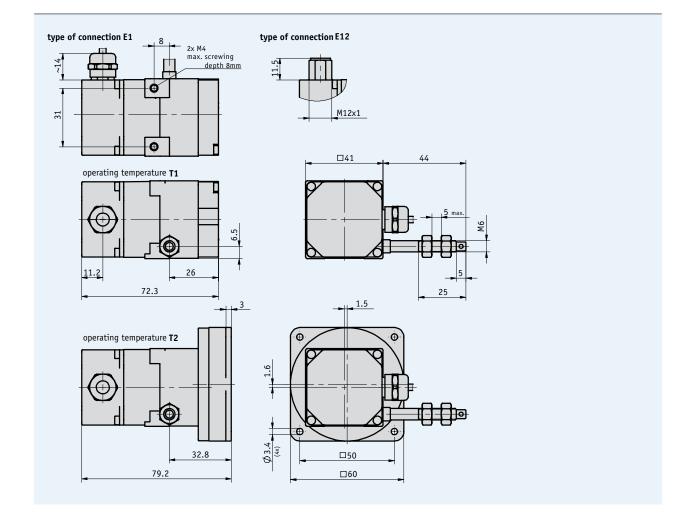
Compact design made of solid zinc die cast with 2000 mm measurement length

Profile

- Compact design
- Universally applicable thanks to standardized interfaces
- Easy mounting
- Measurement lengths up to max. 2000 mm
- Potentiometer, voltage or power output
- Robust zinc die-cast housing





3.1

Mechanical data

| Feature | Technical data | Additional information |
|-----------------------------------|---------------------------------|---------------------------|
| Travel speed | max. 1 m/s | |
| Pull-out force required | min. 2 N | with temperature range T1 |
| | min. 11 N | with temperature range T2 |
| Drum circumference | 100 mm | |
| Repeat accuracy | ±0.15 mm | |
| Absolute accuracy | ±0.35 % | |
| Operating temperature | -10 +80 °C | with T1 |
| | -40 +80 °C | with T2 |
| Wire design | stainless steel wire, Ø 0.45 mm | plastic-coated |
| Encoder portion protection categ. | IP65 | |
| Weight | approx. 320 g | |
| Housing | zinc die-cast | |

Electrical data

■ P10 encoder type, potentiometer



| Feature | Technical data | Additional information | |
|----------------------------|----------------|------------------------|--|
| Value of resistance | 10 kΩ | | |
| Linearity of potentiometer | 0.25 % | | |
| Resistance tolerance | ±5 % | | |
| Power rating | 1 W | | |
| Pull-out length | 0 mm : 0 Ω | | |
| Cable length (connection) | max. 30 m | | |

Additional potentiometer values on request

MWI encoder type, current source (transducer*)



| Feature | Technical data | Additional information | |
|---------------------------|----------------|------------------------|--|
| Output current | 4 20 mA | | |
| Potentiometer | 10 kΩ | | |
| Operating voltage | 15 28 V DC | | |
| Load resistance | <500 Ω | | |
| Cable length (connection) | max. 30 m | | |

MWU encoder type, voltage source 0 ... 10 V DC (transducer*)



| Feature | Technical data | Additional information | |
|---------------------------|-----------------------------------|------------------------|--|
| Output current | 0 10 V DC | | |
| Recomm. load resistance | 2 10 kΩ to GND | | |
| Max. load | 15 mA | | |
| Operating voltage | 15 28 V DC with 3 mA without load | | |
| Cable length (connection) | max. 20 m | | |

* **Transducer**s allow optimum adaptation of output current or output voltage to the measurement range. The transducer is preset at delivery to provide an output signal of 4 ... 20 mA (MWI) or 0 ... 10 V DC (MWU) between the starting point and the end point of the measurement range.

Pin assignment

Potentiometric outputs P10

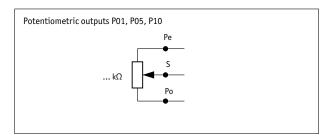
| Signal | E1 | E12 |
|--------|-------|-----|
| Po | brown | 1 |
| Pe | white | 2 |
| S | green | 3 |
| N.C. | | 4 |

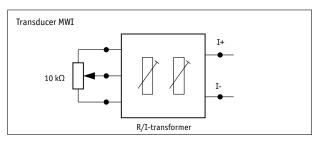
MWI transducer

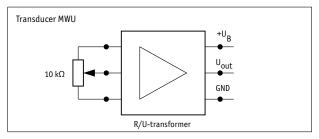
| Signal | E1 | E12 | |
|--------|-------|-----|--|
| I+ | brown | 1 | |
| I- | white | 2 | |
| N.C. | | 3 | |
| N.C. | | 4 | |

MWU transducer

| Signal | E1 | E12 | |
|------------------|-------|-----|--|
| +24 V DC | brown | 1 | |
| GND | white | 2 | |
| U _{out} | green | 3 | |
| N.C. | | 4 | |



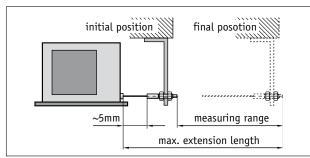




Subject to technical alterations 02/2010

Mounting note

When you attach the wire, it should be pulled out straight in line with the wire outlet. **Recommendation:** A 5 mm wire extension is recommended before the measurement starting point. This prevents the wire snapping back to the stop on rewinding.



Symbolic representation

Order

Order table

| Feature | Order data | Specifications | Additional information |
|------------------------|------------|--------------------------|------------------------------|
| Measurement range (mm) | | 1250, 1500, 1750, 2000 | |
| | | | |
| Encoder type | P10 | potentiometer with 10 kΩ | |
| | MWI | transducer 4 20 mA | |
| | MWU | transducer 0 10 V | |
| | | others on request | |
| | | | |
| Type of connection | E1 | flying leads | |
| | E12 | connector | |
| | - | | |
| Cable length (m) | ••• | 1 20 m in steps of 1 m | with P10 encoder type or MWU |
| | ••• | 1 30 m in steps of 1 m | with MWI encoder type |
| | | | |
| Operating temperature | T1 | -10 +80 °C | |
| | T2 | -40 +80 °C | |

Order code



