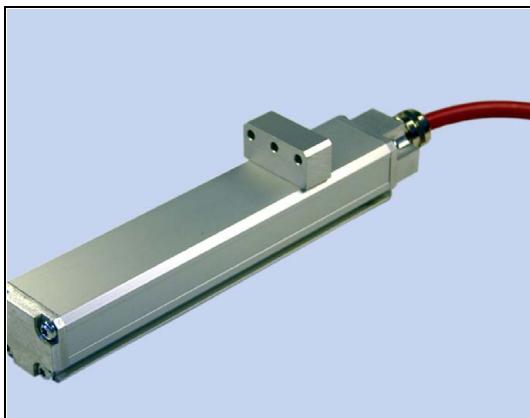
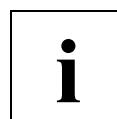
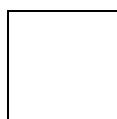
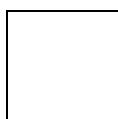


## Linear-Transducer LMP-30 A



- Analog interface
- For linear measurement
- Non-contact and wear free measurement system
- Easy mounting, by means of profile housing
- Further interfaces available
- Customized adaptations upon request

7

### Characteristics

|   |   |
|---|---|
| Supply voltage.....   | 24 VDC ±10 %  |
| Current consumption without load .....                        | < 250 mA  |
| Measuring principle.....                                      | magnetostrictive  |
| Measuring length, standard .....                              | 50 mm...4000 mm > 4000 mm on request, in steps of 50 mm |
| Resolution .....  | ≤ 0.05 mm   |
| Linearity deviation, related to the measuring length .....    | ± 0.15 mm up to 1.500 mm / ± 0.2 mm > 1.500 mm          |
| Reproducibility.....  | ≤ 0.05 mm   |
| Hysteresis .....  | ≤ 0.1 mm  |
| Temperature coefficient, related to the measuring length..... | < 40 ppm/°C   |
| Straight line velocity and mounting position.....             | no restrictions   |
| Material - measuring body.....                                | Aluminium extruded profile                              |
| Magnet .....  | Type T1-S3818, other on request                         |
| A.....  | 12 Bit - Analog interface                               |
| Analog voltage / Analog current.....                          | defined by factory setting                              |
| Voltage output.....   | 0 V...+10 V, +10 V...0 V                                |
| - Load resistance .....                                       | ≥ 680 Ω   |
| Cable length, dependent on electric shielding                 |   |
| - Voltage output .....  | ≤ 10 m  |
| Cycle times, internal   |   |
| ≤ 1.0 m.....  | 1.00 ms   |
| ≤ 1.5 m.....  | 1.50 ms   |
| ≤ 2.0 m.....  | 2.00 ms   |
| ≤ 2.5 m.....  | 2.50 ms   |
| ≤ 3.0 m.....  | 3.00 ms   |
| > 3.0 m.....  | 3.50 ms   |

## Environmental conditions

|  |   |
|--|---|
| Vibration, DIN EN 60068-2-6: 1996.....                     | $\leq 100 \text{ m/s}^2$ , sine 50-2000 Hz  |
| Shock, DIN EN 60068-2-27: 1995.....                        | $\leq 1000 \text{ m/s}^2$ , half-sine 11 ms |
| EMC  |   |
| - Discharge of static electricity, DIN EN 61000-4-2: 2001  |   |
| - Burst, DIN EN 61000-4-4: 2004                            |   |
| - Immunity to disturbance, DIN EN 61000-6-2: 2001          |   |
| Working temperature .....                                  | 0 °C...+70 °C, optional -20 °C...+70 °C     |
| Storage temperature.....                                   | -30 °C...+85 °C, dry                        |
| Relative humidity, DIN EN 60068-3-4: 2002 .....            | 98 %, non condensing                        |
| Protection class, DIN EN 60529: 1991 <sup>2)</sup> .....   | IP 65                                       |
| Stray magnetic field, measured on the measuring level..... | < 3 mT                                      |

<sup>2)</sup> valid with screwed on mating connector and / or screwed together cable gland

## Dimension drawing

