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| Exposed Linear Encoderslgg_offen_vorschau_13699.jpg |

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| Exposed linear encoders are designed for use on machines and installations that require especially high accuracy of the measured value. Typical applications include:  Measuring and production equipment in the semiconductor industry  PCB assembly machines  Ultra-precision machines  High-accuracy machine tools  Measuring machines and comparators, measuring microscopes, and other precision measuring devices  Direct drives  |  |

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| Design Types  |
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| **Series**  | **Main features**  | **Accuracy grade**  | **Measuring lengths**  |
| [**LIP 300**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18365)  |  for very high accuracy  scale of glass ceramic or glass  interferential scanning principle for small signal periods  | ± 0.5 µm  | 70 to 270 mm  |
| [**LIP 400**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18395)  |  for very high accuracy  scale of glass ceramic or glass  interferential scanning principle for small signal periods  | ± 1 µm  | 70 to 420 mm  |
| [**LIP 500**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18394)  |  for very high accuracy  scale of glass ceramic or glass  interferential scanning principle for small signal periods  | ± 1 µm | 70 to 1440 mm  |
| [**LIF**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18364)  |  for very high accuracy  with PRECIMET adhesive film  interferential scanning principle for small signal periods  limit switches and homing track  | ± 3 µm  | 70 to 1020 mm  |
| [**LIDA 200**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18355)  |  for high traversing speeds and large measuring lengths  steel scale tape drawn into aluminium extrusion or to mounting surface  | ± 30 µm  | to 10 000 mm  |
| [**LIDA 400**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18354)  |  for high traversing speeds and large measuring lengths  steel scale tape drawn into aluminium extrusion or to mounting surface  limit switches  | ± 5 µm± 15 µm  | 140 to 30 040 mm 240 to 6040 mm  |
| [**LIDA 500**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18368)  |  for very limited installation space  small scanning head  simple installation  | ± 5 µm  | 70 to 1020 mm  |
| [**PP**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18366)  |  for two-coordinate measurement  common scanning point for both coordinates  interferential scanning principle for small signal periods  | ± 2 µm  | 68 mm x 68 mm  |

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