 |
| nc | 5 | |
| Pe | 6 | Potentiometer 1 |
| S | 7 | Potentiometer 1 |
| nc | 8 | |



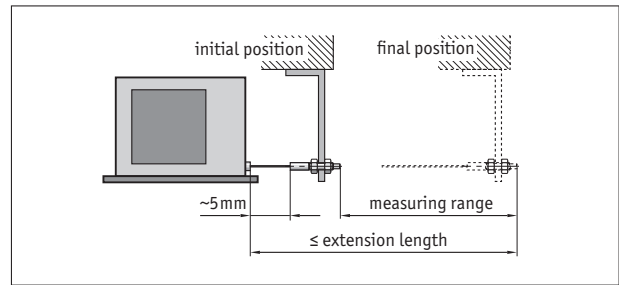
Transducer pin assignment

| Signal | Pin | Additional information |
|--------|-----|------------------------|
| I+ | 1 | Transducer 1 |
| I+ | 2 | Transducer 2 |
| nc | 3 | |
| I- | 4 | Transducer 2 |
| nc | 5 | |
| I- | 6 | Transducer 1 |
| nc | 7 | |
| nc | 8 | |



Hint for mounting

When securing the wire it must be ensured that the wire is straight and vertical in relation to the wire outlet.
 Recommendation: Only select the starting position after an unwound length of approx. 5 mm. This prevents the wire hitting the end stop when it is rewound.



symbolic depiction

Order

Ordering table

| Feature | Ordering data | Specification | Additional information |
|-----------------------------------|-------------------------|---|------------------------------|
| Measuring range | ... A | 2000, 2500, 3000 in mm | |
| Encoder type | P10_P10 B | 2x potentiometer 10 kΩ | |
| | 20/4mA_20/4mA | 2x transducers 20...4 mA | |
| | 4/20mA_20/4mA | 2x transducers 4...20 mA counter-rotating | |
| | 4/20mA_4/20mA | 2x transducers 4...20 mA | |
| Position of electrical connection | 1 C | 0 ° | |
| | 3 | 180 ° | |
| Series impedance | 0 D | 0 Ω | only for P10_10 encoder type |
| | 1k2 | 1.2 kΩ | only for P10_10 encoder type |

Order key



Scope of delivery: SG32, Mounting instructions

Accessories:

- Electronic display MA50
- Guide roller UR
- Wire extension piece SV
- Mating Connector Overview
- Mating connector, 8-pole, socket

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