LMSBI
Linear Magnetic Scale Bar Incremental

- Linear applications
- Different scale materials available
- Different pole pitches

Simple solutions with the LMSBI
fixed – precise – economic

Features
• From low to very high accuracy producible on demand
• One or multiple track magnetization
• Different scale geometries
• Customizable for many applications
• No attrition from usage
• Resistant to dust, cooling lubricant emulsion, oil, etc.
• Wide range of selectable magnetic scale characteristics
• A variety of magnetic materials for several applications

BOGEN produces magnetic scales and suitable accessories for a big variety of different applications. The magnetic scale incremental bar can be attached with a scale written with one track or multiple tracks. Using different accuracy classes scales can be tailored to the requirements.
Linear Magnetic Scale Bar

Scale Bar Properties

| Material    | Cover tape: stainless steel  
Steel bar: steel  
Magnetic tape: elastomer bonded ferrite  
Sealing: silicon adhesive |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance to environmental influences</td>
<td>tbd</td>
</tr>
<tr>
<td>Magnetic flux density</td>
<td>tbd</td>
</tr>
<tr>
<td>Temperature range</td>
<td>tbd</td>
</tr>
<tr>
<td>Resistant to dust, cooling lubricant emulsion, oil, etc</td>
<td>tbd</td>
</tr>
</tbody>
</table>

* please handle with gloves only (for rustproofing)

Dimensions

Optional Accessory
- clamping claws (on request)
Order Code

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Code</th>
<th>Explanation&lt;sup&gt;(1)&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>P Pole Pitch (mm)</td>
<td>P ...</td>
<td>0.5 to 2 mm (in steps of 0.01 mm)</td>
</tr>
<tr>
<td>Z Reference Track</td>
<td>Z</td>
<td>without reference track</td>
</tr>
<tr>
<td>L Bar length (mm)&lt;sup&gt;(2)(3)&lt;/sup&gt;</td>
<td>L500 500 mm, L1000 1000 mm, L1500 1500 mm, L2000 2000 mm</td>
<td></td>
</tr>
<tr>
<td>A Accuracy Class</td>
<td>A03 ± 3 µm/m, A10 ± 10 µm/m, A20 ± 20 µm/m</td>
<td></td>
</tr>
</tbody>
</table>

<sup>(1)</sup> standard parameters are bold  <sup>(2)</sup> measurement length = bar length - 10 mm  <sup>(3)</sup> for lengths over 1300 mm extra freight charge will be billed

Ordering Example

LMSBI-P1.5ZL1000A20 Linear Magnetic Scale Bar Incremental, pole pitch 1.5 mm, with reference track, bar length 1000 mm, accuracy class ± 20 µm/m