Linear-Transducer LP46K - SSI

Advantages
- Customer-specific solutions
- Flexible programming
- Further interfaces available
- Measures linear movements
- Position value - Adjustment
- Profile housing
- Simple integration
- Wear-free detection

General Data

Supply
- Supply voltage
  24 VDC, -20...+10 %
- Current consumption no load
  <= 250 mA

Measuring principle
magnetostrictive

Measuring length, standard
50...4000 mm, in steps

Resolution
0.001 mm

Linearity deviation
± 0.10 mm <= 1500 mm
± 0.15 mm > 1500 mm

Reproducibility
0.005 mm

Hysteresis
0.02 mm <= 1500 mm
0.1 mm > 1500 mm

Temperature coefficient
< 8 µm/°C <= 500 mm
< 15 ppm/°C > 500 mm

Straight line velocity
no restrictions

Mounting position
no restrictions

Material - Measuring body
Aluminium extruded profile

Magnet
Slider
other on request

SSI - Interface
- SSI-Clock input
  Optocoupler
- SSI-Data output
  RS-422, 2-wire

Subject to change.
## Linear-Transducer LP46K - SSI

### General Data continuation

<table>
<thead>
<tr>
<th>Parameter/Function, changeable</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>- SSI-Clock frequency</td>
<td>95…1000 kHz</td>
</tr>
<tr>
<td>- SSI-Mono time, typically</td>
<td>20 µs</td>
</tr>
</tbody>
</table>

### Type of parametrization
- Programmable

### Programming - Tool
- TR-Soft: TRWinProg
- TR-Tool: PT-100-N

### Cycle time internal
- <= 1.00 m: 0.50 ms
- <= 1.50 m: 0.75 ms
- <= 2.00 m: 1.00 ms

### External inputs
- F/R Count direction
- Preset electronic adjustment
- Logic level *0* = +2V, *1* = Supply

### Environmental conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration</td>
<td>&lt;= 100 m/s²</td>
</tr>
<tr>
<td>Sine</td>
<td>50…2000 Hz</td>
</tr>
<tr>
<td>Shock</td>
<td>&lt;= 1000 m/s²</td>
</tr>
<tr>
<td>Half sine</td>
<td>11 ms</td>
</tr>
<tr>
<td>Immunity to disturbance</td>
<td>DIN EN 61000-6-2</td>
</tr>
<tr>
<td>Transient emissions</td>
<td>DIN EN 61000-6-3</td>
</tr>
<tr>
<td>Working temperature</td>
<td>Standard: 0…+70 °C</td>
</tr>
<tr>
<td>Optional</td>
<td>-20…+70 °C;</td>
</tr>
<tr>
<td>Storage temperature, dry</td>
<td>-30…+85 °C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>98 %, non condensing</td>
</tr>
<tr>
<td>Protection class</td>
<td>Standard: IP65</td>
</tr>
</tbody>
</table>

Subject to change.
### Environmental conditions continuation

<table>
<thead>
<tr>
<th>Stray magnetic field</th>
<th>&lt; 3 mT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring reference</td>
<td>Measuring plane</td>
</tr>
</tbody>
</table>
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Ref.: K-LP46-SSI-1
20.01.2015
0102010130

Dimensional drawing

Dämpfungszone: Keine Herstellungsgarantie für das Mess-Signal
Messstange: Typenbezogener Messweg

Dampening zone: no guarantee for the measuring signal
Measuring length: Effective length

Subject to change.
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## Suggested products

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP_46K*150 SSI R 0.002mm, w/ mating plug</td>
<td>320-00185</td>
</tr>
<tr>
<td>LP_46K*500 SSI R 0.002mm, w/ mating plug</td>
<td>320-00226</td>
</tr>
<tr>
<td>LP_46K*1000 SSI R 0.002mm, w/ mating plug</td>
<td>320-00327</td>
</tr>
<tr>
<td>LP_46K*300 SSI R 0.002mm, w/ mating plug</td>
<td>320-00352</td>
</tr>
<tr>
<td>LP_46K*750 SSI R 0.002mm, w/ mating plug</td>
<td>320-00631</td>
</tr>
</tbody>
</table>

Subject to change.